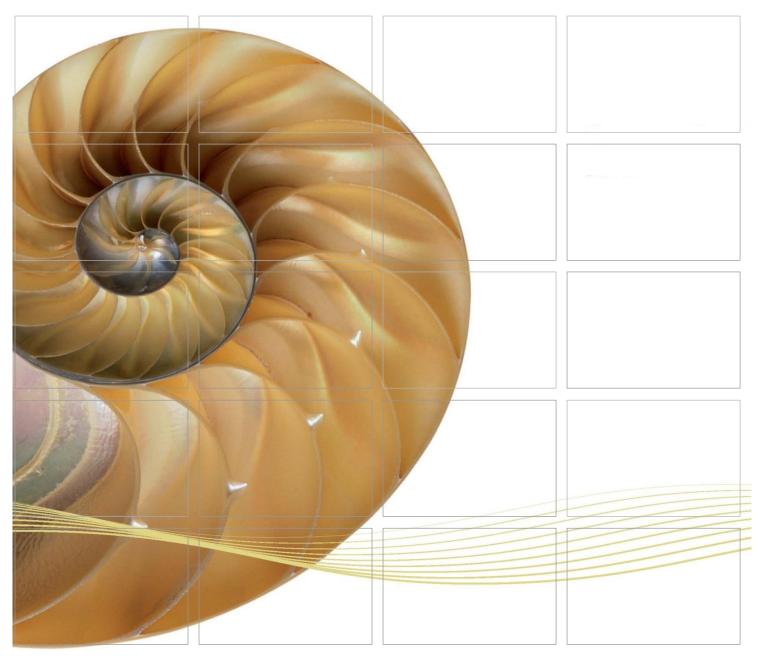
Report



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

Seventy-second Monthly Environmental Monitoring & Audit (EM&A) Report

12 November 2019

Environmental Resources Management 2507, 25/F One Harbourfront 18 Tak Fung Street Hunghom, Kowloon Hong Kong Telephone 2271 3000 Facsimile 2723 5660





Ref.: HYDHZMBEEM00_0_7752L.19

13 November 2019

By Fax (2293 6300) and By Post

AECOM Asia Co. Ltd.
Supervising Officer Representative's Office
No.8 Mong Fat Street, Tuen Mun, New Territories, Hong Kong

Attention: Messrs. Andy Westmoreland / Roger Man

Dear Sirs,

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

Contract No. HY/2012/08
TM-CLKL - Northern Connection Sub-sea Tunnel Section
72nd Monthly EM&A Report for October 2019 (EP-354/2009/D)

Reference is made to the Monthly EM&A Report for October 2019 (ET's ref.: "0212330_72nd Monthly EM&A_20191112.doc") certified by the ET Leader and provided to us via e-mail on 12 November 2019.

Please be informed that we have no adverse comments on the captioned Report. We write to verify the captioned submission in accordance with Condition 4.4 of EP-354/2009/D.

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

Yours sincerely,

Toffe Cogy

F. C. Tsang

Independent Environmental Checker Tuen Mun – Chek Lap Kok Link

c.c.

 HyD
 Mr. Patrick Ng
 (By Fax: 3188 6614)

 HyD
 Mr. Cheng Pan
 (By Fax: 3188 6614)

 AECOM
 Mr. Conrad Ng
 (By Fax: 3922 9797)

 ERM
 Dr. Jasmine Ng
 (By Fax: 2723 5660)

 DBJV
 Mr. Bryan Lee
 (By Fax: 2293 7499)

Internal: DY, YH, ENPO Site

\\aphkfps3\Drive Q\Projects\HYDHZMBEEM00\02_Proj_Mgt\02_Corr\2019\HYDHZMBEEM00 0 7752L.19.docx



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

Seventy-second Monthly Environmental Monitoring & Audit (EM&A) Report

Document Code: 0212330_72nd Monthly EM&A_20191112.doc

Environmental Resources Management

2507, 25/F One Harbourfront 18 Tak Fung Street Hunghom, Kowloon Hong Kong Telephone: (852) 2271 3000

Facsimile: (852) 2723 5660 E-mail: post.hk@erm.com http://www.erm.com

Client:		Project No	0:		
DBJV		021233	0		
Summary	•	Date:			
-		12 Nove	ember 20	19	
		Approved	by:		
This document presents the Seventy-second Monthly EM&A Report for Tuen Mun – Chek Lap Kok Link Northern Connection Sub-sea Tunnel Section.		Mr Craig Reid Partner			
		Certified b	ov:		
			mìu		
		Dr Jasn ET Leade	•		
	72 nd Monthly EM&A Report	VAR	JN	CAR	12/11/19
Revision	Description	Ву	Checked	Approved	Date
This report has been prepared by Environmental Resources Management the trading name of 'ERM Hong-Kong, Limited', with all reasonable skill, care and diligence within the terms of the Contract with the client, incorporating our General Terms and Conditions of Business and taking account of the resources devoted to it by agreement with the client. We disclaim any responsibility to the client and others in respect of any matters outside the scope of the above.		Distribution Internal Public Confidential		Certificate	5 18001:2007 No. OHS 515956 BSJ *** 0001:2008 e No. FS 32515



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EXECUTIVE SUMMARY

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*. Ramboll Hong Kong Ltd. was employed by HyD as the Independent Environmental Checker (IEC) and Environmental Project Office (ENPO). Subsequent applications for variation of environmental permits (VEP), *EP-354/2009/B*, *EP-354/2009/C* and *EP-354/2009/D*, were granted on 28 January 2014, 10 December 2014 and 13 March 2015, respectively.

The construction phase of the Contract commenced on 1 November 2013 and will tentatively be completed by the end of 2019. 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 Seventy-second Monthly EM&A report presenting the EM&A works carried out during the period from 1 to 31 October 2019 for the *Contract No. HY/2012/08 Northern Connection Sub-sea Tunnel Section* (the "Contract") in accordance with the Updated EM&A Manual of the TM-CLK Link Contract. As informed by the Contractor, major activities in the reporting period included:

Land-based Works

- Construction of Thermal barrier TBM tunnel;
- Construction of Walkway Corbel & Cover TBM Tunnel;
- Road & Drainage works Portion N-A
- RC structure Portion S-A;
- E&M Platform Installation Portion S-A
- Backfilling Portion S-A & S-C;
- Cut & Cover Tunnel RC structure Portion S-C

Marine-based Works

• Seawall Modification Works - Portion S-B

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

24-hour TSP Monitoring 10 sessions

1-hour TSP Monitoring 10 sessions

Water Quality Monitoring 13 sessions

Impact Dolphin Monitoring 2 sessions

Joint Environmental Site Inspection 5 sessions

Implementation of Marine Mammal Exclusion Zone

Daily marine mammal exclusion zone was in effect during the period of silt curtain installation in open waters under this Contract. No sighting of the Indo-Pacific humpback dolphin Sousa chinensis (i.e. Chinese White Dolphin) was recorded in October 2019 during the exclusion zone monitoring.

Summary of Breaches of Action/Limit Levels

Breaches of Action and Limit Levels for Air Quality

Three (3) Action Level exceedances of 1-hour TSP Monitoring were recorded in the air quality monitoring of this reporting month.

Breaches of Action and Limit Levels for Water Quality

Two (2) Action Level exceedances for Depth-averaged suspended soilds were recorded in the water quality monitoring of this reporting month.

Breaches of Action and Limit Levels for Dolphin Monitoring

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 in relation to the construction activities of this Contract 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

Contract No. HY/2012/08 has taken over the responsibility for implementation of dolphin monitoring from HZMB HKLR Contract No. HY/2011/03 since October 2019.

Upcoming Works for the Next Reporting Month

Works to be undertaken in the next monitoring period of November 2019 include the following:

Land-based Works

- Construction of Thermal barrier TBM tunnel;
- Construction of Walkway Corbel & Cover TBM Tunnel;
- Road & Drainage works Portion N-A
- Gantry Crane Removal Portion N-B
- RC structure Portion S-A;
- E&M Platform Installation Portion S-A
- Backfilling Portion S-A & S-C;
- Cut & Cover Tunnel RC structure Portion S-C
- Tower Crane Removal Portion S-C

Marine-based Works

• Seawall Modification Works - Portion S-B

Future Key Issue

Potential environmental impacts arising from the above upcoming construction activities in the next reporting month of November 2019 are mainly associated with dust, marine water quality, marine ecology and waste management issues.

INTRODUCTION

1.1 BACKGROUND

1

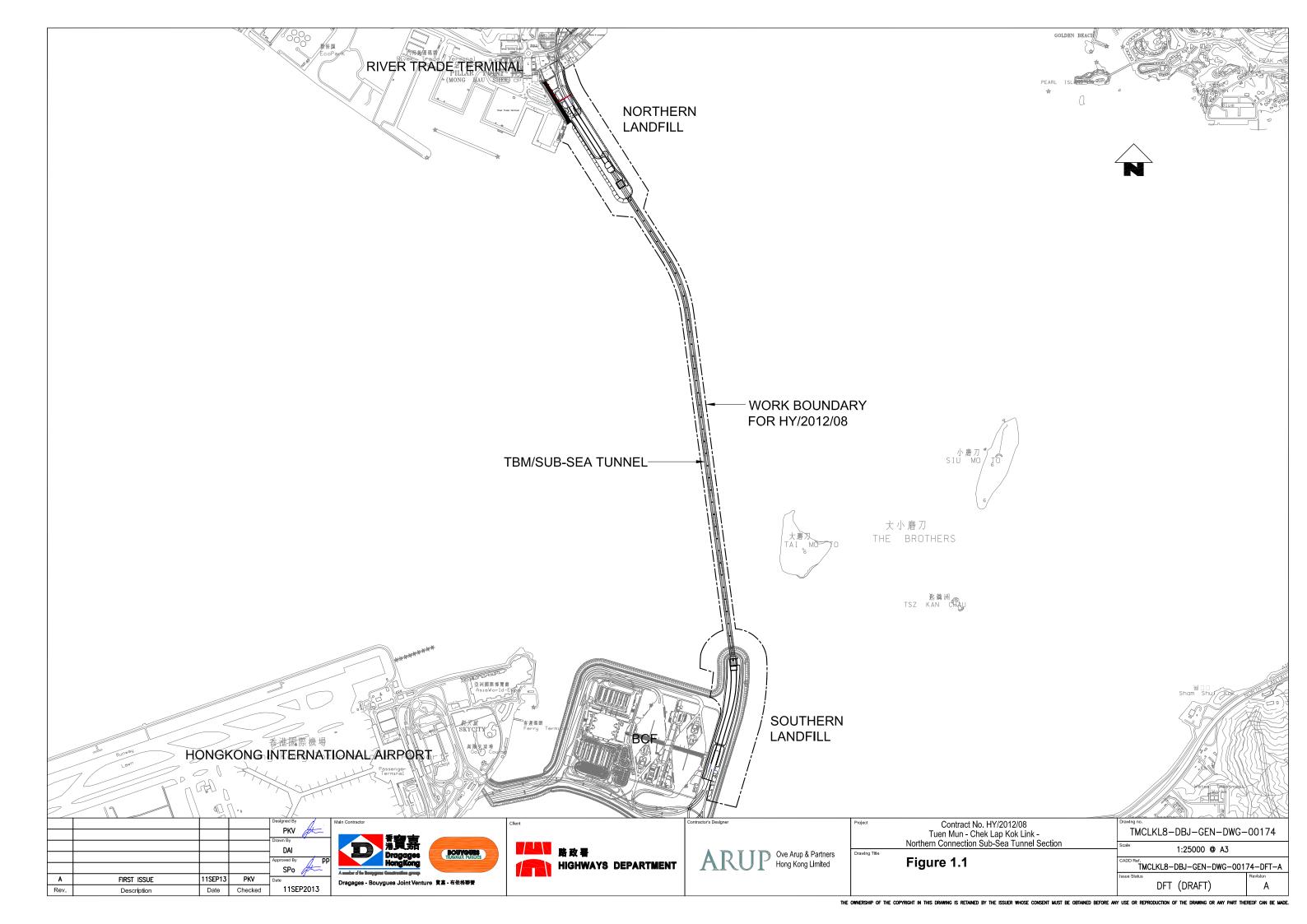
According to the findings of the Northwest New Territories (NWNT) Traffic and Infrastructure Review conducted by the Transport Department, Tuen Mun Road, Ting Kau Bridge, Lantau Link and North Lantau Highway would be operating beyond capacity after 2016. This forecast has been based on the estimated 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-146/2009), 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 (VEP) (EP-354/2009/A) was issued on 8 December 2010. Subsequent applications for variation of environmental permits (VEPs), *EP-354/2009/B*, *EP-354/2009/C* and *EP-354/2009/D*, were granted on 28 January 2014, 10 December 2014 and 13 March 2015, respectively.

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 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). Ramboll 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 the end of 2019. 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.



1.2 Scope of Report

This is the Seventy-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 October 2019.

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
Highways Department	Engr 24/SD	Ken T.M. Cheng	2762 4062	3188 6614
SOR (AECOM Asia Company	Chief Resident Engineer	Roger Man	2293 6388	2293 6300
Limited)	0	Andrew Westmoreland	2293 6360	2293 6300
ENPO / IEC (Ramboll Hong Kong Ltd.)	ENPO Leader	Y.H. Hui	3465 2850	3465 2899
(Kambon Hong Kong Ett.)	IEC	Dr. F.C. Tsang	3465 2851	3465 2899
Contractor (Dragages - Bouygues Joint Venture)	Deputy Environmental Manager	Bryan Lee	2293 7323	2293 7499
	24-hour hotline		2293 7330	
ET (ERM-HK)	ET Leader	Jasmine Ng	2271 3311	2723 5660

1.4 SUMMARY OF CONSTRUCTION WORKS

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

As per DBJV's information, details of major construction works carried out in this reporting period are summarized in *Table 1.2*.

The general layout plan of the site showing the detailed works areas is shown in *Figure 1.2*. The Environmental Sensitive Receivers in the vicinity of the Contract are shown in *Figure 1.3*.

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

Table 1.2 Summary of Construction Activities Undertaken during the Reporting Period

Construction Activities Undertaken

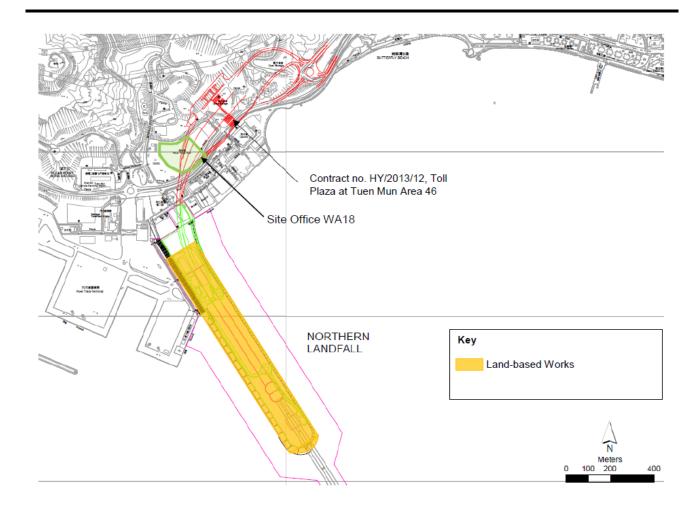
Land-based Works

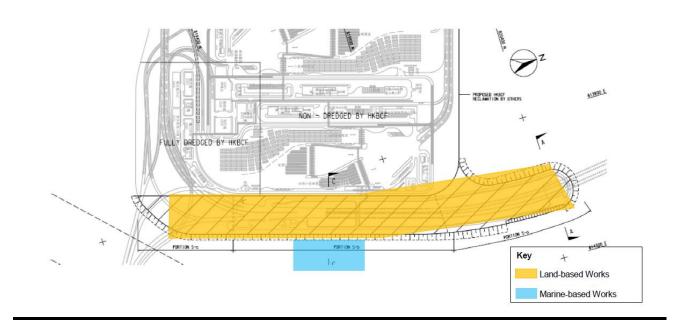
- Construction of Thermal barrier TBM tunnel;
- Construction of Walkway Corbel & Cover TBM Tunnel;
- Road & Drainage works Portion N-A
- RC structure Portion S-A;
- E&M Platform Installation Portion S-A
- Backfilling Portion S-A & S-C;
- Cut & Cover Tunnel RC structure Portion S-C

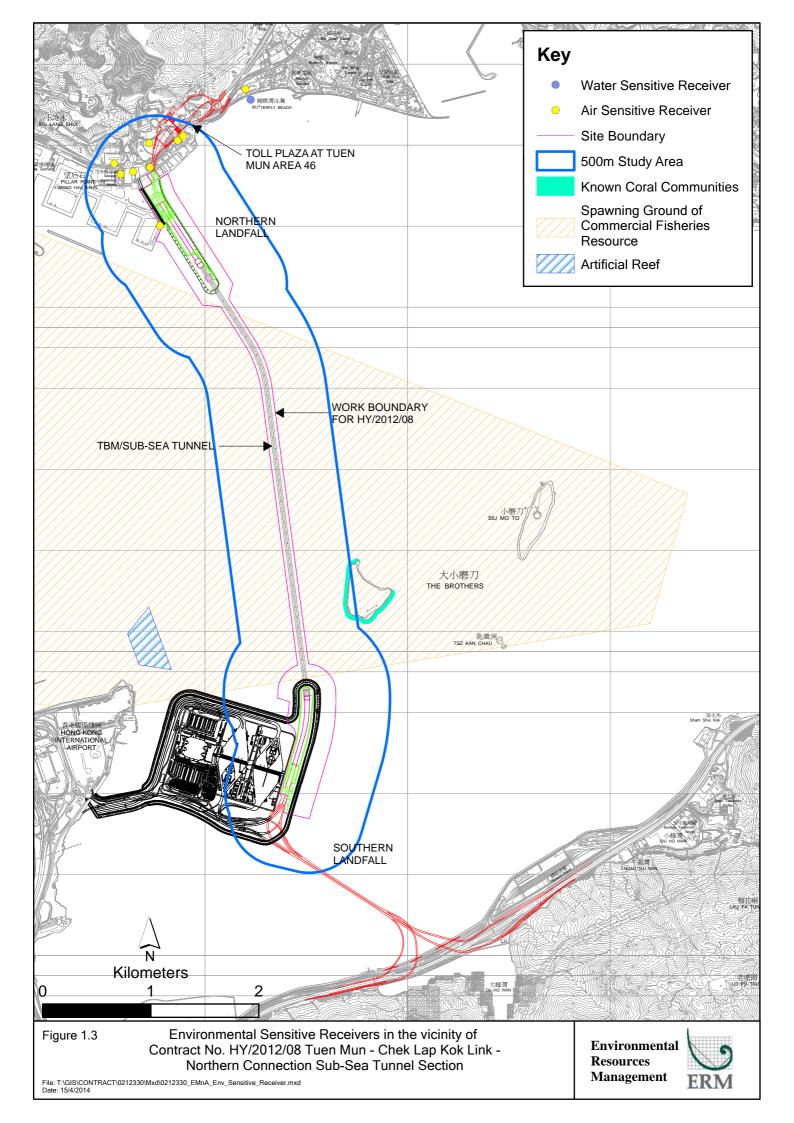
Marine-based Works

• Seawall Modification Works - Portion S-B

Figure 1.2 Locations of Construction Activities - October 2019







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, noise, water quality, waste management, marine ecology and landscape and visual impacts. The EM&A requirements and related findings for each component are summarized in the following sections

2.1 AIR QUALITY

2.1.1 Monitoring Requirements and Equipment

In accordance with the Updated EM&A Manual and the Enhanced TSP Monitoring Plan, 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. 1-hr and 24-hr TSP monitoring frequency was increased to three times per day every three days and daily every three days, respectively, as excavation works for launching shaft commenced on 24 October 2014.

High volume samplers (HVSs) were used to carry out the 1-hour and 24-hour TSP monitoring on 2, 5, 8, 11, 14, 17, 20, 23, 26 and 29 October 2019 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 meter 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 and Monitoring Dates in this Reporting Period

Monitoring Station	Monitoring Dates	Location	Description	Parameters & Frequency
ASR1	2, 5, 8, 11, 14, 17, 20,	Tuen Mun	Office	TSP monitoring
	23, 26 and 29 October	Fireboat Station		 1-hour Total Suspended
	2019			Particulates (1-hour TSP,
ASR5		Pillar Point Fire	Office	μ g/m³), 3 times in every 6 days
		Station		 24-hour Total Suspended
				Particulates (24-hour TSP,
AQMS1		Previous River	Bare ground	μ g/m³), daily for 24-hour in
		Trade Golf		every 6 days
				Enhanced TSP monitoring
ASR6		Butterfly Beach	Office	(commenced on 24 October 2014)
		Laundry		 1-hour Total Suspended
				Particulates (1-hour TSP,
ASR10		Butterfly Beach	Recreational	$\mu g/m^3$), 3 times in every 3 days
		Park	uses	 24-hour Total Suspended
				Particulates (24-hour TSP,
				$\mu g/m^3$), daily for 24-hour in
				every 3 days

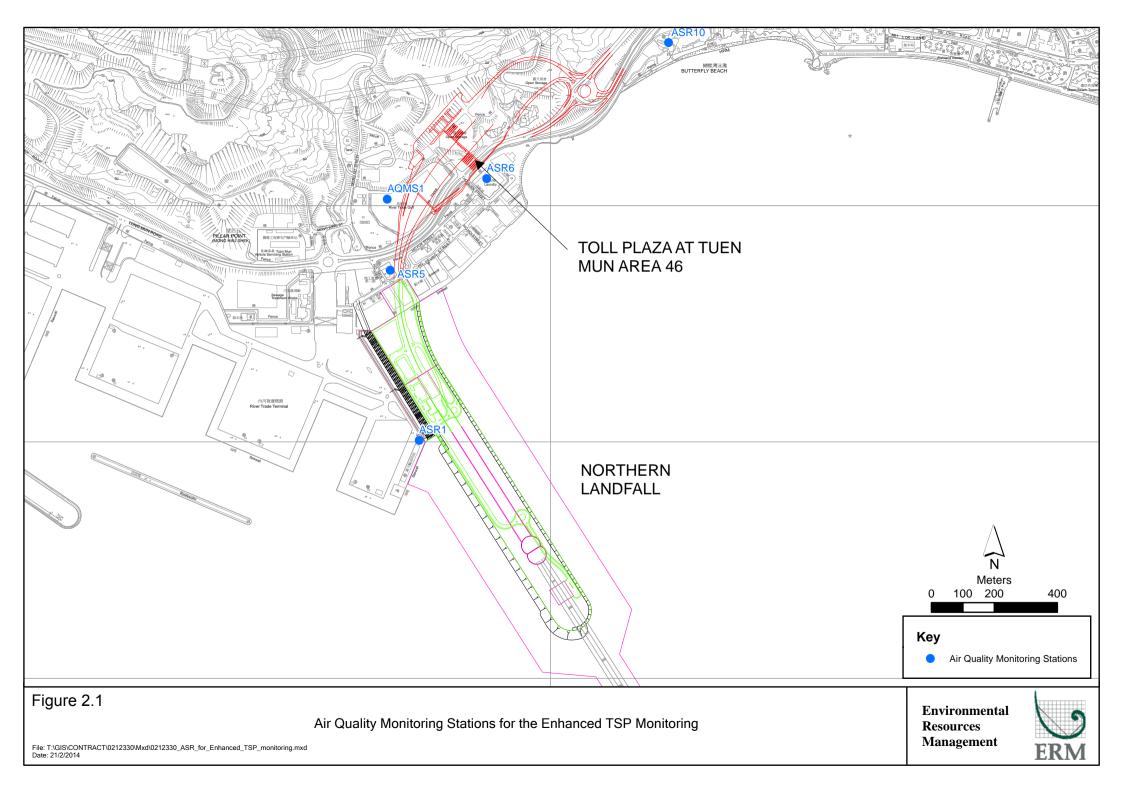


Table 2.2 Air Quality Monitoring Equipment

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 Meter	Davis (Model: Vantage Pro 2 (S/N: AS160104014)
Wind Anemometer for calibration	Lutron (Model No. AM-4201)

2.1.2 Action & Limit Levels

The Action and Limit Levels of the air quality monitoring is provided in *Appendix D*. The Event and Action plan is presented in *Appendix K*.

2.1.3 Monitoring Schedule for the Reporting Month

The schedule for air quality monitoring in October 2019 is provided in *Appendix F*.

2.1.4 Results and Observations

The monitoring results for 1-hour TSP and 24-hour TSP are summarized in *Tables 2.3* and 2.4, respectively. Detailed impact air quality monitoring results 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)
ASR1	143	67 - 385	331	500
ASR5	191	69 - 288	340	500
AQMS1	118	56 - 204	335	500
ASR6	106	41 - 198	338	500
ASR10	64	35 - 136	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)
ASR1	90	46 - 147	213	260
ASR5	100	61 - 145	238	260
AQMS1	70	42 - 100	213	260
ASR6	74	47 - 111	238	260
ASR10	52	34 - 92	214	260

The weather condition during the monitoring period varied from sunny to cloudy. The major dust sources in the reporting period included construction activities under the Contract as well as nearby traffic emissions.

A total of 10 1-hour TSP and 24-hour TSP monitoring were undertaken in this reporting month. Three (3) Action Level exceedances of 1-hour TSP

Monitoring were recorded in the air quality monitoring of this reporting month.

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

The Seawall Modification Works has commenced on 12 August 2019. Water quality monitoring was carried out in this reporting month.

In accordance with the approved Environmental Review Report dated 21 March 2018 for the Change in Design of Vertical Seawall to Sloping Seawall on Southern Landfall, Updated Impact water quality monitoring programme and water quality monitoring stations IS17, SR7 and IS(Mf)11 specified under the EM&A Manual for HZMB HKBCF project will be adopted. (*Figure 2.2; Table 2.5*).

The Action and Limit Levels of the water quality monitoring were adopted from the EM&A Manual for HZMB HKBCF project. The Action and Limit Levels are 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	_		
IS(Mf)11	Impact Station	813562	820716	Temperature(°C)	3 water	Impact
	(Close to			 pH(pH unit) 	depths:	monitoring:
	HKBCF			• Turbidity (NTU)	1m	3 days per
	construction			 Water depth (m) 	below	week, at
	site)			 Salinity (ppt) 	sea	mid-flood
IS17	Impact Station	814539	820391	 DO (mg/L and 	surface,	and mid-
	(Close to			% of	mid-	ebb tides
	HKBCF			saturation)	depth	during the
	construction			• SS (mg/L)	and 1m	construction
	site)				above	period of

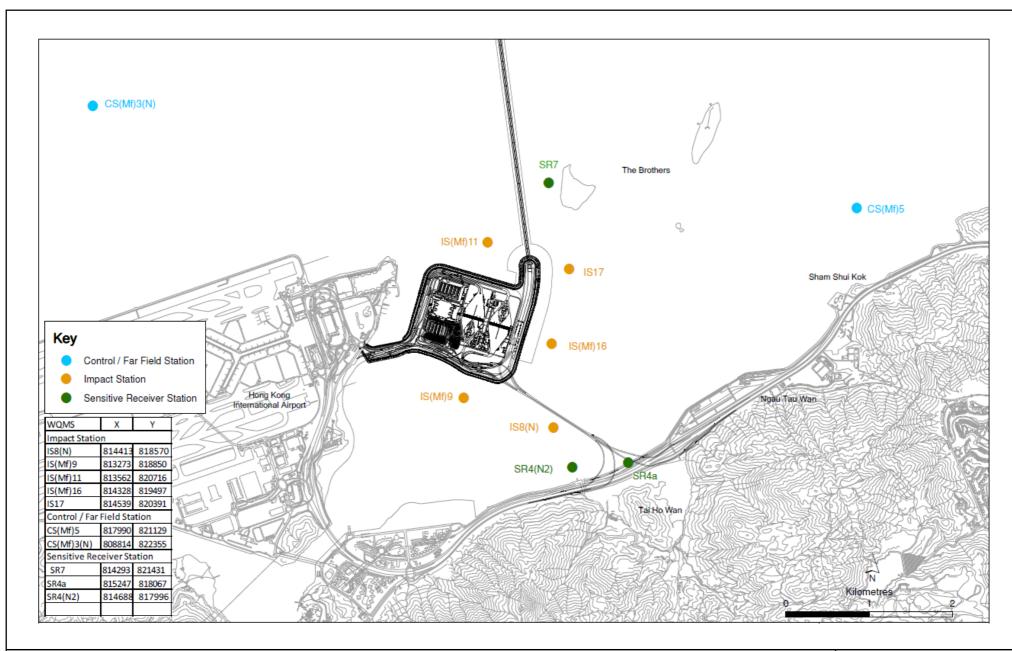


Figure 2.2



Station ID	Type	Coord	linates	*Parameters, unit	Depth	Frequency
SR7	Sensitive receivers (Tai Mo Do)	814293	821431	rarameters, unit	sea bed. If the water depth is less than 3m, middepth sampling only. If water depth less than 6m, middepth may be omitted.	the Contract.
IS(Mf)9	Impact Station (Close to HKBCF construction site)	813273	818850			
IS(Mf)16	Impact Station (Close to HKBCF construction site)	814328	819497			
IS8(N)	Impact Station (Close to HKBCF construction site)	814413	818570			
SR4(N2)	Sensitive receiver (Tai Ho Inlet)	814688	817996			
SR4a	Sensitive receiver	815247	818067			
CS(Mf)3(N) CS(Mf)5	Control Station Control Station	808814 817990	822355 821129			

^{*}Notes:

In addition to the parameters presented monitoring location/position, time, water depth, sampling depth, tidal stages, weather conditions and any special phenomena or works underway nearby were also recorded. Water Quality Monitoring Station CS(Mf)3 was relocated to CS(Mf)3(N) since 2 May 2017.

Water Quality Monitoring Station SR4 was relocated to SR4(N) since 2 March 2018.

Water Quality Monitoring Station SR4(N) was relocated to SR4(N2) since 12 June 2019

Water Quality Monitoring Station IS8 was relocated to IS8(N) since 12 June 2019.

Table 2.6 summarizes 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
Multi-Parameters	YSI ProDss 18A104824
Multi-Parameters	YSI ProDss 0001C6A7
Multi-Parameters	YSI ProDss 17H105557
Positioning Equipment	Furuno GP-170
Water Depth Detector	Lowrance Mark 5x / Garmin Striker 4

2.2.2 Action & Limit Levels

The Action and Limit levels of water quality impact monitoring are shown in *Appendix D*. The Event and Action plan is presented in *Appendix K*.

2.2.3 Monitoring Schedule for the Reporting Month

The schedule for water quality monitoring in October 2019 is provided in *Appendix F*.

2.2.4 Results and Observations

Impact water quality monitoring was conducted at all designated monitoring stations in the reporting month. Results and graphical presentations of impact water quality monitoring are presented in *Appendix J*.

In this reporting period, a total of thirteen (13) monitoring events were undertaken in which Two (2) Action Level exceedances for Depth-averaged suspended soilds were recorded in the water quality monitoring.

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, Contract No. HY/2012/08 has taken over the responsibility for implementation of dolphin monitoring from HZMB HKLR Contract No. HY/2011/03 since October 2019.

2.3.2 *Monitoring Equipment*

Table 2.7 summarises the equipment used for the impact dolphin monitoring.

Table 2.7 Dolphin Monitoring Equipment

Equipment	Model
Global Positioning System (GPS)	Garmin 18X-PC
0 7 (7	Geo One Phottix
Camera	Nikon D90 300m 2.8D fixed focus
	Nikon D90 20-300m zoom lens
Laser Binocular	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 2.8* below.

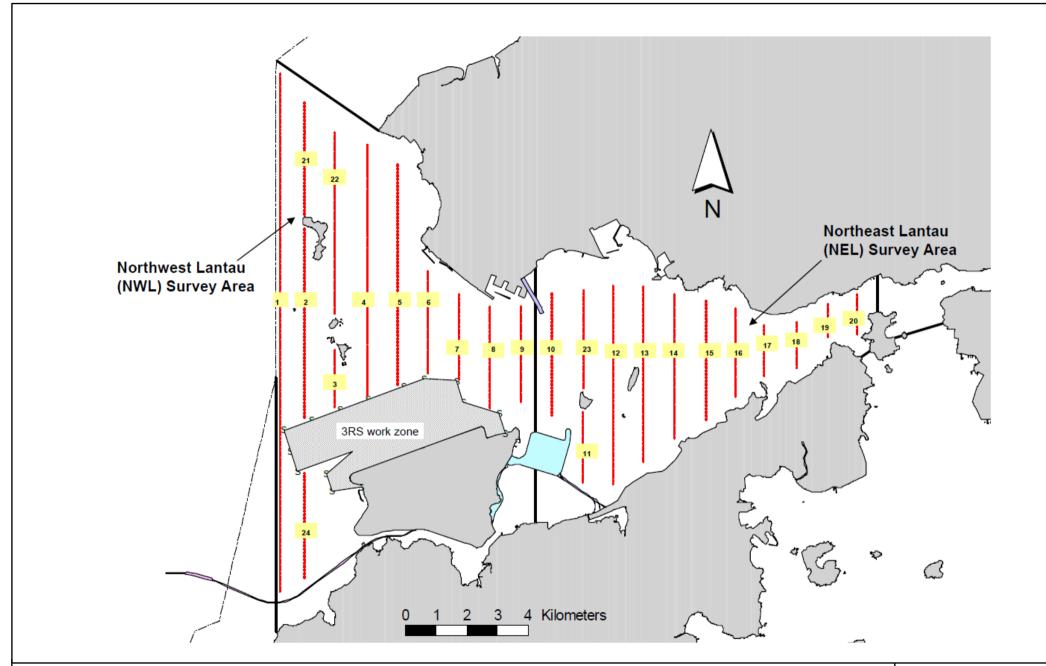


Figure 2.3

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

Environmental Resources Management



 Table 2.8
 Impact Dolphin Monitoring Line Transect Co-ordinates

Line No.		Easting	Northing		Line No.	Easting	Northing
1	Start Point	804671	815456	13	Start Point	816506	819480
1	End Point	804671	831404	13	End Point	816506	824859
2	Start Point	805476	820800*	14	Start Point	817537	820220
2	End Point	805476	826654	14	End Point	817537	824613
3	Start Point	806464	821150*	15	Start Point	818568	820735
3	End Point	806464	822911	15	End Point	818568	824433
4	Start Point	807518	821500*	16	Start Point	819532	821420
4	End Point	807518	829230	16	End Point	819532	824209
5	Start Point	808504	821850*	17	Start Point	820451	822125
5	End Point	808504	828602	17	End Point	820451	823671
6	Start Point	809490	822150*	18	Start Point	821504	822371
6	End Point	809490	825352	18	End Point	821504	823761
7	Start Point	810499	822000*	19	Start Point	822513	823268
7	End Point	810499	824613	19	End Point	822513	824321
8	Start Point	811508	821123	20	Start Point	823477	823402
8	End Point	811508	824254	20	End Point	823477	824613
9	Start Point	812516	821303	21	Start Point	805476	827081
9	End Point	812516	824254	21	End Point	805476	830562
10	Start Point	813525	821176	22	Start Point	806464	824033
10	End Point	813525	824657	22	End Point	806464	829598
11	Start Point	814556	818853	23	Start Point	814559	821739
11	End Point	814556	820992	23	End Point	814559	824768
12	Start Point	815542	818807	24*	Start Point	805476*	815900*
12	End Point	815542	824882	24*	End Point	805476*	819100*

Remarks: The coordinates of several starting and ending points have been revised due to the presence of a work zone to the north of the airport platform with intense construction activities in association with the construction of the third runway expansion for the Hong Kong International Airport. Co-ordinates in red and marked with asterisk are revised co-ordinates of transect line.

2.3.5 Action & Limit Levels

The Action and Limit levels of impact dolphin 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 8, 9, 14 and 29 of October 2019. The dolphin monitoring schedule for the reporting month is shown in *Appendix F*.

2.3.7 Results & Observations

A total of 263.38 km of survey effort was collected, with 96.2% of the total survey effort being conducted under favourable weather conditions (i.e. Beaufort Sea State 3 or below with good visibility) in October 2019. Among the two areas, 95.48 km and 167.90 km of survey effort were collected from NEL and NWL survey areas, respectively. The total survey effort conducted on primary and secondary lines were 188.52 km and 74.86 km respectively. The survey efforts are summarized in *Appendix I*.

One Chinese White Dolphins sighting was recorded during the two sets of surveys in October 2019. The dolphin sighting was made in NWL, while none was sighted in NEL. The lone dolphin sighting was made during oneffort search and was made on primary lines. The dolphin groups were not associated with any operating fishing vessel.

No dolphin sighting was made in the proximity of the TM-CLKL alignment. 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) in October 2019 with the results present in *Tables 2.9* and *2.10*.

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 oneffort sightings per 100 km of survey effort)	
		Primary Lines Only	Primary Lines Only	
NEL	Set 1: October 8th / 9th	0.0	0.0	
NEL	Set 2: October 14th / 29th	0.0	0.0	
NWL	Set 1: October 8th / 9th	1.7	1.7	
	Set 2: October 14th / 29th	0.0	0.0	

Note: Dolphin Encounter Rates are deduced from the Two Sets of Surveys (Two Surveys in Each Set) in October 2019 in Northeast (NEL) and Northwest Lantau (NWL)

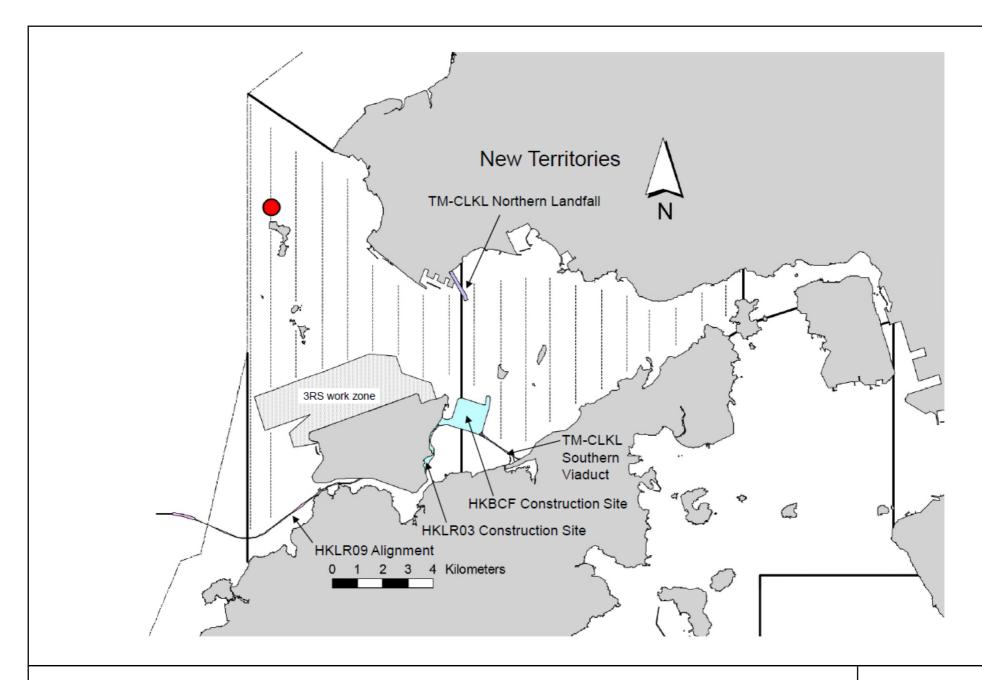


Figure 2.4



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 Lines Only	Both Primary and Secondary Lines	Primary Lines Only	Both Primary and Secondary Lines	
Northeast Lantau	0.0	0.0	0.0	0.0	
Northwest Lantau	0.9	0.6	0.9	0.6	

Note: Overall dolphin encounter rates (sightings per 100 km of survey effort) from all four surveys are conducted in October 2019 on primary lines only as well as both primary lines and secondary lines in Northeast and Northwest Lantau.

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 in relation to the construction activities of this Contract 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 Implementation of Marine Mammal Exclusion Zone

Daily marine mammal exclusion zone was in effect during the period of silt curtain installation in open waters under this Contract. No sighting of the Indo-Pacific humpback dolphin Sousa chinensis (i.e. Chinese White Dolphin) was recorded in October 2019 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 2, 9, 16, 23 and 30 October 2019.

Key observations and recommendations during the site inspections in this reporting period are summarized in *Table 2.11*.

Table 2.11 Specific Observations and Recommendations during the Weekly Site Inspection in this Reporting Month

Inspection Date	Observations	Recommendations/ Remarks
2 October 2019	 Works Area - Portion N-A Water spraying should be applied on main haul road. NRMM label on machine should be fixed. Works Area - Portion S-B Water spraying should be applied on main haul road. Food waste in the waste skip should be cleared. Reminder from the SOR Works Area - Portion S-B Cover of the water barrier should be provided. 	 Works Area - Portion N-A The Contractor was reminded to apply water spraying on the main haul road. The Contractor was reminded to fix the NRMM label on machine. Works Area - Portion S-B The Contractor was reminded to apply water sraying on the main haul road. The Contractor was reminded to clear the food waste in the waste skip. Reminder from the SOR Works Area - Portion S-B The Contractor was reminded to provide the cover of the water barrier.
9 October 2019	 Works Area - TBM tunnel Food waste should be removed and better housekeeping should be maintained. Works Area - Portion S-A Cement bages should be covered with tarpaulin sheets. Reminder from the SOR Works Area - TBM tunnel Stagnant water should be cleared. Works Area - Portion S-A Stagnant water should be cleared. 	 Works Area - TBM tunnel The Contractor was reminded to remove the food waste and maintain better housekeeping. Works Area - Portion S-A The Contractor was reminded to cover the cement bags with tarpaulin sheets. Reminder from the SOR Works Area - TBM tunnel The Contractor was reminded to clear the stagnant water. Works Area - Portion S-A The Contractor was reminded to clear the stagnant water.

Inspection Date	Observations	Recommendations/ Remarks
16 October 2019	 Works Area - Portion S-A Faded NRMM label should be replaced. Works Area - Portion S-B Food waste in the skip should be cleared. Works Area - Portion N-A Drip tray should be provided for the chemical containers. Reminder from the SOR Works Area - Portion S-A Stagnant water should be cleared. Works Area - Portion N-A Lifting eyes should be filled with sand. 	 Works Area - Portion S-A The Contractor was reminded to replace the faded NRMM label. Works Area - Portion S-B The Contractor was reminded to clear the food waste in the skip. Works Area - Portion N-A The Contractor was reminded to provide drip tray for the chemical containers. Reminder from the SOR Works Area - Portion S-A The Contractor was reminded to clear the stagnant water. Works Area - Portion N-A The Contractor was reminded to fill the
23 October 2019	 Works Area - Portion S-A Cement batching station should be sheltered on top and 3 sides. Cement bags should be covered with tarpaulin sheets. Works Area - TBM tunnel Cement bages should be covered with tarpaulin sheets. Reminder from the SOR Works Area - TBM tunnel Covers of the water barrier should be provided. 	lifting eyes with sand. Works Area – Portion S-A The Contractor was reminded to shelter the cement batching station on top and 3 sides. The Contractor was reminded to cover the cement bags with tarpaulin sheets. Works Area – TBM tunnel The Contractor was reminded to cover the cement bags with tarpaulin sheets. Reminder from the SOR Works Area – TBM tunnel The Contractor was reminded to provide covers for the water barrier.
30 October 2019	 Works Area - Portion S-A The faded NRMM label on the air compressor should be replaced. Works Area - Portion S-B Food waste should be removed. Works Area - Poriton N-A Food waste from the skip should be removed. The damaged NRMM label should be replaced. Reminder from the SOR Works Area - Portion N-A The oil leakage should be fixed. 	 Works Area - Portion S-A The Contractor was reminded to replace the faded NRMM label on the air compressor. Works Area - Portion S-B The Contractor was reminded to remove the food waste. Works Area - Poriton N-A The Contractor was reminded to remove the food waste from the skip. The Contractor was reminded to replace the damaged NRMM label. Reminder from the SOR Works Area - Portion N-A The Contractor was reminded to fix the oil leakage.

The Contractor has rectified all of the observations as identified during environmental site inspections 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.

Wastes generated during this reporting period included mainly construction wastes (inert and non-inert). Reference has been made to the waste flow table prepared by the Contractor (*Appendix M*). The quantities of different types of wastes are summarized in *Table 2.12*.

Table 2.12 Quantities of Different Waste Generated in the Reporting Month

Month/Year	Inert Construction	Construction Co Waste Re-	Non-inert Construction	Recyclable Materials (c) (kg)	Chemical Wastes (kg)	Marine Sediment (m³)		
	Waste (a) (tonnes)		Waste (b) (tonnes)			Category L	Category M (M _p & M _f)	Mixed (L+M)
October	8,366	0	754	524,090	5,800	0	0	0

Notes:

- (a) Inert construction wastes include hard rock and large broken concrete, and materials disposed as public fill.
- (b) Non-inert construction wastes include general refuse disposed at landfill.
- (c) Recyclable materials include metals, paper, cardboard, plastics, timber and others.

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 also reminded to properly maintain the site tidiness and dispose of the wastes accumulated on site regularly and properly.

For chemical waste containers, the Contractor was reminded to treat properly and store 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 2.13* below.

Summary of Environmental Licensing and Permit Status *Table 2.13*

License/ Permit	License or Permit No.	Date of Issue	Date of Expiry	License/ Permit Holder	Remarks
Environmental Permit	EP-354/2009/D	13 March 2015	Throughout the Contract	HyD	Application for VEP on 3 March 2015 to supersede EP-354/2009/C
Construction Dust Notification	363510	19 August 2013	Throughout the Contract	DBJV	Northern Landfall
Construction Dust Notification	403620	10 June 2016	Throughout the Contract	DBJV	Southern Landfall
Chemical Waste Registration	5213-422-D2516-02	18 January 2017	Throughout the Contract	DBJV	Northern Landfall
Chemical Waste Registration	5213-951-D2591-01	25 May 2016	Throughout the Contract	DBJV	Southern Landfall
Construction Waste Disposal Account	7018108	28 August 2013	Throughout the Contract	DBJV	Waste disposal in Contract No. HY/2012/08
Construction Waste Disposal Account	7021715	4 July 2019	14 October 2019	DBJV	Vessel Disposal
Construction Waste Disposal Account	7021715	4 October 2019	14 January 2020	DBJV	Vessel Disposal
Waste Water Discharge License	WT00031435-2018	2 August 2018	31 August 2023	DBJV	Southern Landfall
Waste Water Discharge License	WT00034060-2019	25 July 2019	30 June 2024	DBJV	Northern Landfall (4 Discharge Point)
Marine Dumping Permit	EP/MD/20-013	19 May 2019	18 November 2019	DBJV	Type 1 (Open Sea Disposal)
Construction Noise Permit	GW-RW0406-18	27 April 2019	15 October 2019	DBJV	Urmston Road in front of Pillar Point
Construction Noise Permit	GW-RW0406-18	17 October 2019	15 April 2020	DBJV	Urmston Road in front of Pillar Point
Construction Noise Permit	GW-RW0374-19	20 August 2019	19 February 2020	DBJV	WA23 @ Tsing Yi
Construction Noise Permit	GW-RS0766-19	2 September 2019	25 February 2020	DBJV	Southern Landfall
Construction Noise Permit	GW-RW0179-19	27 April 2019	15 October 2019	DBJV	Urmston Road in front of Pillar Point

Notes:

HyD = Highways Department DBJV = Dragages - Bouygues Joint Venture

VEP = Variation of Environmental Permit

2.7 IMPLEMENTATION STATUS OF ENVIRONMENTAL MITIGATION MEASURES

In response to the site audit findings, the Contractors carried out all 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

Threes (3) Action Level exceedance of 1-hour TSP Monitoring were recorded in the air quality monitoring of this reporting month.

Two (2) Action Level exceedances for Depth-averaged suspended soilds were recorded in the water quality monitoring of this reporting month.

Cumulative statistics are provided in *Appendix L*.

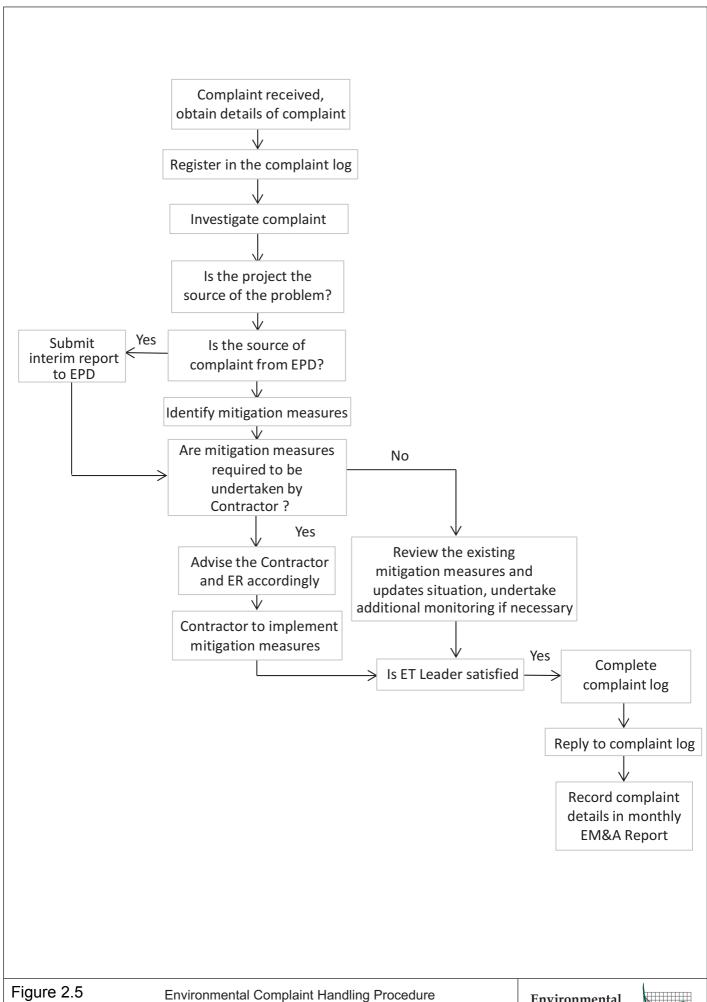
2.9 SUMMARY OF COMPLAINTS, NOTIFICATION OF SUMMONS AND SUCCESSFUL PROSECUTIONS

The Environmental Complaint Handling Procedure is provided in Figure 2.5.

No environmental complaint was received in this reporting period.

No environmental summons was received in this reporting period.

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



Environmental Resources Management



3 FUTURE KEY ISSUES

3.1 CONSTRUCTION ACTIVITIES FOR THE COMING MONTH

As informed by the Contractor, the major works for the Contract in November 2019 are summarized in *Table 3.1*.

Table 3.1 Construction Works to Be Undertaken in the Coming Month

Works to be undertaken

Land-based Works

- Construction of Thermal barrier TBM tunnel;
- Construction of Walkway Corbel & Cover TBM Tunnel;
- Road & Drainage works Portion N-A
- Gantry Crane Removal Portion N-B
- RC structure Portion S-A;
- E&M Platform Installation Portion S-A
- Backfilling Portion S-A & S-C;
- Cut & Cover Tunnel RC structure Portion S-C
- Tower Crane Removal Portion S-C

Marine-based Works

• Seawall Modification Works - Portion S-B

3.2 KEY ISSUES FOR THE COMING MONTH

Potential environmental impacts arising from the above upcoming construction activities in the next reporting month of November 2019 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 November 2019 is provided in *Appendix F*.

4 CONCLUSIONS AND RECOMMENDATIONS

4.1 CONCLUSIONS

This Seventy-second Monthly EM&A Report presents the findings of the EM&A activities undertaken during the period from 1 to 31 October 2019, in accordance with the Updated EM&A Manual and the requirements of EP-354/2009/D.

Air quality (including 1-hour TSP and 24-hour TSP), water quality monitoring and dolphin monitoring were carried out in this reporting month.

Three (3) Action Level exceedances of 1-hour TSP Monitoring were recorded in the air quality monitoring of this reporting month.

Two (2) Action Level exceedances for Depth-averaged suspended soilds were recorded in the water quality monitoring of this reporting month.

One Chinese White Dolphins sighting was recorded during the two sets of surveys in October 2019. The dolphin sighting was made in NWL, while none was sighted in NEL. The lone dolphin sighting was made during oneffort search and was made on primary lines. The dolphin groups were not associated with any operating fishing vessel.

Environmental site inspection was carried out five (5) times in October 2019. Remedial actions recommended for the deficiencies identified during the site audits were properly implemented by the Contractor.

No non-compliance event was recorded during the reporting period.

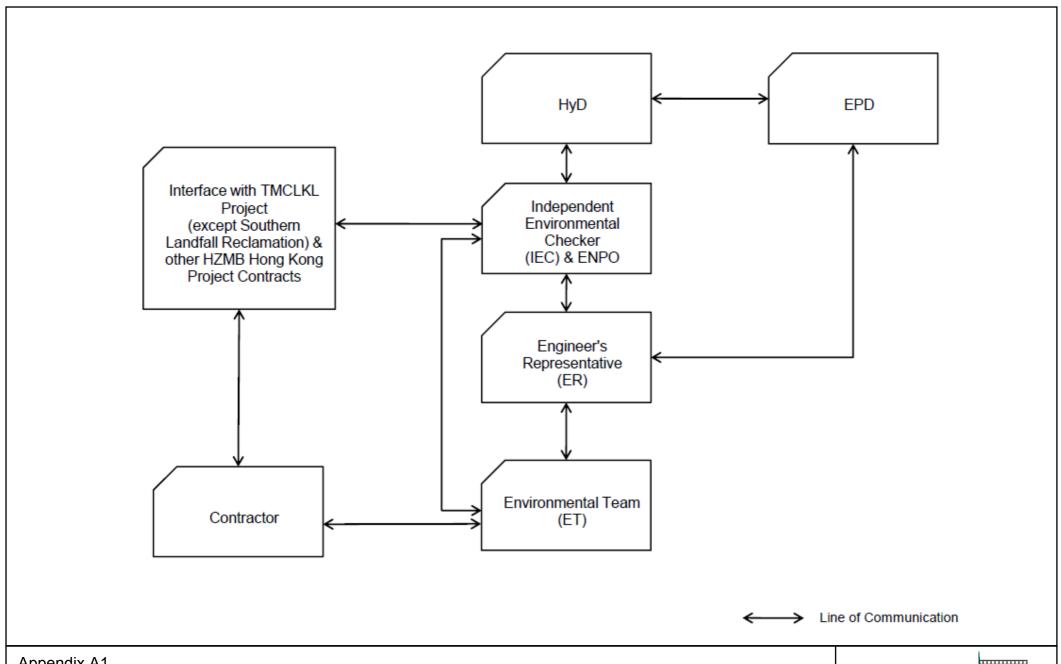
No environmental complaint was received in this reporting period.

No environmental summons was received in this reporting period.

The ET will keep track on the construction works to confirm compliance of environmental requirements and the proper implementation of all necessary mitigation measures.

Appendix A

Project Organization for Environmental Works



Appendix A1

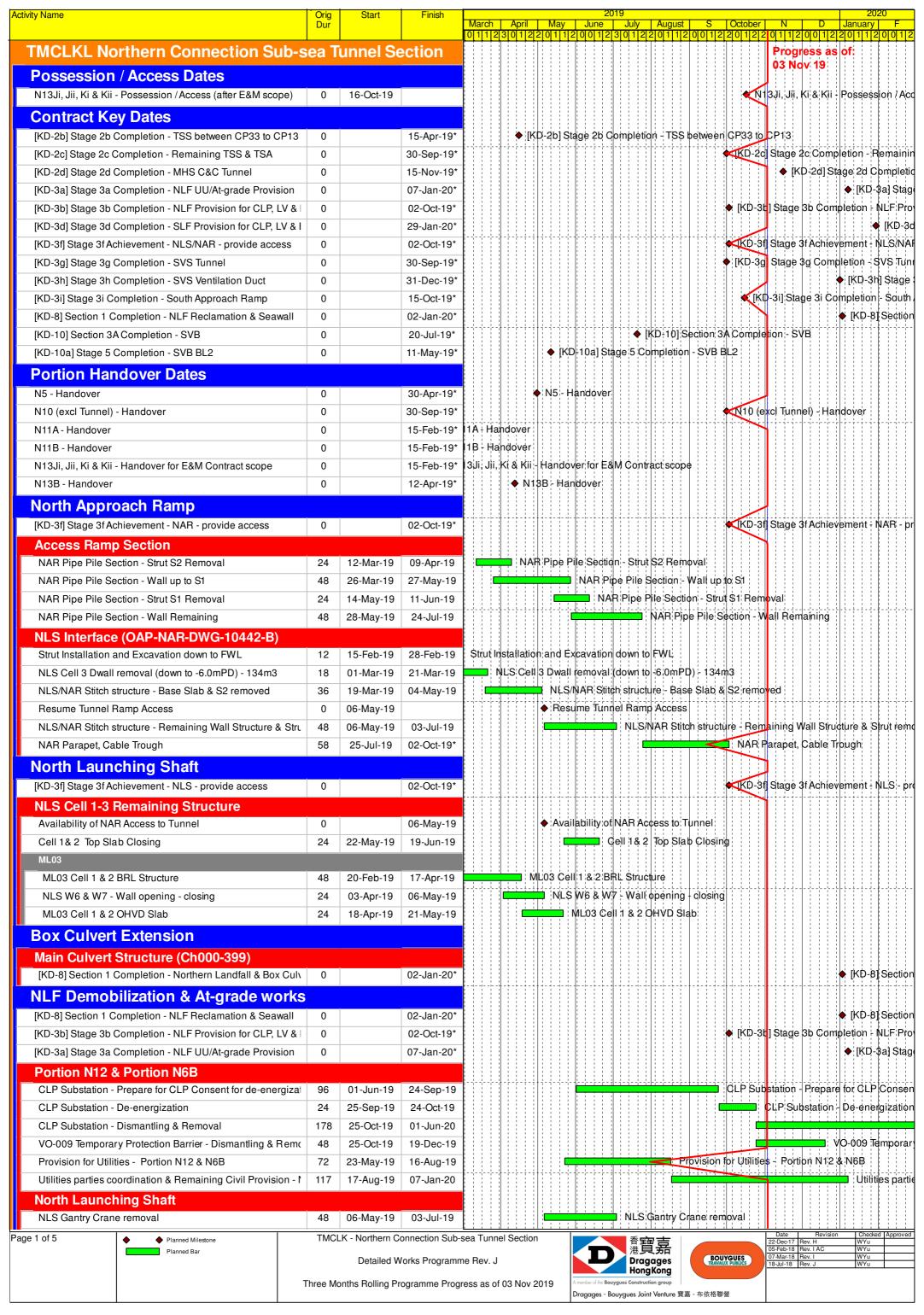
Contract No. HY/2012/08 Northern Connection Sub-sea Tunnel Section **Project Organization**

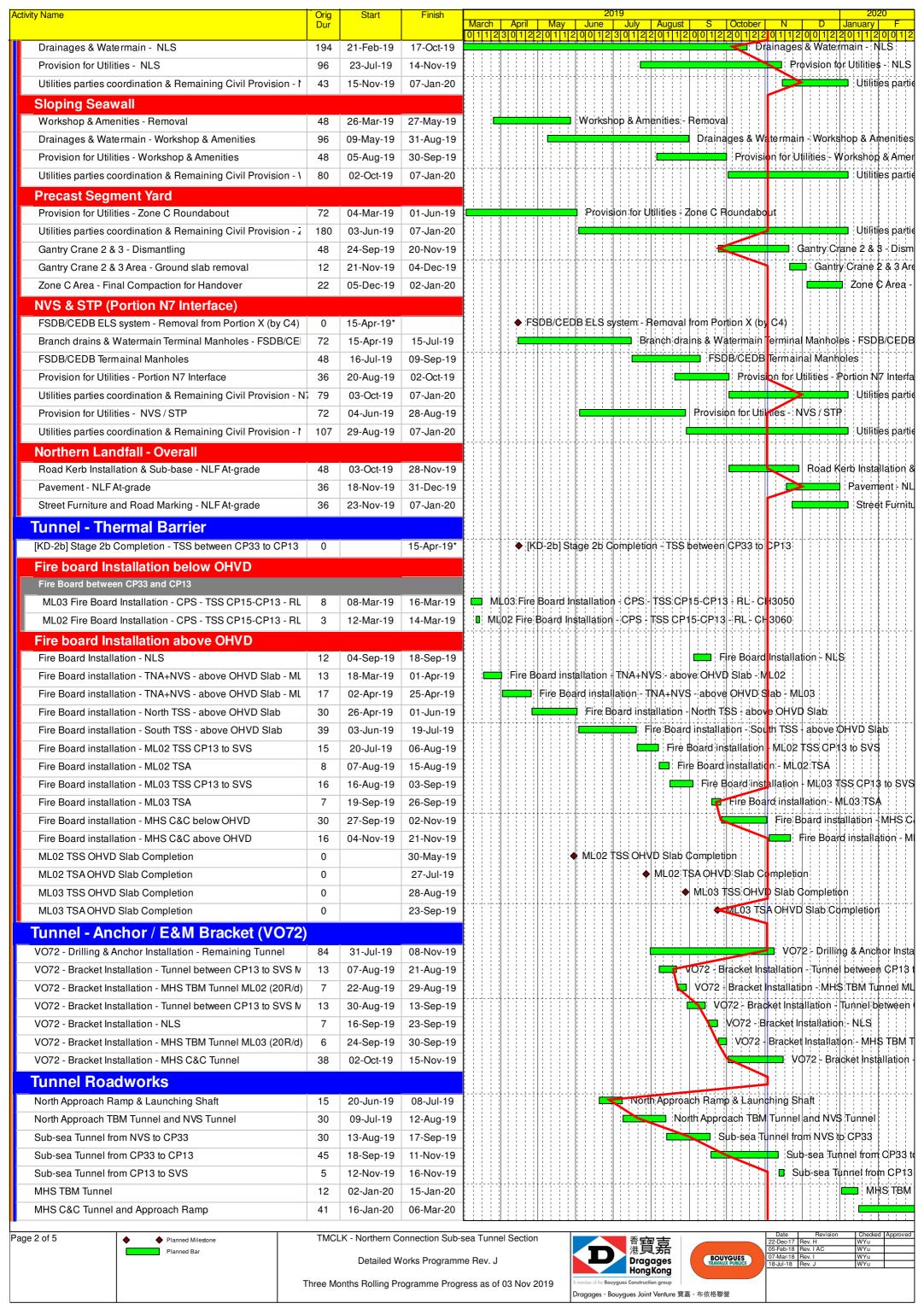
Environmental Resources Management

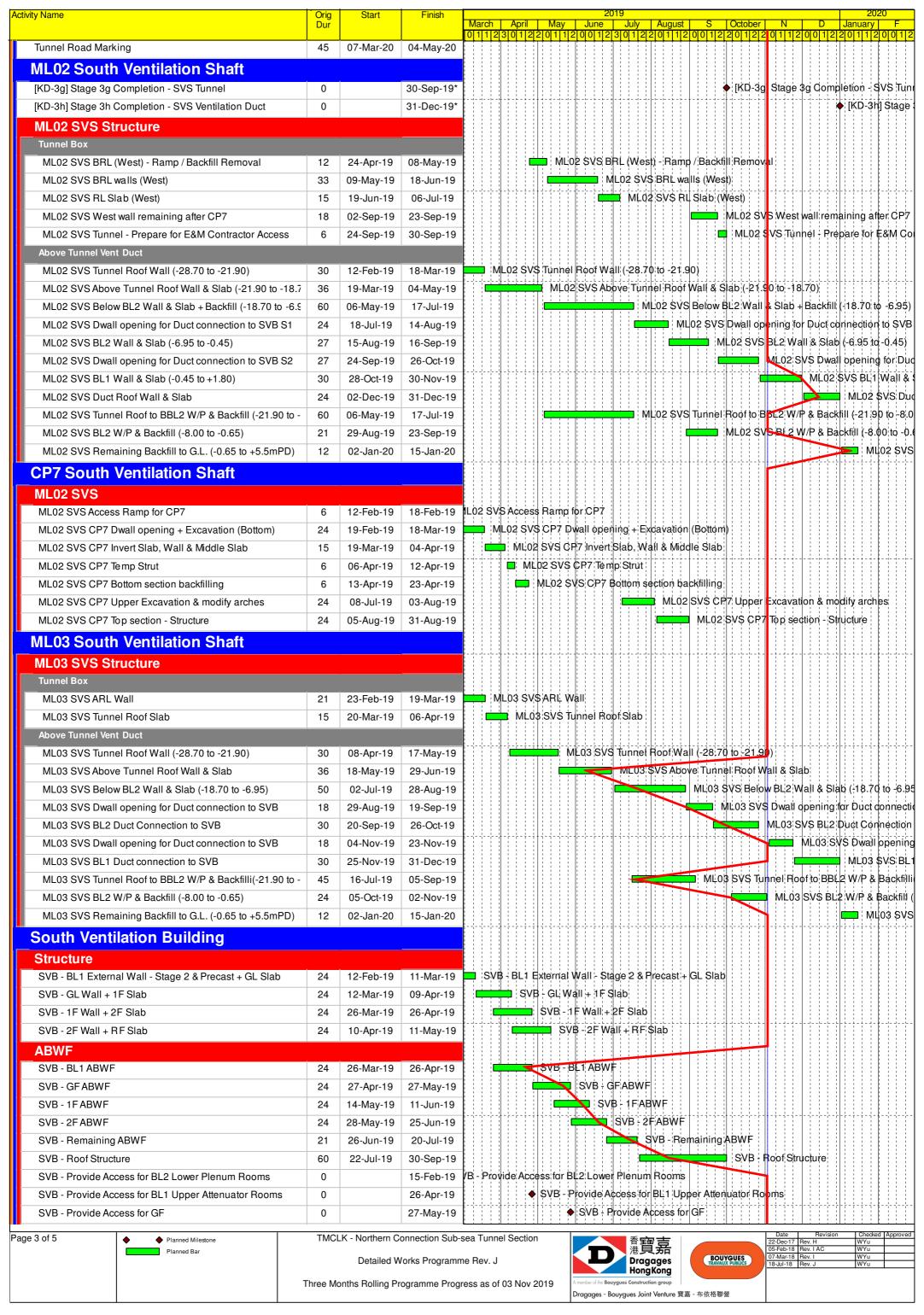


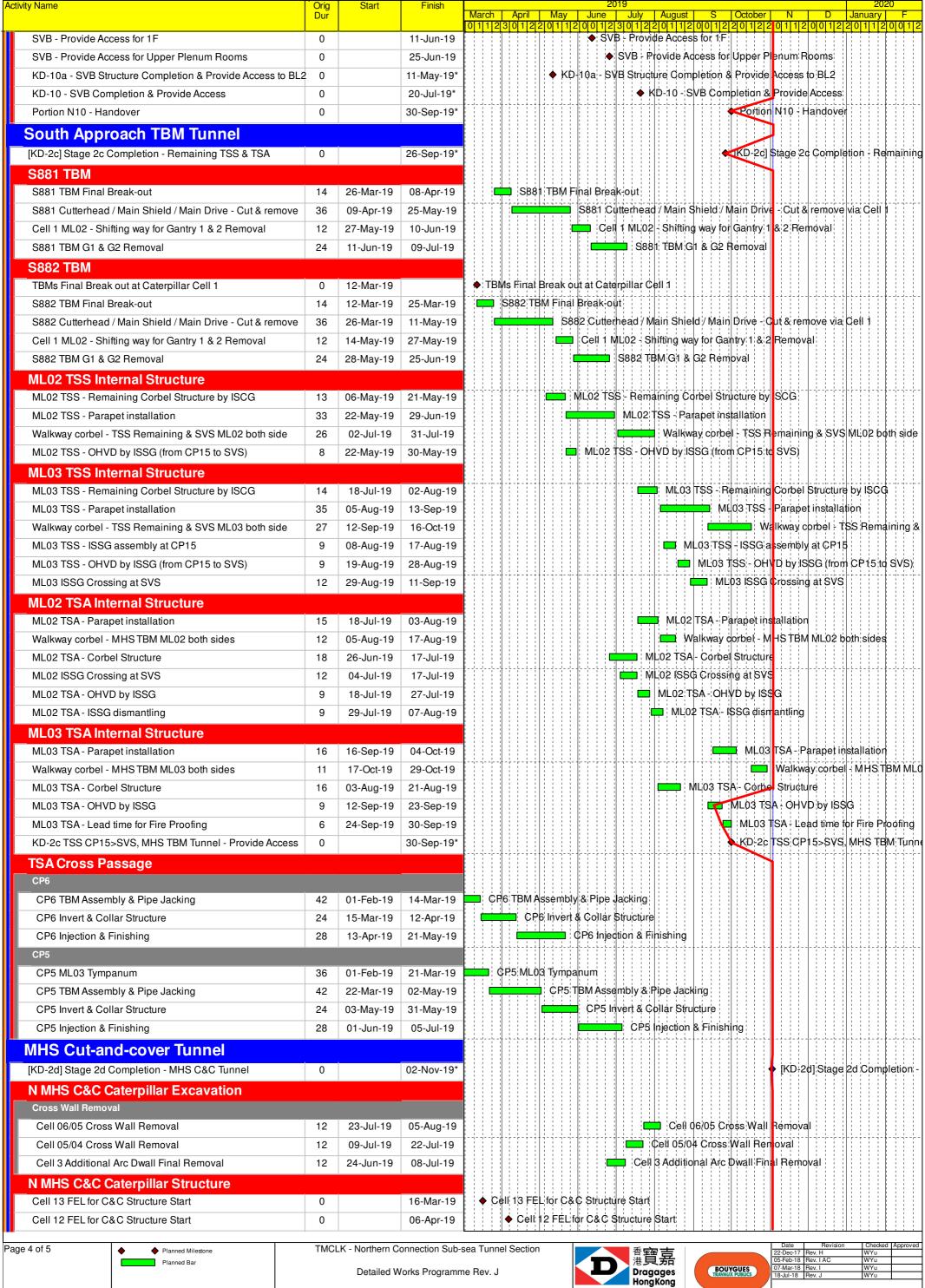
Appendix B

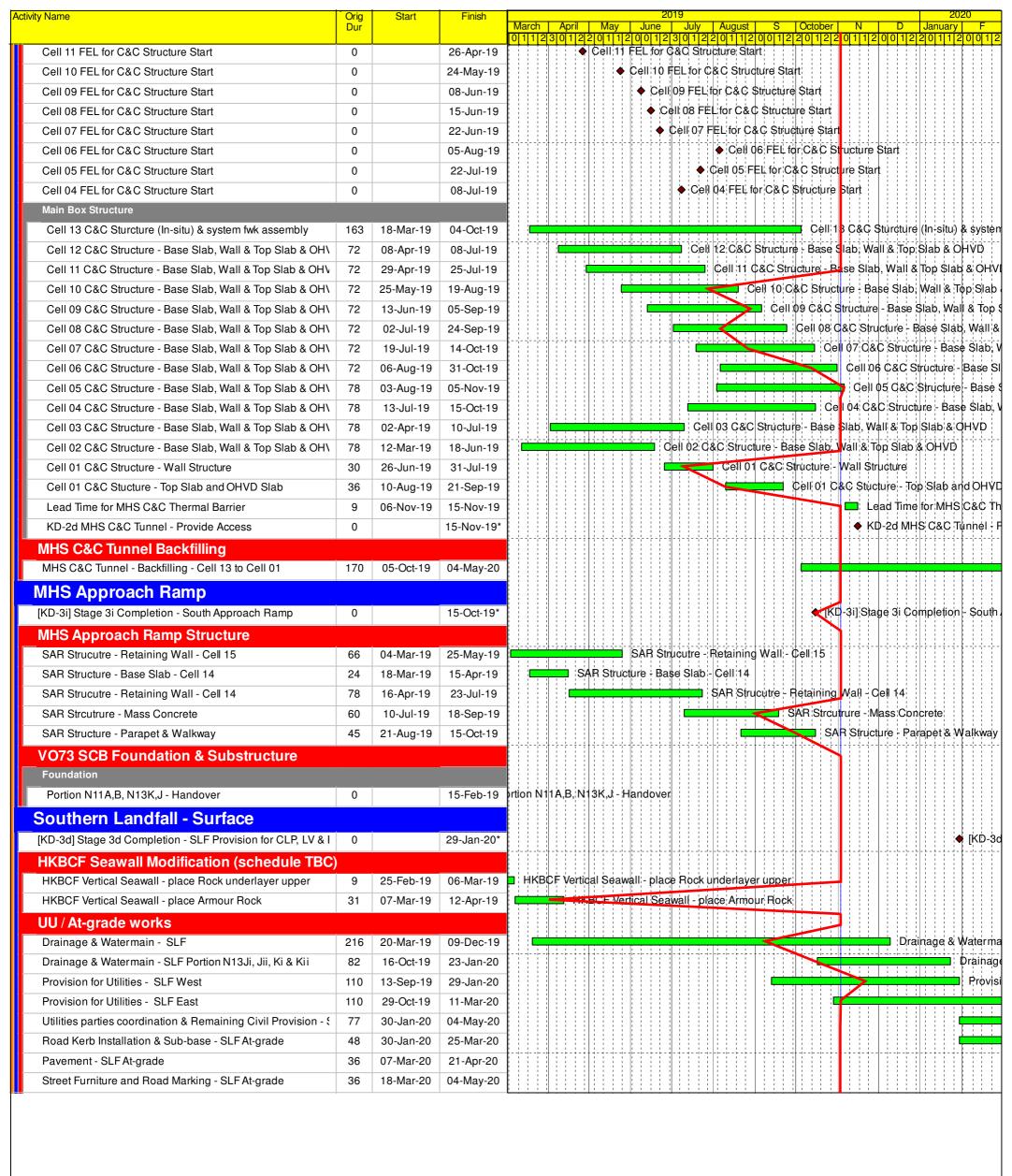
Construction Programme













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Appendix C

Environmental Mitigation and Enhancement Measure Implementation Schedules

Tuen Mun - Chek Lap Kok Link

Northern Connection Sub-sea Tunnel Section

Environmental Mitigation and Enhancement Measure Implementation Schedule

EIA Reference	EM&A Manual	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Imp	olementa Stages	tion	Status *
	Reference					D	C	0	
Air Quality 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;	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.		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.	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		7
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.	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.	. 0	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.		Contractor	TMEIA Avoid dust generation		Y		√

Legend: D=Design, C=Construction, O=Operation

Tuen Mun - Chek Lap Kok Link

Northern Connection Sub-sea Tunnel Section

Environmental Mitigation and Enhancement Measure Implementation Schedule

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Imį	olementa Stages	tion	Status *
	Kererence					D	C	О	
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.	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 any earthworks excavation activity on the site.	, 0	Contractor	TMEIA Avoid dust		Y		✓
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		~
WATER QUAL	ITY								
Marine Works (Seq									
6.1	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:	backfilling works	Contractor	TM-EIAO		Y		✓
Figure 6.2a Appendix D6a		- TM-CLKL northern reclamation;							

Legend: D=Design, C=Construction, O=Operation

Tuen Mun - Chek Lap Kok Link

Northern Connection Sub-sea Tunnel Section

Environmental Mitigation and Enhancement Measure Implementation Schedule

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Imp	olementa Stages	tion	Status *
	Keference					D	С	O	
6.1	-	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		√
6.1	-	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
6.1	-	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		√
6.1	-	Use of cage type silt curtains round allgrab dredgers during the HKBCF, HKLR and TM-CLKL southern reclamation works.	All areas dredging works	Contractor	TM-EIAO		Y		√
		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.		Contractor	TM-EIAO		Y		✓
6.1	-	Trailer suction hopper dredgers shall not allow mud to overflow.	All areas/ throughout construction period	Contractor	Marine Fill Committee Guidelines. DASO permit conditions.		Y		*
6.1	-	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		√
6.1	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:	Portion D of HKBCF and HKLR	Contractor	TM-EIAO		Y		*
Figure 6.2b Appendix D6b		- TM-CLKL northern reclamation;							

Legend: D=Design, C=Construction, O=Operation

Tuen Mun - Chek Lap Kok Link

Northern Connection Sub-sea Tunnel Section

Environmental Mitigation and Enhancement Measure Implementation Schedule

EIA Reference	EM&A Manual Reference	ıal	Location/ Timing	Implementation Agent	Relevant Standard or Requirement		tion	Status *	
	Reference					D	С	O	
		 Reclamation filling for Portion D of HKBCF; Reclamation filling for FSD berth of HKBCF; and Reclamation dredging and filling for Portion 1 of HKLR; 							
6.1	1	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
6.1	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.	grab dredging	Contractor	TM-EIAO		Y		*
6.1	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		√
6.1	-	TM-CLKL northern landfall: - Reclamation filling shall not proceed until at least 200m section of leading seawall at both the east and west sides of the reclamation are formed above +2.5 mPD, except for 100m gaps for marine access;		Contractor	TM-EIAO		Y		*
General Marine W	orks								
6.1	-	Use of TBM for the construction of the submarine tunnel.	Tunnel works / Construction phase	Contractor	TM-EIAO		Y		N/A
6.1	-	Export dredged spoils from NWWCZ.	All areas as much as possible / dredging activities	Contractor	DASO Permit conditions		Y		✓
6.1	-	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
6.1	-	Where sand fill is proposed for filling below +2.5mPD, the fine content in the sand fill will be controlled to 5%.	All areas/ backfilling works	Contractor	TM-EIAO		Y		N/A
6.1	-	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		√

Legend: D=Design, C=Construction, O=Operation

Tuen Mun - Chek Lap Kok Link

Northern Connection Sub-sea Tunnel Section

Environmental Mitigation and Enhancement Measure Implementation Schedule

EIA Reference	Manual	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Imp	olementa Stages	tion	Status *
	Reference					D	C	O	
6.1	-	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		√
6.1	-	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		*
6.1	-	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.	construction period	Contractor	Marine Fill Committee Guidelines. DASO permit conditions.		Y		√
6.1	-	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		√
6.1	-	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
6.1	-	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.	construction period	Contractor	Marine Fill Committee Guidelines. DASO permit conditions.		Y		N/A
6.1	-	The works shall not cause foam, oil, grease, litter or other objectionable matter to be present in the water within and		Contractor	Marine Fill Committee		Y		√

Legend: D=Design, C=Construction, O=Operation

Tuen Mun – Chek Lap Kok Link

Northern Connection Sub-sea Tunnel Section

Environmental Mitigation and Enhancement Measure Implementation Schedule

EIA Reference	EM&A Manual	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Imj	plementa Stages	tion	Status *
	Reference					D	C	O	
		adjacent to the works site.			Guidelines. DASO permit conditions.				
6.1	5.2	Silt curtain shall have proved effectiveness from the producer and shall be fully maintained throughout the works by the contractor.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		√
6.1	-	The daily maximum production rates shall not exceed those assumed in the water quality assessment.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		✓
6.1	-	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									
6.1	-	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		√
6.1	-	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.	construction period	Contractor	TM-EIAO		Y		~
6.1	-	Storm drainage shall be directed to storm drains via adequately designed sand/silt removal facilities such as sand traps, silt traps and sediment basins. Channels, earth bunds or sand bag barriers should be provided on site to properly direct stormwater to such silt removal facilities. Catchpits and perimeter channels should be constructed in advance of site formation works and earthworks.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		*
6.1	-	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.		Contractor	TM-EIAO		Y		√
6.1	-	Temporary access roads should be surfaced with crushed stone or gravel.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		√

Legend: D=Design, C=Construction, O=Operation

Tuen Mun - Chek Lap Kok Link

Northern Connection Sub-sea Tunnel Section

Environmental Mitigation and Enhancement Measure Implementation Schedule

EIA Reference	EM&A Manual	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	•	ementa Stages	tion	Status *
	Reference					D	С	0	
6.1	-	Rainwater pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities.	_	Contractor	TM-EIAO		Y		√
6.1	-	Measures should be taken to prevent the washout of construction materials, soil, silt or debris into any drainage system.	All areas/ throughout construction period	Contractor	TM-EIAO		Y		√
6.1	-	Open stockpiles of construction materials (e.g. aggregates and sand) on site should be covered with tarpaulin or similar fabric during rainstorms.		Contractor	TM-EIAO		Y		√
6.1	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.	construction period	Contractor	TM-EIAO		Y		*
6.1	-	Discharges of surface run-off into foul sewers must always be prevented in order not to unduly overload the foul sewerage system.		Contractor	TM-EIAO		Y		√
6.1	-	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.	construction period	Contractor	TM-EIAO		Y		*
6.1	-	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		✓
6.1	-	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		√
6.1	-	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		✓

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Tuen Mun - Chek Lap Kok Link

Northern Connection Sub-sea Tunnel Section

Environmental Mitigation and Enhancement Measure Implementation Schedule

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Imj	plementa Stages	tion	Status *
	Kererence					D	С	O	
6.1	-	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.	construction period	Contractor	TM-EIAO		Y		N/A
6.1	-	The Contractor shall prepare an oil / chemical cleanup plan and ensure that leakages or spillages are contained and cleaned up immediately.		Contractor	TM-EIAO		Y		*
6.1	-	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		*
6.1	-	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.	construction period	Contractor	TM-EIAO		Y		✓
6.1	-	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		√
6.1	-	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	✓
6.1	Section 5	All construction works shall be subject to routine audit to ensure implementation of all EIA recommendations and good working practice.	All areas/ throughout construction period	Contractor	EM&A Manual		Y		*
Water Quality Mor	iitoring								
6.1	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.	as defined in EM&A Manual, Section 5/ Before, through-out	Contractor	EM&A Manual		Y	Y	~

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Tuen Mun - Chek Lap Kok Link

Northern Connection Sub-sea Tunnel Section

Environmental Mitigation and Enhancement Measure Implementation Schedule

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Im	olementa Stages	tion	Status *
	Kererence					D	C	О	
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 3,600m2 in an area where fishing activities are prohibited.	Area of prohibited fishing activities/Detailed Design/towards end of construction period	TM-CLKL/ HKBCF Design Consultant/TM- CLKL/ HKBCF Contractor	TMEIA	Y		Y	N/A. To be implemente d by AFCD.
8.14	6.3, 6.5	Specification and implementation of marine vessel control specifications	All areas/Detailed Design/during construction works	Design Consultant/ Contractor	TMEIA	Y	Y		√
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		✓
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		N/A
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		√

Legend: D=Design, C=Construction, O=Operation

Tuen Mun – Chek Lap Kok Link

Northern Connection Sub-sea Tunnel Section

Environmental Mitigation and Enhancement Measure Implementation Schedule

EIA Reference	EM&A Manual	nual	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Imp	plementa Stages	tion	Status *
	Reference					D	C	О	
7.13	6.5	Construction activities should be restricted to the proposed works boundary.	All areas / Throughout construction period	Contractor	TMEIA		Y		✓
LANDSCAPE A	AND VISUAI								
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
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		√
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	N/A
WASTE 12.6		The Contractor shall identify a coordinator for the management of waste.	Contract mobilisation	Contractor	TMEIA		Y		√

Legend: D=Design, C=Construction, O=Operation

Tuen Mun - Chek Lap Kok Link

Northern Connection Sub-sea Tunnel Section

Environmental Mitigation and Enhancement Measure Implementation Schedule

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Imp	olementa Stages	tion	Status *
	Reference					D	C	О	
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.		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 including waste reduction, reuse and recycling.		Contractor	TMEIA		Y		√
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.		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		√
12.6	8.1	The site and surroundings shall be kept tidy and litter free.	All areas / throughout construction period	Contractor	TMEIA		Y		<>

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Tuen Mun - Chek Lap Kok Link

Northern Connection Sub-sea Tunnel Section

Environmental Mitigation and Enhancement Measure Implementation Schedule

EIA Reference	EM&A Manual	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Imp	olementa Stages	tion	Status *
	Reference				Ī	D	С	О	
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.		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		√
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.		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.		Contractor	TMEIA		Y		~

Legend: D=Design, C=Construction, O=Operation

Tuen Mun - Chek Lap Kok Link

Northern Connection Sub-sea Tunnel Section

Environmental Mitigation and Enhancement Measure Implementation Schedule

EIA Reference	Manual		Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Stages			Status *
	Reference					D	С	О		
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 be considered for segregation and storage activities.	construction period	Contractor	TMEIA		Y		*	
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: f suitable for the substance to be held, resistant to corrosion, maintained in good conditions and securely closed; f Having a capacity of <450L unless the specifications have been approved by the EPD; and w Chinese according to the instructions prescribed in Schedule 2 of the Regulations. f Clearly labelled and used solely for the storage of chemical wastes; f Enclosed with at least 3 sides; f Impermeable floor and bund with capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in the area, whichever is greatest; f Adequate ventilation; f Sufficiently covered to prevent rainfall	construction period	Contractor	TMEIA		Y		\(\)	

Legend: D=Design, C=Construction, O=Operation

Tuen Mun - Chek Lap Kok Link

Northern Connection Sub-sea Tunnel Section

Environmental Mitigation and Enhancement Measure Implementation Schedule

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages		Status *	
	Kererence					D	C	O	
		entering (water collected within the bund must be tested and disposed of as chemical waste, if necessary); and <i>f</i> 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.		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 of Nuisances Bylaws. 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.	construction period	Contractor	TMEIA		Y		<>
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.		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.	construction period	Contractor	TMEIA		Y		√

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Tuen Mun - Chek Lap Kok Link

Northern Connection Sub-sea Tunnel Section

Environmental Mitigation and Enhancement Measure Implementation Schedule

EIA Reference	Manual	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Imp	Implementation Stages		Status *
	Reference					D	C	О	
12.6		EM&A of waste handling, storage, transportation, disposal procedures and documentation through the site audit programme shall be undertaken.		Contractor	EM&A Manual		Y		√
CULTURAL HI	ERITAGE								
11.8	Section 9	EM&A in the form of audit of the mitigation measures	All areas / throughout construction period	Highways Department	EIAO-TM		Y		N/A

* Remarks:

✓ Compliance of Mitigation Measures

Compliance of Mitigation but need improvement

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

Legend: D=Design, C=Construction, O=Operation

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	260
	ASR5 = 238	
	AQMS1 = 213	
	ASR6 = 238	
	ASR10 = 214	
1 Hour TSP Level in μg /m³	ASR1 = 331	500
Ü	ASR5 = 340	
	AQMS1 = 335	
	ASR6 = 338	
	ASR10 = 337	

Table D2 Action and Limit Levels for Water Quality

Parameter	Action Level#	Limit Level#
DO in mg/L (a)	Surface and Middle	Surface and Middle
	5.0 mg/L	4.2 mg/L
	<u>Bottom</u>	<u>Bottom</u>
	4.7 mg/L	3.6 mg/L
Turbidity in NTU (Depthaveraged (b), (c))	120% of upstream control station at the same tide of the same day and 95%-ile of baseline data, i.e.,	130% of upstream control station at the same tide of the same day and 99%-ile of baseline data, i.e.,
	27.5 NTU	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.
- (f) The AL/LL for WQM stations, IS(Mf)11, IS17 and SR7, are adopted from HZMB HKBCF project.

Table D3 Action and Limit Levels for Impact Dolphin Monitoring

	North Lant	au Social Cluster
	NEL	NWL
Action Level	STG < 70% of baseline &	STG < 70% of baseline &
	ANI < 70% of baseline	ANI < 70% of baseline
Limit Level	[STG < 40% of baseling	ne & ANI < 40% of baseline]
		and
	STG < 40% of baselir	ne & ANI < 40% of baseline

Notes:

- 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	ı Social Cluster			
	NEL	NWL			
Action Level	STG < 4.2 & ANI< 15.5	STG < 6.9 & ANI < 31.3			
Limit Level	NEL = [STG <	2.4 & ANI <8.9]			
	a	ind			
	NWL = [STG < 3.9 & ANI < 17.9]				

Appendix E

Copies of
Calibration
Certificates for Air
and Water Quality
Monitoring

Location : ASR 5
Calibrated by : P.F.Yeung
Date : 08/08/2019

Sampler

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

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454

Service Date : 25 February 2019

 Slope (m)
 : 2.07076

 Intercept (b)
 : -0.02917

 Correlation Coefficient(r)
 : 1.00000

Standard Condition

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

Calibration Condition

Pa (hpa) : 1004 Ta(K) : 303

Resi	stance Plate	dH [green liquid]	Z	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	12.2	3.448	1.679	56	55.29
2	13 holes	9.4	3.027	1.476	51	50.35
3	10 holes	7.2	2.649	1.293	46	45.42
4	7 holes	4.6	2.118	1.037	38	37.52
5	5 holes	2.5	1.561	0.768	30	29.62

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

Sampler Calibration Relationship (Linear Regression)

Location : ASR10
Calibrated by : P.F.Yeung
Date : 08/08/2019

Sampler

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

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454

Service Date : 25 February 2019

 Slope (m)
 : 2.07076

 Intercept (b)
 : -0.02917

 Correlation Coefficient(r)
 : 1.00000

Standard Condition

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

Calibration Condition

Pa (hpa) : 1004 Ta(K) : 303

Resi	stance Plate	dH [green liquid]	Z	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	11.4	3.334	1.624	54	53.31
2	13 holes	9.2	2.995	1.460	50	49.37
3	10 holes	6.5	2.517	1.230	45	44.43
4	7 holes	4.4	2.071	1.014	37	36.53
5	5 holes	2.5	1.561	0.768	30	29.62

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

Sampler Calibration Relationship (Linear Regression)

Location : AQMS1
Calibrated by : P.F.Yeung
Date : 08/08/2019

Sampler

 Model
 :
 TE-5170

 Serial Number
 :
 S/N 1253

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454

Service Date : 25 February 2019

 Slope (m)
 : 2.07076

 Intercept (b)
 : -0.02917

 Correlation Coefficient(r)
 : 1.00000

Standard Condition

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

Calibration Condition

Pa (hpa) : 1004 Ta(K) : 303

Resi	stance Plate	dH [green liquid]	Z	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	12.0	3.420	1.666	56	55.29
2	13 holes	9.4	3.027	1.476	50	49.37
3	10 holes	6.5	2.517	1.230	45	44.43
4	7 holes	4.4	2.071	1.014	38	37.52
5	5 holes	2.6	1.592	0.783	30	29.62

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

Sampler Calibration Relationship (Linear Regression)

Location : ASR 1
Calibrated by : P.F.Yeung
Date : 08/08/2019

Sampler

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

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454

Service Date : 25 February 2019

 Slope (m)
 : 2.07076

 Intercept (b)
 : -0.02917

 Correlation Coefficient(r)
 : 1.00000

Standard Condition

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

Calibration Condition

Pa (hpa) : 1004 Ta(K) : 303

Resi	stance Plate	dH [green liquid]	Z	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	11.6	3.363	1.638	52	51.34
2	13 holes	9.0	2.962	1.444	48	47.39
3	10 holes	6.6	2.536	1.239	41	40.48
4	7 holes	4.4	2.071	1.014	35	34.56
5	5 holes	2.6	1.592	0.783	27	26.66

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

Sampler Calibration Relationship (Linear Regression)

Slope(m):<u>29.118</u> Intercept(b):<u>4.454</u> Correlation Coefficient(r): <u>0.9973</u>

High-Volume TSP Sampler 5-Point Calibration Record

Location : ASR 6
Calibrated by : P.F.Yeung
Date : 08/08/2019

Sampler

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

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454

Service Date : 25 February 2019

 Slope (m)
 : 2.07076

 Intercept (b)
 : -0.02917

 Correlation Coefficient(r)
 : 1.00000

Standard Condition

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

Calibration Condition

Pa (hpa) : 1004 Ta(K) : 303

Resi	stance Plate	dH [green liquid]	Z	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	12.0	3.420	1.666	55	54.30
2	13 holes	9.2	2.995	1.460	50	49.37
3	10 holes	7.0	2.612	1.276	45	44.43
4	7 holes	4.6	2.118	1.037	38	37.52
5	5 holes	2.8	1.652	0.812	30	29.62

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

Sampler Calibration Relationship (Linear Regression)

Slope(m): <u>28.794</u> Intercept(b): <u>7.053</u> Correlation Coefficient(r): <u>0.9973</u>

Location : ASR 5
Calibrated by : P.F.Yeung
Date : 08/10/2019

Sampler

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

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454

Service Date : 25 February 2019

 Slope (m)
 : 2.07076

 Intercept (b)
 : -0.02917

 Correlation Coefficient(r)
 : 1.00000

Standard Condition

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

Calibration Condition

Pa (hpa) : 1016 Ta(K) : 302

Resistance Plate		dH [green liquid]	Z	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	12.2	3.475	1.692	55	54.72
2	13 holes	9.4	3.050	1.487	50	49.74
3	10 holes	7.0	2.632	1.285	45	44.77
4	7 holes	4.8	2.180	1.067	38	37.80
5	5 holes	2.4	1.541	0.758	30	29.84

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)

Location : ASR10
Calibrated by : P.F.Yeung
Date : 08/10/2019

Sampler

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

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454

Service Date : 25 February 2019

 Slope (m)
 : 2.07076

 Intercept (b)
 : -0.02917

 Correlation Coefficient(r)
 : 1.00000

Standard Condition

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

Calibration Condition

Pa (hpa) : 1016 Ta(K) : 302

Resistance Plate		dH [green liquid]	Z	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	11.2	3.329	1.622	52	51.73
2	13 holes	9.0	2.984	1.455	48	47.75
3	10 holes	6.4	2.517	1.229	43	42.78
4	7 holes	4.4	2.087	1.022	36	35.81
5	5 holes	2.4	1.541	0.758	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)

Location : AQMS1
Calibrated by : P.F.Yeung
Date : 08/10/2019

Sampler

 Model
 :
 TE-5170

 Serial Number
 :
 S/N 1253

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454

Service Date : 25 February 2019

 Slope (m)
 : 2.07076

 Intercept (b)
 : -0.02917

 Correlation Coefficient(r)
 : 1.00000

Standard Condition

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

Calibration Condition

Pa (hpa) : 1016 Ta(K) : 302

Resistance Plate		dH [green liquid]	Z	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	12.0	3.446	1.678	54	53.72
2	13 holes	9.2	3.017	1.471	50	49.74
3	10 holes	6.6	2.556	1.248	44	43.77
4	7 holes	4.5	2.110	1.033	38	37.80
5	5 holes	2.8	1.665	0.819	30	29.84

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

Sampler Calibration Relationship (Linear Regression)

Slope(m):27.662 Intercept(b):8.404 Correlation Coefficient(r): 0.9939

Location : ASR 1
Calibrated by : P.F.Yeung
Date : 08/10/2019

Sampler

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

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454

Service Date : 25 February 2019

 Slope (m)
 : 2.07076

 Intercept (b)
 : -0.02917

 Correlation Coefficient(r)
 : 1.00000

Standard Condition

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

Calibration Condition

Pa (hpa) : 1016 Ta(K) : 302

Resistance Plate		dH [green liquid]	Z	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	11.4	3.359	1.636	54	53.72
2	13 holes	9.0	2.984	1.455	49	48.75
3	10 holes	6.5	2.536	1.239	44	43.77
4	7 holes	4.2	2.039	0.999	36	35.81
5	5 holes	2.5	1.573	0.774	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):<u>29.723</u> Intercept(b):<u>5.704</u> Correlation Coefficient(r): <u>0.9966</u>

High-Volume TSP Sampler 5-Point Calibration Record

Location : ASR 6
Calibrated by : P.F.Yeung
Date : 08/10/2019

Sampler

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

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454

Service Date : 25 February 2019

 Slope (m)
 : 2.07076

 Intercept (b)
 : -0.02917

 Correlation Coefficient(r)
 : 1.00000

Standard Condition

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

Calibration Condition

Pa (hpa) : 1016 Ta(K) : 302

Resi	stance Plate	dH [green liquid]	Z	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	12.2	3.475	1.692	56	55.71
2	13 holes	9.4	3.050	1.487	50	49.74
3	10 holes	6.8	2.594	1.267	45	44.77
4	7 holes	4.6	2.134	1.044	38	37.80
5	5 holes	2.8	1.665	0.818	30	29.84

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

Sampler Calibration Relationship (Linear Regression)

Checked by: Magnum Fan Date: 13/10/2019



RECALIBRATION
DUE DATE:

February 25, 2020

Certificate of Calibration

Calibration Certification Information

Cal. Date: February 25, 2019

Rootsmeter S/N: 438320

Ta: 294

°K

Operator: Jim Tisch

Pa: 762.0

mm Hg

Calibration Model #: TE-5025A

Calibrator S/N: 2454

Run	Vol. Init (m3)	Vol. Final (m3)	ΔVol. (m3)	ΔTime (min)	ΔP (mm Hg)	ΔH (in H2O)
1	1	2	1	1.4400	3.2	2.00
2	3	4	1	1.0200	6.4	4.00
3	5	6	1	0.9120	7.9	5.00
4	7	8	1	0.8700	8.8	5.50
5	9	10	1	0.7180	12.8	8.00

		Data Tabula	tion		
Vstd (m3)	Qstd (x-axis)	$\sqrt{\Delta H\left(\frac{Pa}{Pstd}\right)\left(\frac{Tstd}{Ta}\right)}$ (y-axis)	Va	Qa (x-axis)	$\sqrt{\Delta H \Big(Ta/Pa \Big)}$ (y-axis)
1.0120	0.7028	1.4257	0.9958	0.6915	0.8784
1.0077	0.9880	2.0162	0.9916	0.9722	1.2423
1.0057	1.1028	2.2542	0.9896	1.0851	1.3889
1.0045	1.1546	2.3642	0.9885	1.1362	1.4567
0.9992	1.3916	2.8513	0.9832	1.3694	1.7569
	m=	2.07076		m=	1.29667
QSTD	b= -0.02917		QA	b=	-0.01797
	r=	1.00000		r=	1.00000

	Calculation		
Vstd=	ΔVol((Pa-ΔP)/Pstd)(Tstd/Ta)	Va= ΔVol((Pa-ΔP)/P	a)
Qstd= Vstd/ΔTime		Qa= Va/ΔTime	
	For subsequent flow rat	calculations:	
Qstd=	$1/m\left(\left(\sqrt{\Delta H\left(\frac{Pa}{Pstd}\right)\left(\frac{Tstd}{Ta}\right)}\right)-b\right)$	Qa= 1/m((√ΔH(Ta	n/Pa))-b)

	Standard Conditions
Tstd:	298.15 °K
Pstd:	760 mm Hg
	Key
ΔH: calibrator	manometer reading (in H2O)
ΔP: rootsmete	er manometer reading (mm Hg)
Ta: actual abs	olute temperature (°K)
Pa: actual bar	ometric pressure (mm Hg)
b: intercept	
m: clone	

RECALIBRATION

US EPA recommends annual recalibration per 1998
40 Code of Federal Regulations Part 50 to 51,
Appendix B to Part 50, Reference Method for the
Determination of Suspended Particulate Matter in
the Atmosphere, 9.2.17, page 30

Tisch Environmental, Inc. 145 South Miami Avenue Village of Cleves, OH 45002 www.tisch-env.com

TOLL FREE: (877)263-7610 FAX: (513)467-9009



輝創工程有限公司

Sun Creation Engineering Limited Calibration & Testing Laboratory

Certificate of Calibration

Certificate No.: C184960

證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號: IC18-1761)

Date of Receipt / 收件日期: 23 August 2018

Description / 儀器名稱 :

Anemometer

Manufacturer / 製造商

Lutron

Model No. / 型號

AM-4201

Serial No./編號

AF.27513

Supplied By / 委託者

Envirotech Services Co.

Room 113, 1/F, My Loft, 9 Hoi Wing Road, Tuen Mun,

New Territories, Hong Kong

TEST CONDITIONS/測試條件

Temperature / 溫度 :

Line Voltage / 電壓 :

Relative Humidity / 相對濕度 :

 $(50 \pm 25)\%$

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期

5 September 2018

TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only.

The results are detailed in the subsequent page(s).

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

- Testo Industrial Services GmbH, Germany

Tested By

測試

T L Shek

Certified By

核證

Assistant Engineer

Engineer

Date of Issue

6 September 2018

簽發日期

Website/網址: www.suncreation.com

The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory 本證書所載校正用之測試器材均可溯源至國際標準。局部複印本證書需先獲本實驗所書面批准。



輝創工程有限公司

Sun Creation Engineering Limited Calibration & Testing Laboratory

Certificate of Calibration

校正證書

Certificate No.: C184960

證書編號

The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours before the commencement of the test.

2. The results presented are the mean of 10 measurements at each calibration point.

3. Test equipment:

CL386

Equipment ID

Description

Multi-function Measuring Instrument

Certificate No.

S16493

4. Test procedure: MA130N.

5. Results:

Air Velocity

Applied	UUT	He He		
Value	Reading	Value Measurement Uncertainty		
(m/s)	(m/s)	(m/s)	Expanded Uncertainty (m/s)	Coverage Factor
2.0	1.7	+0.3	0.2	2.0
4.0	3.8	+0.2	0.3	2.0
6.0	5.8	+0.2	0.3	2.0
8.0	7.9	+0.1	0.3	2.0
10.0	10.0	0.0	0.4	2.0

Remarks: - The Measured Corrections are defined as: Value = Applied Value - UUT Reading

- The expanded uncertainties are for a level of confidence of 95 %.

Note:

Only the original copy or the laboratory's certified true copy is valid.

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

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

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

ENVIROTECH SERVICES CO.

Calibration Report of Wind Meter

Date of Calibration :	15 August 2019	
Brand of Test Meter:	Davis	
Model:	Vantage Pro 2 (s/n: AS160104014)	
Location:	Roof of Tuen Mun Firestation	
Procedures:		
1. Wind Still Test:	The wind speed sensor was hold by hand un	til it keep still
2.Wind Speed Test:	The wind meter was on-site calibrated again	ast the Anemometer
3.Wind Direction Test:	The wind meter was on-site calibrated again	ast the marine compass at four directions
Results:		
Wind Still Test		
	Wind Speed (m/s)	
	0.00	
Wind Speed Test		

Davis (m/s)	Anemometer (m/s)
3.3	3.7
2.8	2.4
1.1	1.2

Wind Direction Test

Davis (o)	Marine Compass (o)
270	270
0	0
89	90
181	180

Calibrated by: Checked by : Fact

Yeung Ping Fai

(Technical Officer) Checked by : Fact

Ho Kam Fat

(Senior Technical Officer)



REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No.

AI070143

Date of Issue

25 July, 2019

Page No.

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PART A - CUSTOMER INFORMATION

Enovative Environmental Service Ltd.

Flat 2207, Yu Fun House, Yu Chui Court, Shatin New Territories, Hong Kong Attn: Mr. Thomas WONG

PART B - DESCRIPTION

Name of Equipment

: YSI 6920V2 (Multi-Parameters)

Manufacturer

YSI (a xylem brand)

Serial Number

0001C6A7

Date of Received

Jul 24, 2019

Date of Calibration

Jul 24, 2019

Date of Next Calibration(a)

Oct 24, 2019

PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

Parameter
pH at 25°CReference MethodDissolved OxygenAPHA 21e 4500-H BConductivity at 25°CAPHA 21e 2510 BSalinityAPHA 21e 2520 B

Turbidity APHA 21e 2130 B

Temperature Section 6 of international Accreditation New Zealand Technical

Guide no. 3 Second edition March 2008: Working Thermometer Calibration Procedure.

PART D - CALIBRATION RESULTS(b,c)

(1) pH at 25°C

Target (pH unit)	Displayed Reading(d) (pH Unit)	Tolerance ^(e) (pH Unit)	Results
4.00	4.08	0.08	Satisfactory
7.42	7.38	-0.04	Satisfactory
10.01	10.05	0.04	Satisfactory

Tolerance of pH should be less than ±0.20 (pH unit)

(2) Temperature

Reading of Ref. thermometer (°C)	Displayed Reading (°C)	Tolerance (°C)	Results
23.0	23.32	0.32	Satisfactory
28.0	27.65	-0.35	Satisfactory
48.0	49.6	1.6	Satisfactory

Tolerance limit of temperature should be less than ±2.0 (°C)

~ CONTINUED ON NEXT PAGE ~

Remark(s): -

(6) The "Date of Next Calibration" is recommended according to best practice principals as practiced by QPT or quoted form relevant international standards.

(b) The results relate only to the calibrated equipment as received

(c) The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.

"Displayed Reading" denotes the figure shown on item under calibration/checking regardless of equipment precision or significant figures.

(e) The "Tolerance Limit" mentioned is referenced to YSI product specifications.

LEE Chun-ning, Desmond Senior Chemist



專業化驗有限公司 OUALITY PRO TEST-CONSULT LIMITED

Unit 10, 14/F, Wah Wai Centre, 38-40 Au Pui Wan St., Fotan, Hong Kong Email: info@qualityprotest.com; Website: www.qualityprotest.com Tel: (852) 3956 8717; Fax: (852) 3956 3928

REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

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PART D - CALIBRATION RESULTS (Cont'd)

(3) Dissolved Oxygen

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)	Results
0.02	0.48	0.46	Satisfactory
3.66	3.50	-0.16	Satisfactory
5.70	5.78	0.08	Satisfactory
7.64	7.49	-0.15	Satisfactory

Tolerance limit of dissolved oxygen should be less than ± 0.50 (mg/L)

(4) Conductivity at 25°C

Conc. of KCl (M)	Expected Reading (µS/cm)	Displayed Reading (μS/cm)	Tolerance (%)	Results
0.001	146.9	140.2	-4.56	Satisfactory
0.01	1412	1386	-1.84	Satisfactory
0.1	12890	12742	-1.15	Satisfactory
0.5	58670	56780	-3.22	Satisfactory
1.0	111900	107432	-3.99	Satisfactory

Tolerance limit of conductivity should be less than ± 10.0 (%)

(5) Salinity

Expected Reading (g/L)	Displayed Reading (g/L)	Tolerance (%)	Results
10	9.95	-0.50	Satisfactory
20	19.95	-0.25	Satisfactory
30	30.04	0.13	Satisfactory

Tolerance limit of salinity should be less than ± 10.0 (%)

(6) Turbidity

Expected Reading (NTU)	Displayed Reading ^(f) (NTU)	Tolerance ^(g) (%)	Results
0	0.1		Satisfactory
10	9.8	-2.0	Satisfactory
20	19.4	-3.0	Satisfactory
100	97.2	-2.8	Satisfactory
800	776.3	-3.0	Satisfactory

Tolerance limit of turbidity should be less than ± 10.0 (%)

~ END OF REPORT ~

Remark(s): -

[&]quot;Displayed Reading" presents the figures shown on item under calibration/checking regardless of equipment precision or significant figures.

⁽g) The "Tolerance Limit" mentioned is the acceptance criteria applicable for similar equipment used by Quality Pro Test-Consult Ltd. or quoted form relevant international standards.



專業化驗有限公司 **QUALITY PRO TEST-CONSULT LIMITED**

Unit 10, 14/F, Wah Wai Centre, 38-40 Au Pui Wan St., Fotan, Hong Kong Email: info@qualityprotest.com; Website: www.qualityprotest.com Tel: (852) 3956 8717; Fax: (852) 3956 3928

REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No.

AI080035

Date of Issue

06 Aug, 2019

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PART A - CUSTOMER INFORMATION

Enovative Environmental Service Ltd. Flat 2207, Yu Fun House, Yu Chui Court, Shatin New Territories, Hong Kong Attn: Mr. Thomas WONG

PART B - DESCRIPTION

Name of Equipment

YSI 6920V2 (Multi-Parameters)

Manufacturer

YSI (a xylem brand)

Serial Number

18A104824

Aug 02, 2019

Date of Received

Aug 02, 2019

Date of Calibration Date of Next Calibration(a)

Nov 02, 2019

PART C – REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

<u>Parameter</u>

Reference Method

pH at 25°C

APHA 21e 4500-H+ B APHA 21e 4500-O G

Dissolved Oxygen Conductivity at 25°C

APHA 21e 2510 B

Salinity

APHA 21e 2520 B

Turbidity

APHA 21e 2130 B

Temperature

Section 6 of international Accreditation New Zealand Technical

Guide no. 3 Second edition March 2008: Working Thermometer Calibration Procedure.

PART D - CALIBRATION RESULTS(b,c)

(1) pH at 25°C

Target (pH unit)	Displayed Reading(d) (pH Unit)	Tolerance(e)(pH Unit)	Results
4.00	4.01	0.01	Satisfactory
7.42	7.44	0.02	Satisfactory
10.01	10.00	-0.01	Satisfactory

Tolerance of pH should be less than ±0.20 (pH unit)

(2) Temperature

Reading of Ref. thermometer	Displayed Reading (°C)	Tolerance (°C)	Results
11.5	11.4	-0.1	Satisfactory
26.0	25.9	-0.1	Satisfactory
51.5	52.0	0.5	Satisfactory

Tolerance limit of temperature should be less than ±2.0 (°C)

~ CONTINUED ON NEXT PAGE ~

Remark(s): -

The "Date of Next Calibration" is recommended according to best practice principals as practiced by QPT or quoted form relevant international standards.

The results relate only to the calibrated equipment as received

The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.

"Displayed Reading" denotes the figure shown on item under calibration/checking regardless of equipment precision or significant figures.

The "Tolerance Limit" mentioned is referenced to YSI product specifications.

LEE Chun-ning, Desmond Senior Chemist



REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

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Date of Issue

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PART D - CALIBRATION RESULTS (Cont'd)

(3) Dissolved Oxygen

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)	Results
0.01	0.26	0.25	Satisfactory
1.68	1.82	0.14	Satisfactory
4.52	4.83	0.21	Satisfactory
7.84	8.04	0.20	Satisfactory

Tolerance limit of dissolved oxygen should be less than ± 0.50 (mg/L)

(4) Conductivity at 25°C

Conc. of KCl (M)	Expected Reading (µS/cm)	Displayed Reading (μS/cm)	Tolerance (%)	Results
0.001	146.9	144.3	-1.8	Satisfactory
0.01	1412	1394	-1.3	Satisfactory
0.1	12890	12677	-1.7	Satisfactory
0.5	58670	58642	0.0	Satisfactory
1.0	111900	112012	0.1	Satisfactory

Tolerance limit of conductivity should be less than ± 10.0 (%)

(5) Salinity

Expected Reading (g/L)	Displayed Reading (g/L)	Tolerance (%)	Results
10	10.06	0.6	Satisfactory
20	20.22	1.1	Satisfactory
30	30.17	0.6	Satisfactory

Tolerance limit of salinity should be less than ±10.0 (%)

(6) Turbidity

Expected Reading (NTU)	Displayed Reading ^(f) (NTU)	Tolerance ^(g) (%)	Results
0	0.01	<u> </u>	Satisfactory
10	10.04	0.4	Satisfactory
20	20.09	0.4	Satisfactory
100	100.19	0.2	Satisfactory
800	801.44	0.2	Satisfactory

Tolerance limit of turbidity should be less than ± 10.0 (%)

~ END OF REPORT ~

Remark(s): -

⁽b) "Displayed Reading" presents the figures shown on item under calibration/checking regardless of equipment precision or significant figures.

⁽⁸⁾ The "Tolerance Limit" mentioned is the acceptance criteria applicable for similar equipment used by Quality Pro Test-Consult Ltd. or quoted form relevant international standards.



Tel: (852) 3956 8717; Fax: (852) 3956 3928

REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No.

AI080036

Date of Issue

06 Aug, 2019

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PART A - CUSTOMER INFORMATION

Enovative Environmental Service Ltd.

Flat 2207, Yu Fun House,

Yu Chui Court, Shatin

New Territories, Hong Kong

Attn: Mr. Thomas WONG

PART B - DESCRIPTION

Name of Equipment

YSI 6920V2 (Multi-Parameters)

Manufacturer

YSI (a xylem brand)

Serial Number

Date of Received

17H105557

Date of Calibration

Aug 02, 2019 Aug 02, 2019

Date of Next Calibration(a)

Nov 02, 2019

PART C – REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

Parameter

Reference Method

pH at 25°C Dissolved Oxygen APHA 21e 4500-H+ B APHA 21e 4500-O G

Conductivity at 25°C

APHA 21e 2510 B

Salinity

APHA 21e 2520 B

Turbidity

APHA 21e 2130 B

Temperature

Section 6 of international Accreditation New Zealand Technical

Guide no. 3 Second edition March 2008: Working Thermometer Calibration Procedure.

PART D - CALIBRATION RESULTS(b,c)

(1) pH at 25°C

Target (pH unit)	Displayed Reading(d) (pH Unit)	Tolerance ^(e) (pH Unit)	Results
4.00	3.98	-0.02	Satisfactory
7.42	7.40	-0.02	Satisfactory
10.01	10.01	0.00	Satisfactory

Tolerance of pH should be less than ±0.20 (pH unit)

(2) Temperature

Reading of Ref. thermometer (°C)	Displayed Reading (°C)	Tolerance (°C)	Results
11.5	11.3	-0.2	Satisfactory
26.0	25.9	-0.1	Satisfactory
51.5	52.0	0.5	Satisfactory

Tolerance limit of temperature should be less than ± 2.0 (°C)

~ CONTINUED ON NEXT PAGE ~

Remark(s): -

The "Date of Next Calibration" is recommended according to best practice principals as practiced by QPT or quoted form relevant international standards.

The results relate only to the calibrated equipment as received

The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.

"Displayed Reading" denotes the figure shown on item under calibration/ checking regardless of equipment precision or significant figures.

The "Tolerance Limit" mentioned is referenced to YSI product specifications.

LEE Chun-ning, Desmond Senior Chemist



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PART D - CALIBRATION RESULTS (Cont'd)

(3) Dissolved Oxygen

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)	Results
0.01	0.27	0.26	Satisfactory
1.68	1.75	0.07	Satisfactory
4.52	4.81	0.29	Satisfactory
7.84	8.00	0.16	Satisfactory

Tolerance limit of dissolved oxygen should be less than ±0.50 (mg/L)

(4) Conductivity at 25°C

Conc. of KCl (M)	Expected Reading (µS/cm)	Displayed Reading (μS/cm)	Tolerance (%)	Results
0.001	146.9	152.6	3.9	Satisfactory
0.01	1412	1389	-1.6	Satisfactory
0.1	12890	12452	-3.4	Satisfactory
0.5	58670	58588	-0.1	Satisfactory
1.0	111900	111882	0.0	Satisfactory

Tolerance limit of conductivity should be less than ±10.0 (%)

(5) Salinity

Expected Reading (g/L)	Displayed Reading (g/L)	Tolerance (%)	Results
10	10.08	0.8	Satisfactory
20	20.35	1.8	Satisfactory
30	30.00	0.0	Satisfactory

Tolerance limit of salinity should be less than ± 10.0 (%)

(6) Turbidity

Expected Reading (NTU)	Displayed Reading ^(f) (NTU)	Tolerance ^(g) (%)	Results
0	0.00	==	Satisfactory
10	10.03	0.3	Satisfactory
20	20.11	0.5	Satisfactory
100	100.07	0.1	Satisfactory
800	800.35	0.0	Satisfactory

Tolerance limit of turbidity should be less than ± 10.0 (%)

~ END OF REPORT ~

Remark(s): -

relevant international standards.

[&]quot;Displayed Reading" presents the figures shown on item under calibration/ checking regardless of equipment precision or significant figures.

(b) The "Tolerance Limit" mentioned is the acceptance criteria applicable for similar equipment used by Quality Pro Test-Consult Ltd. or quoted form



REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No.

AI100182

Date of Issue

30 October 2019

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1 of 2

PART A - CUSTOMER INFORMATION

Enovative Environmental Service Ltd. Flat 2207, Yu Fun House, Yu Chui Court, Shatin New Territories, Hong Kong Attn: Mr. Thomas WONG

PART B - DESCRIPTION

Name of Equipment

YSI 6920V2 (Multi-Parameters)

Manufacturer

YSI (a xylem brand)

Serial Number

0001C6A7

Date of Received

Oct 28, 2019

Date of Calibration

Oct 28, 2019

Date of Next Calibration(a)

Jan 27, 2020

PART C – REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

Parameter

Reference Method

pH at 25°C

APHA 21e 4500-H+ B

Dissolved Oxygen Conductivity at 25°C APHA 21e 4500-O G APHA 21e 2510 B

Salinity

APHA 21e 2520 B

Turbidity

APHA 21e 2130 B

Temperature

Section 6 of international Accreditation New Zealand Technical

Guide no. 3 Second edition March 2008: Working Thermometer Calibration Procedure.

PART D - CALIBRATION RESULTS(b,c)

(1) pH at 25°C

Target (pH unit)	Displayed Reading(d) (pH Unit)	Tolerance ^(e) (pH Unit)	Results
4.00	4.07	0.07	Satisfactory
7.42	7.49	0.07	Satisfactory
10.01	10.05	0.04	Satisfactory

Tolerance of pH should be less than ±0.20 (pH unit)

(2) Temperature

Reading of Ref. thermometer	Displayed Reading (°C)	Tolerance (°C)	Results
15.0	15.1	0.1	Satisfactory
25.0	25.0	0.0	Satisfactory
35.0	35.0	0.0	Satisfactory

Tolerance limit of temperature should be less than ±2.0 (°C)

~ CONTINUED ON NEXT PAGE ~

Remark(s): -

The "Date of Next Calibration" is recommended according to best practice principals as practiced by QPT or quoted form relevant international standards.

The results relate only to the calibrated equipment as received

The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.

"Displayed Reading" denotes the figure shown on item under calibration/ checking regardless of equipment precision or significant figures.

The "Tolerance Limit" mentioned is referenced to YSI product specifications.

LEE Chun-ning, Desmond Senior Chemist



專業化驗有限公司 QUALITY PRO TEST-CONSULT LIMITED

Unit 10, 14/F, Wah Wai Centre, 38-40 Au Pui Wan St., Fotan, Hong Kong Email: info@qualityprotest.com; Website: www.qualityprotest.com Tel: (852) 3956 8717; Fax: (852) 3956 3928

REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

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PART D - CALIBRATION RESULTS (Cont'd)

(3) Dissolved Oxygen

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)	Results
1.04	0.90	-0.14	Satisfactory
4.10	4.40	0.3	Satisfactory
5.92	6.00	0.08	Satisfactory
7.81	8.10	0.29	Satisfactory

Tolerance limit of dissolved oxygen should be less than ±0.50 (mg/L)

(4) Conductivity at 25°C

Conc. of KCl (M)	Expected Reading (µS/cm)	Displayed Reading (μS/cm)	Tolerance (%)	Results
0.001	146.9	156	6.19	Satisfactory
0.01	1412	1384	-1.98	Satisfactory
0.1	12890	12810	-0.62	Satisfactory
0.5	58670	57991	-1.16	Satisfactory
1.0	111900	110844	-0.94	Satisfactory

Tolerance limit of conductivity should be less than ± 10.0 (%)

(5) Salinity

Expected Reading (g/L)	Displayed Reading (g/L)	Tolerance (%)	Results
10	10.08	0.80	Satisfactory
20	20.07	0.35	Satisfactory
30	30.1	0.33	Satisfactory

Tolerance limit of salinity should be less than ± 10.0 (%)

(6) Turbidity

Expected Reading (NTU)	Displayed Reading ^(f) (NTU)	Tolerance ^(g) (%)	Results
0	0.50	. mi 400	Satisfactory
10	10.02	0.2	Satisfactory
20	20.47	2.3	Satisfactory
100	100.16	0.2	Satisfactory
800	798.93	-0.1	Satisfactory

Tolerance limit of turbidity should be less than ± 10.0 (%)

Remark(s): -

relevant international standards.

[~] END OF REPORT ~

⁽B) "Displayed Reading" presents the figures shown on item under calibration/checking regardless of equipment precision or significant figures.
(B) The "Tolerance Limit" mentioned is the acceptance criteria applicable for similar equipment used by Quality Pro Test-Consult Ltd. or quoted form

Appendix F

EM&A Monitoring Schedules

HY/2012/08 - Tuen Mun - Chek Lap Kok Link Northern Connection Sub-sea Tunnel Section Air Quality Impact Monitoring Schedule - October 2019

Air quality monitoring stations: ASR1, ASR5, ASR6, ASR10, AQMS1

All quality mornitoring static	ons: ASR1, ASR5, ASR6, A I	SICTO, AQINST				
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		Public Holiday 1-Oct	2-Oct	3-Oct	4-Oct	5-Oct
			1-hour TSP - 3 times			1-hour TSP - 3 times
			24-hour TSP - 1 time			24-hour TSP - 1 time
			Impact AQM			Impact AQM
6-Oct	Public Holiday 7-Oct	8-Oct	9-Oct	10-Oct		12-Oct
		1-hour TSP - 3 times			1-hour TSP - 3 times	
		24-hour TSP - 1 time			24-hour TSP - 1 time	
		Impact AQM			Impact AQM	
13-Oct		15-Oct	16-Oct		18-Oct	19-Oct
	1-hour TSP - 3 times			1-hour TSP - 3 times		
	24-hour TSP - 1 time			24-hour TSP - 1 time		
	Impact AQM			Impact AQM		
20-Oct	21-Oct	22-Oct	23-Oct	24-Oct	25-Oct	
1-hour TSP - 3 times			1-hour TSP - 3 times			1-hour TSP - 3 times
24-hour TSP - 1 time			24-hour TSP - 1 time			24-hour TSP - 1 time
Impact AQM			Impact AQM			Impact AQM
27-Oct	28-Oct		30-Oct	31-Oct		
		1-hour TSP - 3 times				
		24-hour TSP - 1 time				
		Impact AQM				

HY/2012/08 - Tuen Mun - Chek Lap Kok Link Northern Connection Sub-sea Tunnel Section Tentative Air Quality Impact Monitoring Schedule - November 2019

Air quality monitoring stations: ASR1, ASR5, ASR6, ASR10, AQMS1

7 th quality mornioring stati	T	I				
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1-Nov	
					1-hour TSP - 3 times	
					24-hour TSP - 1 time	
					Impact AQM	
3-Nov		5-Nov	6-Nov		8-Nov	9-Nov
	1-hour TSP - 3 times			1-hour TSP - 3 times		
	24-hour TSP - 1 time			24-hour TSP - 1 time		
	Impact AQM			Impact AQM		
10-Nov	/ 11-Nov	12-Nov		14-Nov	15-Nov	
1-hour TSP - 3 times			1-hour TSP - 3 times			1-hour TSP - 3 times
24-hour TSP - 1 time			24-hour TSP - 1 time			24-hour TSP - 1 time
Impact AQM			Impact AQM			Impact AQM
17-Nov	/ 18-Nov		20-Nov	21-Nov		23-Nov
		1-hour TSP - 3 times			1-hour TSP - 3 times	
		24-hour TSP - 1 time			24-hour TSP - 1 time	
		lana a at A OM			lana a at A OM	
24-Nov		Impact AQM 26-Nov	27-Nov		Impact AQM 29-Nov	30-Nov
24-NOV	1-hour TSP - 3 times	20-1100	27-INOV	1-hour TSP - 3 times	29-1100	30-1100
	24-hour TSP - 1 time			24-hour TSP - 1 time		
	24-110ui 13F - 1 tiille			24-11001 13F - 1 tillle		
	Impact AQM			Impact AQM		
	IIIIpaol Agivi			Impact Activi		

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.

Tuen Mun – Chek Lap Kok Link – Northern Connection Sub-sea Tunnel Section Impact Marine Water Quality Monitoring (WQM) Schedule (October 2019)

S	undav		Tuesdav	Wednesday	Thursday	Fridav	Saturday
			Public Holiday 1-Oct	2-Oct	3-Oct	4-Oct	5-Oct
				ebb tide 13:48 - 17:18 flood tide 7:52 - 11:22		ebb tide 15:24 - 18:54 flood tide 10:00 - 13:30	
	6-Oct	Public Holiday 7-Oct	8-Oct	9-Oct	10-Oct	11-Oct	12-Oct
		ebb tide 6:08 - 9:38 flood tide 14:47 - 18:17		ebb tide 8:31 - 12:01 flood tide 15:55 - 19:25		ebb tide 9:55 - 13:25 flood tide 16:40 - 20:10	
	13-Oct	14-Oct	15-Oct	16-Oct	17-Oct	18-Oct	19-Oct
		ebb tide 11:29 - 14:59 flood tide 5:27 - 8:57		ebb tide 12:31 - 16:01 flood tide 6:43 - 10:13		ebb tide 13:45 - 17:15 flood tide 8:14 - 11:44	
	20-Oct	21-Oct	22-Oct	23-Oct	24-Oct	25-Oct	26-Oct
		ebb tide 3:41 - 7:11 flood tide 16:12 - 19:00		ebb tide 7:00 - 9:49 flood tide 14:24 - 17:54		ebb tide 8:48 - 12:18 flood tide 15:38 - 19:08	
	27-Oct	28-Oct	29-Oct	30-Oct	31-Oct		
		ebb tide 11:15 - 14:45 flood tide 5:10 - 8:40		ebb tide 12:47 - 16:17 flood tide 7:01 - 10:31			

Tuen Mun – Chek Lap Kok Link – Northern Connection Sub-sea Tunnel Section Impact Marine Water Quality Monitoring (WQM) Schedule (November 2019)

Sunday	Monday	Tuesdav	Wednesday	Thursday	Friday	Saturday
					1-Nov	
					ebb tide 14:13 - 17:43 flood tide 8:50 - 12:20	
3-Nov	4-Nov	5-Nov	6-Nov	7-Nov	8-Nov	9-Nov
	ebb tide 3:58 - 7:28 flood tide 16:28 - 19:13		ebb tide 7:13 - 9:53 flood tide 14:37 - 18:07		ebb tide 8:32 - 12:02 flood tide 15:26 - 18:56	
10-Nov	11-Nov	12-Nov	13-Nov	14-Nov	15-Nov	16-Nov
	ebb tide 10:24 - 13:54 flood tide 16:23 - 19:53		ebb tide 11:34 - 15:04 flood tide 17:08 - 19:58		ebb tide 12:52 - 16:22 flood tide 7:58 - 10:57	
17-Nov	18-Nov	19-Nov	20-Nov	21-Nov	22-Nov	23-Nov
	ebb tide 2:29 - 5:59 flood tide 10:22 - 13:52		ebb tide 4:26 - 7:56 flood tide 12:58 - 16:28		ebb tide 7:19 - 10:49 flood tide 14:21 - 17:51	
24-Nov	25-Nov	26-Nov	27-Nov	28-Nov	29-Nov	30-Nov
	ebb tide 10:12 - 13:42 flood tide 15:58 - 18:55		ebb tide 11:48 - 15:18 flood tide 6:55 - 9:43		ebb tide 13:10 - 16:40 flood tide 7:52 - 11:22	

HY/2012/08 - Tuen Mun - Chek Lap Kok Link Northern Connection Sub-sea Tunnel Section Impact Dolphin Monitoring Survey Monitoring Schedule - October 2019

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

HY/2012/08 - Tuen Mun - Chek Lap Kok Link Northern Connection Sub-sea Tunnel Section Tentative Impact Dolphin Monitoring Survey Monitoring Schedule - November 2019

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1-Nov	2-Nov
3-Nov	4-Nov		6-Nov	7-Nov	8-Nov	9-Nov
		Impact Dolphin Monitoring				
10-Nov	11-Nov	12-Nov	13-Nov	14-Nov	15-Nov	16-Nov
17-Nov	18-Nov	19-Nov	20-Nov	21-Nov	22-Nov	23-Nov
17-NOV	TO-INOV	19-1100	Impact Dolphin	21-1100	22-INUV	23-1100
			Monitoring			
24-Nov				28-Nov	29-Nov	30-Nov
	Impact Dolphin Monitoring		Impact Dolphin Monitoring			

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

Appendix G

Impact Air Quality Monitoring Results

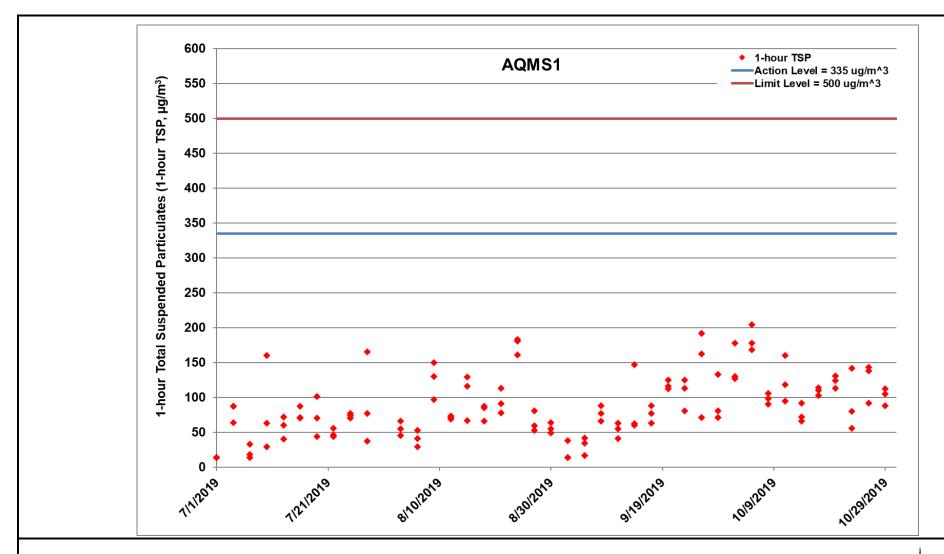


Figure G.1 Impact Monitoring – 1-hour Total Suspended Particulates (μ g/m³) at AQMS1 between 1 July 2019 and 31 October 2019 during impact monitoring period. The weather conditions during the monitoring period varied from sunny to cloudy. Major land-based construction activities included: Backfilling, Road & Drainage Works (1/7/2019 - 31/10/2019)



Ref: 0212330_Impact AQM graphs_October 2019_REV a.xlsx

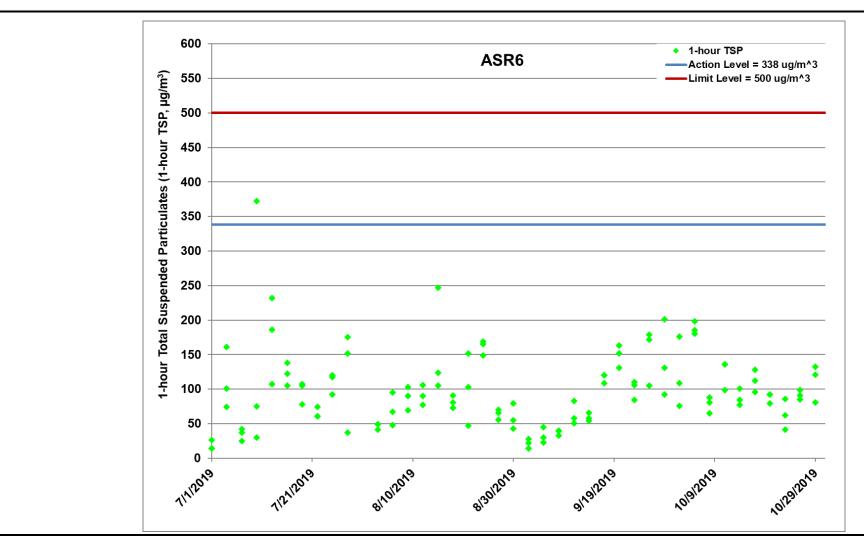


Figure G.2 Impact Monitoring – 1-hour Total Suspended Particulates (μg/m³) at ASR6 between 1 July 2019 and 31 October 2019 during impact monitoring period. The weather conditions during the monitoring period varied from sunny to cloudy. Major land-based construction activities included: Backfilling, Road & Drainage Works (1/7/2019 – 31/10/2019)



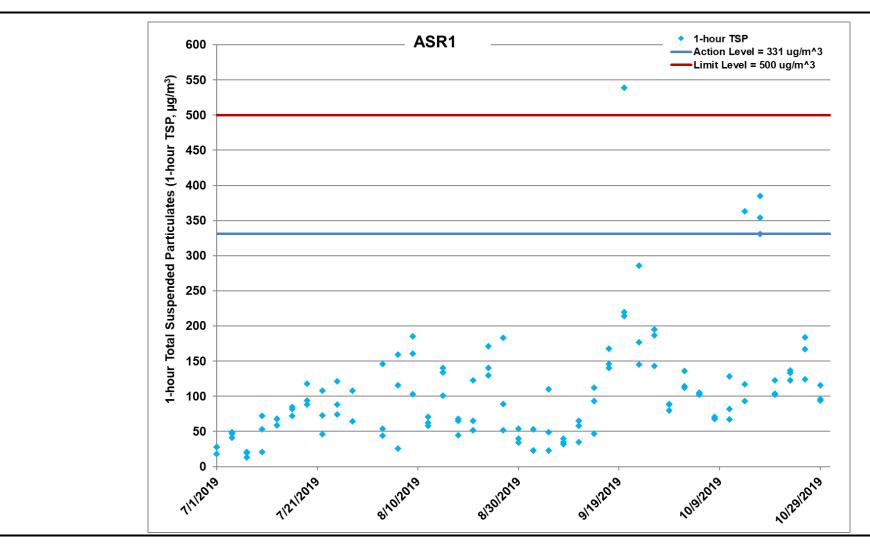


Figure G.3 Impact Monitoring – 1-hour Total Suspended Particulates (μ g/m³) at ASR1 between 1 July 2019 and 31 October 2019 during impact monitoring period. The weather conditions during the monitoring period varied from sunny to cloudy. Major land-based construction activities included: Backfilling, Road & Drainage Works (1/7/2019 - 31/10/2019)



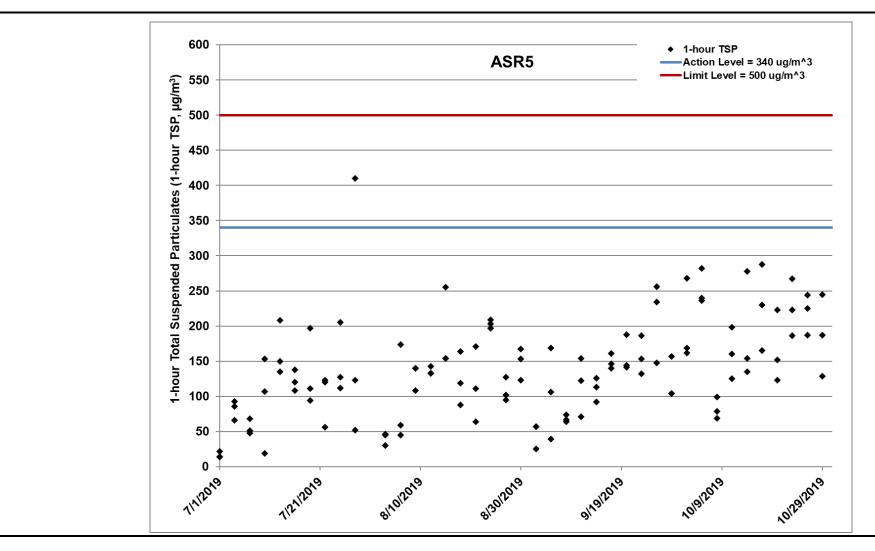


Figure G.4 Impact Monitoring – 1-hour Total Suspended Particulates (μ g/m³) at ASR5 between 1 July 2019 and 31 October 2019 during impact monitoring period. The weather conditions during the monitoring period varied from sunny to cloudy. Major land-based construction activities included: Backfilling, Road & Drainage Works (1/7/2019 - 31/10/2019)



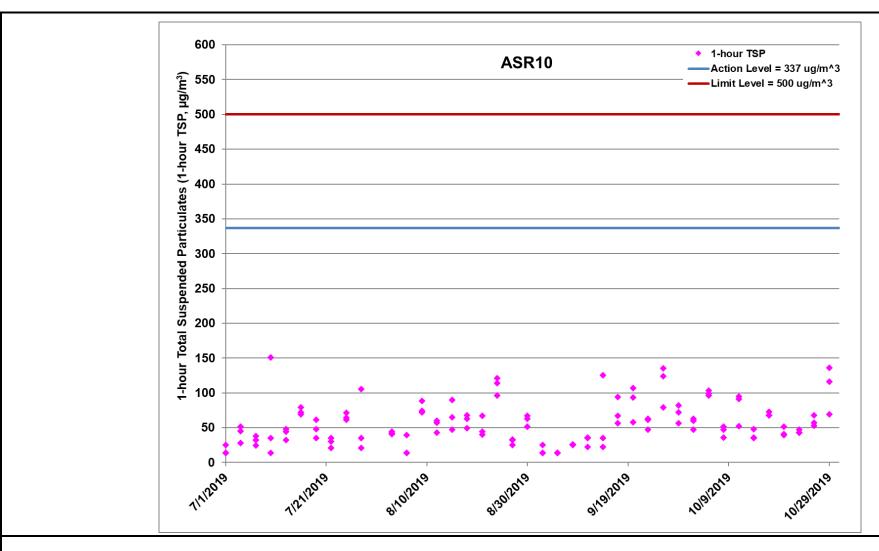


Figure G.5 Impact Monitoring – 1-hour Total Suspended Particulates (μ g/m³) at ASR10 between 1 July 2019 and 31 October 2019 during impact monitoring period. The weather conditions during the monitoring period varied from sunny to cloudy. Major land-based construction activities included: Backfilling, Road & Drainage Works (1/7/2019 – 31/10/2019)



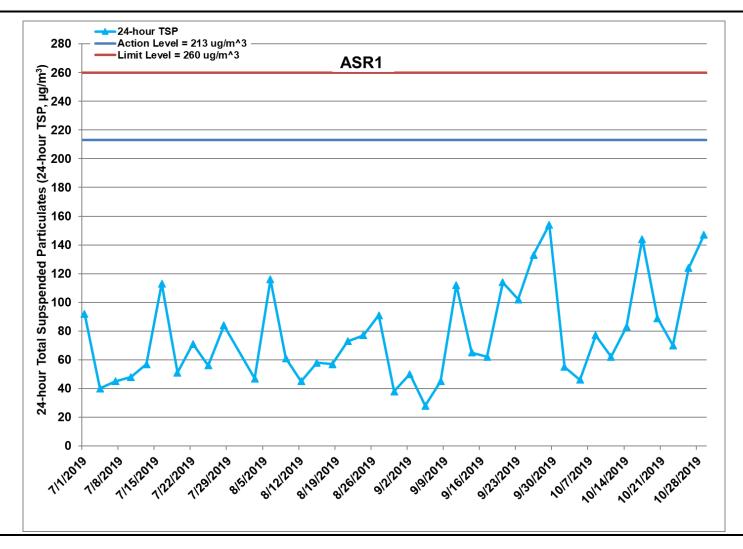


Figure G.6 Impact Monitoring – 24-hour Total Suspended Particulates (μ g/m³) at ASR1 between 1 July 2019 and 31 October 2019 during impact monitoring period. The weather conditions during the monitoring period varied from sunny to cloudy. Major land-based construction activities included: Backfilling, Road & Drainage Works (1/7/2019 – 31/10/2019)



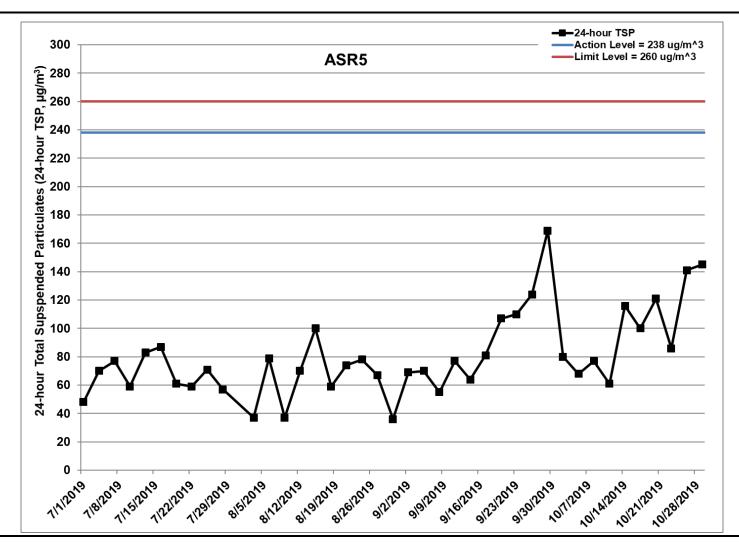


Figure G.7 Impact Monitoring – 24-hour Total Suspended Particulates (μ g/m³) at ASR5 between 1 July 2019 and 31 October 2019 during impact monitoring period. The weather conditions during the monitoring period varied from sunny to cloudy. Major land-based construction activities included: Backfilling, Road & Drainage Works (1/7/2019 – 31/10/2019)



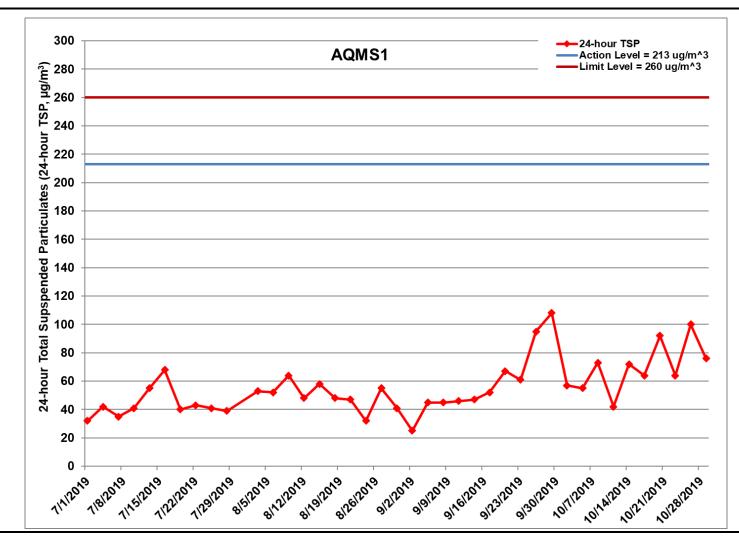


Figure G.8 Impact Monitoring – 24-hour Total Suspended Particulates (μ g/m³) at AQMS1 between 1 July 2019 and 31 October 2019 during impact monitoring period. The weather conditions during the monitoring period varied from sunny to cloudy. Major land-based construction activities included: Backfilling, Road & Drainage Works (1/7/2019 - 31/10/2019)



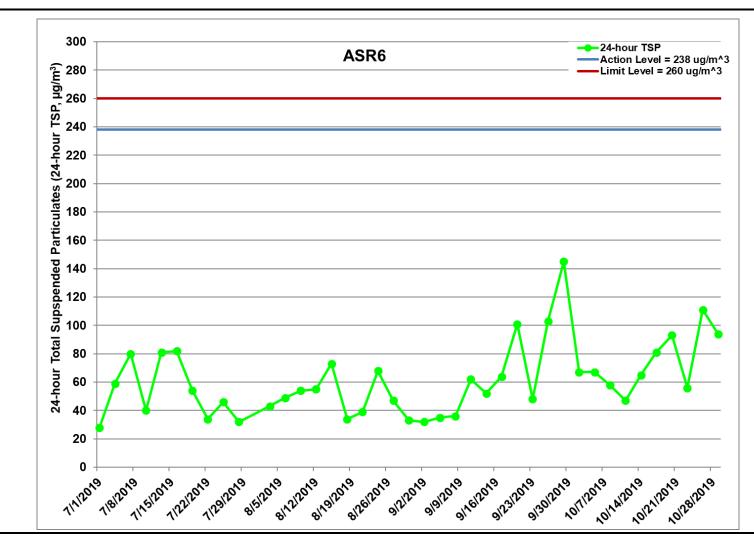


Figure G.9 Impact Monitoring – 24-hour Total Suspended Particulates (μ g/m³) at ASR6 between 1 July 2019 and 31 October 2019 during impact monitoring period. The weather conditions during the monitoring period varied from sunny to cloudy. Major land-based construction activities included: Backfilling, Road & Drainage Works (1/7/2019 – 31/10/2019)



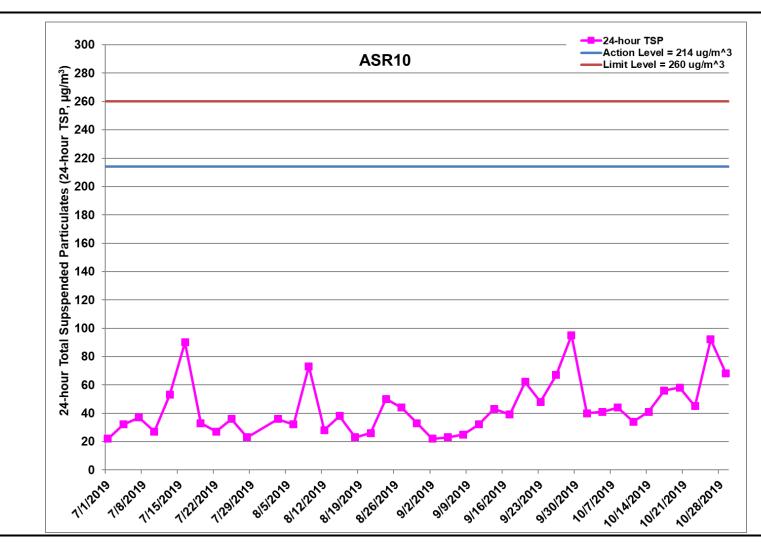


Figure G.10 Impact Monitoring – 24-hour Total Suspended Particulates (μg/m³) at ASR10 between 1 July 2019 and 31 October 2019 during impact monitoring period. The weather conditions during the monitoring period varied from sunny to cloudy. Major land-based construction activities included: Backfilling, Road & Drainage Works (1/7/2019 – 31/10/2019)



Project	Contract	Date	Station	Weather	Start time	Parameters	Results	units
TMCLKL	HY/2012/08	2019-10-02	AQMS1	Sunny	14:12	1-hour TSP	130	ug/m3
TMCLKL	HY/2012/08	2019-10-02	AQMS1	Sunny	15:14	1-hour TSP	127	ug/m3
TMCLKL	HY/2012/08	2019-10-02	AQMS1	Sunny	16:16	1-hour TSP	178	ug/m3
TMCLKL	HY/2012/08	2019-10-02	ASR1	Sunny	14:00	1-hour TSP	114	ug/m3
TMCLKL	HY/2012/08	2019-10-02	ASR1	Sunny	15:02	1-hour TSP	136	ug/m3
TMCLKL	HY/2012/08	2019-10-02	ASR1	Sunny	16:04	1-hour TSP	112	ug/m3
TMCLKL	HY/2012/08	2019-10-02	ASR10	Sunny	13:26	1-hour TSP	47	ug/m3
TMCLKL	HY/2012/08	2019-10-02	ASR10	Sunny	14:28	1-hour TSP	63	ug/m3
TMCLKL	HY/2012/08	2019-10-02	ASR10	Sunny	15:30	1-hour TSP	60	ug/m3
TMCLKL	HY/2012/08	2019-10-02	ASR5	Sunny	13:48	1-hour TSP	162	ug/m3
TMCLKL	HY/2012/08	2019-10-02	ASR5	Sunny	14:50	1-hour TSP	169	ug/m3
TMCLKL	HY/2012/08	2019-10-02	ASR5	Sunny	15:52	1-hour TSP	268	ug/m3
TMCLKL	HY/2012/08	2019-10-02	ASR6	Sunny	13:37	1-hour TSP	76	ug/m3
TMCLKL	HY/2012/08	2019-10-02	ASR6	Sunny	14:39	1-hour TSP	109	ug/m3
TMCLKL	HY/2012/08	2019-10-02	ASR6	Sunny	15:41	1-hour TSP	176	ug/m3
TMCLKL	HY/2012/08	2019-10-05	AQMS1	Sunny	14:11	1-hour TSP	168	ug/m3
TMCLKL	HY/2012/08	2019-10-05	AQMS1	Sunny	15:13	1-hour TSP	204	ug/m3
TMCLKL	HY/2012/08	2019-10-05	AQMS1	Sunny	16:15	1-hour TSP	178	ug/m3
TMCLKL	HY/2012/08	2019-10-05	ASR1	Sunny	14:01	1-hour TSP	104	ug/m3
TMCLKL	HY/2012/08	2019-10-05	ASR1	Sunny	15:03	1-hour TSP	105	ug/m3
TMCLKL	HY/2012/08	2019-10-05	ASR1	Sunny	16:05	1-hour TSP	102	ug/m3
TMCLKL	HY/2012/08	2019-10-05	ASR10	Sunny	13:27	1-hour TSP	103	ug/m3
TMCLKL	HY/2012/08	2019-10-05	ASR10	Sunny	14:29	1-hour TSP	96	ug/m3
TMCLKL	HY/2012/08	2019-10-05	ASR10	Sunny	15:31	1-hour TSP	99	ug/m3
TMCLKL	HY/2012/08	2019-10-05	ASR5	Sunny	13:49	1-hour TSP	240	ug/m3
TMCLKL	HY/2012/08	2019-10-05	ASR5	Sunny	14:51	1-hour TSP	236	ug/m3
TMCLKL	HY/2012/08	2019-10-05	ASR5	Sunny	15:53	1-hour TSP	282	ug/m3
TMCLKL	HY/2012/08	2019-10-05	ASR6	Sunny	13:38	1-hour TSP	180	ug/m3
TMCLKL	HY/2012/08	2019-10-05	ASR6	Sunny	14:40	1-hour TSP	198	ug/m3
TMCLKL	HY/2012/08	2019-10-05	ASR6	Sunny	15:42	1-hour TSP	185	ug/m3

Project	Contract	Date	Station	Weather	Start time	Parameters	Results	units
TMCLKL	HY/2012/08	2019-10-08	AQMS1	Sunny	14:16	1-hour TSP	106	ug/m3
TMCLKL	HY/2012/08	2019-10-08	AQMS1	Sunny	15:18	1-hour TSP	90	ug/m3
TMCLKL	HY/2012/08	2019-10-08	AQMS1	Sunny	16:20	1-hour TSP	98	ug/m3
TMCLKL	HY/2012/08	2019-10-08	ASR1	Sunny	14:04	1-hour TSP	68	ug/m3
TMCLKL	HY/2012/08	2019-10-08	ASR1	Sunny	15:06	1-hour TSP	71	ug/m3
TMCLKL	HY/2012/08	2019-10-08	ASR1	Sunny	16:08	1-hour TSP	68	ug/m3
TMCLKL	HY/2012/08	2019-10-08	ASR10	Sunny	13:30	1-hour TSP	36	ug/m3
TMCLKL	HY/2012/08	2019-10-08	ASR10	Sunny	14:32	1-hour TSP	47	ug/m3
TMCLKL	HY/2012/08	2019-10-08	ASR10	Sunny	15:34	1-hour TSP	51	ug/m3
TMCLKL	HY/2012/08	2019-10-08	ASR5	Sunny	13:53	1-hour TSP	99	ug/m3
TMCLKL	HY/2012/08	2019-10-08	ASR5	Sunny	14:55	1-hour TSP	79	ug/m3
TMCLKL	HY/2012/08	2019-10-08	ASR5	Sunny	15:57	1-hour TSP	69	ug/m3
TMCLKL	HY/2012/08	2019-10-08	ASR6	Sunny	13:42	1-hour TSP	81	ug/m3
TMCLKL	HY/2012/08	2019-10-08	ASR6	Sunny	14:44	1-hour TSP	65	ug/m3
TMCLKL	HY/2012/08	2019-10-08	ASR6	Sunny	15:46	1-hour TSP	88	ug/m3
TMCLKL	HY/2012/08	2019-10-11	AQMS1	Sunny	09:09	1-hour TSP	160	ug/m3
TMCLKL	HY/2012/08	2019-10-11	AQMS1	Sunny	10:11	1-hour TSP	118	ug/m3
TMCLKL	HY/2012/08	2019-10-11	AQMS1	Sunny	11:13	1-hour TSP	95	ug/m3
TMCLKL	HY/2012/08	2019-10-11	ASR1	Sunny	08:58	1-hour TSP	67	ug/m3
TMCLKL	HY/2012/08	2019-10-11	ASR1	Sunny	10:00	1-hour TSP	82	ug/m3
TMCLKL	HY/2012/08	2019-10-11	ASR1	Sunny	11:02	1-hour TSP	128	ug/m3
TMCLKL	HY/2012/08	2019-10-11	ASR10	Sunny	08:25	1-hour TSP	95	ug/m3
TMCLKL	HY/2012/08	2019-10-11	ASR10	Sunny	09:27	1-hour TSP	91	ug/m3
TMCLKL	HY/2012/08	2019-10-11	ASR10	Sunny	10:29	1-hour TSP	52	ug/m3
TMCLKL	HY/2012/08	2019-10-11	ASR5	Sunny	08:47	1-hour TSP	198	ug/m3
TMCLKL	HY/2012/08	2019-10-11	ASR5	Sunny	09:49	1-hour TSP	125	ug/m3
TMCLKL	HY/2012/08	2019-10-11	ASR5	Sunny	10:51	1-hour TSP	160	ug/m3
TMCLKL	HY/2012/08	2019-10-11	ASR6	Sunny	08:36	1-hour TSP	136	ug/m3
TMCLKL	HY/2012/08	2019-10-11	ASR6	Sunny	09:38	1-hour TSP	136	ug/m3
TMCLKL	HY/2012/08	2019-10-11	ASR6	Sunny	10:40	1-hour TSP	99	ug/m3

Project	Contract	Date	Station	Weather	Start time	Parameters	Results	units
TMCLKL	HY/2012/08	2019-10-14	AQMS1	Sunny	09:00	1-hour TSP	92	ug/m3
TMCLKL	HY/2012/08	2019-10-14	AQMS1	Sunny	10:02	1-hour TSP	66	ug/m3
TMCLKL	HY/2012/08	2019-10-14	AQMS1	Sunny	11:04	1-hour TSP	72	ug/m3
TMCLKL	HY/2012/08	2019-10-14	ASR1	Sunny	08:48	1-hour TSP	93	ug/m3
TMCLKL	HY/2012/08	2019-10-14	ASR1	Sunny	09:50	1-hour TSP	363	ug/m3
TMCLKL	HY/2012/08	2019-10-14	ASR1	Sunny	10:52	1-hour TSP	117	ug/m3
TMCLKL	HY/2012/08	2019-10-14	ASR10	Sunny	08:15	1-hour TSP	36	ug/m3
TMCLKL	HY/2012/08	2019-10-14	ASR10	Sunny	09:17	1-hour TSP	35	ug/m3
TMCLKL	HY/2012/08	2019-10-14	ASR10	Sunny	10:19	1-hour TSP	48	ug/m3
TMCLKL	HY/2012/08	2019-10-14	ASR5	Sunny	08:37	1-hour TSP	278	ug/m3
TMCLKL	HY/2012/08	2019-10-14	ASR5	Sunny	09:39	1-hour TSP	135	ug/m3
TMCLKL	HY/2012/08	2019-10-14	ASR5	Sunny	10:41	1-hour TSP	154	ug/m3
TMCLKL	HY/2012/08	2019-10-14	ASR6	Sunny	08:25	1-hour TSP	101	ug/m3
TMCLKL	HY/2012/08	2019-10-14	ASR6	Sunny	09:27	1-hour TSP	77	ug/m3
TMCLKL	HY/2012/08	2019-10-14	ASR6	Sunny	10:29	1-hour TSP	84	ug/m3
TMCLKL	HY/2012/08	2019-10-17	AQMS1	Sunny	08:50	1-hour TSP	103	ug/m3
TMCLKL	HY/2012/08	2019-10-17	AQMS1	Sunny	09:52	1-hour TSP	114	ug/m3
TMCLKL	HY/2012/08	2019-10-17	AQMS1	Sunny	10:54	1-hour TSP	110	ug/m3
TMCLKL	HY/2012/08	2019-10-17	ASR1	Sunny	08:39	1-hour TSP	331	ug/m3
TMCLKL	HY/2012/08	2019-10-17	ASR1	Sunny	09:41	1-hour TSP	354	ug/m3
TMCLKL	HY/2012/08	2019-10-17	ASR1	Sunny	10:43	1-hour TSP	385	ug/m3
TMCLKL	HY/2012/08	2019-10-17	ASR10	Sunny	08:04	1-hour TSP	68	ug/m3
TMCLKL	HY/2012/08	2019-10-17	ASR10	Sunny	09:06	1-hour TSP	73	ug/m3
TMCLKL	HY/2012/08	2019-10-17	ASR10	Sunny	10:08	1-hour TSP	68	ug/m3
TMCLKL	HY/2012/08	2019-10-17	ASR5	Sunny	08:27	1-hour TSP	288	ug/m3
TMCLKL	HY/2012/08	2019-10-17	ASR5	Sunny	09:29	1-hour TSP	230	ug/m3
TMCLKL	HY/2012/08	2019-10-17	ASR5	Sunny	10:31	1-hour TSP	165	ug/m3
TMCLKL	HY/2012/08	2019-10-17	ASR6	Sunny	08:15	1-hour TSP	128	ug/m3
TMCLKL	HY/2012/08	2019-10-17	ASR6	Sunny	09:17	1-hour TSP	112	ug/m3
TMCLKL	HY/2012/08	2019-10-17	ASR6	Sunny	10:19	1-hour TSP	96	ug/m3

Project	Contract	Date	Station	Weather	Start time	Parameters	Results	units
TMCLKL	HY/2012/08	2019-10-20	AQMS1	Sunny	08:49	1-hour TSP	124	ug/m3
TMCLKL	HY/2012/08	2019-10-20	AQMS1	Sunny	09:51	1-hour TSP	131	ug/m3
TMCLKL	HY/2012/08	2019-10-20	AQMS1	Sunny	10:53	1-hour TSP	113	ug/m3
TMCLKL	HY/2012/08	2019-10-20	ASR1	Sunny	08:37	1-hour TSP	123	ug/m3
TMCLKL	HY/2012/08	2019-10-20	ASR1	Sunny	09:39	1-hour TSP	104	ug/m3
TMCLKL	HY/2012/08	2019-10-20	ASR1	Sunny	10:41	1-hour TSP	102	ug/m3
TMCLKL	HY/2012/08	2019-10-20	ASR10	Sunny	08:00	1-hour TSP	39	ug/m3
TMCLKL	HY/2012/08	2019-10-20	ASR10	Sunny	09:02	1-hour TSP	41	ug/m3
TMCLKL	HY/2012/08	2019-10-20	ASR10	Sunny	10:04	1-hour TSP	51	ug/m3
TMCLKL	HY/2012/08	2019-10-20	ASR5	Sunny	08:25	1-hour TSP	223	ug/m3
TMCLKL	HY/2012/08	2019-10-20	ASR5	Sunny	09:27	1-hour TSP	123	ug/m3
TMCLKL	HY/2012/08	2019-10-20	ASR5	Sunny	10:29	1-hour TSP	152	ug/m3
TMCLKL	HY/2012/08	2019-10-20	ASR6	Sunny	08:12	1-hour TSP	92	ug/m3
TMCLKL	HY/2012/08	2019-10-20	ASR6	Sunny	09:14	1-hour TSP	92	ug/m3
TMCLKL	HY/2012/08	2019-10-20	ASR6	Sunny	10:16	1-hour TSP	79	ug/m3
TMCLKL	HY/2012/08	2019-10-23	AQMS1	Sunny	08:48	1-hour TSP	56	ug/m3
TMCLKL	HY/2012/08	2019-10-23	AQMS1	Sunny	09:50	1-hour TSP	80	ug/m3
TMCLKL	HY/2012/08	2019-10-23	AQMS1	Sunny	10:52	1-hour TSP	142	ug/m3
TMCLKL	HY/2012/08	2019-10-23	ASR1	Sunny	08:37	1-hour TSP	133	ug/m3
TMCLKL	HY/2012/08	2019-10-23	ASR1	Sunny	09:39	1-hour TSP	123	ug/m3
TMCLKL	HY/2012/08	2019-10-23	ASR1	Sunny	10:41	1-hour TSP	137	ug/m3
TMCLKL	HY/2012/08	2019-10-23	ASR10	Sunny	08:02	1-hour TSP	47	ug/m3
TMCLKL	HY/2012/08	2019-10-23	ASR10	Sunny	09:04	1-hour TSP	43	ug/m3
TMCLKL	HY/2012/08	2019-10-23	ASR10	Sunny	10:06	1-hour TSP	43	ug/m3
TMCLKL	HY/2012/08	2019-10-23	ASR5	Sunny	08:25	1-hour TSP	186	ug/m3
TMCLKL	HY/2012/08	2019-10-23	ASR5	Sunny	09:27	1-hour TSP	267	ug/m3
TMCLKL	HY/2012/08	2019-10-23	ASR5	Sunny	10:29	1-hour TSP	223	ug/m3
TMCLKL	HY/2012/08	2019-10-23	ASR6	Sunny	08:13	1-hour TSP	62	ug/m3
TMCLKL	HY/2012/08	2019-10-23	ASR6	Sunny	09:15	1-hour TSP	41	ug/m3
TMCLKL	HY/2012/08	2019-10-23	ASR6	Sunny	10:17	1-hour TSP	86	ug/m3

Project	Contract	Date	Station	Weather	Start time	Parameters	Results	units
TMCLKL	HY/2012/08	2019-10-26	AQMS1	Sunny	13:48	1-hour TSP	138	ug/m3
TMCLKL	HY/2012/08	2019-10-26	AQMS1	Sunny	14:50	1-hour TSP	92	ug/m3
TMCLKL	HY/2012/08	2019-10-26	AQMS1	Sunny	15:52	1-hour TSP	143	ug/m3
TMCLKL	HY/2012/08	2019-10-26	ASR1	Sunny	13:36	1-hour TSP	184	ug/m3
TMCLKL	HY/2012/08	2019-10-26	ASR1	Sunny	14:38	1-hour TSP	167	ug/m3
TMCLKL	HY/2012/08	2019-10-26	ASR1	Sunny	15:40	1-hour TSP	124	ug/m3
TMCLKL	HY/2012/08	2019-10-26	ASR10	Sunny	13:02	1-hour TSP	53	ug/m3
TMCLKL	HY/2012/08	2019-10-26	ASR10	Sunny	14:04	1-hour TSP	57	ug/m3
TMCLKL	HY/2012/08	2019-10-26	ASR10	Sunny	15:06	1-hour TSP	68	ug/m3
TMCLKL	HY/2012/08	2019-10-26	ASR5	Sunny	13:24	1-hour TSP	244	ug/m3
TMCLKL	HY/2012/08	2019-10-26	ASR5	Sunny	14:26	1-hour TSP	225	ug/m3
TMCLKL	HY/2012/08	2019-10-26	ASR5	Sunny	15:28	1-hour TSP	187	ug/m3
TMCLKL	HY/2012/08	2019-10-26	ASR6	Sunny	13:13	1-hour TSP	85	ug/m3
TMCLKL	HY/2012/08	2019-10-26	ASR6	Sunny	14:15	1-hour TSP	91	ug/m3
TMCLKL	HY/2012/08	2019-10-26	ASR6	Sunny	15:17	1-hour TSP	99	ug/m3
TMCLKL	HY/2012/08	2019-10-29	AQMS1	Sunny	08:49	1-hour TSP	105	ug/m3
TMCLKL	HY/2012/08	2019-10-29	AQMS1	Sunny	09:51	1-hour TSP	112	ug/m3
TMCLKL	HY/2012/08	2019-10-29	AQMS1	Sunny	10:53	1-hour TSP	88	ug/m3
TMCLKL	HY/2012/08	2019-10-29	ASR1	Sunny	08:37	1-hour TSP	94	ug/m3
TMCLKL	HY/2012/08	2019-10-29	ASR1	Sunny	09:39	1-hour TSP	116	ug/m3
TMCLKL	HY/2012/08	2019-10-29	ASR1	Sunny	10:41	1-hour TSP	96	ug/m3
TMCLKL	HY/2012/08	2019-10-29	ASR10	Sunny	08:03	1-hour TSP	116	ug/m3
TMCLKL	HY/2012/08	2019-10-29	ASR10	Sunny	09:05	1-hour TSP	69	ug/m3
TMCLKL	HY/2012/08	2019-10-29	ASR10	Sunny	10:07	1-hour TSP	136	ug/m3
TMCLKL	HY/2012/08	2019-10-29	ASR5	Sunny	08:25	1-hour TSP	245	ug/m3
TMCLKL	HY/2012/08	2019-10-29	ASR5	Sunny	09:27	1-hour TSP	187	ug/m3
TMCLKL	HY/2012/08	2019-10-29	ASR5	Sunny	10:29	1-hour TSP	129	ug/m3
TMCLKL	HY/2012/08	2019-10-29	ASR6	Sunny	08:14	1-hour TSP	132	ug/m3
TMCLKL	HY/2012/08	2019-10-29	ASR6	Sunny	09:16	1-hour TSP	121	ug/m3
TMCLKL	HY/2012/08	2019-10-29	ASR6	Sunny	10:18	1-hour TSP	81	ug/m3

Project	Contract	Date	Station	Weather	Start time	Parameters	Results	units
TMCLKL	HY/2012/08	2019-10-02	AQMS1	Sunny	17:18	24-hour TSP	57	ug/m3
TMCLKL	HY/2012/08	2019-10-02	ASR1	Sunny	17:06	24-hour TSP	55	ug/m3
TMCLKL	HY/2012/08	2019-10-02	ASR10	Sunny	16:32	24-hour TSP	40	ug/m3
TMCLKL	HY/2012/08	2019-10-02	ASR5	Sunny	16:54	24-hour TSP	80	ug/m3
TMCLKL	HY/2012/08	2019-10-02	ASR6	Sunny	16:43	24-hour TSP	67	ug/m3
TMCLKL	HY/2012/08	2019-10-05	AQMS1	Sunny	17:17	24-hour TSP	55	ug/m3
TMCLKL	HY/2012/08	2019-10-05	ASR1	Sunny	17:07	24-hour TSP	46	ug/m3
TMCLKL	HY/2012/08	2019-10-05	ASR10	Sunny	16:33	24-hour TSP	41	ug/m3
TMCLKL	HY/2012/08	2019-10-05	ASR5	Sunny	16:55	24-hour TSP	68	ug/m3
TMCLKL	HY/2012/08	2019-10-05	ASR6	Sunny	16:44	24-hour TSP	67	ug/m3
TMCLKL	HY/2012/08	2019-10-08	AQMS1	Sunny	17:22	24-hour TSP	73	ug/m3
TMCLKL	HY/2012/08	2019-10-08	ASR1	Sunny	17:10	24-hour TSP	77	ug/m3
TMCLKL	HY/2012/08	2019-10-08	ASR10	Sunny	16:36	24-hour TSP	44	ug/m3
TMCLKL	HY/2012/08	2019-10-08	ASR5	Sunny	16:59	24-hour TSP	77	ug/m3
TMCLKL	HY/2012/08	2019-10-08	ASR6	Sunny	16:48	24-hour TSP	58	ug/m3
TMCLKL	HY/2012/08	2019-10-11	AQMS1	Sunny	12:15	24-hour TSP	42	ug/m3
TMCLKL	HY/2012/08	2019-10-11	ASR1	Sunny	12:04	24-hour TSP	62	ug/m3
TMCLKL	HY/2012/08	2019-10-11	ASR10	Sunny	11:31	24-hour TSP	34	ug/m3
TMCLKL	HY/2012/08	2019-10-11	ASR5	Sunny	11:53	24-hour TSP	61	ug/m3
TMCLKL	HY/2012/08	2019-10-11	ASR6	Sunny	11:42	24-hour TSP	47	ug/m3
TMCLKL	HY/2012/08	2019-10-14	AQMS1	Sunny	12:06	24-hour TSP	72	ug/m3
TMCLKL	HY/2012/08	2019-10-14	ASR1	Sunny	11:54	24-hour TSP	83	ug/m3
TMCLKL	HY/2012/08	2019-10-14	ASR10	Sunny	11:21	24-hour TSP	41	ug/m3
TMCLKL	HY/2012/08	2019-10-14	ASR5	Sunny	11:43	24-hour TSP	116	ug/m3
TMCLKL	HY/2012/08	2019-10-14	ASR6	Sunny	11:31	24-hour TSP	65	ug/m3
TMCLKL	HY/2012/08	2019-10-17	AQMS1	Sunny	11:56	24-hour TSP	64	ug/m3
TMCLKL	HY/2012/08	2019-10-17	ASR1	Sunny	11:45	24-hour TSP	144	ug/m3
TMCLKL	HY/2012/08	2019-10-17	ASR10	Sunny	11:10	24-hour TSP	56	ug/m3
TMCLKL	HY/2012/08	2019-10-17	ASR5	Sunny	11:33	24-hour TSP	100	ug/m3
TMCLKL	HY/2012/08	2019-10-17	ASR6	Sunny	11:21	24-hour TSP	81	ug/m3

Project	Contract	Date	Station	Weather	Start time	Parameters	Results	units
TMCLKL	HY/2012/08	2019-10-20	AQMS1	Sunny	11:55	24-hour TSP	92	ug/m3
TMCLKL	HY/2012/08	2019-10-20	ASR1	Sunny	11:43	24-hour TSP	89	ug/m3
TMCLKL	HY/2012/08	2019-10-20	ASR10	Sunny	11:06	24-hour TSP	58	ug/m3
TMCLKL	HY/2012/08	2019-10-20	ASR5	Sunny	11:31	24-hour TSP	121	ug/m3
TMCLKL	HY/2012/08	2019-10-20	ASR6	Sunny	11:18	24-hour TSP	93	ug/m3
TMCLKL	HY/2012/08	2019-10-23	AQMS1	Sunny	11:54	24-hour TSP	64	ug/m3
TMCLKL	HY/2012/08	2019-10-23	ASR1	Sunny	11:43	24-hour TSP	70	ug/m3
TMCLKL	HY/2012/08	2019-10-23	ASR10	Sunny	11:08	24-hour TSP	45	ug/m3
TMCLKL	HY/2012/08	2019-10-23	ASR5	Sunny	11:31	24-hour TSP	86	ug/m3
TMCLKL	HY/2012/08	2019-10-23	ASR6	Sunny	11:19	24-hour TSP	56	ug/m3
TMCLKL	HY/2012/08	2019-10-26	AQMS1	Sunny	16:54	24-hour TSP	100	ug/m3
TMCLKL	HY/2012/08	2019-10-26	ASR1	Sunny	16:42	24-hour TSP	124	ug/m3
TMCLKL	HY/2012/08	2019-10-26	ASR10	Sunny	16:08	24-hour TSP	92	ug/m3
TMCLKL	HY/2012/08	2019-10-26	ASR5	Sunny	16:30	24-hour TSP	141	ug/m3
TMCLKL	HY/2012/08	2019-10-26	ASR6	Sunny	16:19	24-hour TSP	111	ug/m3
TMCLKL	HY/2012/08	2019-10-29	AQMS1	Sunny	11:55	24-hour TSP	76	ug/m3
TMCLKL	HY/2012/08	2019-10-29	ASR1	Sunny	11:43	24-hour TSP	147	ug/m3
TMCLKL	HY/2012/08	2019-10-29	ASR10	Sunny	11:09	24-hour TSP	68	ug/m3
TMCLKL	HY/2012/08	2019-10-29	ASR5	Sunny	11:31	24-hour TSP	145	ug/m3
TMCLKL	HY/2012/08	2019-10-29	ASR6	Sunny	11:20	24-hour TSP	94	ug/m3

Appendix H

Meteorological Data

	_	orological Data for Impact Monitoring in	
Date (yy-mm-dd)	Time (24hrs)	Average of Wind Speed (m/s)	Average of Wind Direction(degree)
19/10/02	0:00	0.4	231
19/10/02	1:00	0.5	216
19/10/02	2:00	0.6	170
19/10/02	3:00	0.3	2
19/10/02	4:00	0.5	47
19/10/02	5:00	0.2	51
19/10/02	6:00	0.8	51
19/10/02	7:00	0.4	73
19/10/02	8:00	0.5	37
19/10/02	9:00	0.6	36
19/10/02	10:00	0.6	53
19/10/02	11:00	0.9	71
19/10/02	12:00	0.4	77
19/10/02	13:00	0.5	77
19/10/02	14:00	0.4	79
19/10/02	15:00	0.5	101
19/10/02	16:00	0.5	41
19/10/02	17:00	0.7	44
19/10/02 19/10/02	18:00	0.7	46
19/10/02 19/10/02	19:00	0.5	45
19/10/02 19/10/02	20:00	0.8	1
19/10/02	21:00	0.5	23
19/10/02 19/10/02	22:00	0.6	357
19/10/02	23:00	0.7	35
19/10/03	0:00	0.7	40
19/10/03	1:00	0.5	31
19/10/03	2:00	0.2	355
19/10/03	3:00	0.4	20
19/10/03	4:00	0.5	13
19/10/03	5:00	0.8	6
19/10/03	6:00	0.4	8
19/10/03	7:00	0.6	26
19/10/03	8:00	0.7	327
19/10/03	9:00	0.5	48
19/10/03	10:00	0.6	99
19/10/03	11:00	0.9	67
19/10/03	12:00	1.1	101
19/10/03	13:00	1.5	93
19/10/03	14:00	1.2	87
19/10/03	15:00	1.1	100
19/10/03	16:00	0.8	80
19/10/03	17:00	0.7	61
19/10/03	18:00	0.6	12
19/10/03	19:00	0.4	337
19/10/03	20:00	0.8	317
19/10/03	21:00	0.5	343
19/10/03	22:00	0.6	287
19/10/03	23:00	0.7	355
19/10/05	0:00	0.3	159
19/10/05	1:00	0.6	173
19/10/05	2:00	0.4	168
19/10/05 19/10/05	3:00	0.4	167
19/10/05 19/10/05	4:00	0.5	
			47
19/10/05	5:00	0.7	3
19/10/05	6:00	0.4	2
19/10/05	7:00	0.8	354
19/10/05	8:00	73	25
19/10/05	9:00	0.4	34

	Mete	orological Data for Impact Monitoring in	n the reporting period
Date (yy-mm-dd)	Time (24hrs)	Average of Wind Speed (m/s)	Average of Wind Direction(degree)
19/10/05	10:00	0.5	72
19/10/05	11:00	0.4	141
19/10/05	12:00	0.6	145
19/10/05	13:00	0.3	109
19/10/05	14:00	0.4	101
19/10/05	15:00	0.2	82
19/10/05	16:00	0.3	97
19/10/05	17:00	0.3	79
19/10/05	18:00	0.4	290
19/10/05	19:00	0.5	322
19/10/05	20:00	0.9	316
19/10/05	21:00	1.1	324
19/10/05	22:00	1.4	276
19/10/05	23:00	1.2	284
19/10/05	0:00	1.8	246
19/10/06	1:00	2.1	311
19/10/06	2:00	1.4	323
19/10/06	3:00	1.5	306
19/10/06	4:00	1.5	309
19/10/06	5:00	1.3	339
19/10/06	6:00	1.6	290
19/10/06	7:00	1.4	213
19/10/06	8:00	1.2	216
19/10/06	9:00	1.6	227
19/10/06	10:00	1.4	227
19/10/06	11:00	1.3	233
19/10/06	12:00	1.8	225
19/10/06	13:00	2.1	229
19/10/06	14:00	1.7	215
19/10/06	15:00	1.5	196
19/10/06	16:00	1.6	213
19/10/06	17:00	1.4	213
19/10/06	18:00	1.3	213
19/10/06	19:00	1.4	204
19/10/06	20:00	1.6	238
19/10/06	21:00	1.5	255
19/10/06	22:00	1.7	239
19/10/06	23:00	1.8	216
19/10/08	0:00	0.6	321
19/10/08	1:00	0.5	275
19/10/08	2:00	0.5	279
19/10/08	3:00	0.9	239
19/10/08	4:00	0.8	228
19/10/08	5:00	0.5	278
19/10/08	6:00	0.4	268
19/10/08	7:00	0.6	229
19/10/08	8:00	0.5	266
19/10/08	9:00	0.3	281
19/10/08	10:00	0.4	230
19/10/08	11:00	0.3	217
19/10/08	12:00	0.2	248
19/10/08	13:00	0.4	278
19/10/08	14:00	0.7	277
19/10/08	15:00	0.9	313
19/10/08	16:00	1.1	305
19/10/08	17:00	1.2	306
19/10/08	18:00	1.3	302
19/10/08	19:00	1.1	295

		orological Data for Impact Monitoring in	
Date (yy-mm-dd)	Time (24hrs)	Average of Wind Speed (m/s)	Average of Wind Direction(degree)
19/10/08	20:00	1.2	326
19/10/08	21:00	1.4	320
19/10/08	22:00	1.5	279
19/10/08	23:00	1.2	267
19/10/09	0:00	1.3	305
19/10/09	1:00	1.6	340
19/10/09	2:00	1.4	266
19/10/09	3:00	1.2	269
19/10/09	4:00	1.3	266
19/10/09	5:00	1.9	265
19/10/09	6:00	2.1	269
19/10/09	7:00	2.4	267
19/10/09	8:00	2.2	261
19/10/09	9:00	2.3	342
19/10/09	10:00	2.1	300
19/10/09	11:00	2.2	316
19/10/09	12:00	2.1	317
19/10/09	13:00	1.9	303
			348
19/10/09	14:00	1.8	
19/10/09	15:00	1.6	314
19/10/09	16:00	1.9	313
19/10/09	17:00	1.3	314
19/10/09	18:00	1.3	334
19/10/09	19:00	1.3	304
19/10/09	20:00	1.3	333
19/10/09	21:00	1.3	39
19/10/09	22:00	1.3	4
19/10/09	23:00	1.3	44
19/10/11	0:00	0	-
19/10/11	1:00	0	-
19/10/11	2:00	0	-
19/10/11	3:00	0	-
19/10/11	4:00	0	-
19/10/11	5:00	0	-
19/10/11	6:00	0	-
19/10/11	7:00	0	-
19/10/11	8:00	0.4	178
19/10/11	9:00	0.4	321
19/10/11	10:00	0.9	309
19/10/11	11:00	1.3	303
19/10/11	12:00	1.3	347
19/10/11	13:00	0.9	340
19/10/11	14:00	0.9	347
		0.9	306
19/10/11	15:00		
19/10/11	16:00	0.4	188
19/10/11	17:00	0.4	157
19/10/11	18:00	0.4	344
19/10/11	19:00	0	-
19/10/11	20:00	0	-
19/10/11	21:00	0	-
19/10/11	22:00	0	-
19/10/11	23:00	0	-
19/10/12	0:00	0	-
19/10/12	1:00	0	-
19/10/12	2:00	0	-
19/10/12	3:00	0	-
19/10/12	4:00	0	-
19/10/12	5:00	0	-

	Mete	orological Data for Impact Monitoring in the	reporting period
Date (yy-mm-dd)	Time (24hrs)	Average of Wind Speed (m/s)	Average of Wind Direction(degree)
19/10/12	6:00	0	-
19/10/12	7:00	0	-
19/10/12	8:00	0	-
19/10/12	9:00	0.4	185
19/10/12	10:00	0.4	318
19/10/12	11:00	0.9	333
19/10/12	12:00	0.9	355
19/10/12	13:00	1.3	359
19/10/12	14:00	0.9	326
19/10/12	15:00	1.3	331
19/10/12	16:00	1.3	65
19/10/12	17:00	0.9	339
19/10/12	18:00	0.4	320
19/10/12	19:00	0.4	185
19/10/12	20:00	0	-
19/10/12	21:00	0.4	317
19/10/12	22:00	0.4	191
19/10/12	23:00	0	-
19/10/14	0:00	0.4	165
19/10/14	1:00	0.4	336
19/10/14	2:00	0.9	77
19/10/14	3:00	0.9	66
19/10/14	4:00	1.3	65
19/10/14	5:00	0.9	80
19/10/14	6:00	0.4	178
19/10/14	7:00	0.4	187
19/10/14	8:00	0	-
19/10/14	9:00	0.4	65
19/10/14	10:00	0.4	335
19/10/14	11:00	0.9	60
19/10/14	12:00	1.3	64
19/10/14	13:00	0.9	83
19/10/14	14:00	0.9	3
19/10/14	15:00	1.3	30
19/10/14	16:00	1.3	344
19/10/14	17:00	1.3	114
19/10/14	18:00	0.4	123
19/10/14	19:00	0.4	81
19/10/14	20:00	0.9	65
19/10/14	21:00	0.9	86
19/10/14	22:00	1.3	83
19/10/14	23:00	2.7	62
19/10/15	0:00	1.3	85
19/10/15	1:00	0.4	87
19/10/15	2:00	0	-
19/10/15	3:00	0.4	332
19/10/15	4:00	0	-
19/10/15	5:00	0.9	64
19/10/15	6:00	0.9	78
19/10/15	7:00	1.3	91
19/10/15	8:00	1.3	83
19/10/15	9:00	2.7	85
19/10/15	10:00	2.7	88
19/10/15	11:00	2.7	92
19/10/15	12:00	2.7	334
19/10/15	13:00	1.8	358
19/10/15	14:00	1.8	338
19/10/15	15:00	1.8	341

	Mete	orological Data for Impact Monitoring in the	reporting period
Date (yy-mm-dd)	Time (24hrs)	Average of Wind Speed (m/s)	Average of Wind Direction(degree)
19/10/15	16:00	1.8	355
19/10/15	17:00	1.8	331
19/10/15	18:00	1.8	333
19/10/15	19:00	1.8	341
19/10/15	20:00	1.3	334
19/10/15	21:00	1.3	5
19/10/15	22:00	1.3	326
19/10/15	23:00	2.2	331
19/10/17	0:00	0.4	153
19/10/17	1:00	0.4	108
19/10/17	2:00	0.4	7
19/10/17	3:00	0.4	69
19/10/17	4:00	0.4	183
19/10/17	5:00	0	-
19/10/17	6:00	0.4	111
19/10/17	7:00	1.3	101
19/10/17	8:00	2.2	67
19/10/17	9:00	1.8	84
19/10/17	10:00	1.3	98
19/10/17	11:00	1.8	67
19/10/17	12:00	1.3	98
19/10/17	13:00	1.8	44
19/10/17	14:00	1.3	56
19/10/17	15:00	0.9	74
19/10/17	16:00	0.9	27
19/10/17	17:00	0.9	329
19/10/17	18:00	0.9	345
19/10/17	19:00	0.9	356
19/10/17 19/10/17	20:00 21:00	0.9	337 351
19/10/17	22:00	1.3	335
19/10/17	23:00	1.3	339
19/10/18	0:00	0.9	4
19/10/18	1:00	0.4	88
19/10/18	2:00	0	-
19/10/18	3:00	0.4	81
19/10/18	4:00	0.9	56
19/10/18	5:00	0.4	28
19/10/18	6:00	1.3	70
19/10/18	7:00	1.8	75
19/10/18	8:00	1.8	41
19/10/18	9:00	1.3	96
19/10/18	10:00	1.8	56
19/10/18	11:00	0.9	86
19/10/18	12:00	0.4	307
19/10/18	13:00	1.3	318
19/10/18	14:00	0.9	321
19/10/18	15:00	0.9	336
19/10/18	16:00	0.9	344
19/10/18	17:00	0.4	175
19/10/18	18:00	0.4	168
19/10/18	19:00	0.4	173
19/10/18	20:00	0	-
19/10/18	21:00	0	-
19/10/18	22:00	0	- -
19/10/18	23:00	0	-
19/10/20	0:00	1.3	319
19/10/20	1:00	0.9	330
19/10/20	2:00	0	- -
19/10/20	3:00	0	- 24
19/10/20	4:00	0.4	34 303
19/10/20	5:00	υ.3	၂၁ပ၁

	Mete	orological Data for Impact Monitoring in	n the reporting period
Date (yy-mm-dd)	Time (24hrs)	Average of Wind Speed (m/s)	Average of Wind Direction(degree)
19/10/20	6:00	0.4	50
19/10/20	7:00	0.4	57
19/10/20	8:00	1.3	136
19/10/20	9:00	1.3	97
19/10/20	10:00	1.3	100
19/10/20	11:00	1.8	75
19/10/20	12:00	1.3	51
19/10/20	13:00	1.3	64
19/10/20	14:00	0.9	353
19/10/20	15:00	0.9	328
19/10/20	16:00	0.4	2
19/10/20	17:00	0.9	346
19/10/20	18:00	0.9	10
19/10/20	19:00	0.4	338
19/10/20	20:00	0.4	156
19/10/20	21:00	0.4	334
19/10/20	22:00	0.4	326
19/10/20	23:00	1.3	326
19/10/20	0:00	1.3	342
	1:00	0.4	331
19/10/21		0.4	
19/10/21	2:00	0.9	90 90
19/10/21	3:00		
19/10/21	4:00	0.4	48
19/10/21	5:00	0	
19/10/21	6:00	0	
19/10/21	7:00	0	-
19/10/21	8:00	0.4	66
19/10/21	9:00	1.3	81
19/10/21	10:00	1.3	65
19/10/21	11:00	1.3	68
19/10/21	12:00	1.3	47
19/10/21	13:00	0.9	36
19/10/21	14:00	0.9	320
19/10/21	15:00	1.3	6
19/10/21	16:00	0.9	325
19/10/21	17:00	1.3	326
19/10/21	18:00	1.3	340
19/10/21	19:00	2.2	343
19/10/21	20:00	1.8	336
19/10/21	21:00	1.8	328
19/10/21	22:00	1.3	337
19/10/21	23:00	1.3	315
19/10/23	0:00	1.8	344
19/10/23	1:00	0.9	306
19/10/23	2:00	0.9	72
19/10/23	3:00	1.3	337
19/10/23	4:00	0.9	342
19/10/23	5:00	0.4	330
19/10/23	6:00	0.4	296
19/10/23	7:00	0	-
19/10/23	8:00	0.9	79
19/10/23	9:00	1.3	90
19/10/23	10:00	1.3	42
19/10/23	11:00	1.8	84
19/10/23	12:00	1.8	93
19/10/23	13:00	3.1	135
19/10/23	14:00	2.7	127
19/10/23	15:00	3.1	135
		2.7	121
19/10/23	16:00		
19/10/23	17:00	3.1	139
19/10/23	18:00	3.1	133
19/10/23	19:00	2.2	79
19/10/23	20:00	1.8	62

	Mete	orological Data for Impact Monitoring in	
Date (yy-mm-dd)	Time (24hrs)	Average of Wind Speed (m/s)	Average of Wind Direction(degree)
19/10/23	21:00	1.3	35
19/10/23	22:00	0.9	33
19/10/23	23:00	0.9	19
19/10/24	0:00	0.9	19
19/10/24	1:00	1.3	64
19/10/24	2:00	0.9	45
19/10/24	3:00	0.9	3
19/10/24	4:00	0.4	7
19/10/24	5:00	0.4	21
19/10/24	6:00	0.9	29
19/10/24	7:00	0.4	355
19/10/24	8:00	0.9	20
19/10/24	9:00	1.3	28
19/10/24	10:00	1.8	125
19/10/24	11:00	1.8	128
19/10/24	12:00	1.8	129
19/10/24	13:00	2.7	128
19/10/24	14:00	2.7	124
19/10/24	15:00	2.2	130
19/10/24	16:00	2.7	139
19/10/24	17:00	1.8	132
19/10/24	18:00	1.8	126
19/10/24	19:00	2.7	135
19/10/24	20:00	1.3	39
19/10/24	21:00	1.3	56
19/10/24	22:00	1.3	47
19/10/24	23:00	0.9	45
19/10/26	0:00	1.3	47
19/10/26	1:00	1.8	59
19/10/26	2:00	1.8	55
19/10/26	3:00	1.3	39
19/10/26	4:00	0.9	11
19/10/26	5:00	0.9	33
19/10/26	6:00	0.9	11
19/10/26	7:00	0.9	48
19/10/26	8:00	1.3	25
19/10/26	9:00	1.8	95
19/10/26	10:00	2.7	98
19/10/26	11:00	2.2	123
19/10/26	12:00	2.7	130
19/10/26	13:00	2.7	83
19/10/26	14:00	2.2	95
19/10/26	15:00	2.2	84
19/10/26	16:00	1.8	89
19/10/26	17:00	2.2	109
19/10/26	18:00	2.2	112
19/10/26	19:00	1.8	83
19/10/26	20:00	1.8	64
19/10/26	21:00	1.3	27
19/10/26	22:00	0.9	31
19/10/26	23:00	0.9	20
19/10/27	0:00	1.3	20
19/10/27	1:00	0.9	55
19/10/27	2:00	1.3	28
19/10/27	3:00	1.8	19
19/10/27	4:00	1.3	32
19/10/27	5:00	1.3	3
19/10/27	6:00	1.3	26
19/10/27	7:00	1.3	31
19/10/27	8:00	1.3	27
19/10/27	9:00	0.9	33
19/10/27		0.9	142
	10:00	0.9	
19/10/27	11:00	JO.3	156

Time (24hrs)	Average of Wind Speed (m/s)	Average of Wind Direction(degree)
12.00	1 \ ""/	Average of white Direction (degree)
12:00	1.3	222
13:00	1.3	165
14:00	0.9	164
15:00	1.3	268
16:00	0.9	264
17:00	0.9	286
18:00	0.4	313
19:00	0	-
20:00	0	-
21:00	0.9	312
22:00	0.9	96
23:00	1.3	53
0:00	1.3	272
1:00	1.8	310
2:00	1.3	282
3:00	0.9	280
4:00	0.9	292
5:00	0.9	290
6:00	0.9	290
7:00	2.7	326
8:00	3.6	19
9:00	3.6	16
10:00	2.7	13
11:00	2.7	34
12:00	1.8	29
13:00	1.8	11
14:00	1.8	34
15:00	1.3	19
16:00	0.9	27
17:00	0.4	6
18:00	0.9	358
19:00	0.4	29
20:00	0	-
21:00	0	-
22:00	0	-
23:00	1.3	22
0:00	1.8	24
1:00	1.8	22
2:00	2.2	23
3:00	1.8	12
4:00	1.8	25
5:00	2.2	20
6:00	1.8	33
7:00	2.2	20
8:00	2.2	19
	1.8	30
		18
		32
		28
	1.3	2
	1.3	24
	1.8	356
		358
		338
		313
		313
		26
		28
		344
		27
	14:00 15:00 16:00 17:00 18:00 19:00 20:00 21:00 22:00 23:00 0:00 1:00 2:00 3:00 4:00 5:00 6:00 7:00 8:00 11:00	14:00

Appendix I

Impact Dolphin Monitoring Survey

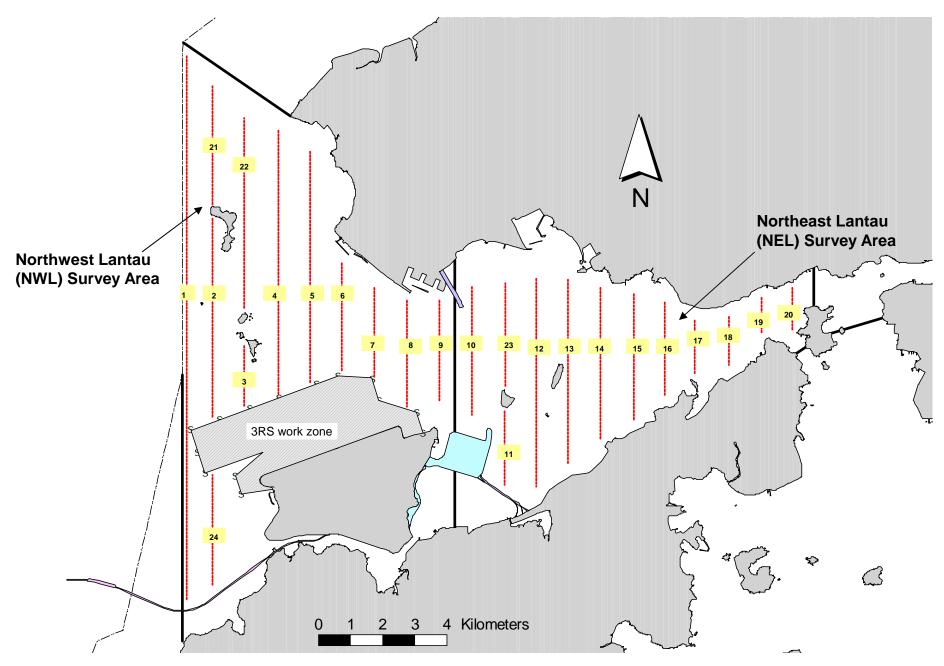


Figure 1. Transect Line Layout in Northwest and Northeast Lantau Survey Areas

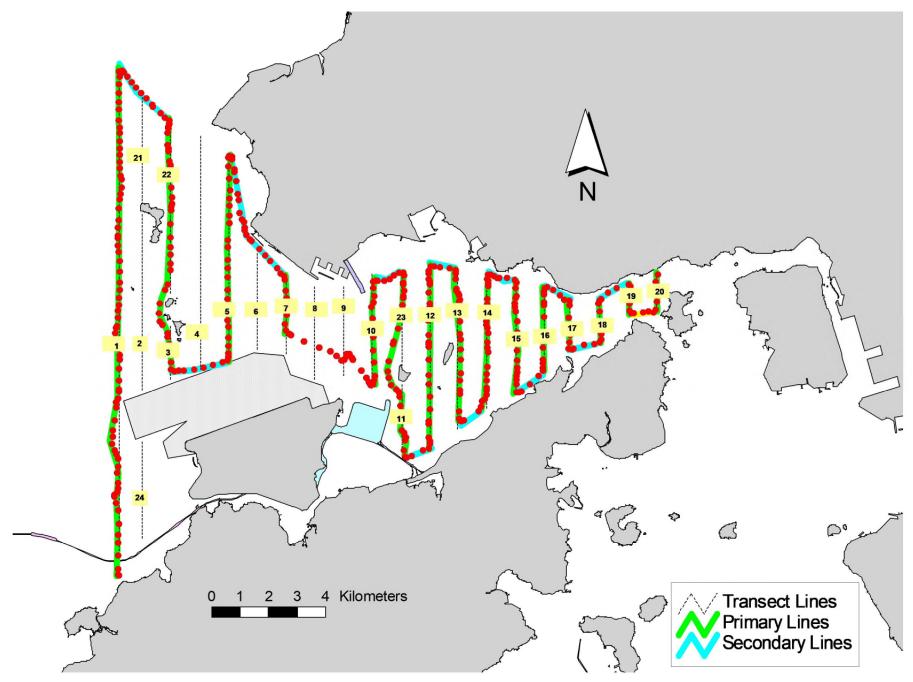


Figure 2. Survey Route on October 8th, 2019

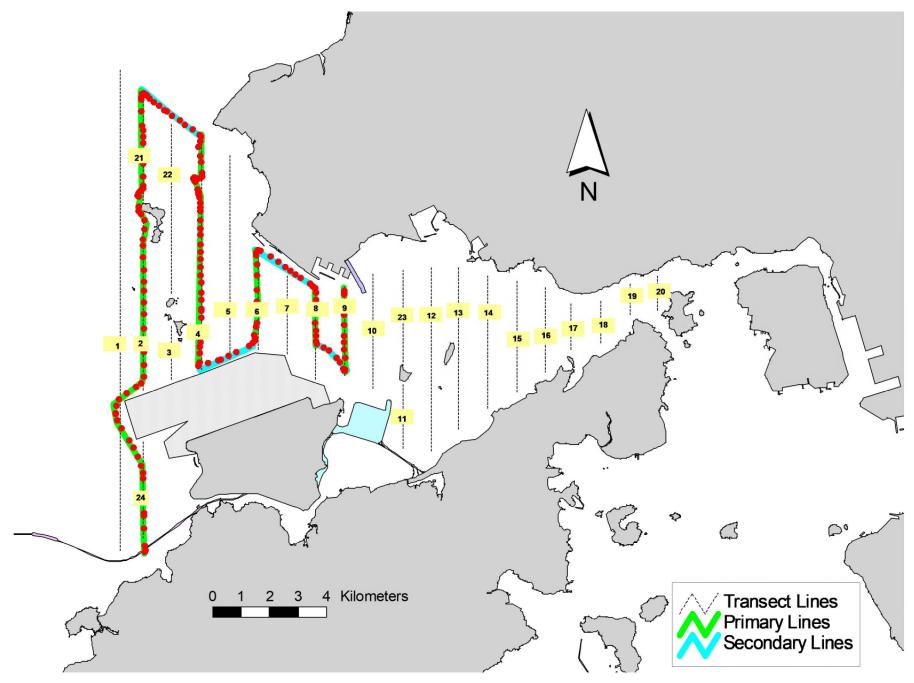


Figure 3. Survey Route on October 9th, 2019

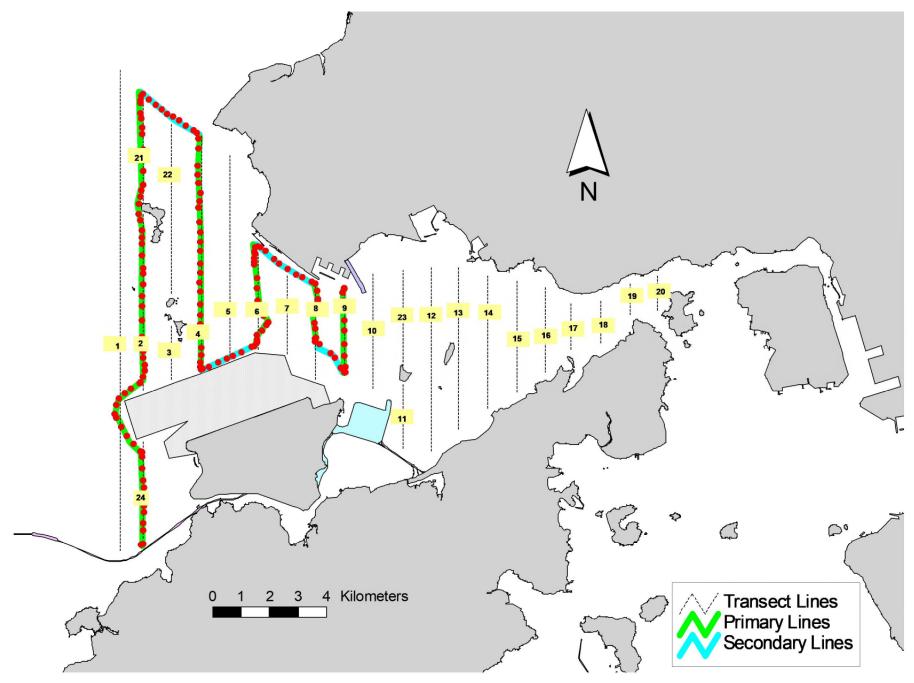


Figure 4. Survey Route on October 14th, 2019

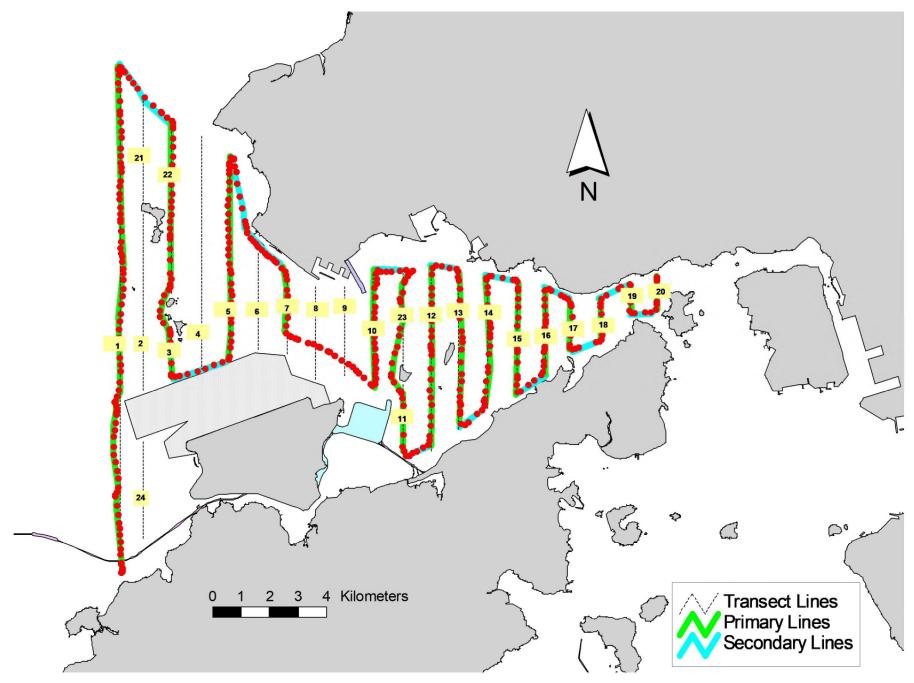


Figure 5. Survey Route on October 29th, 2019

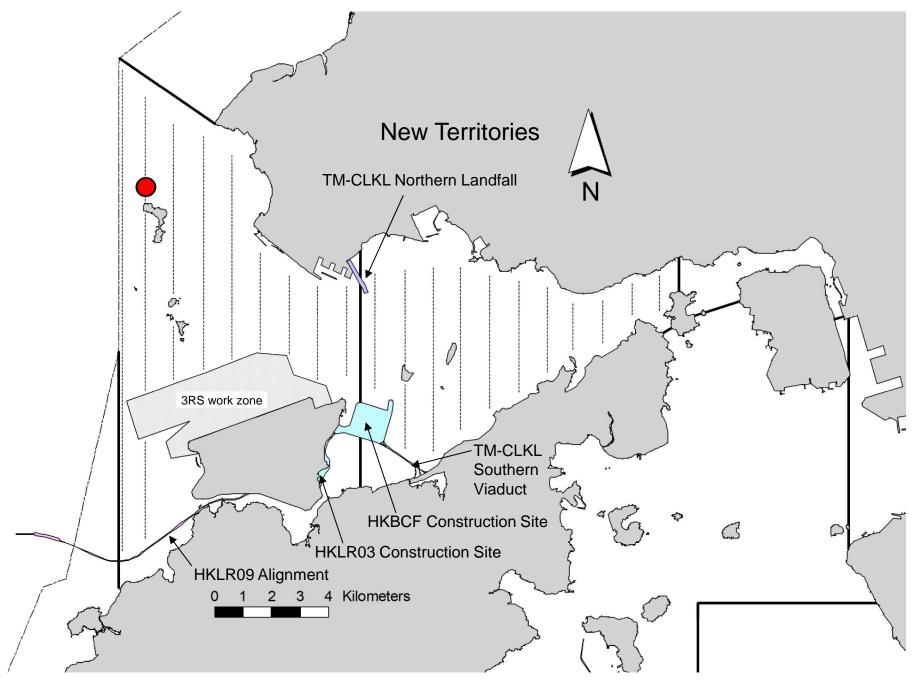


Figure 6. Distribution of Chinese White Dolphin Sightings during October 2019 Monitoring Surveys

Appendix I. TMCLKL Survey Effort Database (October 2019)

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

DATE	AREA	BEAU	EFFORT	SEASON	VESSEL	TYPE	P/S
8-Oct-19	NW LANTAU	1	3.70	AUTUMN	STANDARD36826	TMCLKL	Р
8-Oct-19	NW LANTAU	2	23.60	AUTUMN	STANDARD36826	TMCLKL	Р
8-Oct-19	NW LANTAU	3	5.20	AUTUMN	STANDARD36826	TMCLKL	Р
8-Oct-19	NW LANTAU	2	8.30	AUTUMN	STANDARD36826	TMCLKL	S
8-Oct-19	NW LANTAU	3	2.80	AUTUMN	STANDARD36826	TMCLKL	S
8-Oct-19	NE LANTAU	2	11.50	AUTUMN	STANDARD36826	TMCLKL	Р
8-Oct-19	NE LANTAU	3	21.93	AUTUMN	STANDARD36826	TMCLKL	Р
8-Oct-19	NE LANTAU	2	5.40	AUTUMN	STANDARD36826	TMCLKL	S
8-Oct-19	NE LANTAU	3	8.87	AUTUMN	STANDARD36826	TMCLKL	S
9-Oct-19	NW LANTAU	2	7.77	AUTUMN	STANDARD36826	TMCLKL	Р
9-Oct-19	NW LANTAU	3	19.26	AUTUMN	STANDARD36826	TMCLKL	Р
9-Oct-19	NW LANTAU	2	4.33	AUTUMN	STANDARD36826	TMCLKL	S
9-Oct-19	NW LANTAU	3	8.44	AUTUMN	STANDARD36826	TMCLKL	S
14-Oct-19	NW LANTAU	1	3.10	AUTUMN	STANDARD36826	TMCLKL	Р
14-Oct-19	NW LANTAU	2	24.38	AUTUMN	STANDARD36826	TMCLKL	Р
14-Oct-19	NW LANTAU	1	1.60	AUTUMN	STANDARD36826	TMCLKL	S
14-Oct-19	NW LANTAU	2	11.62	AUTUMN	STANDARD36826	TMCLKL	S
29-Oct-19	NW LANTAU	2	7.60	AUTUMN	STANDARD36826	TMCLKL	Р
29-Oct-19	NW LANTAU	3	14.90	AUTUMN	STANDARD36826	TMCLKL	Р
29-Oct-19	NW LANTAU	4	10.10	AUTUMN	STANDARD36826	TMCLKL	Р
29-Oct-19	NW LANTAU	2	5.10	AUTUMN	STANDARD36826	TMCLKL	S
29-Oct-19	NW LANTAU	3	6.10	AUTUMN	STANDARD36826	TMCLKL	S
29-Oct-19	NE LANTAU	2	31.08	AUTUMN	STANDARD36826	TMCLKL	Р
29-Oct-19	NE LANTAU	3	4.40	AUTUMN	STANDARD36826	TMCLKL	Р
29-Oct-19	NE LANTAU	2	12.30	AUTUMN	STANDARD36826	TMCLKL	S

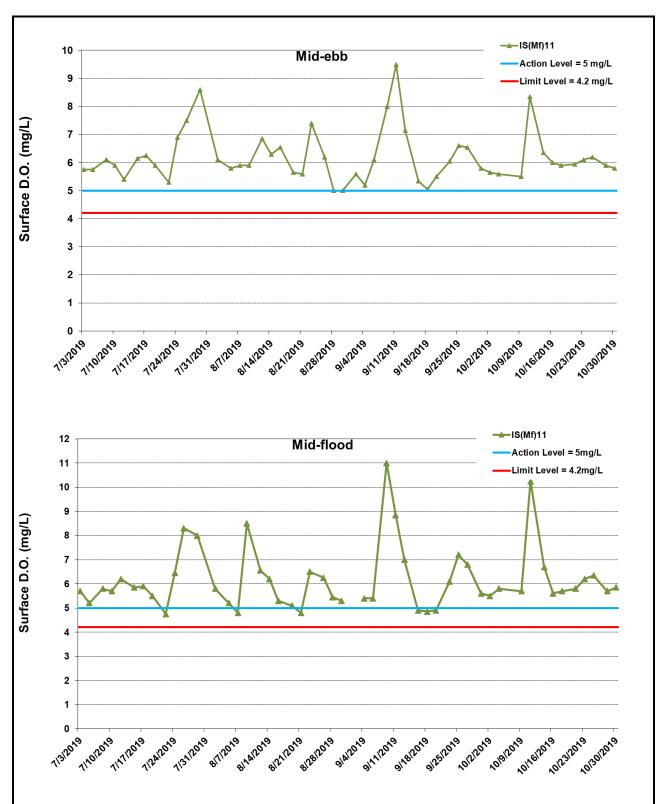
Appendix II. TMCLKL Chinese White Dolphin Sighting Database (October 2019)

(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
9-Oct-1	9 1	1221	1	NW LANTAU	3	57	ON	TMCLKL	827538	805469	AUTUMN	NONE	Р

Appendix J

Impact Water Quality Monitoring Results

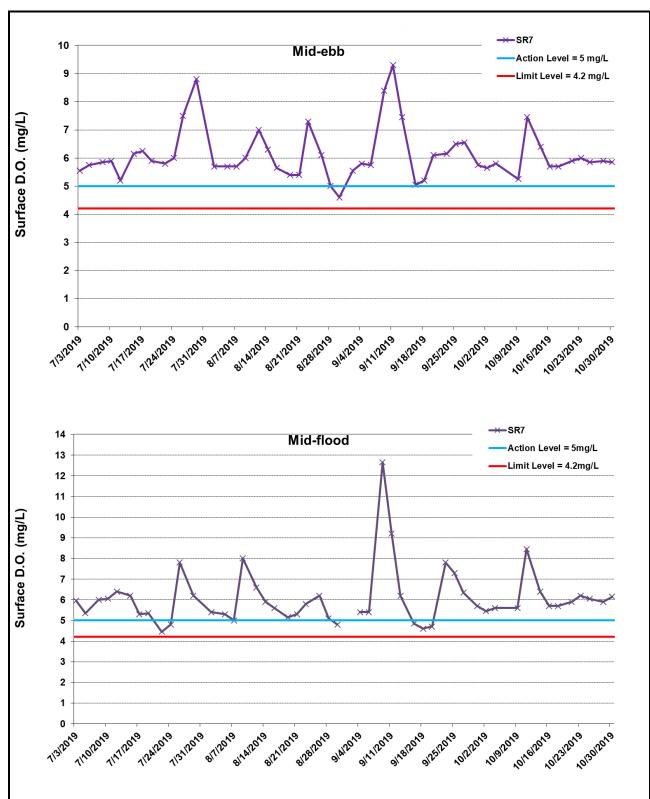


^{*} The AL/LL for WQM stations, IS(Mf)11, IS17 and SR7, are adopted from HZMB HKBCF project.

Figure J1 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in surface waters between 1 July 2019 and 31 October 2019 at IS(Mf)11. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/7/2019 – 31/10/2019).



^{*}Exceedances of Dissolved oxygen level are calculated based on average value of data from both Surface and Middle level, and bottom level separately.

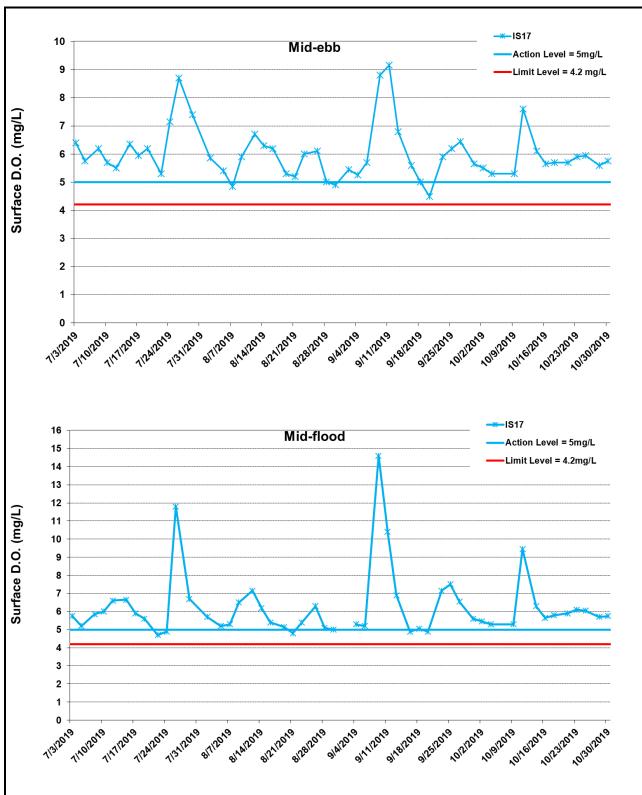


^{*} The AL/LL for WQM stations, IS(Mf)11, IS17 and SR7, are adopted from HZMB HKBCF project.

Figure J2 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in surface waters between 1 July 2019 and 31 October 2019 at SR7. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/7/2019 – 31/10/2019).



^{*}Exceedances of Dissolved oxygen level are calculated based on average value of data from both Surface and Middle level, and bottom level separately.

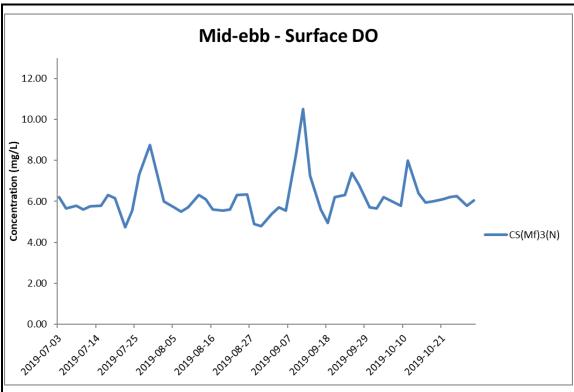


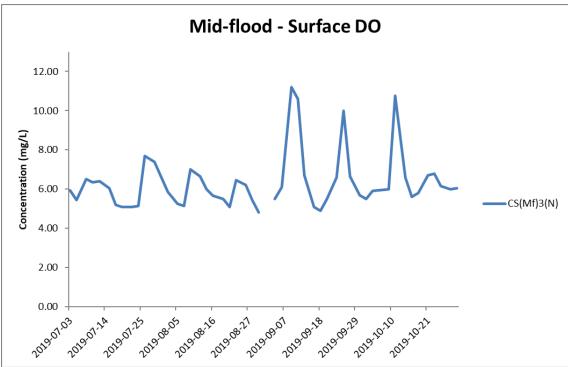
^{*} The AL/LL for WQM stations, IS(Mf)11, IS17 and SR7, are adopted from HZMB HKBCF project.

Figure J3 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in surface waters between 1 July 2019 and 31 October 2019 at IS(Mf)11. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/7/2019 – 31/10/2019).



^{*}Exceedances of Dissolved oxygen level are calculated based on average value of data from both Surface and Middle level, and bottom level separately.

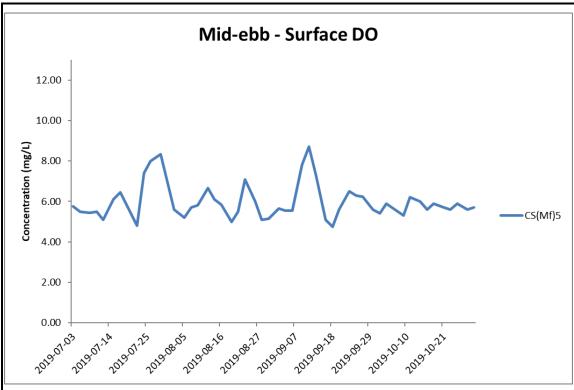


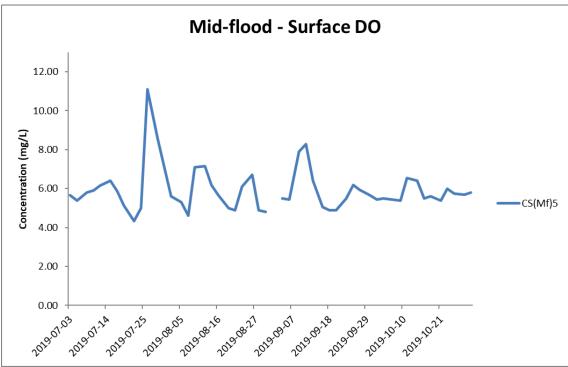


^{*}Exceedances of Dissolved oxygen level are calculated based on average value of data from both Surface and Middle level, and bottom level separately.

Figure J4 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in surface waters between 1 July 2019 and 31 October 2019 at CS(Mf)3(N). The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/7/2019 – 31/10/2019).



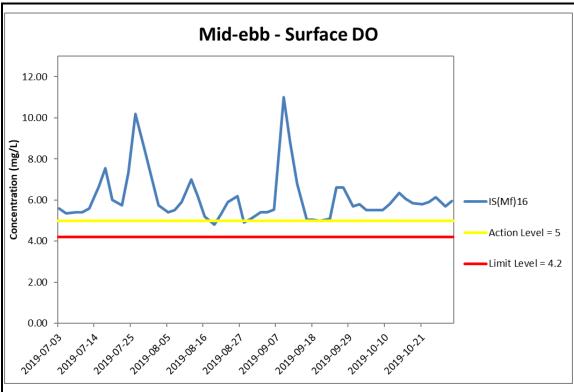


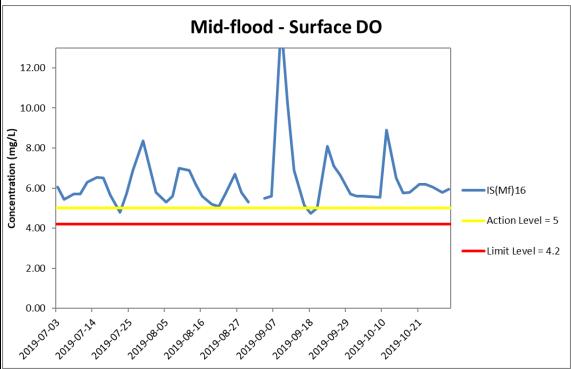


^{*}Exceedances of Dissolved oxygen level are calculated based on average value of data from both Surface and Middle level, and bottom level separately.

Figure J5 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in surface waters between 1 July 2019 and 31 October 2019 at CS(Mf)5. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/7/2019 – 31/10/2019).





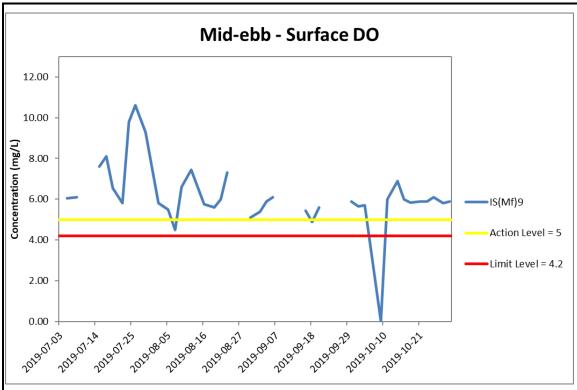


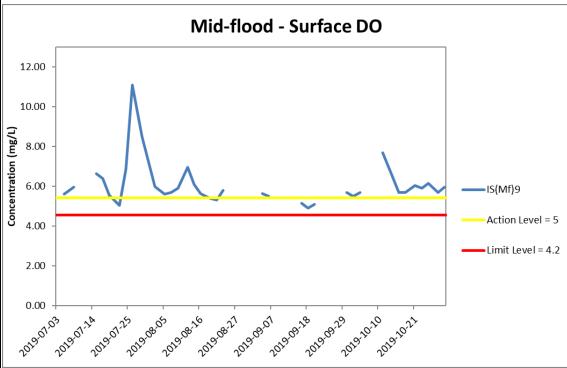
^{*}Exceedances of Dissolved oxygen level are calculated based on average value of data from both Surface and Middle level, and bottom level separately.

Figure J6 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in surface waters between 1 July 2019 and 31 October 2019 at IS(Mf)16. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/7/2019 – 31/10/2019).



 $Ref: \qquad 0212330_Impact-WQM_October2019_graphs_Rev\ a.xls$

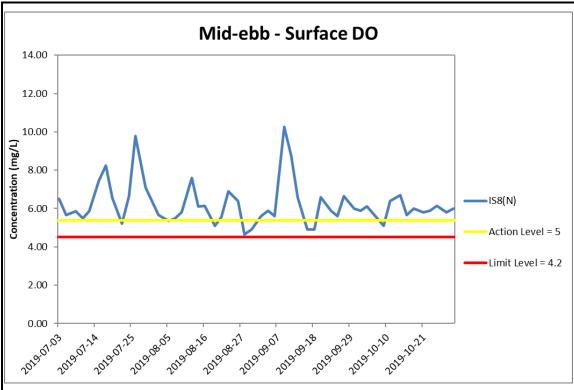


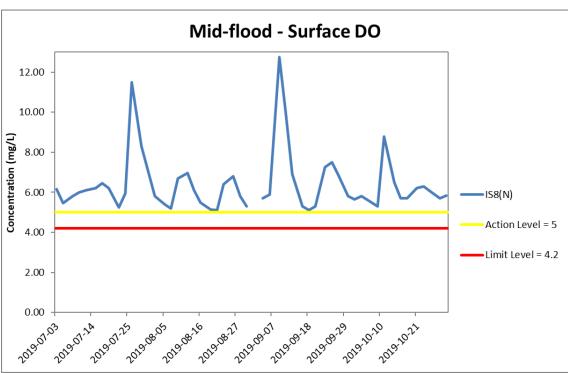


^{*}Exceedances of Dissolved oxygen level are calculated based on average value of data from both Surface and Middle level, and bottom level separately.

Figure J7 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in surface waters between 1 July 2019 and 31 October 2019 at IS(Mf)9. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/7/2019 – 31/10/2019).



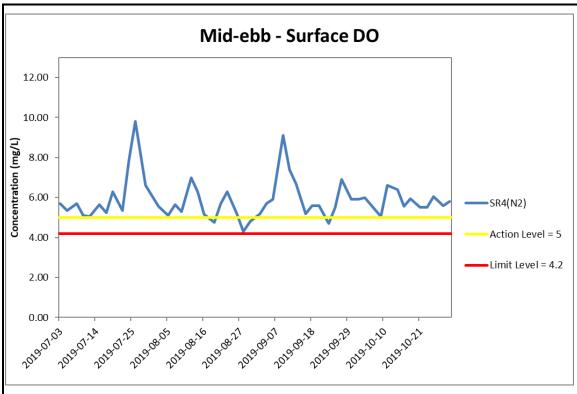


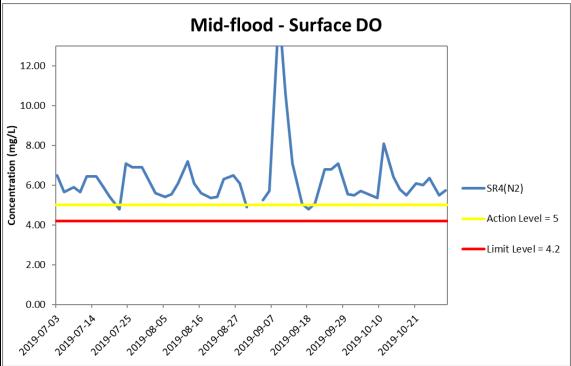


^{*}Exceedances of Dissolved oxygen level are calculated based on average value of data from both Surface and Middle level, and bottom level separately.

Figure J8 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in surface waters between 1 July 2019 and 31 October 2019 at IS8(N). The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/7/2019 – 31/10/2019).



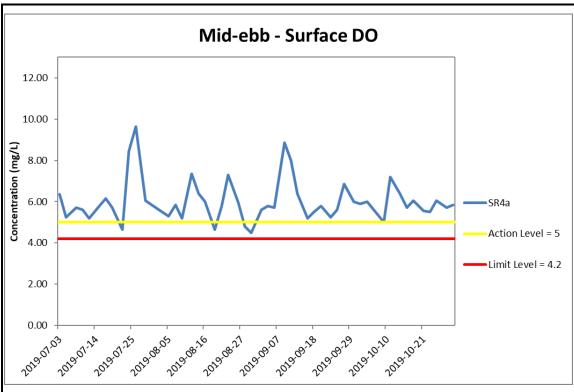


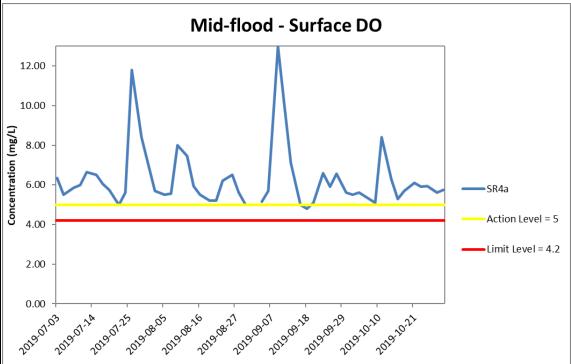


^{*}Exceedances of Dissolved oxygen level are calculated based on average value of data from both Surface and Middle level, and bottom level separately.

Figure J9 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in surface waters between 1 July 2019 and 31 October 2019 at SR4(N2). The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/7/2019 – 31/10/2019).



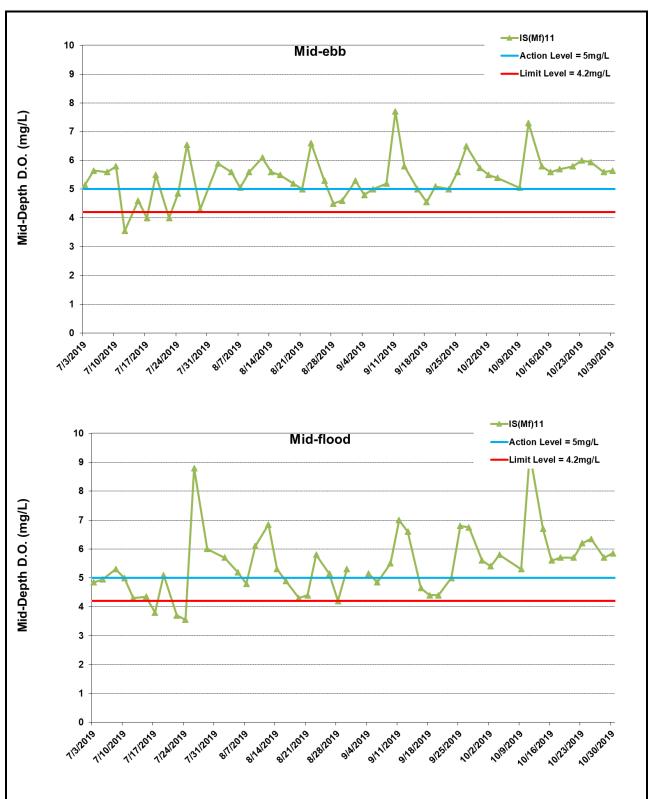




*Exceedances of Dissolved oxygen level are calculated based on average value of data from both Surface and Middle level, and bottom level separately.

Figure J10 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in surface waters between 1 July 2019 and 31 October 2019 at SR4a. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/7/2019 - 31/10/2019).





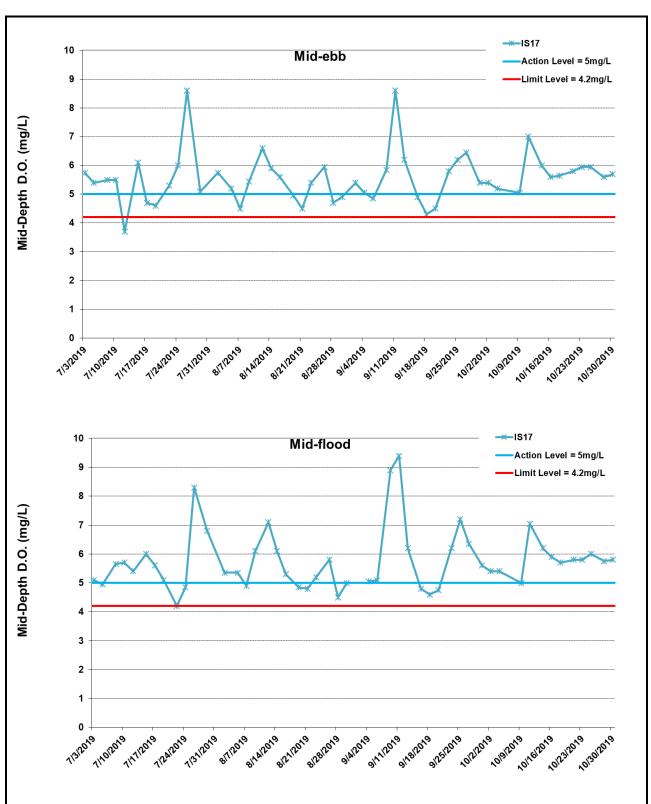
^{*} The AL/LL for WQM stations, IS(Mf)11, IS17 and SR7, are adopted from HZMB HKBCF project.

Figure J11 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in middepth waters between 1 July 2019 and 31 October 2019 at IS(Mf)11. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/7/2019 – 31/10/2019).



^{*}No data for Stations SR7 due to shallow water depth (< 6m).

^{*}Exceedances of Dissolved oxygen level are calculated based on average value of data from both Surface and Middle level, and bottom level separately.



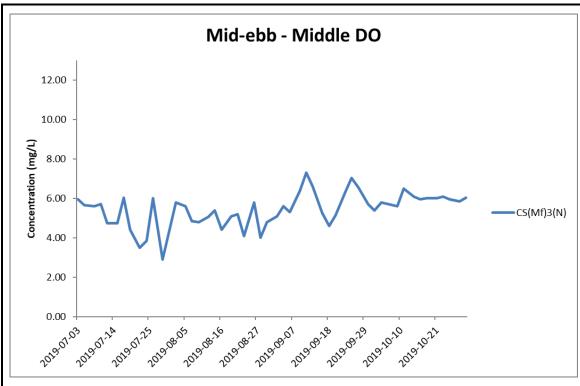
^{*} The AL/LL for WQM stations, IS(Mf)11, IS17 and SR7, are adopted from HZMB HKBCF project.

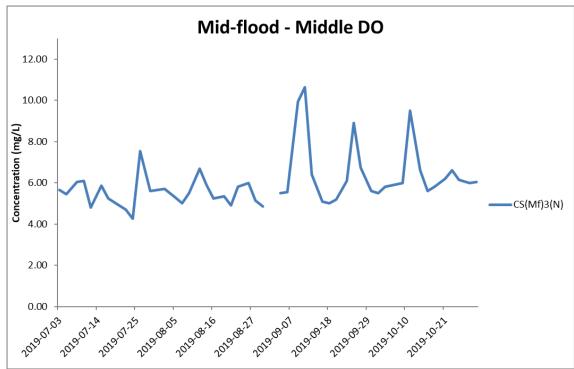
Figure J12 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in middepth waters between 1 July 2019 and 31 October 2019 at IS17. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/7/2019 – 31/10/2019).



^{*}No data for Stations SR7 due to shallow water depth (< 6m).

^{*}Exceedances of Dissolved oxygen level are calculated based on average value of data from both Surface and Middle level, and bottom level separately.

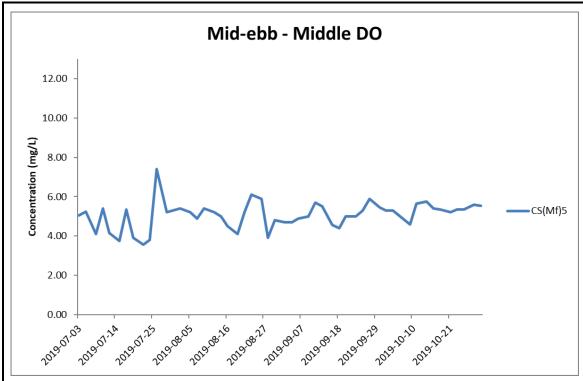


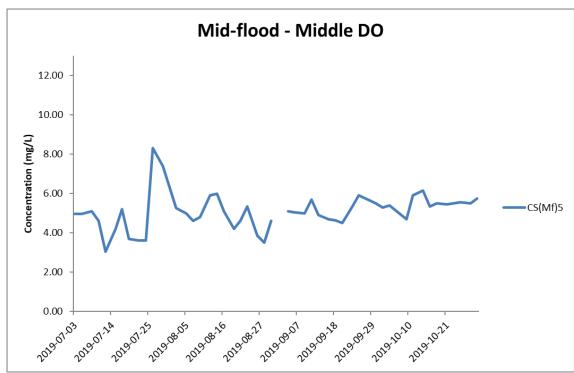


^{*}Exceedances of Dissolved oxygen level are calculated based on average value of data from both Surface and Middle level, and bottom level separately.

Figure J13 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in middepth waters between 1 July 2019 and 31 October 2019 at CS(Mf)3(N). The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/7/2019 - 31/10/2019).



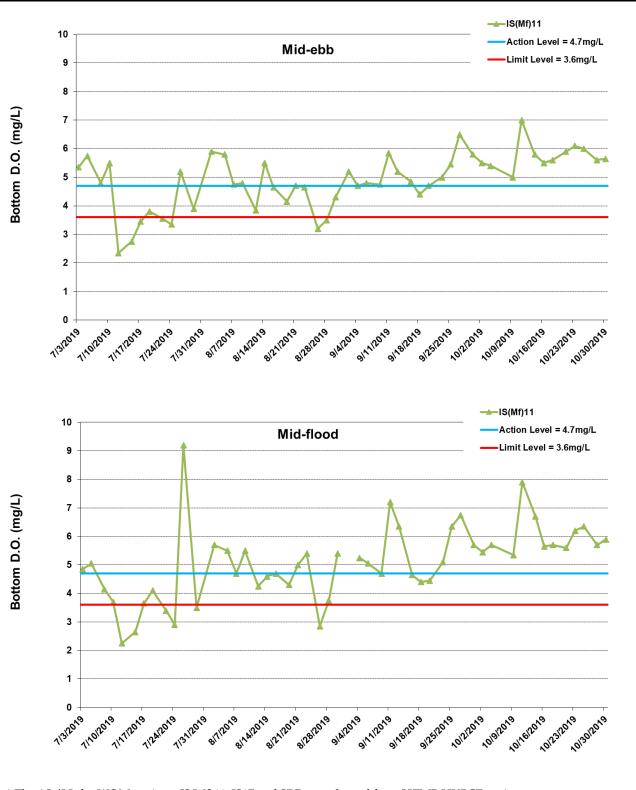




^{*}Exceedances of Dissolved oxygen level are calculated based on average value of data from both Surface and Middle level, and bottom level separately.

Figure J14 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in middepth waters between 1 July 2019 and 31 October 2019 at CS(Mf)5. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/7/2019 – 31/10/2019).



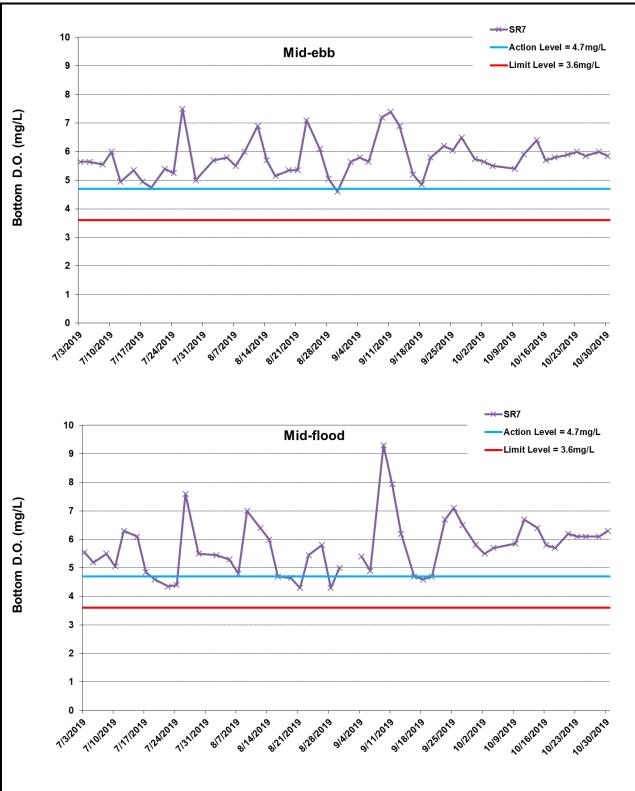


^{*} The AL/LL for WQM stations, IS(Mf)11, IS17 and SR7, are adopted from HZMB HKBCF project.

Figure J15 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in bottom water between 1 July 2019 and 31 October 2019 at IS(Mf)11. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/7/2019 – 31/10/2019).



^{*}Exceedances of Dissolved oxygen level are calculated based on average value of data from both Surface and Middle level, and bottom level separately.

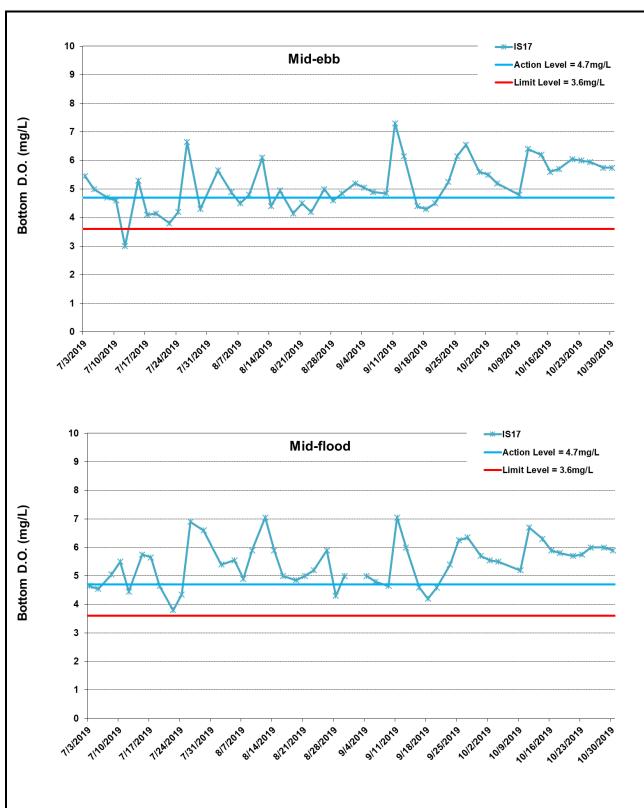


^{*} The AL/LL for WQM stations, IS(Mf)11, IS17 and SR7, are adopted from HZMB HKBCF project.

Figure J16 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in bottom water between 1 July 2019 and 31 October 2019 at SR7. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/7/2019 – 31/10/2019).



^{*}Exceedances of Dissolved oxygen level are calculated based on average value of data from both Surface and Middle level, and bottom level separately.

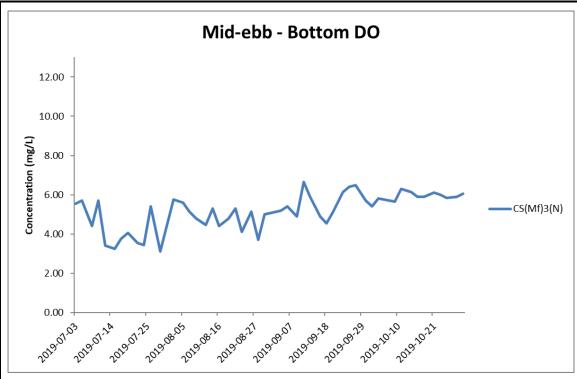


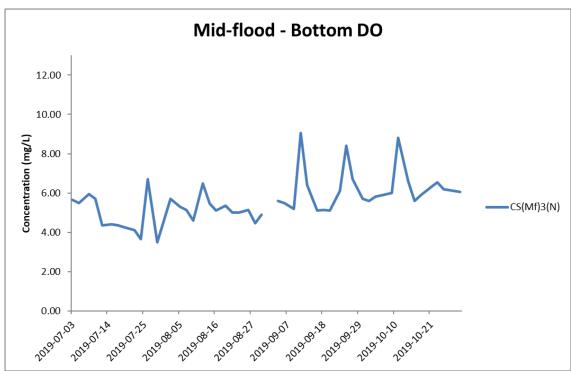
^{*} The AL/LL for WQM stations, IS(Mf)11, IS17 and SR7, are adopted from HZMB HKBCF project.

Figure J17 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in bottom water between 1 July 2019 and 31 October 2019 at IS17. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/7/2019 – 31/10/2019).



^{*}Exceedances of Dissolved oxygen level are calculated based on average value of data from both Surface and Middle level, and bottom level separately.

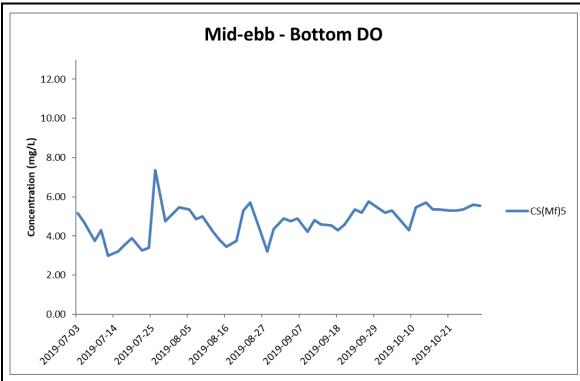


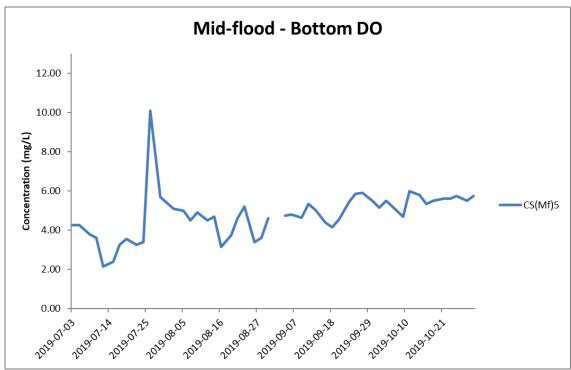


^{*}Exceedances of Dissolved oxygen level are calculated based on average value of data from both Surface and Middle level, and bottom level separately.

Figure J18 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in bottom water between 1 July 2019 and 31 October 2019 at CS(Mf)3(N). The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/7/2019 - 31/10/2019).



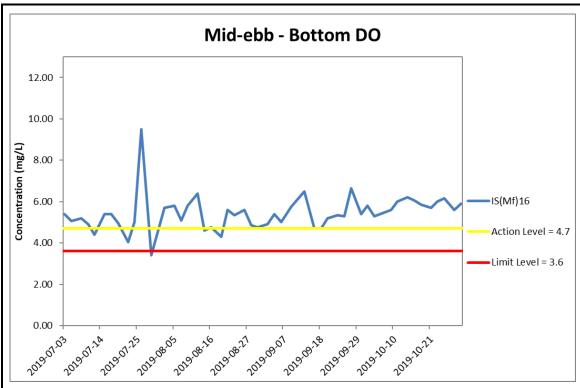


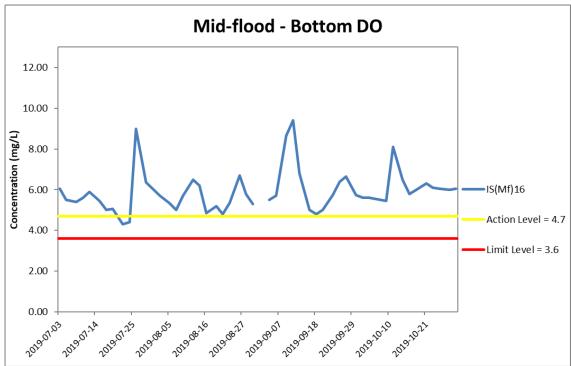


^{*}Exceedances of Dissolved oxygen level are calculated based on average value of data from both Surface and Middle level, and bottom level separately.

Figure J19 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in bottom water between 1 July 2019 and 31 October 2019 at CS(Mf)5. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/7/2019 – 31/10/2019).



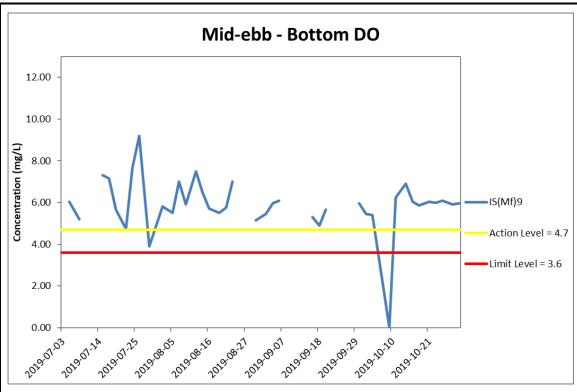


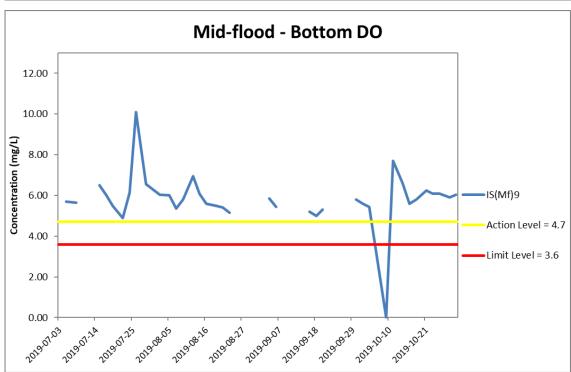


*Exceedances of Dissolved oxygen level are calculated based on average value of data from both Surface and Middle level, and bottom level separately.

Figure J20 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in bottom water between 1 July 2019 and 31 October 2019 at IS(Mf)16. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/7/2019 – 31/10/2019).



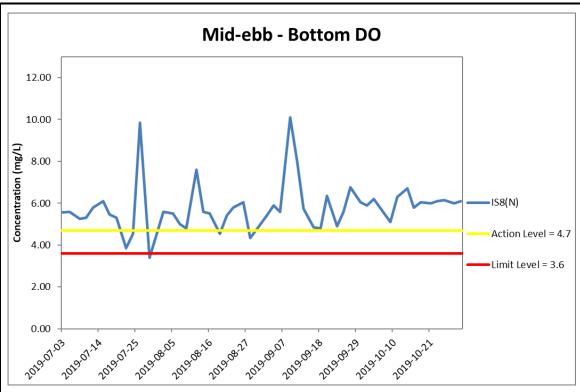


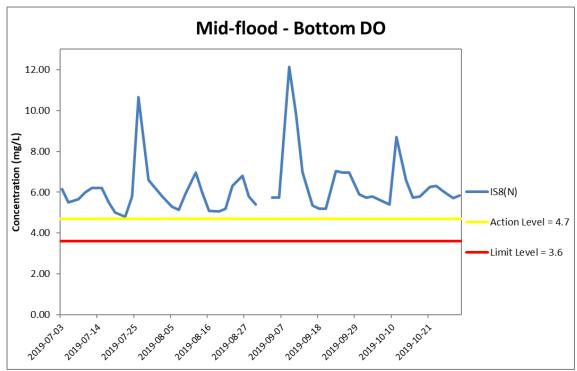


^{*}Exceedances of Dissolved oxygen level are calculated based on average value of data from both Surface and Middle level, and bottom level separately.

Figure J21 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in bottom water between 1 July 2019 and 31 October 2019 at IS(Mf)9. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/7/2019 – 31/10/2019).



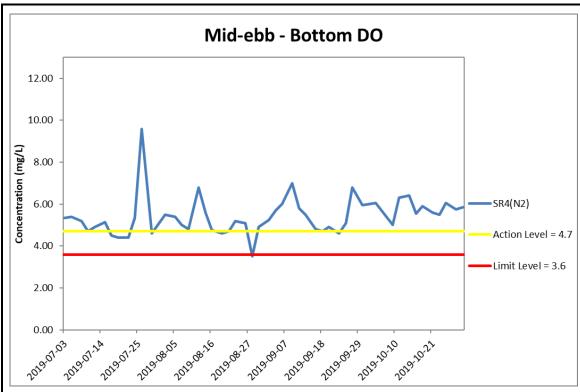


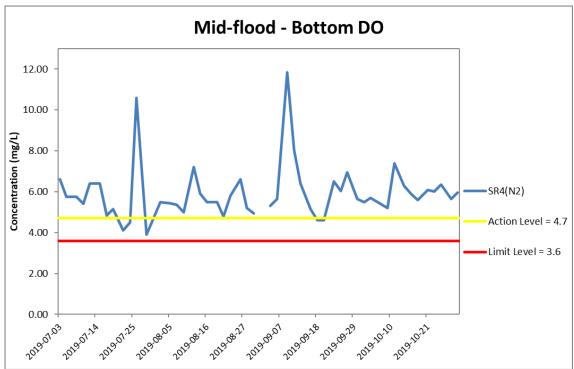


^{*}Exceedances of Dissolved oxygen level are calculated based on average value of data from both Surface and Middle level, and bottom level separately.

Figure J22 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in bottom water between 1 July 2019 and 31 October 2019 at IS8(N). The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/7/2019 – 31/10/2019).



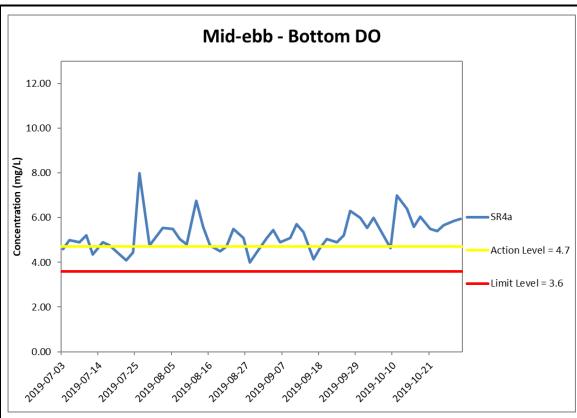


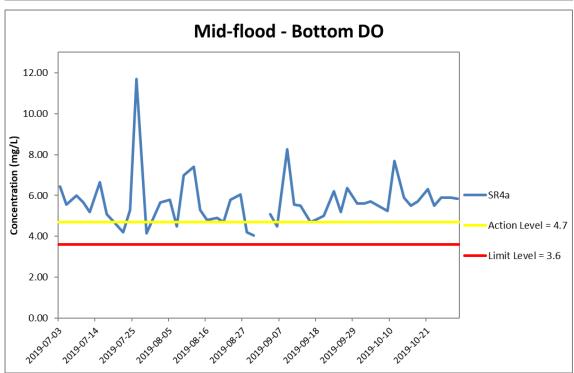


^{*}Exceedances of Dissolved oxygen level are calculated based on average value of data from both Surface and Middle level, and bottom level separately.

Figure J23 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in bottom water between 1 July 2019 and 31 October 2019 at SR4(N2). The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/7/2019 – 31/10/2019).



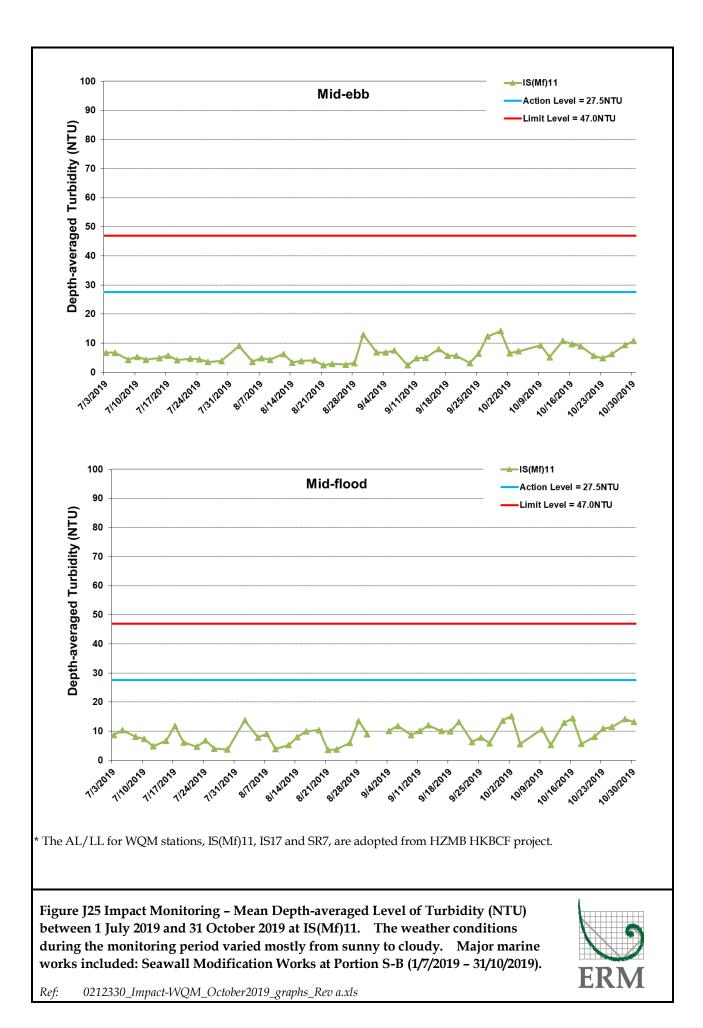




^{*}Exceedances of Dissolved oxygen level are calculated based on average value of data from both Surface and Middle level, and bottom level separately.

Figure J24 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in bottom water between 1 July 2019 and 31 October 2019 at SR4a. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/7/2019 - 31/10/2019).





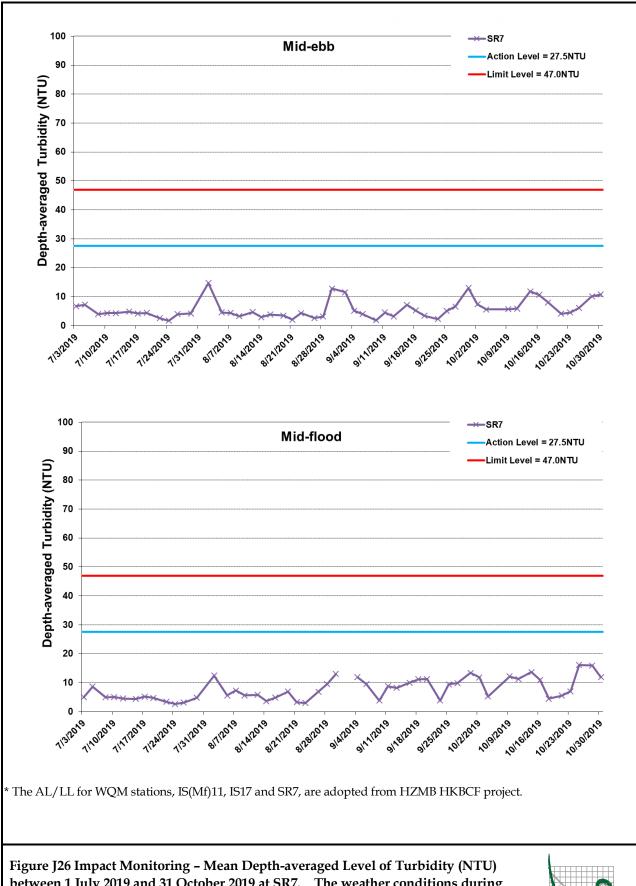
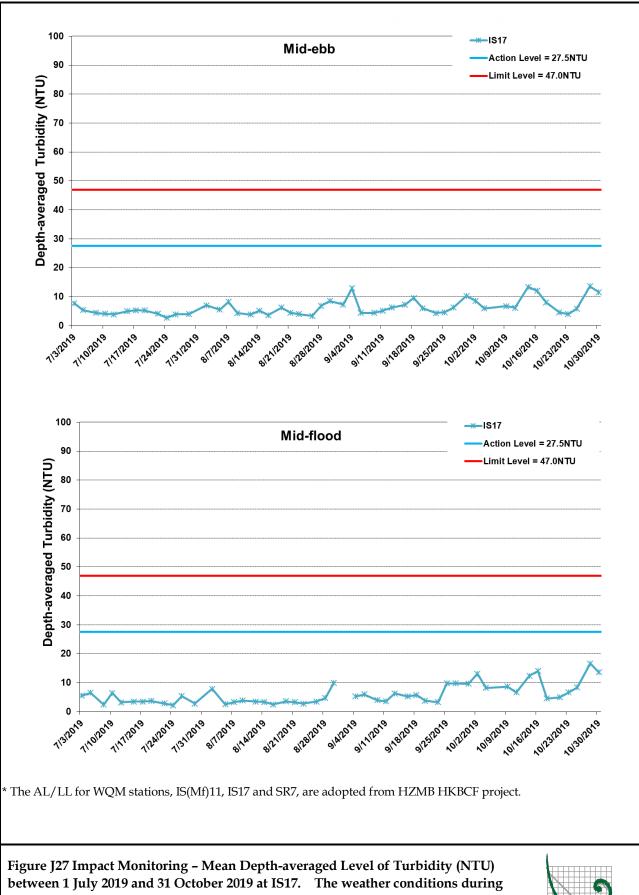


Figure J26 Impact Monitoring – Mean Depth-averaged Level of Turbidity (NTU) between 1 July 2019 and 31 October 2019 at SR7. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/7/2019 – 31/10/2019).

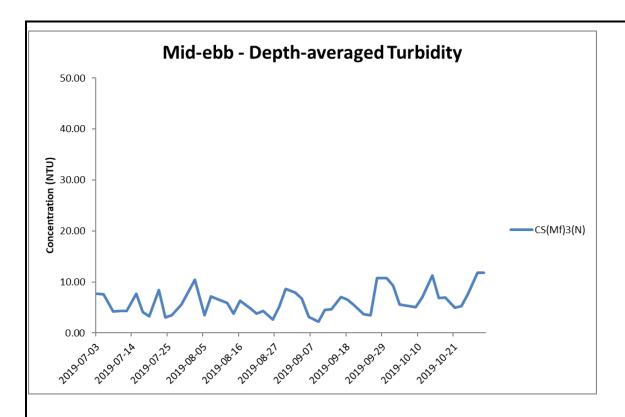


 $Ref: \qquad 0212330_Impact-WQM_October2019_graphs_Rev\ a.xls$



the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/7/2019 - 31/10/2019).





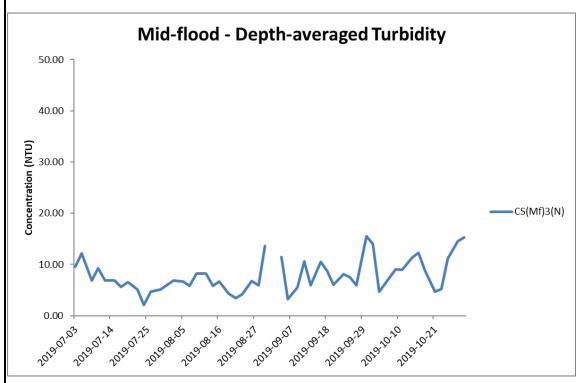
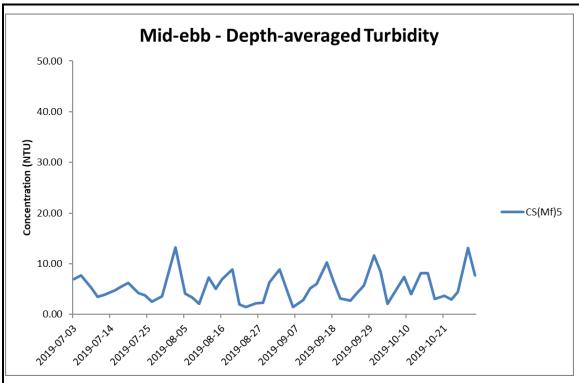


Figure J28 Impact Monitoring – Mean Depth-averaged Level of Turbidity (NTU) between 1 July 2019 and 31 October 2019 at CS(Mf)3(N). The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/7/2019 – 31/10/2019).



 $Ref: \qquad 0212330_Impact-WQM_October2019_graphs_Rev\ a.xls$



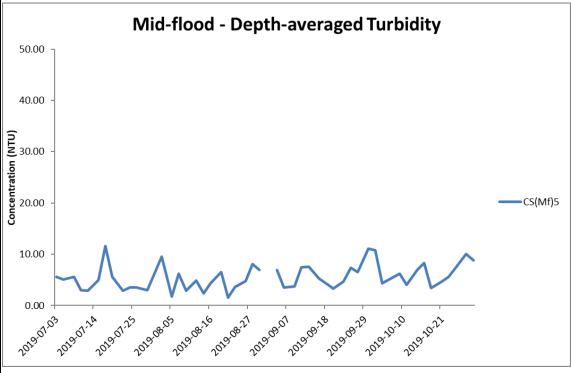
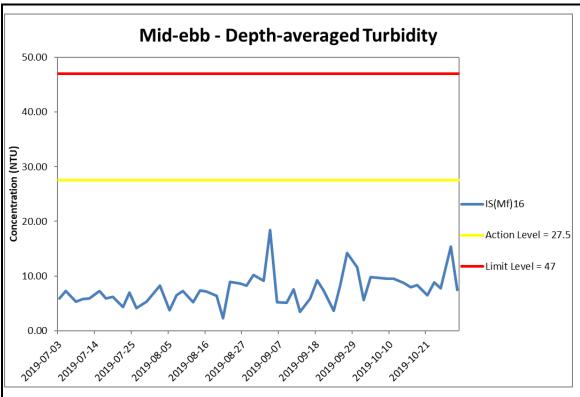


Figure J29 Impact Monitoring – Mean Depth-averaged Level of Turbidity (NTU) between 1 July 2019 and 31 October 2019 at CS(Mf)5. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/7/2019 – 31/10/2019).





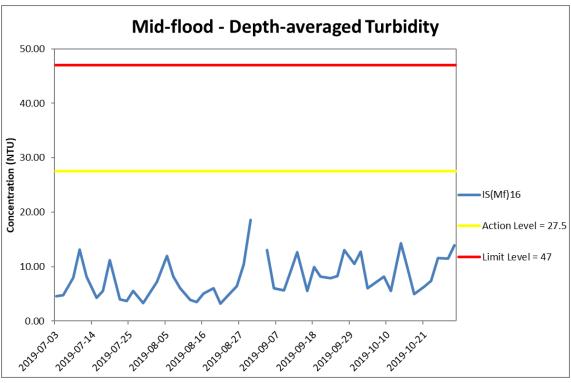
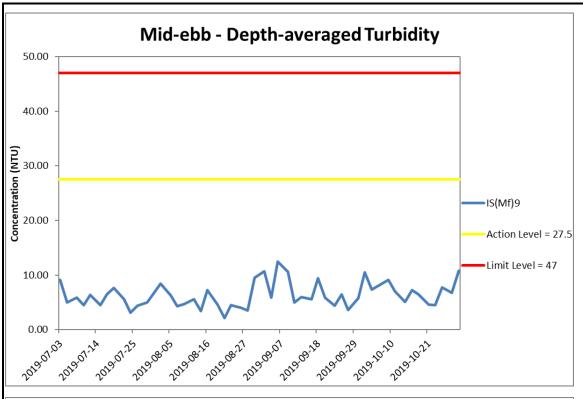


Figure J30 Impact Monitoring – Mean Depth-averaged Level of Turbidity (NTU) between 1 July 2019 and 31 October 2019 at IS(Mf)16. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/7/2019 – 31/10/2019).





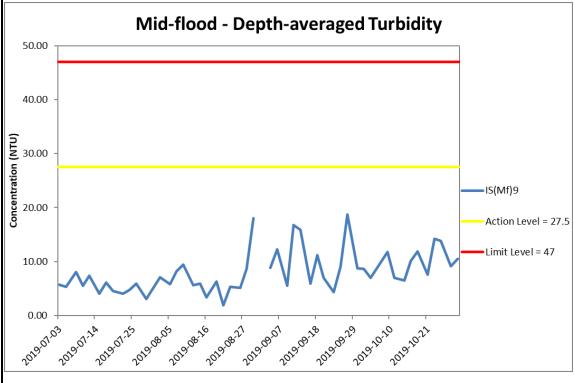
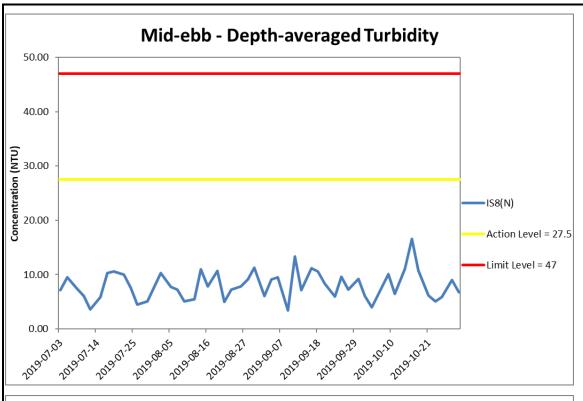


Figure J31 Impact Monitoring – Mean Depth-averaged Level of Turbidity (NTU) between 1 July 2019 and 31 October 2019 at IS(Mf)9. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/7/2019 – 31/10/2019).





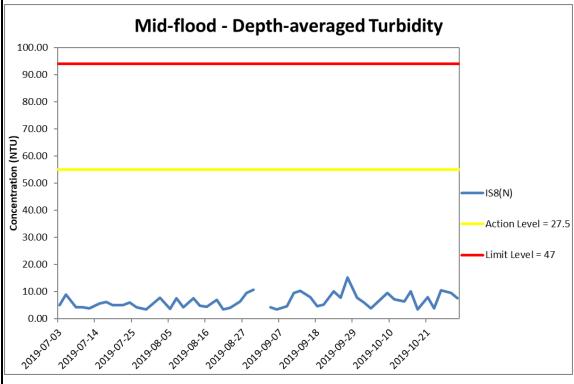
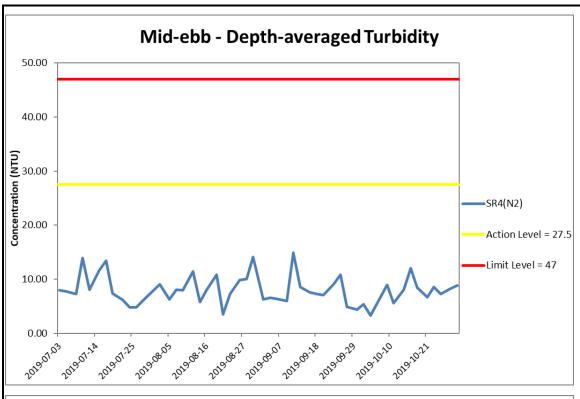


Figure J32 Impact Monitoring – Mean Depth-averaged Level of Turbidity (NTU) between 1 July 2019 and 31 October 2019 at IS8(N). The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/7/2019 – 31/10/2019).





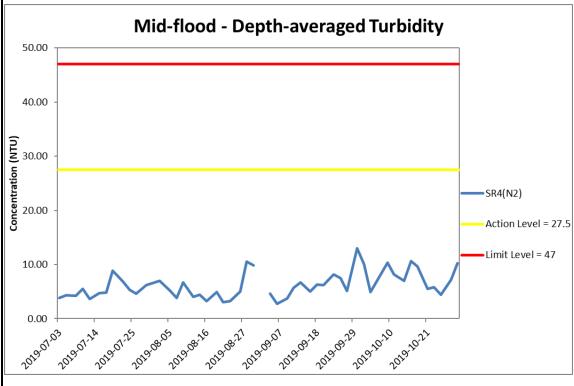
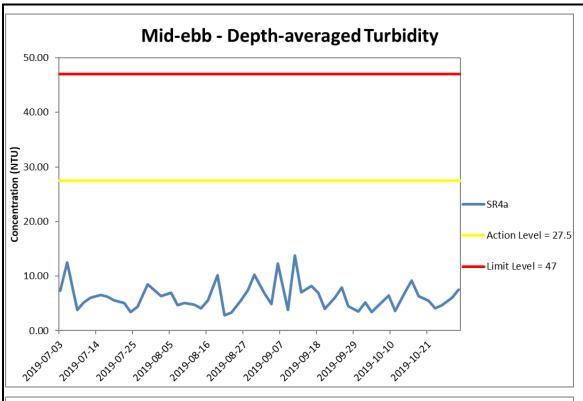


Figure J33 Impact Monitoring – Mean Depth-averaged Level of Turbidity (NTU) between 1 July 2019 and 31 October 2019 at SR4(N2). The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/7/2019 – 31/10/2019).





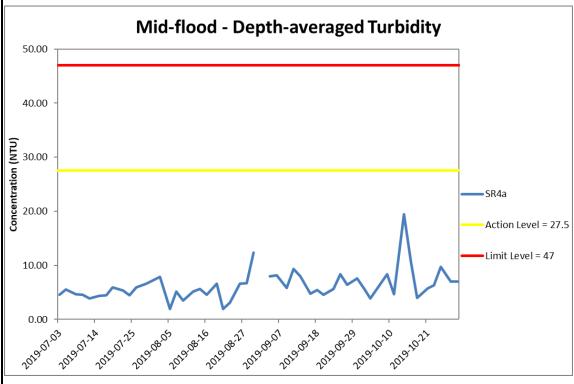


Figure J34 Impact Monitoring – Mean Depth-averaged Level of Turbidity (NTU) between 1 July 2019 and 31 October 2019 at SR4a. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/7/2019 – 31/10/2019).



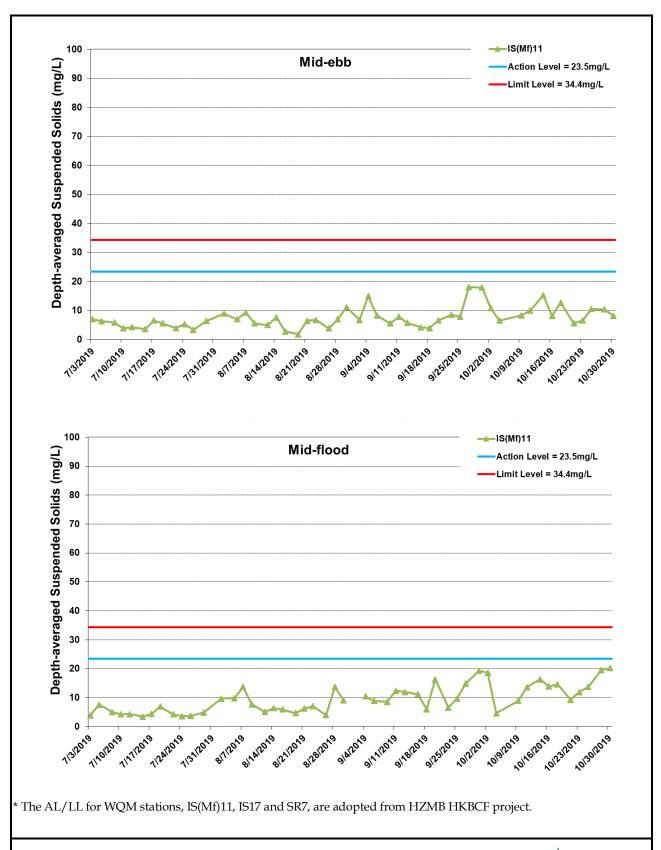
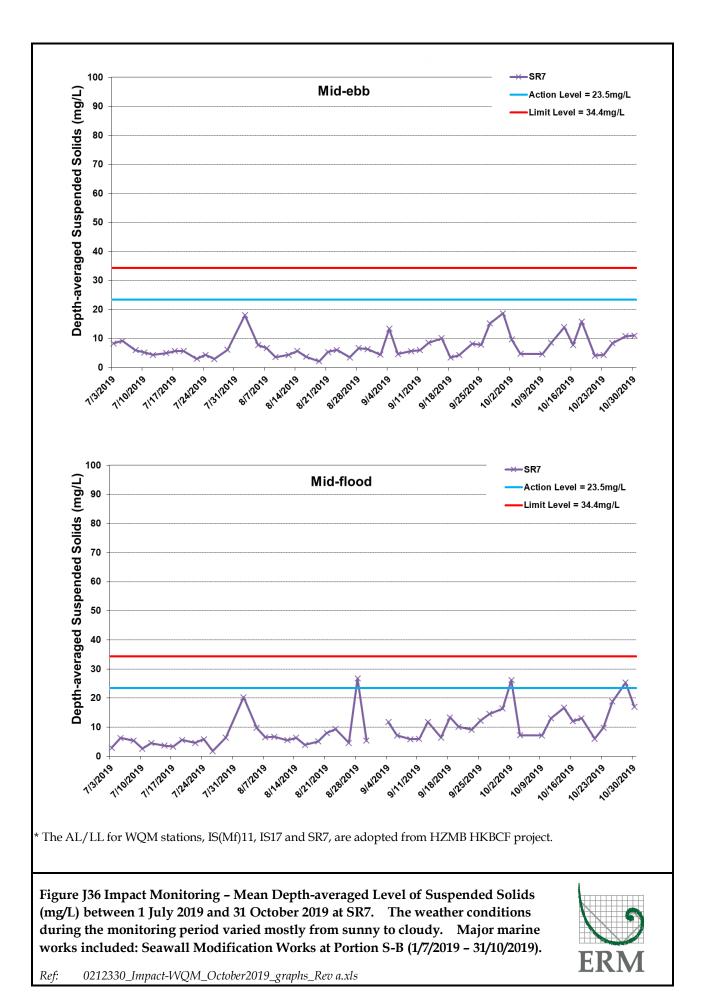
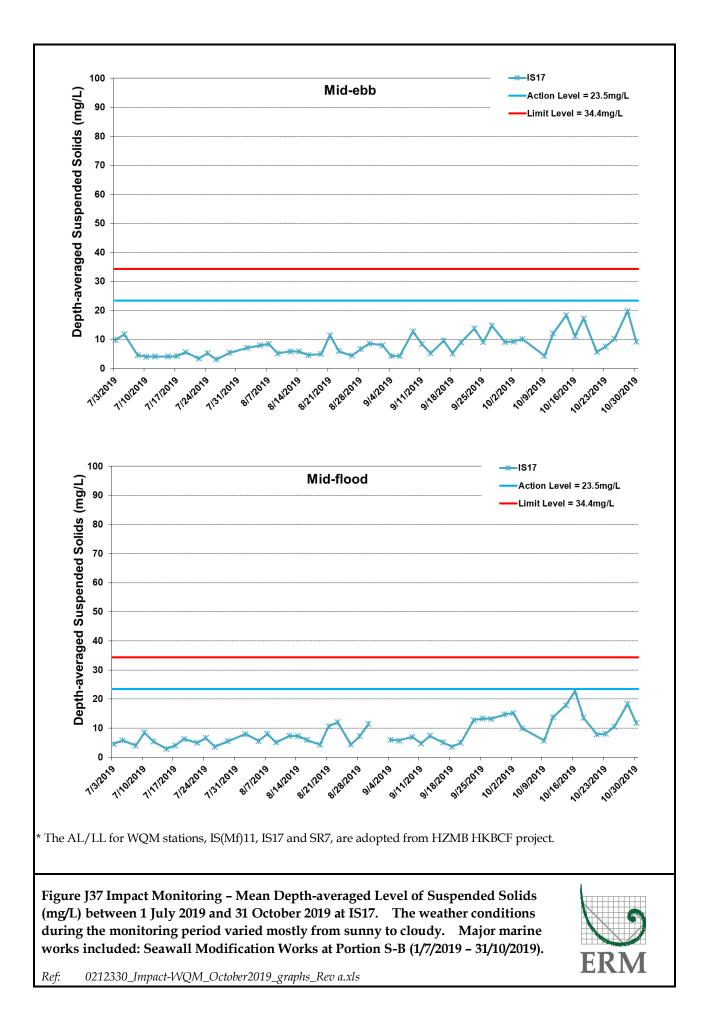
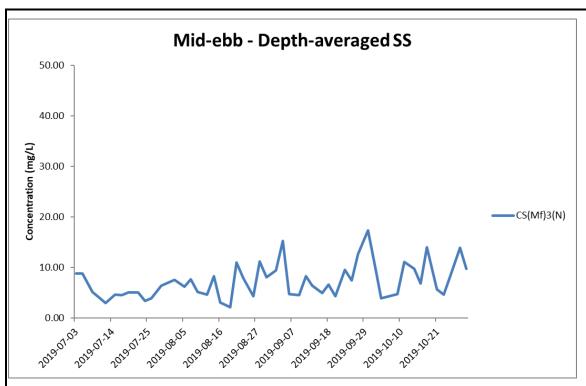


Figure J35 Impact Monitoring – Mean Depth-averaged Level of Suspended Solids (mg/L) between 1 July 2019 and 31 October 2019 at IS(Mf)11. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/7/2019 – 31/10/2019).









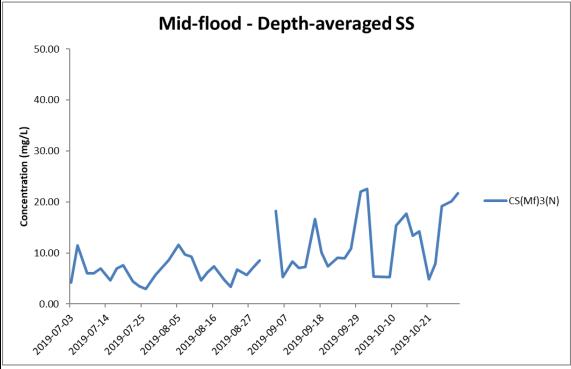
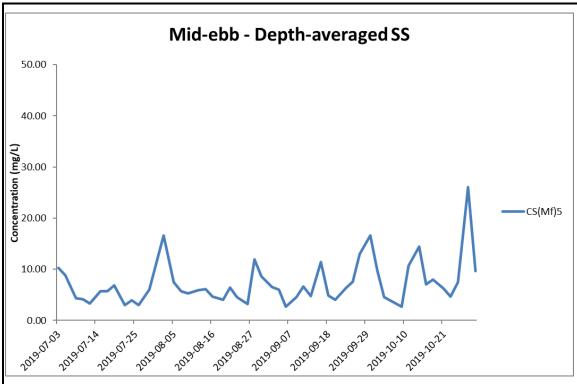


Figure J38 Impact Monitoring – Mean Depth-averaged Level of Suspended Solids (mg/L) between 1 July 2019 and 31 October 2019 at CS(Mf)3(N). The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/7/2019 – 31/10/2019).





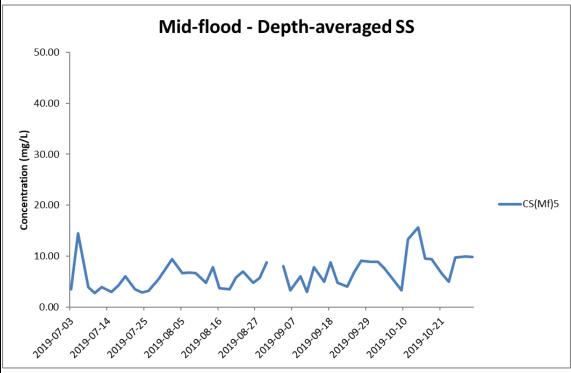
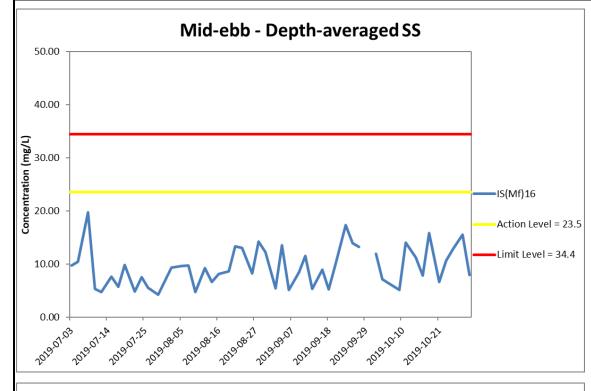


Figure J39 Impact Monitoring – Mean Depth-averaged Level of Suspended Solids (mg/L) between 1 July 2019 and 31 October 2019 at CS(Mf)5. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/7/2019 – 31/10/2019).





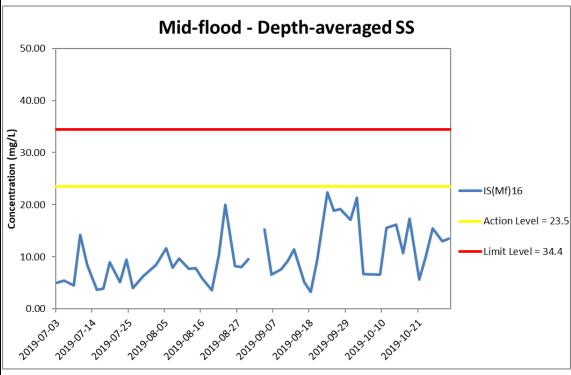
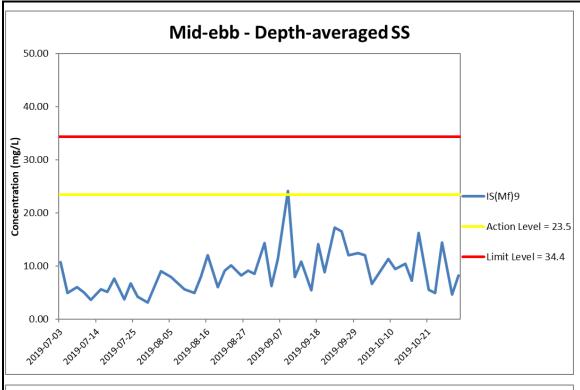


Figure J40 Impact Monitoring – Mean Depth-averaged Level of Suspended Solids (mg/L) between 1 July 2019 and 31 October 2019 at IS(Mf)16. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/7/2019 – 31/10/2019).





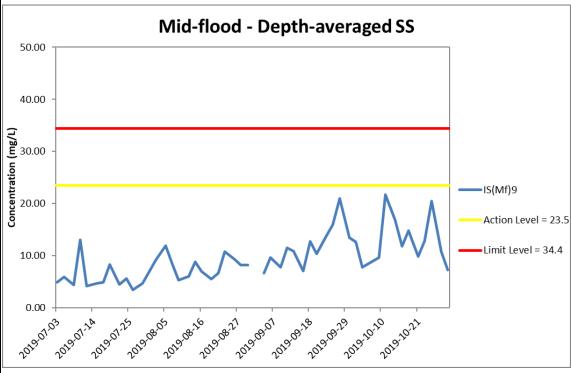
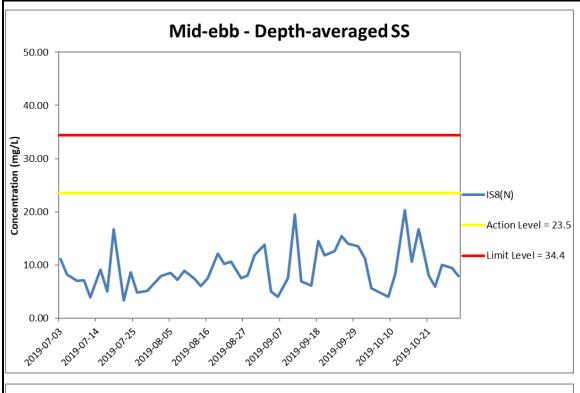


Figure J41 Impact Monitoring – Mean Depth-averaged Level of Suspended Solids (mg/L) between 1 July 2019 and 31 October 2019 at IS(Mf)9. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/7/2019 – 31/10/2019).





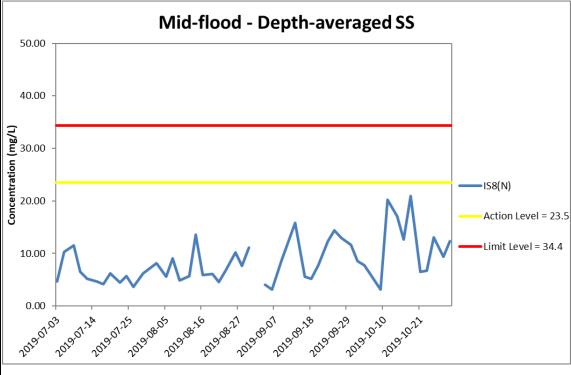
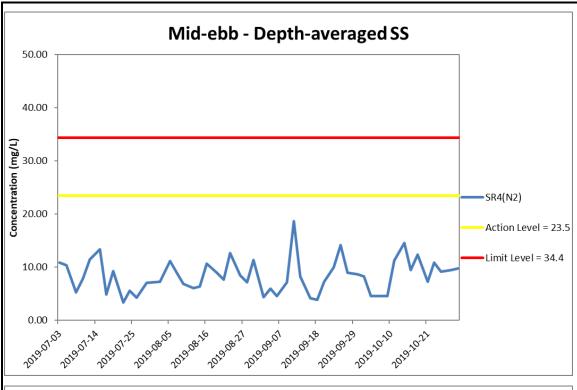


Figure J42 Impact Monitoring – Mean Depth-averaged Level of Suspended Solids (mg/L) between 1 July 2019 and 31 October 2019 at IS8(N). The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/7/2019 – 31/10/2019).





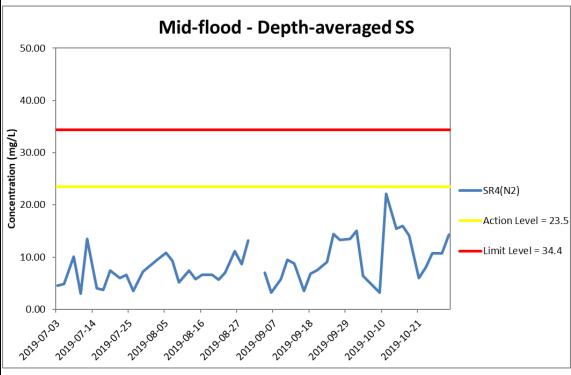
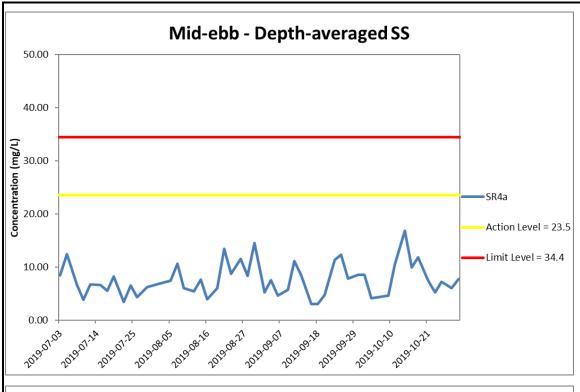


Figure J43 Impact Monitoring – Mean Depth-averaged Level of Suspended Solids (mg/L) between 1 July 2019 and 31 October 2019 at SR4(N2). The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/7/2019 – 31/10/2019).





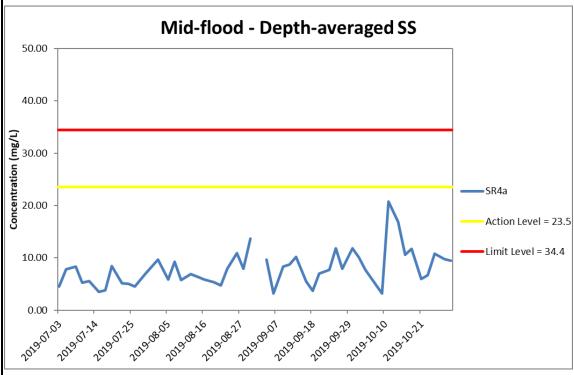


Figure J44 Impact Monitoring - Mean Depth-averaged Level of Suspended Solids (mg/L) between 1 July 2019 and 31 October 2019 at SR4a. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/7/2019 - 31/10/2019).



Duoinat	Comtract	Data	Tido	Ctot	Ma ath an	Sea	T:	Water	Laval	Law Cod	Danliasta	Tama(%C)		Colinity (mmt)	DO(====/L)	T 	CC(m m/l)
Project	Contract	Date	Tide	Stat	Weather	Condition	Time	Depth	Level	Lev_Cod	Replicate	Temp(°C)	рН	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
TMCLKL	HY/2012/08	2019-10-02	Mid-Ebb	CS(Mf)5	Cloudy	Moderate	15:37	12.5	Surface	1	1	29.6	7.9	26.4	5.3	5	8.9
TMCLKL	HY/2012/08	2019-10-02	Mid-Ebb	CS(Mf)5	Cloudy	Moderate	15:37	12.5	Surface	1	2	28.6	7.9	25	5.5	4.9	8.7
TMCLKL	HY/2012/08	2019-10-02	Mid-Ebb	CS(Mf)5	Cloudy	Moderate	15:37	12.5	Middle	2	1	29.5	7.9	26.7	5.2	6.4	9.8
TMCLKL	HY/2012/08	2019-10-02	Mid-Ebb	CS(Mf)5	Cloudy	Moderate	15:37	12.5	Middle	2	2	28.5	7.9	25.1	5.4	6.1	10.2
TMCLKL	HY/2012/08	2019-10-02	Mid-Ebb	CS(Mf)5	Cloudy	Moderate	15:37	12.5	Bottom	3	1	29.3	7.9	26.6	5.1	14.4	11
TMCLKL	HY/2012/08	2019-10-02	Mid-Ebb	CS(Mf)5	Cloudy	Moderate	15:37	12.5	Bottom	3	2	28.4	7.9	25.5	5.3	14.2	10.6
TMCLKL	HY/2012/08	2019-10-02	Mid-Ebb	CS(Mf)3(N)	Cloudy	Moderate	14:58	7.3	Surface	1	1	29.7	7.9	26.6	5.6	4.9	8.4
TMCLKL	HY/2012/08	2019-10-02	Mid-Ebb	CS(Mf)3(N)	Cloudy	Moderate	14:58	7.3	Surface	1	2	28.7	7.9	24.2	5.7	4.6	8
TMCLKL	HY/2012/08	2019-10-02	Mid-Ebb		Cloudy	Moderate	14:58	7.3	Middle	2	1	29.4	7.9	26.5	5.3	9.8	10.9
TMCLKL	HY/2012/08	2019-10-02	Mid-Ebb		Cloudy	Moderate	14:58	7.3	Middle	2	2	28.4	7.9	24.5	5.5	9.2	10.7
TMCLKL	HY/2012/08	2019-10-02	Mid-Ebb	CS(Mf)3(N)	Cloudy	Moderate	14:58	7.3	Bottom	3	1	29.4	7.9	26.5	5.3	13.9	12.2
TMCLKL	HY/2012/08	2019-10-02	Mid-Ebb		Cloudy	Moderate	14:58	7.3	Bottom	3	2	28.4	7.9	24.7	5.5	13.2	12.5
TMCLKL	HY/2012/08	2019-10-02	Mid-Ebb	IS(Mf)16	Cloudy	Moderate	14:14	5.5	Surface	1	1	29.7	7.9	26.4	5.7	5.3	11.6
TMCLKL	HY/2012/08	2019-10-02	Mid-Ebb	IS(Mf)16	Cloudy	Moderate		5.5	Surface	1	2	28.7	7.9	24.9	5.9	5.4	11.9
TMCLKL	HY/2012/08	2019-10-02	Mid-Ebb	IS(Mf)16	Cloudy	Moderate	14:14	5.5	Middle	2	1						
TMCLKL	HY/2012/08	2019-10-02	Mid-Ebb	IS(Mf)16	Cloudy	Moderate		5.5	Middle	2	2						
TMCLKL	HY/2012/08	2019-10-02	Mid-Ebb	IS(Mf)16	Cloudy	Moderate		5.5	Bottom	3	1	29.7	7.9	26.7	5.7	6	12.3
TMCLKL	HY/2012/08	2019-10-02	Mid-Ebb	IS(Mf)16	Cloudy	Moderate		5.5	Bottom	3	2	28.7	7.9	25	5.9	5.7	12
TMCLKL	HY/2012/08	2019-10-02	Mid-Ebb	SR4a	Cloudy	Moderate		4.9	Surface	[1	[1	29.6	7.9	26.6	5.8	4.5	8
TMCLKL	HY/2012/08	2019-10-02	Mid-Ebb	SR4a	Cloudy	Moderate		4.9	Surface	1	2	28.9	7.9	24.7	6	4.5	7.7
TMCLKL	HY/2012/08	2019-10-02	Mid-Ebb	SR4a	Cloudy	Moderate		4.9	Middle	2	1						
TMCLKL	HY/2012/08	2019-10-02	Mid-Ebb	SR4a	Cloudy	Moderate	14:04	4.9	Middle	2	2						
TMCLKL	HY/2012/08	2019-10-02	Mid-Ebb	SR4a	Cloudy	Moderate		4.9	Bottom	3	1	29.5	7.9	26.5	5.5	6	8.9
TMCLKL	HY/2012/08	2019-10-02	Mid-Ebb	SR4a	Cloudy	Moderate	14:04	4.9	Bottom	3	2	28.5	7.9	24.9	5.6	5.8	9.4
TMCLKL	HY/2012/08	2019-10-02	Mid-Ebb	SR4(N2)	Cloudy	Moderate	14:00	4	Surface	1	1	30	7.9	26.6	5.8	5.1	8.3
TMCLKL	HY/2012/08	2019-10-02	Mid-Ebb	SR4(N2)	Cloudy	Moderate	14:00	4	Surface	1	2	29	7.9	24.7	6	5	8
TMCLKL	HY/2012/08	2019-10-02	Mid-Ebb	SR4(N2)	Cloudy	Moderate	14:00	4	Middle	2	1						
TMCLKL	HY/2012/08	2019-10-02	Mid-Ebb	SR4(N2)	Cloudy	Moderate	14:00	4	Middle	2	2						
TMCLKL	HY/2012/08	2019-10-02	Mid-Ebb	SR4(N2)	Cloudy	Moderate	14:00	4	Bottom	3	1	30	7.9	26.5	5.9	5.4	8.4
TMCLKL	HY/2012/08	2019-10-02	Mid-Ebb	SR4(N2)	Cloudy	Moderate	14:00	4	Bottom	3	2	29	7.9	24.7	6.1	6	8.6
TMCLKL	HY/2012/08	2019-10-02	Mid-Ebb	IS8(N)	Cloudy	Moderate	13:54	3.5	Surface	1	1	29.9	7.9	26.3	5.8	5.6	11.2
TMCLKL	HY/2012/08	2019-10-02	Mid-Ebb	IS8(N)	Cloudy	Moderate		3.5	Surface	1	2	28.9	7.9	24.8	6	5.5	11.1
TMCLKL	HY/2012/08	2019-10-02	Mid-Ebb	IS8(N)	Cloudy	Moderate		3.5	Middle	2	1						
TMCLKL	HY/2012/08	2019-10-02	Mid-Ebb	IS8(N)	Cloudy	Moderate		3.5	Middle	2	2						
TMCLKL	HY/2012/08	2019-10-02	Mid-Ebb	IS8(N)	Cloudy	Moderate		3.5	Bottom	3	1	29.8	7.9	26.7	5.8	6.2	11.3
TMCLKL	HY/2012/08	2019-10-02	Mid-Ebb	IS8(N)	Cloudy	Moderate	13:54	3.5	Bottom	3	2	28.8	7.9	24.9	6	6.9	11.1
TMCLKL	HY/2012/08	2019-10-02	Mid-Ebb	IS(Mf)9	Cloudy	Moderate	13:48	3.3	Surface	1	1	29.8	7.9	26.5	5.6	7.4	10.8
TMCLKL	HY/2012/08	2019-10-02	Mid-Ebb	IS(Mf)9	Cloudy	Moderate	13:48	3.3	Surface	1	2	28.8	7.9	25.1	5.7	7.3	10.9
TMCLKL	HY/2012/08	2019-10-02	Mid-Ebb	IS(Mf)9	Cloudy	Moderate		3.3	Middle	2	1						
TMCLKL	HY/2012/08	2019-10-02	Mid-Ebb	IS(Mf)9	Cloudy	Moderate		3.3	Middle	2	2			00.5	 	10.5	10.
TMCLKL	HY/2012/08	2019-10-02	Mid-Ebb	IS(Mf)9	Cloudy	Moderate		3.3	Bottom	3	1	29.5	7.9	26.5	5.4	13.5	13.1
TMCLKL	HY/2012/08	2019-10-02	Mid-Ebb	IS(Mf)9	Cloudy	Moderate		3.3	Bottom	3	2	28.5	7.9	25.1	5.5	13.6	13.3
TMCLKL	HY/2012/08	2019-10-02	Mid-Ebb	IS(Mf)11	Cloudy	Moderate	14:29	12.2	Surface	11	1	29.8	7.9	26.7	5.6	5.4	9.7
TMCLKL	HY/2012/08	2019-10-02	Mid-Ebb	IS(Mf)11	Cloudy	Moderate	14:29	12.2	Surface	1	2	28.8	7.9	24.4	5.7	5.1	10.1
TMCLKL	HY/2012/08	2019-10-02	Mid-Ebb	IS(Mf)11	Cloudy	Moderate	14:29	12.2	Middle	2	11	29.6	7.9	26.4	5.4	6.2	11.7
TMCLKL	HY/2012/08	2019-10-02	Mid-Ebb	IS(Mf)11	Cloudy	Moderate	14:29	12.2	Middle	2	2	28.6	7.9	24.8	5.6	6.6	12
TMCLKL	HY/2012/08	2019-10-02	Mid-Ebb	IS(Mf)11	Cloudy	Moderate	14:29	12.2	Bottom	3	1	29.5	7.9	26.6	5.4	8.1	10.6
TMCLKL	HY/2012/08	2019-10-02	Mid-Ebb	IS(Mf)11	Cloudy	Moderate	14:29	12.2	Bottom	3	4	28.5	7.9	24.9	5.6	8.1	177
TMCLKL	HY/2012/08	2019-10-02	Mid-Ebb	SR7	Cloudy	Moderate		3.6	Surface	1	1	29.7	7.9	26.4	5.6	6.4	9
TMCLKL	HY/2012/08	2019-10-02	Mid-Ebb	SR7	Cloudy	Moderate	_	3.6	Surface	1	4	28.7	7.9	24.3	5.7	6.4	8.7
TMCLKL	HY/2012/08	2019-10-02	Mid-Ebb	SR7	Cloudy	Moderate	_	3.6	Middle	2	1			1		-	
TMCLKL	HY/2012/08	2019-10-02	Mid-Ebb	SR7	Cloudy	Moderate	15:21	3.6	Middle	2	4	100.5	7.0	00.7	5.0	0.7	10.4
TMCLKL	HY/2012/08	2019-10-02	Mid-Ebb	SR7	Cloudy	Moderate	15:21	3.6	Bottom	3	1	29.5	7.9	26.7	5.6	Ö. /	10.4
TMCLKL	HY/2012/08	2019-10-02	Mid-Ebb	SR7	Cloudy	Moderate		3.6	Bottom	3	4	28.5	7.9	24.6	5.7	lo o	10.8
TMCLKL	HY/2012/08	2019-10-02	Mid-Ebb	IS17	Cloudy	Moderate		7.2	Surface	1	1	29.7	7.9	26.4	5.4	6.8	8.3
TMCLKL	HY/2012/08	2019-10-02	Mid-Ebb	IS17	Cloudy	Moderate		7.2	Surface	1	<u> </u>	28.7	7.9	24.8	5.6	6.4	8.2
TMCLKL	HY/2012/08	2019-10-02	Mid-Ebb	IS17	Cloudy	Moderate	14:21	7.2	Middle	2	1	29.5	7.9	26.6	5.3	9.3	8.8
TMCLKL	HY/2012/08	2019-10-02	Mid-Ebb	IS17	Cloudy	Moderate	14:21	7.2	Middle	2	2	28.5	7.9	25	5.5	10	9.4
	HY/2012/08	2019-10-02	Mid-Ebb		Cloudy	Moderate		7.2	Bottom	3	1			26.6	5.4	9.5	10.8
TMCLKL	HY/2012/08	2019-10-02	Mid-Ebb	IS17	Cloudy	Moderate		7.2	Bottom	3	<u> </u>	28.5		25.1	5.6	9.2	10.6
TMCLKL	HY/2012/08	2019-10-02	Mid-Flood	CS(Mf)5	Cloudy	Moderate	09:05	12	Surface	<u> </u>	<u> </u>	29.5	7.9	26.7	5.4	5.1	8.7

Drainet	Comtract	Dete	Tide	Ctat	Weether	Sea	Time	Water	Laval	Law Cod	Danliagta	Tomm(%C)		Calinity (mmt)	DO(m m/L)	Turkiditu/NITU	CC(mm/l)
Project	Contract	Date	Tide	Stat	Weather	Condition	Time	Depth	Level	Lev_Cod	Replicate	Temp(°C)	рН	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
TMCLKL	HY/2012/08	2019-10-02	Mid-Flood	CS(Mf)5	Cloudy	Moderate	09:05	12	Surface	1	2	28.5	7.9	24.8	5.5	5.1	8.7
TMCLKL	HY/2012/08	2019-10-02	Mid-Flood	CS(Mf)5	Cloudy	Moderate	09:05	12	Middle	2	1	29.3	7.9	26.6	5.2	11.7	8.6
TMCLKL	HY/2012/08	2019-10-02	Mid-Flood	CS(Mf)5	Cloudy	Moderate	09:05	12	Middle	2	2	28.3	7.9	25.1	5.4	12.6	8.9
TMCLKL	HY/2012/08	2019-10-02	Mid-Flood	CS(Mf)5	Cloudy	Moderate	09:05	12	Bottom	3	1	29.3	7.9	26.5	5.1	14.9	9.4
TMCLKL	HY/2012/08	2019-10-02	Mid-Flood	CS(Mf)5	Cloudy	Moderate	09:05	12	Bottom	3	2	28.3	7.9	25.5	5.2	15	9.2
TMCLKL	HY/2012/08	2019-10-02	Mid-Flood	CS(Mf)3(N)	Cloudy	Moderate	09:48	7	Surface	1	1	29.4	7.9	26.1	5.4	10.3	20.2
TMCLKL	HY/2012/08	2019-10-02	Mid-Flood	CS(Mf)3(N)	Cloudy	Moderate	09:48	7	Surface	1	2	28.4	7.9	24.3	5.6	10.2	20.5
TMCLKL	HY/2012/08	2019-10-02	Mid-Flood	CS(Mf)3(N)	Cloudy	Moderate	09:48	7	Middle	2	1	29.4	7.9	26.4	5.4	13.6	23.3
TMCLKL	HY/2012/08	2019-10-02	Mid-Flood	CS(Mf)3(N)	Cloudy	Moderate	09:48	7	Middle	2	2	28.4	7.9	24.3	5.6	13.9	23.1
TMCLKL	HY/2012/08	2019-10-02	Mid-Flood	CS(Mf)3(N)	Cloudy	Moderate	09:48	7	Bottom	3	1	29.4	7.9	26.7	5.5	18.3	24.3
TMCLKL	HY/2012/08	2019-10-02	Mid-Flood	CS(Mf)3(N)	Cloudy	Moderate	09:48	7	Bottom	3	2	28.4	7.9	24.3	5.7	18.2	24.2
TMCLKL	HY/2012/08	2019-10-02	Mid-Flood	IS(Mf)16	Cloudy	Moderate	10:31	5.6	Surface	1	1	29.4	7.9	26.5	5.5	13.3	21
TMCLKL	HY/2012/08	2019-10-02	Mid-Flood	IS(Mf)16	Cloudy	Moderate	10:31	5.6	Surface	1	2	28.5	7.9	24.7	5.7	13.1	21.2
TMCLKL	HY/2012/08	2019-10-02	Mid-Flood	IS(Mf)16	Cloudy	Moderate	10:31	5.6	Middle	2	12						
TMCLKL	HY/2012/08	2019-10-02	Mid-Flood	IS(Mf)16	Cloudy	Moderate	10:31	5.6	Middle	2	2	100.4	7.0	00.0		10.1	
TMCLKL	HY/2012/08	2019-10-02	Mid-Flood	IS(Mf)16	Cloudy	Moderate	10:31	5.6	Bottom	3	11	29.4	7.9	26.6	5.5	12.4	21.5
TMCLKL	HY/2012/08	2019-10-02	Mid-Flood	IS(Mf)16	Cloudy	Moderate		5.6	Bottom	3	2	28.4	7.9	24.8	5.7	12.2	21.6
TMCLKL	HY/2012/08	2019-10-02	Mid-Flood	SR4a	Cloudy	Moderate	10:40	4.7	Surface	1	1	29.3	7.9	26.4	5.4	5.8	9.3
TMCLKL	HY/2012/08	2019-10-02	Mid-Flood	SR4a	Cloudy	Moderate	10:40	4.7	Surface	17	2	28.3	7.9	24.9	5.6	5.9	9.4
TMCLKL	HY/2012/08	2019-10-02	Mid-Flood	SR4a	Cloudy	Moderate	10:40	4.7	Middle	2	1		-				
TMCLKL	HY/2012/08	2019-10-02	Mid-Flood	SR4a	Cloudy	Moderate	10:40	4.7	Middle	2	2	100.0	7.0	00.5			40.7
TMCLKL	HY/2012/08	2019-10-02	Mid-Flood	SR4a	Cloudy	Moderate	10:40	4.7	Bottom	3	1	29.3	7.9	26.5	5.5	5.0	10.7
TMCLKL	HY/2012/08	2019-10-02	Mid-Flood	SR4a	Cloudy	Moderate		4.7	Bottom	3	2	28.3	7.9	25	5.7	5.3	11
TMCLKL	HY/2012/08	2019-10-02	Mid-Flood	SR4(N2)	Cloudy	Moderate	10:45	3.9	Surface	1	1	29.3	7.9	26.4	5.4	8.2	111.1
TMCLKL	HY/2012/08	2019-10-02	Mid-Flood	SR4(N2)	Cloudy	Moderate		3.9	Surface	1	2	28.3	7.9	25	5.6	8.6	10.7
TMCLKL	HY/2012/08	2019-10-02	Mid-Flood	SR4(N2)	Cloudy	Moderate		3.9	Middle	2	1		_				
TMCLKL	HY/2012/08	2019-10-02	Mid-Flood	SR4(N2)	Cloudy	Moderate	10:45	3.9	Middle	2	2	20.0	7.0	20.0	F 4	44.7	10.4
TMCLKL	HY/2012/08	2019-10-02	Mid-Flood	SR4(N2)	Cloudy	Moderate	10:45	3.9	Bottom	3	1	29.3	7.9	26.6	5.4	11.7	19.4
TMCLKL	HY/2012/08	2019-10-02	Mid-Flood	SR4(N2)	Cloudy	Moderate	10:45	3.9	Bottom	3	2	28.3	7.9	25	5.6	11.7	19.1
TMCLKL	HY/2012/08	2019-10-02	Mid-Flood	IS8(N)	Cloudy	Moderate		3.4	Surface	1	10	29.5	7.9	26.5	5.6	5.6	8.4
TMCLKL	HY/2012/08	2019-10-02	Mid-Flood	IS8(N)	Cloudy	Moderate		3.4	Surface	12	1	28.5	7.9	24.7	5.7	5.4	0.1
TMCLKL	HY/2012/08		Mid-Flood	IS8(N)	Cloudy Cloudy	Moderate		3.4	Middle Middle	2	12		-				
TMCLKL	HY/2012/08 HY/2012/08	2019-10-02 2019-10-02	Mid-Flood Mid-Flood	IS8(N) IS8(N)	Cloudy	Moderate		3.4	Bottom	2	1	29.5	7.9	26.7	5.7	6.4	0.6
TMCLKL TMCLKL	HY/2012/08	2019-10-02	Mid-Flood	IS8(N)	Cloudy	Moderate	10:51	3.4	Bottom	3	2	28.5	7.9	24.8	5.8	6.7	8.6
TMCLKL	HY/2012/08	2019-10-02	Mid-Flood	IS(Mf)9	Cloudy	Moderate Moderate	10:59	3.3	Surface	1	1	29.4	7.9	26.5	5.4	8.2	11.9
TMCLKL	HY/2012/08	2019-10-02	Mid-Flood	IS(Mf)9	Cloudy	Moderate	10:59	3.3	Surface	1	2	28.4	7.9	25.1	5.6	8.6	12.3
TMCLKL	HY/2012/08	2019-10-02	Mid-Flood	IS(Mf)9	Cloudy	Moderate	10:59	3.3	Middle	2	1	20.4	17.9	23.1	5.0	0.0	12.3
TMCLKL	HY/2012/08	2019-10-02	Mid-Flood	IS(Mf)9	Cloudy	Moderate		3.3	Middle	2	2		 				+
TMCLKL	HY/2012/08	2019-10-02	Mid-Flood	IS(Mf)9	Cloudy	Moderate		3.3	Bottom	2	1	29.3	7.9	26.2	5.5	8.8	13.4
TMCLKL	HY/2012/08	2019-10-02	Mid-Flood	IS(Mf)9	Cloudy	Moderate		3.3	Bottom	3	2	28.3	7.9	25.1	5.7	8.9	13
TMCLKL	HY/2012/08	2019-10-02	Mid-Flood	IS(Mf)11	Cloudy	Moderate		11.7	Surface	1	1	29.4	7.9	26.3	5.4	13.7	17.7
TMCLKL	HY/2012/08	2019-10-02	Mid-Flood	IS(Mf)11	Cloudy	Moderate	10:17	11.7	Surface	11	2	28.4	7.9	24.8	5.6	13.9	18.1
TMCLKL	HY/2012/08	2019-10-02	Mid-Flood	IS(Mf)11	Cloudy	Moderate		11.7	Middle	2	1	29.3	7.9	26.5	5.3	15.1	22
TMCLKL	HY/2012/08	2019-10-02	Mid-Flood	IS(Mf)11	Cloudy	Moderate	10:17	11.7	Middle	2	2	28.3	7.9	24.8	5.5	15.7	21.6
TMCLKL	HY/2012/08	2019-10-02	Mid-Flood	IS(Mf)11	Cloudy	Moderate		11.7	Bottom	3	1	29.3	7.9	26.8	5.4	16.3	16.3
TMCLKL	HY/2012/08	2019-10-02	Mid-Flood	IS(Mf)11	Cloudy	Moderate		11.7	Bottom	3	2	28.3	7.9	24.9	5.5	16.4	16
TMCLKL	HY/2012/08	2019-10-02	Mid-Flood	SR7	Cloudy	Moderate		3.9	Surface	1	1	29.4	7.9	26.4	5.4	10.8	24.1
TMCLKL	HY/2012/08	2019-10-02	Mid-Flood	SR7	Cloudy	Moderate		3.9	Surface	11	2	28.4	7.9	24.7	5.5	10.8	24.4
TMCLKL	HY/2012/08	2019-10-02	Mid-Flood	SR7	Cloudy	Moderate		3.9	Middle	2	1 1	 	1	 	1	1.5.5	+
TMCLKL	HY/2012/08	2019-10-02	Mid-Flood	SR7	Cloudy	Moderate		3.9	Middle	2	2	1	+	1		1	+
TMCLKL	HY/2012/08	2019-10-02	Mid-Flood	SR7	Cloudy	Moderate	09:24	3.9	Bottom	3	1 -	29.4	7.9	26.5	5.4	12.7	28.3
TMCLKL	HY/2012/08	2019-10-02	Mid-Flood	SR7	Cloudy	Moderate	09:24	3.9	Bottom	3	2	28.4	7.9	24.7	5.6	12.9	27.9
TMCLKL	HY/2012/08	2019-10-02	Mid-Flood	IS17	Cloudy	Moderate	10:24	7.2	Surface	1	1 -	29.5	7.9	26.8	5.4	7.6	10.5
TMCLKL	HY/2012/08	2019-10-02	Mid-Flood	IS17	Cloudy	Moderate	10:24	7.2	Surface	1	2	28.5	8	24.9	5.5	7.3	10.8
TMCLKL	HY/2012/08	2019-10-02	Mid-Flood	IS17	Cloudy	Moderate		7.2	Middle	2	1 -	29.3	7.9	26.6	5.3	14.3	14.9
TMCLKL	HY/2012/08	2019-10-02	Mid-Flood	IS17	Cloudy	Moderate	10:24	7.2	Middle	2	2	28.3	7.9	24.9	5.5	14.4	15.1
TMCLKL	HY/2012/08	2019-10-02	Mid-Flood	IS17	Cloudy	Moderate	10:24	7.2	Bottom	3	1 -	29.3	7.9	26.3	5.4	17.7	19.8
	HY/2012/08	2019-10-02	Mid-Flood	IS17	Cloudy	Moderate		7.2	Bottom	3	2	28.3	7.9	24.9	5.7	17.2	20.4
TMCLKL	HY/2012/08	2019-10-04	Mid-Ebb	CS(Mf)5	Sunny	Calm	17:16	14.9	Surface	11	<u> -</u>	30.3		27.2	5.9	1.8	4.6
	HY/2012/08	2019-10-04	Mid-Ebb	CS(Mf)5	Sunny	Calm		14.9	Surface	1	2	30.3		27.2	5.9	1.8	4.6
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Project	Contract	Date	Tide	Stat	Weather	Sea Condition	Time	Water Depth	Level	Lev_Cod	Replicate	Temp(°C)	рН	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
TMCLKL	HY/2012/08	2019-10-04	Mid-Ebb	CS(Mf)5	Sunny	Calm	17:16	14.9	Middle	2	1	29.7	7.7	28.7	5.3	2.2	4.2
TMCLKL	HY/2012/08	2019-10-04	Mid-Ebb	CS(Mf)5	Sunny	Calm	17:16	14.9	Middle	2	2	29.7	7.7	28.6	5.3	2.2	4.4
TMCLKL	HY/2012/08	2019-10-04	Mid-Ebb	CS(Mf)5	Sunny	Calm	17:16	14.9	Bottom	3	1	29.7	7.7	28.8	5.3	2.5	4.6
TMCLKL	HY/2012/08	2019-10-04	Mid-Ebb	CS(Mf)5	Sunny	Calm	17:16	14.9	Bottom	3	2	29.7	7.7	28.9	5.3	2.4	5
TMCLKL	HY/2012/08	2019-10-04	Mid-Ebb	CS(Mf)3(N)	Sunny	Moderate	16:32	7.2	Surface	1	1	30.1	7.7	24.3	6.2	2.6	3.3
TMCLKL	HY/2012/08	2019-10-04	Mid-Ebb		Sunny	Moderate	16:32	7.2	Surface	1	2	30.1	7.7	24.4	6.2	2.6	3
TMCLKL	HY/2012/08	2019-10-04	Mid-Ebb	CS(Mf)3(N)	Sunny	Moderate		7.2	Middle	2	1	29.7	7.7	25.3	5.8	7.4	3.2
TMCLKL	HY/2012/08	2019-10-04	Mid-Ebb	CS(Mf)3(N)	Sunny	Moderate		7.2	Middle	2	2	29.7	7.7	25.3	5.8	7.4	3.4
TMCLKL	HY/2012/08	2019-10-04	Mid-Ebb	CS(Mf)3(N)	Sunny	Moderate		7.2	Bottom	3	1	29.7	7.7	27.4	5.8	6.9	5.1
TMCLKL	HY/2012/08	2019-10-04	Mid-Ebb	CS(Mf)3(N)	Sunny	Moderate		7.2	Bottom	3	2	29.7	7.7	27.4	5.8	6.8	5.4
TMCLKL	HY/2012/08	2019-10-04	Mid-Ebb	IS(Mf)16	Sunny	Calm		5.5	Surface	1	1	29.8 29.8	7.7	27.3 27.3	5.5	10.4 10.4	6.4
TMCLKL TMCLKL	HY/2012/08 HY/2012/08	2019-10-04 2019-10-04	Mid-Ebb Mid-Ebb	IS(Mf)16 IS(Mf)16	Sunny Sunny	Calm Calm		5.5 5.5	Surface Middle	2	1	29.0	1.1	21.3	5.5	10.4	6.4
TMCLKL	HY/2012/08	2019-10-04	Mid-Ebb	IS(Mf)16	Sunny	Calm		5.5	Middle	2	2		+				+
TMCLKL	HY/2012/08	2019-10-04	Mid-Ebb	IS(Mf)16	Sunny	Calm		5.5	Bottom	3	1	29.6	7.7	28.1	5.3	9.3	77
TMCLKL	HY/2012/08	2019-10-04	Mid-Ebb	IS(Mf)16	Sunny	Calm		5.5	Bottom	3	2	29.5	7.7	28.2	5.3	9.3	7.9
TMCLKL	HY/2012/08	2019-10-04	Mid-Ebb	SR4a	Sunny	Calm		4.2	Surface	1	1	30	7.7	26.9	6	3.2	3.8
TMCLKL	HY/2012/08	2019-10-04	Mid-Ebb	SR4a	Sunny	Calm		4.2	Surface	1	2	30	7.7	26.9	6	3.2	3.6
TMCLKL	HY/2012/08	2019-10-04	Mid-Ebb	SR4a	Sunny	Calm		4.2	Middle	2	 -	1	†''		<u> </u>		15.5
TMCLKL	HY/2012/08	2019-10-04	Mid-Ebb	SR4a	Sunny	Calm	15:40	4.2	Middle	2	2	1	1			1	+
TMCLKL	HY/2012/08	2019-10-04	Mid-Ebb	SR4a	Sunny	Calm	15:40	4.2	Bottom	3	<u> -</u> 1	30	7.7	26.9	6	3.7	4.5
TMCLKL	HY/2012/08	2019-10-04	Mid-Ebb	SR4a	Sunny	Calm		4.2	Bottom	3	2	30	7.7	26.9	6	3.7	4.7
TMCLKL	HY/2012/08	2019-10-04	Mid-Ebb	SR4(N2)	Sunny	Calm		3.9	Surface	1	1	30.3	7.7	26.8	6	3.3	4.1
TMCLKL	HY/2012/08	2019-10-04	Mid-Ebb	SR4(N2)	Sunny	Calm		3.9	Surface	1	2	30.3	7.7	26.8	6	3.3	3.8
TMCLKL	HY/2012/08	2019-10-04	Mid-Ebb	SR4(N2)	Sunny	Calm	15:37	3.9	Middle	2	1						
TMCLKL	HY/2012/08	2019-10-04	Mid-Ebb	SR4(N2)	Sunny	Calm	15:37	3.9	Middle	2	2						
TMCLKL	HY/2012/08	2019-10-04	Mid-Ebb	SR4(N2)	Sunny	Calm	15:37	3.9	Bottom	3	1	30.2	7.7	26.8	6.1	3.4	5.3
TMCLKL	HY/2012/08	2019-10-04	Mid-Ebb	SR4(N2)	Sunny	Calm	15:37	3.9	Bottom	3	2	30.2	7.7	26.8	6	3.3	5
TMCLKL	HY/2012/08	2019-10-04	Mid-Ebb	IS8(N)	Sunny	Calm	15:31	4.1	Surface	1	1	30.4	7.7	26.7	6.1	3	5
TMCLKL	HY/2012/08	2019-10-04	Mid-Ebb	IS8(N)	Sunny	Calm	15:31	4.1	Surface	1	2	30.4	7.7	26.7	6.1	3	4.9
TMCLKL	HY/2012/08	2019-10-04	Mid-Ebb	IS8(N)	Sunny	Calm		4.1	Middle	2	1						
TMCLKL	HY/2012/08	2019-10-04	Mid-Ebb	IS8(N)	Sunny	Calm		4.1	Middle	2	2		<u> </u>				
TMCLKL	HY/2012/08	2019-10-04	Mid-Ebb	IS8(N)	Sunny	Calm		4.1	Bottom	3	1	30.3	7.7	27.4	6.2	5	6.3
TMCLKL	HY/2012/08	2019-10-04	Mid-Ebb	IS8(N)	Sunny	Calm		4.1	Bottom	3	2	30.3	7.7	27.4	6.2	5	6.1
TMCLKL	HY/2012/08	2019-10-04	Mid-Ebb	IS(Mf)9	Sunny	Calm		3.8	Surface	1	1	30	7.9	27.7	5.7	5.4	6.4
TMCLKL	HY/2012/08	2019-10-04	Mid-Ebb	IS(Mf)9	Sunny	Calm		3.8	Surface	1	2	30	7.9	27.7	5.7	5.3	6.5
TMCLKL	HY/2012/08	2019-10-04	Mid-Ebb	IS(Mf)9	Sunny	Calm		3.8	Middle	2	1		+				
TMCLKL	HY/2012/08	2019-10-04	Mid-Ebb	IS(Mf)9	Sunny	Calm		3.8	Middle	2	1	20.0	7.0	27.0	E 1	0.2	
TMCLKL TMCLKL	HY/2012/08 HY/2012/08	2019-10-04 2019-10-04	Mid-Ebb Mid-Ebb	IS(Mf)9 IS(Mf)9	Sunny Sunny	Calm Calm		3.8	Bottom Bottom	3	12	29.8 29.8	7.9 7.9	27.8 27.8	5.4 5.4	9.3	- / · · · · · · · · · · · · · · · · · ·
TMCLKL	HY/2012/08	2019-10-04	Mid-Ebb	IS(Mf)11	Sunny	Moderate	16:03	10.8	Surface	1	1	29.7	7.7	27.1	5.6	5.2	6.8 5.6
TMCLKL	HY/2012/08	2019-10-04	Mid-Ebb	IS(Mf)11	Sunny	Moderate	16:03	10.8	Surface	1	2	29.7	7.7	27.1	5.6	5.2	6
TMCLKL	HY/2012/08	2019-10-04	Mid-Ebb	IS(Mf)11	Sunny	Moderate	16:03	10.8	Middle	2	1	29.6	7.7	27.4	5.4	6.8	6.7
TMCLKL	HY/2012/08	2019-10-04	Mid-Ebb	IS(Mf)11	Sunny	Moderate	16:03	10.8	Middle	2	2	29.6	7.7	27.4	5.4	6.8	6.9
TMCLKL	HY/2012/08	2019-10-04	Mid-Ebb	IS(Mf)11	Sunny	Moderate	16:03	10.8	Bottom	3	<u> -</u> 1	29.5	7.7	27.6	5.4	9.7	7
TMCLKL	HY/2012/08	2019-10-04	Mid-Ebb	IS(Mf)11	Sunny	Moderate		10.8	Bottom	3	2	29.5	7.7	27.6	5.4	9.8	7.2
TMCLKL	HY/2012/08	2019-10-04	Mid-Ebb	SR7	Sunny	Moderate		4.2	Surface	1	1	29.8	7.7	27	5.8	3.5	4.6
TMCLKL	HY/2012/08	2019-10-04	Mid-Ebb	SR7	Sunny	Moderate		4.2	Surface	1	2	29.8	7.7	27	5.8	3.5	4.4
TMCLKL	HY/2012/08	2019-10-04	Mid-Ebb	SR7	Sunny	Moderate		4.2	Middle	2	1						
TMCLKL	HY/2012/08	2019-10-04	Mid-Ebb	SR7	Sunny	Moderate	16:56	4.2	Middle	2	2						
TMCLKL	HY/2012/08	2019-10-04	Mid-Ebb	SR7	Sunny	Moderate	16:56	4.2	Bottom	3	1	29.6	7.7	27.6	5.5	7.7	5
TMCLKL	HY/2012/08	2019-10-04	Mid-Ebb	SR7	Sunny	Moderate	16:56	4.2	Bottom	3	2	29.6	7.7	27.7	5.5	7.6	5
TMCLKL	HY/2012/08	2019-10-04	Mid-Ebb	IS17	Sunny	Calm	15:56	11.2	Surface	1	1	29.6	7.7	27.7	5.3	4.6	9.6
TMCLKL	HY/2012/08	2019-10-04	Mid-Ebb	IS17	Sunny	Calm	15:56	11.2	Surface	1	2	29.6	7.7	27.7	5.3	4.6	9.9
TMCLKL	HY/2012/08	2019-10-04	Mid-Ebb	IS17	Sunny	Calm	15:56	11.2	Middle	2	11	29.5	7.7	28.1	5.2	6.2	10
TMCLKL	HY/2012/08	2019-10-04	Mid-Ebb	IS17	Sunny	Calm	15:56	11.2	Middle	2	2	29.5	7.7	28.1	5.2	6.2	9.8
TMCLKL	HY/2012/08	2019-10-04	Mid-Ebb	IS17	Sunny	Calm	15:56	11.2	Bottom	3	1	29.5	7.7	28.2	5.2	7 -	10.9
TMCLKL	HY/2012/08	2019-10-04	Mid-Ebb	IS17	Sunny	Calm	15:56	11.2	Bottom	3	2	29.5	7.7	28.2	5.2	7	11.2
	HY/2012/08	2019-10-04	Mid-Flood	CS(Mf)5	Sunny	Moderate	10:30	_	Surface		11	29.6		27.3	5.5	4.5	6.6
	HY/2012/08	2019-10-04	Mid-Flood	CS(Mf)5	Sunny	Moderate		13.8	Surface	1	2	29.6		27.3	5.5	4.5	6.9
TMCLKL	HY/2012/08	2019-10-04	Mid-Flood	CS(Mf)5	Sunny	Moderate	10:30	13.8	Middle	2	[1	29.5	7.6	27.5	5.4	5	6.8

Project	Contract	Date	Tide	Stat	Weather	Sea Condition	Time	Water Depth	Level	Lev_Cod	Replicate	Temp(°C)	рН	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
TMCLKL	HY/2012/08	2019-10-04	Mid-Flood	CS(Mf)5	Sunny	Moderate	10:30	13.8	Middle	2	2	29.5	7.6	27.5	5.4	4.9	7.2
TMCLKL	HY/2012/08	2019-10-04	Mid-Flood	CS(Mf)5	Sunny	Moderate	10:30	13.8	Bottom	3	1	29.5	7.6	27.6	5.5	3.6	9
TMCLKL	HY/2012/08	2019-10-04	Mid-Flood	CS(Mf)5	Sunny	Moderate	10:30	13.8	Bottom	3	2	29.5	7.6	27.6	5.5	3.6	9.4
TMCLKL	HY/2012/08	2019-10-04	Mid-Flood	CS(Mf)3(N)	Sunny	Moderate	11:30	7.3	Surface	1	1	29.8	7.7	25.1	5.9	2.9	4
TMCLKL	HY/2012/08	2019-10-04	Mid-Flood	CS(Mf)3(N)	Sunny	Moderate	11:30	7.3	Surface	1	2	29.8	7.7	25.1	5.9	2.9	4.4
TMCLKL	HY/2012/08	2019-10-04	Mid-Flood	CS(Mf)3(N)	Sunny	Moderate	11:30	7.3	Middle	2	1	29.6	7.7	25.6	5.8	4.1	5.6
TMCLKL	HY/2012/08	2019-10-04	Mid-Flood	CS(Mf)3(N)	Sunny	Moderate	11:30	7.3	Middle	2	2	29.6	7.7	25.6	5.8	4	6
TMCLKL	HY/2012/08	2019-10-04	Mid-Flood	CS(Mf)3(N)	Sunny	Moderate	11:30	7.3	Bottom	3	1	29.4	7.7	26	5.8	7.2	6
TMCLKL	HY/2012/08	2019-10-04	Mid-Flood	CS(Mf)3(N)	Sunny	Moderate	11:30	7.3	Bottom	3	2	29.4	7.7	26	5.8	7.2	5.9
TMCLKL	HY/2012/08	2019-10-04	Mid-Flood	IS(Mf)16	Sunny	Moderate	12:13	5.2	Surface	1	1	29.7	7.7	26.9	5.6	5.7	6.6
TMCLKL	HY/2012/08	2019-10-04	Mid-Flood Mid-Flood	IS(Mf)16 IS(Mf)16	Sunny	Moderate	12:13 12:13	5.2 5.2	Surface Middle	2	1	29.7	7.7	26.9	5.6	5.7	6.5
TMCLKL TMCLKL	HY/2012/08 HY/2012/08	2019-10-04	Mid-Flood	IS(Mf)16	Sunny Sunny	Moderate Moderate	12:13	5.2	Middle	2	12	+	+		_		
TMCLKL	HY/2012/08	2019-10-04	Mid-Flood	IS(Mf)16	Sunny	Moderate	12:13	5.2	Bottom	2	1	29.7	7.7	27.2	5.6	6.3	6.7
TMCLKL	HY/2012/08	2019-10-04	Mid-Flood	IS(Mf)16	Sunny	Moderate		5.2	Bottom	3	2	29.7	7.7	27.2	5.6	6.2	7
TMCLKL	HY/2012/08	2019-10-04	Mid-Flood	SR4a	Sunny	Moderate	12:23	3.6	Surface	1	1	29.8	7.7	27.2	5.6	4.1	-
TMCLKL	HY/2012/08	2019-10-04	Mid-Flood	SR4a	Sunny	Moderate	12:23	3.6	Surface	1	2	29.8	7.7	27.2	5.6	4.1	8.3
TMCLKL	HY/2012/08	2019-10-04	Mid-Flood	SR4a	Sunny	Moderate	12:23	3.6	Middle	2	1	23.0	 ' · ' 	21.2	0.0	7.1	- 0.0
TMCLKL	HY/2012/08	2019-10-04	Mid-Flood	SR4a	Sunny	Moderate	12:23	3.6	Middle	2	2	1	1		1	1	+
TMCLKL	HY/2012/08	2019-10-04	Mid-Flood	SR4a	Sunny	Moderate	12:23	3.6	Bottom	3	11	29.8	7.7	27.4	5.7	3.7	7.3
TMCLKL	HY/2012/08	2019-10-04	Mid-Flood	SR4a	Sunny	Moderate	12:23	3.6	Bottom	3	2	29.8	7.7	27.4	5.7	3.7	7.1
TMCLKL	HY/2012/08	2019-10-04	Mid-Flood	SR4(N2)	Sunny	Moderate	12:27	3.8	Surface	1	1	30	7.7	26.9	5.7	3.7	5.8
TMCLKL	HY/2012/08	2019-10-04	Mid-Flood	SR4(N2)	Sunny	Moderate	_	3.8	Surface	1	2	30	7.7	26.9	5.7	3.6	5.5
TMCLKL	HY/2012/08	2019-10-04	Mid-Flood	SR4(N2)	Sunny	Moderate	_	3.8	Middle	2	1						
TMCLKL	HY/2012/08	2019-10-04	Mid-Flood	SR4(N2)	Sunny	Moderate	12:27	3.8	Middle	2	2						
TMCLKL	HY/2012/08	2019-10-04	Mid-Flood	SR4(N2)	Sunny	Moderate	12:27	3.8	Bottom	3	1	29.7	7.7	27.4	5.7	6.3	7.1
TMCLKL	HY/2012/08	2019-10-04	Mid-Flood	SR4(N2)	Sunny	Moderate	12:27	3.8	Bottom	3	2	29.7	7.7	27.3	5.7	6.2	7.3
TMCLKL	HY/2012/08	2019-10-04	Mid-Flood	IS8(N)	Sunny	Moderate	12:31	4.1	Surface	1	1	30	7.7	26.8	5.8	3	7.1
TMCLKL	HY/2012/08	2019-10-04	Mid-Flood	IS8(N)	Sunny	Moderate	12:31	4.1	Surface	1	2	30	7.7	26.8	5.8	3.1	7.4
TMCLKL	HY/2012/08	2019-10-04	Mid-Flood	IS8(N)	Sunny	Moderate		4.1	Middle	2	1						
TMCLKL	HY/2012/08	2019-10-04	Mid-Flood	IS8(N)	Sunny	Moderate	12:31	4.1	Middle	2	2						
TMCLKL	HY/2012/08	2019-10-04	Mid-Flood	IS8(N)	Sunny	Moderate		4.1	Bottom	3	1	29.8	7.7	27	5.8	4.6	8.4
TMCLKL	HY/2012/08	2019-10-04	Mid-Flood	IS8(N)	Sunny	Moderate	12:31	4.1	Bottom	3	2	29.8	7.7	27	5.8	4.6	8.1
TMCLKL	HY/2012/08	2019-10-04	Mid-Flood	IS(Mf)9	Sunny	Moderate	12:39	3.2	Surface	1	1	29.7	7.7	27.4	5.7	5.3	6.9
TMCLKL	HY/2012/08	2019-10-04	Mid-Flood	IS(Mf)9	Sunny	Moderate	12:39	3.2	Surface	1	2	29.7	7.7	27.4	5.7	5.3	6.7
TMCLKL	HY/2012/08	2019-10-04	Mid-Flood	IS(Mf)9	Sunny	Moderate	12:39	3.2	Middle	2	1		+				
TMCLKL	HY/2012/08	2019-10-04	Mid-Flood	IS(Mf)9	Sunny	Moderate	12:39	3.2	Middle	2	2	20.7	7 7	07.0		0.0	
TMCLKL	HY/2012/08	2019-10-04	Mid-Flood	IS(Mf)9	Sunny	Moderate	12:39	3.2	Bottom	3	1		7.7	27.8	5.5	8.6	8.8
TMCLKL TMCLKL	HY/2012/08 HY/2012/08	2019-10-04	Mid-Flood Mid-Flood	IS(Mf)9 IS(Mf)11	Sunny Sunny	Moderate Moderate	12:39 11:59	3.2 11.4	Bottom Surface	3	1	29.7 29.8	7.7	27.8 26.7	5.4 5.8	8.6 3.9	8.6 4.2
TMCLKL	HY/2012/08	2019-10-04	Mid-Flood	IS(Mf)11	Sunny	Moderate	11:59	11.4	Surface	1	2	29.8	7.7	26.7	5.8	3.9	4.4
TMCLKL	HY/2012/08	2019-10-04	Mid-Flood	IS(Mf)11	Sunny	Moderate	11:59	11.4	Middle	2	1	29.8	7.8	26.7	5.8	4.3	4.7
TMCLKL	HY/2012/08	2019-10-04	Mid-Flood	IS(Mf)11	Sunny	Moderate	11:59	11.4	Middle	2	2	29.8	7.8	26.7	5.8	4.3	4.8
TMCLKL	HY/2012/08	2019-10-04	Mid-Flood	IS(Mf)11	Sunny	Moderate	11:59	11.4	Bottom	3	1	29.6	7.8	27.1	5.7	8.5	5
TMCLKL	HY/2012/08	2019-10-04	Mid-Flood	IS(Mf)11	Sunny	Moderate	11:59	11.4	Bottom	3	2	29.6	7.8	27.1	5.7	8.5	4.7
TMCLKL	HY/2012/08	2019-10-04	Mid-Flood	SR7	Sunny	Moderate	10:52	4.5	Surface	1	1	29.6	7.7	26.6	5.6	4.3	6.1
TMCLKL	HY/2012/08	2019-10-04	Mid-Flood	SR7	Sunny	Moderate		4.5	Surface	1	2		7.7	26.6	5.6	4.2	6.4
TMCLKL	HY/2012/08	2019-10-04	Mid-Flood	SR7	Sunny	Moderate		4.5	Middle	2	1						
TMCLKL	HY/2012/08	2019-10-04	Mid-Flood	SR7	Sunny	Moderate	10:52	4.5	Middle	2	2						
TMCLKL	HY/2012/08	2019-10-04	Mid-Flood	SR7	Sunny	Moderate	10:52	4.5	Bottom	3	1	29.6	7.7	26.7	5.7	6.3	8.3
TMCLKL	HY/2012/08	2019-10-04	Mid-Flood	SR7	Sunny	Moderate	10:52	4.5	Bottom	3	2	29.6	7.7	26.7	5.7	6.2	8
TMCLKL	HY/2012/08	2019-10-04	Mid-Flood	IS17	Sunny	Moderate	12:07	9.8	Surface	1	1	29.5	7.7	27.5	5.3	4.6	8.2
TMCLKL	HY/2012/08	2019-10-04	Mid-Flood	IS17	Sunny	Moderate	12:07	9.8	Surface	1	2	29.5	7.7	27.5	5.3	4.6	7.8
TMCLKL	HY/2012/08	2019-10-04	Mid-Flood	IS17	Sunny	Moderate	_	9.8	Middle	2	1	29.5	7.7	27.5	5.4	8.3	10.3
TMCLKL	HY/2012/08	2019-10-04	Mid-Flood	IS17	Sunny	Moderate	_	9.8	Middle	2	2	29.5	7.7	27.5	5.4	8.2	10
TMCLKL	HY/2012/08	2019-10-04	Mid-Flood	IS17	Sunny	Moderate	12:07	9.8	Bottom	3	1	29.5	7.7	27.5	5.5	11.8	11.9
TMCLKL	HY/2012/08	2019-10-04	Mid-Flood	IS17	Sunny	Moderate	12:07	9.8	Bottom	3	2	29.5	7.7	27.5	5.5	11.8	11.6
TMCLKL	HY/2012/08	2019-10-09	Mid-Ebb	CS(Mf)5	Cloudy	Moderate	09:17	12.8	Surface	1	11	28.8	7.9	29.5	5.3	11.5	3.2
	HY/2012/08	2019-10-09	Mid-Ebb	CS(Mf)5	Cloudy	Moderate	09:17		Surface	1	2	28.8		29.5	5.3	11.5	3.2
	HY/2012/08	2019-10-09	Mid-Ebb	CS(Mf)5	Cloudy	Moderate		12.8	Middle	2	1 a	28.9		31	4.6	3.3	3.2
TMCLKL	HY/2012/08	2019-10-09	Mid-Ebb	CS(Mf)5	Cloudy	Moderate	09:17	12.8	Middle	2	2	29	7.9	[3]	4.6	3.3	3.5

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Project	Contract	Date	Tide	Stat	Weather	Condition	Time	Depth	Level	Lev_Cod	Replicate	Temp(°C)	рН	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
TMCLKL	HY/2012/08	2019-10-09	Mid-Ebb	CS(Mf)5	Cloudy	Moderate	09:17	12.8	Bottom	3	1	29.1	7.9	31.2	4.3	7.4	1.6
TMCLKL	HY/2012/08	2019-10-09	Mid-Ebb	CS(Mf)5	Cloudy	Moderate	09:17	12.8	Bottom	3	2	29.1	7.9	31.2	4.3	7.3	1.3
TMCLKL	HY/2012/08	2019-10-09	Mid-Ebb	CS(Mf)3(N)	Cloudy	Moderate	10:16	7.4	Surface	1	1	28.9	7.9	28.3	5.8	3.8	3.5
TMCLKL	HY/2012/08	2019-10-09	Mid-Ebb	CS(Mf)3(N)	Cloudy	Moderate	10:16	7.4	Surface	1	2	28.9	7.9	28.3	5.8	3.7	3.7
TMCLKL	HY/2012/08	2019-10-09	Mid-Ebb	CS(Mf)3(N)	Cloudy	Moderate	10:16	7.4	Middle	2	1	28.8	7.9	28.8	5.6	5.4	4.3
TMCLKL	HY/2012/08	2019-10-09	Mid-Ebb	CS(Mf)3(N)	Cloudy	Moderate	10:16	7.4	Middle	2	2	28.8	7.9	28.7	5.6	5.1	3.8
TMCLKL	HY/2012/08	2019-10-09	Mid-Ebb	CS(Mf)3(N)	Cloudy	Moderate	10:16	7.4	Bottom	3	1	28.8	7.9	29	5.7	6.2	6.4
TMCLKL	HY/2012/08	2019-10-09	Mid-Ebb	CS(Mf)3(N)	Cloudy	Moderate	10:16	7.4	Bottom	3	2	28.8	7.9	29	5.6	6.3	7
TMCLKL	HY/2012/08	2019-10-09	Mid-Ebb	IS(Mf)16	Cloudy	Moderate	10:55	5.7	Surface	1	1	28.8	7.9	28.6	5.5	8.3	7.1
TMCLKL	HY/2012/08	2019-10-09	Mid-Ebb	IS(Mf)16	Cloudy	Moderate	10:55	5.7	Surface	1	2	28.8	7.9	28.6	5.5	8.1	6.7
TMCLKL	HY/2012/08	2019-10-09	Mid-Ebb	IS(Mf)16	Cloudy	Moderate	10:55	5.7	Middle	2	1						
TMCLKL	HY/2012/08	2019-10-09	Mid-Ebb	IS(Mf)16	Cloudy	Moderate	10:55	5.7	Middle	2	2						
TMCLKL	HY/2012/08	2019-10-09	Mid-Ebb	IS(Mf)16	Cloudy	Moderate	10:55	5.7	Bottom	3	1	28.8	7.9	28.6	5.6	10.7	3.2
TMCLKL	HY/2012/08	2019-10-09	Mid-Ebb	IS(Mf)16	Cloudy	Moderate	10:55	5.7	Bottom	3	2	28.8	7.9	28.6	5.6	11	3.5
TMCLKL	HY/2012/08	2019-10-09	Mid-Ebb	SR4a	Cloudy	Calm	11:04	4.2	Surface	1	1	29	7.9	28.7	5	6.3	4
TMCLKL	HY/2012/08	2019-10-09	Mid-Ebb	SR4a	Cloudy	Calm	11:04	4.2	Surface	1	2	29	7.9	28.5	5	6.2	3.9
TMCLKL	HY/2012/08	2019-10-09	Mid-Ebb	SR4a	Cloudy	Calm	11:04	4.2	Middle	2	1						
TMCLKL	HY/2012/08	2019-10-09	Mid-Ebb	SR4a	Cloudy	Calm	11:04	4.2	Middle	2	2						
TMCLKL	HY/2012/08	2019-10-09	Mid-Ebb	SR4a	Cloudy	Calm	11:04	4.2	Bottom	3	1	29	7.9	29	4.7	6.6	5.4
TMCLKL	HY/2012/08	2019-10-09	Mid-Ebb	SR4a	Cloudy	Calm	11:04	4.2	Bottom	3	2	29	7.9	29.1	4.6	6.7	5.3
TMCLKL	HY/2012/08	2019-10-09	Mid-Ebb	SR4(N2)	Cloudy	Calm	11:09	3.5	Surface	1	1	29	7.9	28.5	5.1	8.5	5.6
TMCLKL	HY/2012/08	2019-10-09	Mid-Ebb	SR4(N2)	Cloudy	Calm	11:09	3.5	Surface	1	2	29	7.9	28.5	5	8.4	5.2
TMCLKL	HY/2012/08	2019-10-09	Mid-Ebb	SR4(N2)	Cloudy	Calm	11:09	3.5	Middle	2	1						
TMCLKL	HY/2012/08	2019-10-09	Mid-Ebb	SR4(N2)	Cloudy	Calm	11:09	3.5	Middle	2	2						
TMCLKL	HY/2012/08	2019-10-09	Mid-Ebb	SR4(N2)	Cloudy	Calm	11:09	3.5	Bottom	3	1	29	7.9	28.7	5	9.9	3.7
TMCLKL	HY/2012/08	2019-10-09	Mid-Ebb	SR4(N2)	Cloudy	Calm	11:09	3.5	Bottom	3	2	29	7.9	28.7	5	9.2	3.7
TMCLKL	HY/2012/08	2019-10-09	Mid-Ebb	IS8(N)	Cloudy	Calm	11:14	3.9	Surface	1	1	28.9	7.9	28.6	5.1	10.8	4.5
TMCLKL	HY/2012/08	2019-10-09	Mid-Ebb	IS8(N)	Cloudy	Calm	11:14	3.9	Surface	1	2	28.9	7.9	28.5	5.1	10.3	4.6
TMCLKL	HY/2012/08	2019-10-09	Mid-Ebb	IS8(N)	Cloudy	Calm		3.9	Middle	2	1						
TMCLKL	HY/2012/08	2019-10-09	Mid-Ebb	IS8(N)	Cloudy	Calm	11:14	3.9	Middle	2	2						
TMCLKL	HY/2012/08	2019-10-09	Mid-Ebb	IS8(N)	Cloudy	Calm	11:14	3.9	Bottom	3	1	28.9	7.9	28.8	5.1	9.6	3.6
TMCLKL	HY/2012/08	2019-10-09	Mid-Ebb	IS8(N)	Cloudy	Calm		3.9	Bottom	3	2	28.9	7.9	28.8	5.1	9.6	3.3
TMCLKL	HY/2012/08	2019-10-09	Mid-Ebb	IS(Mf)9	Cloudy	Calm		2.8	Surface	1	1						7.2
TMCLKL	HY/2012/08	2019-10-09	Mid-Ebb	IS(Mf)9	Cloudy	Calm		2.8	Surface	1	2						7.6
TMCLKL	HY/2012/08	2019-10-09	Mid-Ebb	IS(Mf)9	Cloudy	Calm	11:22	2.8	Middle	2	1	28.9	7.9	28.5	5.6	9.4	
TMCLKL	HY/2012/08	2019-10-09	Mid-Ebb	IS(Mf)9	Cloudy	Calm	11:22	2.8	Middle	2	2	28.9	7.9	28.5	5.6	8.9	
TMCLKL	HY/2012/08	2019-10-09	Mid-Ebb	IS(Mf)9	Cloudy	Calm	11:22	2.8	Bottom	3	1						16.1
TMCLKL	HY/2012/08	2019-10-09	Mid-Ebb	IS(Mf)9	Cloudy	Calm	11:22	2.8	Bottom	3	2						14.5
TMCLKL	HY/2012/08	2019-10-09	Mid-Ebb	IS(Mf)11	Cloudy	Moderate		11.2	Surface	1	1	28.9	7.9	28.7	5.5	6.2	5.2
TMCLKL	HY/2012/08	2019-10-09	Mid-Ebb	IS(Mf)11	Cloudy	Moderate		11.2	Surface	1	2	29	7.9	28.6	5.5	5.7	4.7
TMCLKL	HY/2012/08	2019-10-09	Mid-Ebb	IS(Mf)11	Cloudy	Moderate		11.2	Middle	2	1	29	7.9	29	5	9.4	6.7
TMCLKL	HY/2012/08	2019-10-09	Mid-Ebb	IS(Mf)11	Cloudy	Moderate		11.2	Middle	2	2	29	7.9	28.9	5.1	9.5	7.3
TMCLKL	HY/2012/08	2019-10-09	Mid-Ebb	IS(Mf)11	Cloudy	Moderate		11.2	Bottom	3	1	29	7.9	29.1	5	12.2	12.9
TMCLKL	HY/2012/08	2019-10-09	Mid-Ebb	IS(Mf)11	Cloudy	Moderate		11.2	Bottom	3	2	29	7.9	29.2	5	12.5	13.6
TMCLKL	HY/2012/08	2019-10-09	Mid-Ebb	SR7	Cloudy	Moderate	09:44	4.3	Surface	1	1	28.9	7.8	29.3	5.3	5.4	5.5
TMCLKL	HY/2012/08	2019-10-09	Mid-Ebb	SR7	Cloudy	Moderate		4.3	Surface	1	2	28.9	7.8	29.3	5.2	5.2	5.5
TMCLKL	HY/2012/08	2019-10-09	Mid-Ebb	SR7	Cloudy	Moderate	09:44	4.3	Middle	2	1		<u> </u>		-		
TMCLKL	HY/2012/08	2019-10-09	Mid-Ebb	SR7	Cloudy	Moderate		4.3	Middle	2	2	100.0	 	00.5	ļ <u>.</u>	15.0	
TMCLKL	HY/2012/08	2019-10-09	Mid-Ebb	SR7	Cloudy	Moderate		4.3	Bottom	3	1	28.9	7.8	29.5	5.4	5.9	4
TMCLKL	HY/2012/08	2019-10-09	Mid-Ebb	SR7	Cloudy	Moderate		4.3	Bottom	3	2	28.9	7.8	29.5	5.4	6.1	3.7
TMCLKL	HY/2012/08	2019-10-09	Mid-Ebb	IS17	Cloudy	Moderate		9.4	Surface	1	1	29	7.9	29	5.3	6.6	6.6
TMCLKL	HY/2012/08	2019-10-09	Mid-Ebb	IS17	Cloudy	Moderate	10:47	9.4	Surface	1	2	29	7.9	29	5.3	6.7	6.1
TMCLKL	HY/2012/08	2019-10-09	Mid-Ebb	IS17	Cloudy	Moderate	10:47	9.4	Middle	2	11	29	7.9	29.3	5	6.8	3.5
TMCLKL	HY/2012/08	2019-10-09	Mid-Ebb	IS17	Cloudy	Moderate	10:47	9.4	Middle	2	2	29	7.9	29.2	5.1	/	3.4
TMCLKL	HY/2012/08	2019-10-09	Mid-Ebb	IS17	Cloudy	Moderate		9.4	Bottom	3	1	29	7.9	29.7	4.8	6.6	3.5
TMCLKL	HY/2012/08	2019-10-09	Mid-Ebb	IS17	Cloudy	Moderate		9.4	Bottom	3	2	29	7.9	29.6	4.8	6.6	3.2
TMCLKL	HY/2012/08	2019-10-09	Mid-Flood	CS(Mf)5	Cloudy	Moderate	17:52	12.9	Surface	1	1	29.1	7.9	29.4	5.4	3.2	2
TMCLKL	HY/2012/08	2019-10-09	Mid-Flood	CS(Mf)5	Cloudy	Moderate	17:52	12.9	Surface	11	2	29.1	7.9	29.4	5.4	3.1	2.1
	HY/2012/08	2019-10-09	Mid-Flood		Cloudy	Moderate	17:52	12.9	Middle	2	11		7.9	30.6	4.7	7.7	3.3
	HY/2012/08 HY/2012/08	2019-10-09 2019-10-09	Mid-Flood	CS(Mf)5	Cloudy	Moderate	17:52	12.9	Middle	2	2	29		30.6 30.5	4.7	7.6 7.5	3.1 4.8
			Mid-Flood	CS(Mf)5	Cloudy	Moderate	17:52	12.9	Bottom	3	11	29	1 / U	1305	1/1 /	1/5	1/1 😾

Western			Τ			I	Sea		Water	Π	I		T	T	T	T	T	
Michael Mich	Project	Contract	Date	Tide	Stat	Weather		Time		Level	Lev_Cod	Replicate	Temp(°C)	рН	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
Michael Mich	TMOLICI	LIV/2042/00	2040 40 00	Mid Flood	CC/Mt\E	Claudy		47.50		Dottom	2	2	20	7.0	20.6		0.0	4.2
Mile Privide					· · ·				1	 	3	2	+			4.7		
Model									1	 	1	1				6	-	
Michael Mich									1		1	2	-		+	6		
Micycle Micy											2	1				6		
Micycle Micy											2	2				6		
Minches Minc		ļ		<u> </u>							3	1				6		
Michael Mich			+		· · · · ·						3	2			+	6		
Michael Mich		<u> </u>		-	· '						1	1			+			
Indexts	TMCLKL	HY/2012/08							5.8		1	2	29.3	7.9	29	5.6	6.5	7.6
Michael Private Priv	TMCLKL	HY/2012/08	2019-10-09	Mid-Flood	IS(Mf)16	Cloudy	Moderate	16:21	5.8	Middle	2	1						
Michael Mich	TMCLKL	HY/2012/08	2019-10-09	Mid-Flood	IS(Mf)16	Cloudy	Moderate	16:21	5.8	Middle	2	2						
INCLIG. INVESTIGES 2019-1-0-09 Mid-Flood SR44 Clausy Calm 16:12 4.4 Surface 1 2 22 7.9 29:1 5.1 8.1 2.9 INCLIG. INVESTIGES 2019-1-0-09 Mid-Flood SR44 Clausy Calm 16:12 4.4 Middle 2 2 29:2 7.9 29:1 5.1 8.1 2.9 INCLIG. INCIG. INCLIG. INCID. INCLIG. INCLI	TMCLKL	HY/2012/08	2019-10-09	Mid-Flood	IS(Mf)16	Cloudy	Moderate	16:21	5.8	Bottom	3	1	29.3	7.9	29.4	5.5	9.4	5.9
INCLICAL MY201208 2019-10-09 Mod-Food SR44 Claudy Calm 16:12 4.4 Models 2 1	TMCLKL	HY/2012/08	2019-10-09	Mid-Flood	IS(Mf)16	Cloudy	Moderate	16:21	5.8	Bottom	3	2	29.3	7.9	29.4	5.4	9.7	5.3
INCLICAL MY201208 2019-10-09 Mod-Food SR44 Claudy Calm 16:12 4.4 Models 2 1	TMCLKL	HY/2012/08	2019-10-09	Mid-Flood	SR4a	Cloudy	Calm	16:12	4.4	Surface	1	1	29.2	7.9	29.1	5.1	8.1	2.9
MICLICAL MY201208 2019-10-09 Mid-Flood SR4da Cloudy Calm 16:12 4.4 Middle 2 1						_					1	2						
MICLICAL MY201208 2019-10-09 Mid-Flood SR4a Cloudy Calm 16:12 4.4 Middle 2 2 7.8 22 5.3 8.8 3.8 MICLICAL MY201208 2019-10-09 Mid-Flood SR4a Cloudy Calm 16:12 4.4 Bottom 3 2 29.2 7.8 29.1 5.2 8.6 3.8 MICLICAL MY201208 2019-10-09 Mid-Flood SR4a Cloudy Calm 16:12 4.4 Bottom 3 2 29.2 7.8 29.1 5.2 8.6 3.8 MICLICAL MY201208 2019-10-09 Mid-Flood SR4d Cloudy Calm 16:08 4.1 Surface 1 29.2 7.9 28.8 5.3 8.1 4.8 MICLICAL MY201208 2019-10-09 Mid-Flood SR4d Cloudy Calm 16:08 4.1 MIGGIN Cloudy Calm MICLICAL MY201208 2019-10-09 Mid-Flood SR4d Cloudy Calm 16:08 4.1 MIGGIN Cloudy Calm MICLICAL MY201208 2019-10-09 Mid-Flood SR4d Cloudy Calm 16:08 4.1 Bottom 3 1 29.2 7.9 28.8 5.2 11.3 1.8 MICLICAL MY201208 2019-10-09 Mid-Flood SR4d Cloudy Calm 16:08 4.1 Bottom 3 2 20.2 7.9 28.8 5.2 11.3 1.8 MICLICAL MY201208 2019-10-09 Mid-Flood SR4d Cloudy Calm 16:08 4.1 Bottom 3 2 20.2 7.9 28.8 5.2 11.3 1.8 MICLICAL MY201208 2019-10-09 Mid-Flood SR4d Cloudy Calm 16:08 4.1 Bottom 3 2 20.2 7.9 28.8 5.2 11.3 1.8 MICLICAL MY201208 2019-10-09 Mid-Flood SR4d Cloudy Calm 16:02 3.6 Surface 1 29.4 7.9 29.1 5.3 3.1 3.5 MICLICAL MY201208 2019-10-09 Mid-Flood SR4d Cloudy Calm 16:02 3.6 Surface 1 29.4 7.9 29.1 5.3 3.1 3.5 MICLICAL MY201208 2019-10-09 Mid-Flood SR4d Cloudy Calm 16:02 3.6 Surface 1 29.3 7.9 29.1 5.3 3.2 3.5 MICLICAL MY201208 2019-10-09 Mid-Flood SR4d Cloudy Calm 16:02 3.6 Surface 1 29.3 7.9 29.3 5.4 10.1 2.8 MICLICAL MY201208 2019-10-09 Mid-Flood SR4d Cloudy Calm 16:02 3.6 Surface 1 29.3 7.9 29.3 5.4 10.1 2.8 MICLICAL MY201208 2019-10-09 Mid-F											2	1						
MICLICAL MY201208 2019-10-09 Mid-Flood SR44p Cloudy Calm 1612 4.4 Bottom 3 1 29 7.6 202 5.3 8.8 3.6									† 		2	2		1				
MINCLEAN MY207208 2019-10-09 MINF Flood SR4N/N2 Coloudy Calm 16:08 4.1 Surface 1 2 29.2 7.8 29.1 5.2 9.6 3.8										 	3	1	29	7.8	20.2	5.3	8.8	3.6
Mickel My201208 2019-10-09 Mid-Flood SR4IN2 Cloudy Calm 16.08 4.1 Surface 1 29.2 7.9 28.8 5.3 9.1 4.8						_			<u> </u>	 	3	2						
TMCLKL MY201208 2019-10-09 Mol-Flood SR4My2 Cloudy Calm 16:08 4.1 Middle 2 2 2.2 2.9 2.8 5.4 9.4 4.5									7. 7		1	1						_
TMCLKL MY201208 2019-10-09 Mol-Flood SR4My2 Cloudy Calm 16:08 4.1 Models 2 1					\ /				4.1		1	2		+				
MRCKLK, HY201208 2019-10-09 Mid-Flood SR4(N2) Cloudy Calm 16:08 4.1 Middle 2 2 7.9 28.8 5.2 11.4 1.9 MIMCKLK, HY201208 2019-10-09 Mid-Flood SR4(N2) Cloudy Calm 16:08 4.1 Bottom 3 1 29.2 7.9 28.8 5.2 11.4 1.9 MIMCKLK, HY201208 2019-10-09 Mid-Flood SR4(N2) Cloudy Calm 16:08 4.1 Bottom 3 1 29.2 7.9 28.8 5.2 11.4 1.9 MIMCKLK, HY201208 2019-10-09 Mid-Flood SR4(N2) Cloudy Calm 16:02 3.6 Surface 1 1 29.4 7.9 29.1 5.3 9.1 5.3 9.1 3.5 MIMCKLK, HY201208 2019-10-09 Mid-Flood SR4(N2) Cloudy Calm 16:02 3.6 Surface 1 2 2 29.4 7.9 29.1 5.3 9.2 3.5 MIMCKLK, HY201208 2019-10-09 Mid-Flood SR4(N2) Cloudy Calm 16:02 3.6 Surface 1 2 2 2 2 2 2 2 2 2					 				4.1		1	4	29.2	17.9	20.0	0.4	J.4	4.0
MRCIKEL MY201208 2019-10-09 Mid-Flood SR4(N2) Cloudy Calm 16:08 4.1 Bottom 3 2 29.2 7.9 28.8 5.2 11:3 1.8									4.1		2	1	1	+	1	1	1	+
TMCLKL H7/2012/08 2019-10-09 Mid-Flood SR(N) Cloudy Calm 16:08 4.1 Bottom 3 2 29.2 7.9 28.8 5.2 11.4 1.9					· /				4.1		2	2	22.2	 	22.2		11.0	1.0
TMCKLK, HY/201208 2019-10-09 Mid-Flood S8(N) Cloudy Calm 16:02 3.6 Surface 1 2 24 7.9 29.1 5.3 9.1 3.5					\ /				4.1		3	1						_
TMCKLK H7/2012/08 2019-10-09 Mid-Flood IS8NN Cloudy Calm 16.02 3.6 Middle 2 1					· /						3	2		+				
MicRick MY2012/08 2019-10-99 MicFlood S8(N) Cloudy Calm 16:02 3.6 Middle 2 1											1	1						
Mincle My2012/08 2019-10-99 Mid-Flood ISS(N) Cloudy Calm 16:02 3.6 Mindle 2 2 2 3 5.4 10.1 2.8 2.6 1.7 2.6 2.7 2.6 1.7 2.6 2	TMCLKL	HY/2012/08							3.6		1	2	29.4	7.9	29.1	5.3	9.2	3.5
TMCLKL HY/201208 2019-10-09 Mid-Flood IS8(N) Cloudy Calm 16:02 3.6 Bottom 3 1 29:3 7.8 29:3 5.4 10:1 2.8	TMCLKL	HY/2012/08	2019-10-09	Mid-Flood	IS8(N)	Cloudy	Calm	16:02	3.6	Middle	2	1						
TMCLKL HY201208 2019-10-09 Mid-Flood SS(N) Cloudy Calm 16:56 2.7 Surface 1 1	TMCLKL	HY/2012/08	2019-10-09	Mid-Flood	IS8(N)	Cloudy	Calm	16:02	3.6	Middle	2	2						
TMCLKL HY/201208 2019-10-09 Mid-Flood ISB(N) Cloudy Calm 16:02 3.6 Bottom 3 2 2.9.3 7.8 29.3 5.4 10 2.6 Entrology Entrolog	TMCLKL	HY/2012/08	2019-10-09	Mid-Flood	IS8(N)	Cloudy	Calm	16:02	3.6	Bottom	3	1	29.3	7.8	29.3	5.4	10.1	2.8
TMCIKIL HY201208 2019-10-99 Mid-Flood ISIMf9 Cloudy Calm 15:56 2.7 Surface 1 2 5.3	TMCLKL	HY/2012/08	2019-10-09	Mid-Flood		Cloudy	Calm	16:02	3.6	Bottom	3	2	29.3	7.8	29.3	5.4	10	2.6
TMCLKL HY/2012/08 2019-10-09 Mid-Flood ISIMfl9 Cloudy Calm 15:56 2.7 Middle 2 1 29.3 7.9 28.9 5.4 11.8	TMCLKL										1	1						6
TMCLKL HY/2012/08 2019-10-99 Mid-Flood SIM/9 Cloudy Calm 15:56 2.7 Middle 2 2 23.3 7.9 28.9 5.4 11.7											1	2		1				5.3
TMCLKL HY/2012/08 2019-10-09 Mid-Flood IS(Mf)9 Cloudy Calm 15:56 2.7 Middle 2 2 29:3 7.9 28:9 5.4 11.8					- 	,					2	1	29.3	7.9	28.9	5.4	11 7	0.0
TMCLKL HY/2012/08 2019-10-09 Mid-Flood IS(M)9 Cloudy Calm 15:56 2.7 Bottom 3 1					- 						2	2						
TMCLKL HY/2012/08 2019-10-09 Mid-Flood IS(Mf)9 Cloudy Calm 15.56 2.7 Bottom 3 2									+	 	2	1	23.3	17.5	20.5	0.4	111.0	12
TMCLKL HY/2012/08 2019-10-09 Mid-Flood IS(Mf)11 Cloudy Moderate 16:33 11.3 Surface 1 29.2 7.9 28.7 5.7 8.2 3.7											2	2		+		1		
TMCLKL HY/2012/08 2019-10-09 Mid-Flood IS(M)11 Cloudy Moderate 16:33 11.3 Surface 1 2 29.2 7.9 28.6 5.7 8.5 3.6 TMCLKL HY/2012/08 2019-10-09 Mid-Flood IS(M)11 Cloudy Moderate 16:33 11.3 Middle 2 1 29.1 7.9 29.5 5.3 10.8 6.9 TMCLKL HY/2012/08 2019-10-09 Mid-Flood IS(M)11 Cloudy Moderate 16:33 11.3 Middle 2 2 29.1 7.9 29.3 5.3 10.5 7 TMCLKL HY/2012/08 2019-10-09 Mid-Flood IS(M)11 Cloudy Moderate 16:33 11.3 Middle 2 2 29.1 7.9 29.5 5.3 10.5 7 TMCLKL HY/2012/08 2019-10-09 Mid-Flood IS(M)11 Cloudy Moderate 16:33 11.3 Bottom 3 1 29 7.9 29.5 5.3 12.9 16.5 TMCLKL HY/2012/08 2019-10-09 Mid-Flood S(M)11 Cloudy Moderate 16:33 11.3 Bottom 3 2 29.1 7.9 29.5 5.3 12.9 16.5 TMCLKL HY/2012/08 2019-10-09 Mid-Flood SR7 Cloudy Moderate 17:29 4.3 Surface 1 1 29.2 7.9 29 5.6 11.2 6.7 TMCLKL HY/2012/08 2019-10-09 Mid-Flood SR7 Cloudy Moderate 17:29 4.3 Surface 1 2 29.2 7.9 29 5.6 11. 6.5 TMCLKL HY/2012/08 2019-10-09 Mid-Flood SR7 Cloudy Moderate 17:29 4.3 Surface 1 2 29.2 7.9 29 5.6 11. 6.5 TMCLKL HY/2012/08 2019-10-09 Mid-Flood SR7 Cloudy Moderate 17:29 4.3 Middle 2 1 TMCLKL HY/2012/08 2019-10-09 Mid-Flood SR7 Cloudy Moderate 17:29 4.3 Middle 2 TMCLKL HY/2012/08 2019-10-09 Mid-Flood SR7 Cloudy Moderate 17:29 4.3 Bottom 3 1 29.2 7.8 29 5.9 13.3 7.6 TMCLKL HY/2012/08 2019-10-09 Mid-Flood SR7 Cloudy Moderate 17:29 4.3 Bottom 3 1 29.2 7.8 29 5.8 13.2 7.7 TMCLKL HY/2012/08 2019-10-09 Mid-Flood SR7 Cloudy Moderate 17:29 4.3 Bottom 3 1 29.2 7.8 29 5.8 13.2 7.7 TMCLKL HY/2012/08 2019-10-09 Mid-Flood SR7 Cloudy Moderate 16:27 10.1 Surface 1 1 29.1 7.9 29.5 5.3 6.2 7 TMCLKL HY/2012/08 2019-10-09 Mid-Flood IS17 Cloudy Moderate 16:27 10.1 Surface 1 1 29.1 7.9 29.6 5.3 6.2 7 TMCLKL HY/2012/08 2019-10-09 Mid-Flood IS17 Cloudy Moderate 16:27 10.1 Surface 1 1 29.1 7.9 29.6 5 10.4 5.4 TMCLKL HY/2012/08 2019-10-09 Mid-Flood IS17 Cloudy Moderate 16:27 10.1 Surface 1 1 29.1 7.9 29.6 5 10.4 5.4 TMCLKL HY/2012/08 2019-10-09 Mid-Flood IS17 Cloudy Moderate 16:27 10.1 Surface 1 1 29.1 7.9 29.6 5 5 10.4 5.9 TMCLKL HY/201									+		3	4	20.2	7.0	20.7	F 7	0.0	
TMCLKL HY/2012/08 2019-10-09 Mid-Flood SR/Mi)11 Cloudy Moderate 16:33 11.3 Middle 2 1 29.1 7.9 29.5 5.3 10.8 6.9 TMCLKL HY/2012/08 2019-10-09 Mid-Flood IS(Mi)11 Cloudy Moderate 16:33 11.3 Bottom 3 1 29 7.9 29.5 5.4 13.1 15.7 TMCLKL HY/2012/08 2019-10-09 Mid-Flood IS(Mi)11 Cloudy Moderate 16:33 11.3 Bottom 3 1 29 7.9 29.5 5.4 13.1 15.7 TMCLKL HY/2012/08 2019-10-09 Mid-Flood SR/T Cloudy Moderate 17:29 4.3 Surface 1 1 29.1 7.9 29.5 5.6 11.2 6.7 TMCLKL HY/2012/08 2019-10-09 Mid-Flood SR/T Cloudy Moderate 17:29 4.3 Surface 1 1 29.2 7.9 29 5.6 11.2 6.7 TMCLKL HY/2012/08 2019-10-09 Mid-Flood SR/T Cloudy Moderate 17:29 4.3 Surface 1 2 29.2 7.9 29 5.6 11.2 6.7 TMCLKL HY/2012/08 2019-10-09 Mid-Flood SR/T Cloudy Moderate 17:29 4.3 Surface 1 2 29.2 7.9 29 5.6 11.2 6.7 TMCLKL HY/2012/08 2019-10-09 Mid-Flood SR/T Cloudy Moderate 17:29 4.3 Surface 1 2 29.2 7.9 29 5.6 11.0 STMCLKL HY/2012/08 2019-10-09 Mid-Flood SR/T Cloudy Moderate 17:29 4.3 Middle 2 1 TMCLKL HY/2012/08 2019-10-09 Mid-Flood SR/T Cloudy Moderate 17:29 4.3 Middle 2 1 TMCLKL HY/2012/08 2019-10-09 Mid-Flood SR/T Cloudy Moderate 17:29 4.3 Middle 2 1 TMCLKL HY/2012/08 2019-10-09 Mid-Flood SR/T Cloudy Moderate 17:29 4.3 Bottom 3 1 29.2 7.8 29 5.9 13.3 7.6 TMCLKL HY/2012/08 2019-10-09 Mid-Flood SR/T Cloudy Moderate 17:29 4.3 Bottom 3 1 29.2 7.8 29 5.9 13.3 7.6 TMCLKL HY/2012/08 2019-10-09 Mid-Flood SR/T Cloudy Moderate 17:29 4.3 Bottom 3 1 29.2 7.8 29 5.9 5.3 6.2 7.7 TMCLKL HY/2012/08 2019-10-09 Mid-Flood IS17 Cloudy Moderate 16:27 10.1 Surface 1 2 29.1 7.9 29.5 5.3 6.3 6.2 7.7 TMCLKL HY/2012/08 2019-10-09 Mid-Flood IS17 Cloudy Moderate 16:27 10.1 Surface 1 2 29.1 7.9 29.9 5.3 6.3 6.3 6.6 TMCLKL HY/2012/08 2019-10-09 Mid-Flood IS17 Cloudy Moderate 16:27 10.1 Middle 2 2 29.1 7.9 28.9 5.9 5.9 13.3 6.3 6.6 TMCLKL HY/2012/08 2019-10-09 Mid-Flood IS17 Cloudy Moderate 16:27 10.1 Middle 2 2 29.1 7.9 28.6 5.9 5.9 4.9 TMCLKL HY/2012/08 2019-10-09 Mid-Flood IS17 Cloudy Moderate 16:27 10.1 Bottom 3 1 29.1 7.9 29.8 5.2 9.3 5.2 9.3 5.2 TMCLKL HY/2012/08 2019-10-09 Mid-Flood IS17					 						1	1						_
TMCLKL HY/2012/08 2019-10-09 Mid-Flood IS(Mf)11 Cloudy Moderate 16:33 11.3 Middle 2 2 2 29.1 7.9 29.3 5.3 10.5 7 TMCLKL HY/2012/08 2019-10-09 Mid-Flood IS(Mf)11 Cloudy Moderate 16:33 11.3 Bottom 3 1 29 7.9 29.5 5.4 13.1 15.7 TMCLKL HY/2012/08 2019-10-09 Mid-Flood IS(Mf)11 Cloudy Moderate 16:33 11.3 Bottom 3 2 29.1 7.9 29.5 5.3 12.9 16.5 TMCLKL HY/2012/08 2019-10-09 Mid-Flood SR7 Cloudy Moderate 17:29 4.3 Surface 1 1 29.2 7.9 29 5.6 11.2 6.7 TMCLKL HY/2012/08 2019-10-09 Mid-Flood SR7 Cloudy Moderate 17:29 4.3 Surface 1 1 29.2 7.9 29 5.6 11.0 6.5 TMCLKL HY/2012/08 2019-10-09 Mid-Flood SR7 Cloudy Moderate 17:29 4.3 Middle 2 1 TMCLKL HY/2012/08 2019-10-09 Mid-Flood SR7 Cloudy Moderate 17:29 4.3 Middle 2 1 TMCLKL HY/2012/08 2019-10-09 Mid-Flood SR7 Cloudy Moderate 17:29 4.3 Middle 2 1 TMCLKL HY/2012/08 2019-10-09 Mid-Flood SR7 Cloudy Moderate 17:29 4.3 Middle 2 1 TMCLKL HY/2012/08 2019-10-09 Mid-Flood SR7 Cloudy Moderate 17:29 4.3 Bottom 3 1 29.2 7.8 29 5.9 13.3 7.6 TMCLKL HY/2012/08 2019-10-09 Mid-Flood SR7 Cloudy Moderate 17:29 4.3 Bottom 3 1 29.2 7.8 29 5.9 13.3 7.6 TMCLKL HY/2012/08 2019-10-09 Mid-Flood SR7 Cloudy Moderate 17:29 4.3 Bottom 3 1 29.2 7.8 29 5.8 13.2 7.7 TMCLKL HY/2012/08 2019-10-09 Mid-Flood SR7 Cloudy Moderate 17:29 4.3 Bottom 3 1 29.2 7.8 29 5.8 13.2 7.7 TMCLKL HY/2012/08 2019-10-09 Mid-Flood SR7 Cloudy Moderate 16:27 10.1 Surface 1 1 29.1 7.9 29 5.3 6.2 7 TMCLKL HY/2012/08 2019-10-09 Mid-Flood IS17 Cloudy Moderate 16:27 10.1 Surface 1 1 29.1 7.9 29 5.3 6.2 7 TMCLKL HY/2012/08 2019-10-09 Mid-Flood IS17 Cloudy Moderate 16:27 10.1 Surface 1 2 29.1 7.9 29.6 5 10.3 5.2 TMCLKL HY/2012/08 2019-10-09 Mid-Flood IS17 Cloudy Moderate 16:27 10.1 Middle 2 2 29.1 7.9 29.6 5 10.4 5.4 TMCLKL HY/2012/08 2019-10-09 Mid-Flood IS17 Cloudy Moderate 16:27 10.1 Bottom 3 1 29.1 7.9 29.8 5.2 9.5 10.4 5.4 TMCLKL HY/2012/08 2019-10-09 Mid-Flood IS17 Cloudy Moderate 16:27 10.1 Bottom 3 1 29.1 7.9 29.8 5.2 9.5 10.4 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb CS(Mf)5 Sunny Moderate 09:56 14.5 Surface 1 2 28.1 7.8 24.9 6.2 3.5 10.4					· ` '						1	2						
TMCLKL HY/2012/08 2019-10-09 Mid-Flood IS(Mf)11 Cloudy Moderate 16:33 11.3 Bottom 3 1 29 7.9 29.5 5.4 13.1 15.7 IMCLKL HY/2012/08 2019-10-09 Mid-Flood IS(Mf)11 Cloudy Moderate 16:33 11.3 Bottom 3 2 29.1 7.9 29.5 5.3 12.9 16.5 IMCLKL HY/2012/08 2019-10-09 Mid-Flood SR7 Cloudy Moderate 17:29 4.3 Surface 1 1 29.2 7.9 29 5.6 11.2 6.7 IMCLKL HY/2012/08 2019-10-09 Mid-Flood SR7 Cloudy Moderate 17:29 4.3 Surface 1 1 29.2 7.9 29 5.6 11. 6.5 IMCLKL HY/2012/08 2019-10-09 Mid-Flood SR7 Cloudy Moderate 17:29 4.3 Middle 2 1 IMCLKL HY/2012/08 2019-10-09 Mid-Flood SR7 Cloudy Moderate 17:29 4.3 Middle 2 1 IMCLKL HY/2012/08 2019-10-09 Mid-Flood SR7 Cloudy Moderate 17:29 4.3 Middle 2 2 IMCLKL HY/2012/08 2019-10-09 Mid-Flood SR7 Cloudy Moderate 17:29 4.3 Middle 2 2 IMCLKL HY/2012/08 2019-10-09 Mid-Flood SR7 Cloudy Moderate 17:29 4.3 Bottom 3 1 29.2 7.8 29 5.9 13.3 7.6 IMCLKL HY/2012/08 2019-10-09 Mid-Flood SR7 Cloudy Moderate 17:29 4.3 Bottom 3 1 29.2 7.8 29 5.9 13.3 7.6 IMCLKL HY/2012/08 2019-10-09 Mid-Flood SR7 Cloudy Moderate 17:29 4.3 Bottom 3 1 29.2 7.8 29 5.3 6.2 7.7 IMCLKL HY/2012/08 2019-10-09 Mid-Flood IS17 Cloudy Moderate 17:29 4.3 Bottom 3 2 29.2 7.8 29 5.3 6.2 7.7 IMCLKL HY/2012/08 2019-10-09 Mid-Flood IS17 Cloudy Moderate 16:27 10.1 Surface 1 29.1 7.9 28.9 5.3 6.2 7.7 IMCLKL HY/2012/08 2019-10-09 Mid-Flood IS17 Cloudy Moderate 16:27 10.1 Surface 1 29.1 7.9 29.5 5.3 6.3 6.2 7 IMCLKL HY/2012/08 2019-10-09 Mid-Flood IS17 Cloudy Moderate 16:27 10.1 Middle 2 1 29.1 7.9 29.8 5.3 6.3 6.3 6.6 IMCLKL HY/2012/08 2019-10-09 Mid-Flood IS17 Cloudy Moderate 16:27 10.1 Middle 2 1 29.1 7.9 29.8 5.2 9.3 5.2 IMCLKL HY/2012/08 2019-10-09 Mid-Flood IS17 Cloudy Moderate 16:27 10.1 Bottom 3 1 29.1 7.9 29.8 5.2 9.3 5.2 IMCLKL HY/2012/08 2019-10-09 Mid-Flood IS17 Cloudy Moderate 16:27 10.1 Bottom 3 1 29.1 7.9 29.8 5.2 9.3 5.2 IMCLKL HY/2012/08 2019-10-01 Mid-Flood IS17 Cloudy Moderate 16:27 10.1 Bottom 3 1 29.1 7.9 29.8 5.2 9.3 5.2 9.3 5.2 IMCLKL HY/2012/08 2019-10-01 Mid-Flood IS17 Cloudy Moderate 16:27 10.1 Bottom 3 1 29.1 7.9 29.8 5.2 9.											2	1						6.9
TMCLKL HY/2012/08 2019-10-09 Mid-Flood IS(Mf)11 Cloudy Moderate 16:33 11:3 Bottom 3 2 29:1 7.9 29:5 5.3 12:9 16:5											2	2		+				7
TMCLKL HY/2012/08 2019-10-09 Mid-Flood SR7 Cloudy Moderate 17:29 4.3 Surface 1 1 29.2 7.9 29 5.6 11.2 6.7											3	1						
TMCLKL HY/2012/08 2019-10-09 Mid-Flood SR7 Cloudy Moderate 17:29 4.3 Surface 1 2 29.2 7.9 29 5.6 11 6.5 TMCLKL HY/2012/08 2019-10-09 Mid-Flood SR7 Cloudy Moderate 17:29 4.3 Middle 2 1	TMCLKL				\ /	_					3	2						
TMCLKL HY/2012/08 2019-10-09 Mid-Flood SR7 Cloudy Moderate 17:29 4.3 Middle 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 2 1 1 2 2 2 1 1 2 2 2 1 1 2 2 2 1 1 2 2 2 2 2 2 1 1 2 2 2 2 2 5 9 13.3 7.6 1 2 2 1 1 2 2 7.8 2 9 5.8 13.2 7.7 7 7 7 2 1 1 2 2 2 7.8 2 9 5.3 6.2 7 7.7	TMCLKL					_					1	1						
TMCLKL HY/2012/08 2019-10-09 Mid-Flood SR7 Cloudy Moderate 17:29 4.3 Middle 2 2 5 5 5.9 13.3 7.6 TMCLKL HY/2012/08 2019-10-09 Mid-Flood SR7 Cloudy Moderate 17:29 4.3 Bottom 3 1 29.2 7.8 29 5.9 13.3 7.6 TMCLKL HY/2012/08 2019-10-09 Mid-Flood SR7 Cloudy Moderate 16:27 10.1 Surface 1 1 29.2 7.8 29 5.8 13.2 7.7 TMCLKL HY/2012/08 2019-10-09 Mid-Flood IS17 Cloudy Moderate 16:27 10.1 Surface 1 2 29.1 7.9 28.9 5.3 6.2 7 TMCLKL HY/2012/08 2019-10-09 Mid-Flood IS17 Cloudy Moderate 16:27 10.1 Middle 2 29.1 7.9 29.7	TMCLKL	HY/2012/08	2019-10-09	Mid-Flood		Cloudy			4.3	Surface	1	2	29.2	7.9	29	5.6	11	6.5
TMCLKL HY/2012/08 2019-10-09 Mid-Flood SR7 Cloudy Moderate 17:29 4.3 Bottom 3 1 29.2 7.8 29 5.9 13.3 7.6 TMCLKL HY/2012/08 2019-10-09 Mid-Flood SR7 Cloudy Moderate 17:29 4.3 Bottom 3 2 29.2 7.8 29 5.8 13.2 7.7 TMCLKL HY/2012/08 2019-10-09 Mid-Flood IS17 Cloudy Moderate 16:27 10.1 Surface 1 1 29.1 7.9 29 5.3 6.2 7 TMCLKL HY/2012/08 2019-10-09 Mid-Flood IS17 Cloudy Moderate 16:27 10.1 Surface 1 2 29.1 7.9 28.9 5.3 6.3 6.6 TMCLKL HY/2012/08 2019-10-09 Mid-Flood IS17 Cloudy Moderate 16:27 10.1 Surface 1 2 29.1 7.9 28.9 5.3 6.3 6.3 6.6 TMCLKL HY/2012/08 2019-10-09 Mid-Flood IS17 Cloudy Moderate 16:27 10.1 Middle 2 1 29.1 7.9 29.7 5 10.3 5.2 TMCLKL HY/2012/08 2019-10-09 Mid-Flood IS17 Cloudy Moderate 16:27 10.1 Middle 2 1 29.1 7.9 29.6 5 10.4 5.4 TMCLKL HY/2012/08 2019-10-09 Mid-Flood IS17 Cloudy Moderate 16:27 10.1 Middle 2 2 2 29.1 7.9 29.6 5 10.4 5.4 TMCLKL HY/2012/08 2019-10-09 Mid-Flood IS17 Cloudy Moderate 16:27 10.1 Bottom 3 1 29.1 7.9 29.8 5.2 9.3 5.2 TMCLKL HY/2012/08 2019-10-10 Mid-Flood IS17 Cloudy Moderate 16:27 10.1 Bottom 3 2 2 29.1 7.9 29.8 5.2 9.5 4.9 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb CS(Mf)5 Sunny Moderate 09:56 14.5 Surface 1 1 28.1 7.8 24.9 6.2 3.5 10.4 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb CS(Mf)5 Sunny Moderate 09:56 14.5 Surface 1 2 27.9 7.8 25.6 5.7 3.9 9.8 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb CS(Mf)5 Sunny Moderate 09:56 14.5 Middle 2 1 27.9 7.8 25.5 5.7 3.9 9.8 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb CS(Mf)5 Sunny Moderate 09:56 14.5 Middle 2 2 2 27.9 7.8 25.5 5.7 3.9 9.8 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb CS(Mf)5 Sunny Moderate 09:56 14.5 Middle 2 2 2 27.9 7.8 25.5 5.7 3.9 9.8 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb CS(Mf)5 Sunny Moderate 09:56 14.5 Middle 2 2 2 27.9 7.8 25.5 5.7 3.9 9.8	TMCLKL	HY/2012/08	2019-10-09	Mid-Flood	SR7	Cloudy	Moderate	17:29	4.3	Middle	2	1						
TMCLKL HY/2012/08 2019-10-09 Mid-Flood SR7 Cloudy Moderate 17:29 4.3 Bottom 3 1 29.2 7.8 29 5.9 13.3 7.6 TMCLKL HY/2012/08 2019-10-09 Mid-Flood SR7 Cloudy Moderate 17:29 4.3 Bottom 3 2 29.2 7.8 29 5.8 13.2 7.7 TMCLKL HY/2012/08 2019-10-09 Mid-Flood IS17 Cloudy Moderate 16:27 10.1 Surface 1 1 29.1 7.9 29 5.3 6.2 7 TMCLKL HY/2012/08 2019-10-09 Mid-Flood IS17 Cloudy Moderate 16:27 10.1 Surface 1 2 29.1 7.9 28.9 5.3 6.3 6.6 TMCLKL HY/2012/08 2019-10-09 Mid-Flood IS17 Cloudy Moderate 16:27 10.1 Surface 1 2 29.1 7.9 28.9 5.3 6.3 6.3 6.6 TMCLKL HY/2012/08 2019-10-09 Mid-Flood IS17 Cloudy Moderate 16:27 10.1 Middle 2 1 29.1 7.9 29.7 5 10.3 5.2 TMCLKL HY/2012/08 2019-10-09 Mid-Flood IS17 Cloudy Moderate 16:27 10.1 Middle 2 1 29.1 7.9 29.6 5 10.4 5.4 TMCLKL HY/2012/08 2019-10-09 Mid-Flood IS17 Cloudy Moderate 16:27 10.1 Middle 2 2 2 29.1 7.9 29.6 5 10.4 5.4 TMCLKL HY/2012/08 2019-10-09 Mid-Flood IS17 Cloudy Moderate 16:27 10.1 Bottom 3 1 29.1 7.9 29.8 5.2 9.3 5.2 TMCLKL HY/2012/08 2019-10-10 Mid-Flood IS17 Cloudy Moderate 16:27 10.1 Bottom 3 2 2 29.1 7.9 29.8 5.2 9.5 4.9 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb CS(Mf)5 Sunny Moderate 09:56 14.5 Surface 1 1 28.1 7.8 24.9 6.2 3.5 10.4 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb CS(Mf)5 Sunny Moderate 09:56 14.5 Surface 1 2 27.9 7.8 25.6 5.7 3.9 9.8 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb CS(Mf)5 Sunny Moderate 09:56 14.5 Middle 2 1 27.9 7.8 25.5 5.7 3.9 9.8 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb CS(Mf)5 Sunny Moderate 09:56 14.5 Middle 2 2 2 27.9 7.8 25.5 5.7 3.9 9.8 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb CS(Mf)5 Sunny Moderate 09:56 14.5 Middle 2 2 2 27.9 7.8 25.5 5.7 3.9 9.8 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb CS(Mf)5 Sunny Moderate 09:56 14.5 Middle 2 2 2 27.9 7.8 25.5 5.7 3.9 9.8	TMCLKL	HY/2012/08	2019-10-09	Mid-Flood	SR7	Cloudy	Moderate	17:29	4.3	Middle	2	2						
TMCLKL HY/2012/08 2019-10-09 Mid-Flood SR7 Cloudy Moderate 17:29 4.3 Bottom 3 2 29.2 7.8 29 5.8 13.2 7.7	TMCLKL					_				Bottom	3	1	29.2	7.8	29	5.9	13.3	7.6
TMCLKL HY/2012/08 2019-10-09 Mid-Flood IS17 Cloudy Moderate 16:27 10.1 Surface 1 1 29.1 7.9 29 5.3 6.2 7 TMCLKL HY/2012/08 2019-10-09 Mid-Flood IS17 Cloudy Moderate 16:27 10.1 Surface 1 2 29.1 7.9 28.9 5.3 6.3 6.6 TMCLKL HY/2012/08 2019-10-09 Mid-Flood IS17 Cloudy Moderate 16:27 10.1 Middle 2 1 29.1 7.9 29.7 5 10.3 5.2 TMCLKL HY/2012/08 2019-10-09 Mid-Flood IS17 Cloudy Moderate 16:27 10.1 Middle 2 2 29.1 7.9 29.6 5 10.4 5.4 TMCLKL HY/2012/08 2019-10-09 Mid-Flood IS17 Cloudy Moderate 16:27 10.1 Bottom 3 1 29.1	TMCLKL										3	2						7.7
TMCLKL HY/2012/08 2019-10-09 Mid-Flood IS17 Cloudy Moderate 16:27 10.1 Surface 1 2 29.1 7.9 28.9 5.3 6.3 6.6 TMCLKL HY/2012/08 2019-10-09 Mid-Flood IS17 Cloudy Moderate 16:27 10.1 Middle 2 29.1 7.9 29.7 5 10.3 5.2 TMCLKL HY/2012/08 2019-10-09 Mid-Flood IS17 Cloudy Moderate 16:27 10.1 Middle 2 2 29.1 7.9 29.6 5 10.4 5.4 TMCLKL HY/2012/08 2019-10-09 Mid-Flood IS17 Cloudy Moderate 16:27 10.1 Bottom 3 1 29.1 7.9 29.8 5.2 9.3 5.2 TMCLKL HY/2012/08 2019-10-09 Mid-Flood IS17 Cloudy Moderate 16:27 10.1 Bottom 3 1 29.1 7.9											1	1						7
TMCLKL HY/2012/08 2019-10-09 Mid-Flood IS17 Cloudy Moderate 16:27 10.1 Middle 2 1 29.1 7.9 29.7 5 10.3 5.2 TMCLKL HY/2012/08 2019-10-09 Mid-Flood IS17 Cloudy Moderate 16:27 10.1 Middle 2 2 29.1 7.9 29.6 5 10.4 5.4 TMCLKL HY/2012/08 2019-10-09 Mid-Flood IS17 Cloudy Moderate 16:27 10.1 Bottom 3 1 29.1 7.9 29.8 5.2 9.3 5.2 TMCLKL HY/2012/08 2019-10-09 Mid-Flood IS17 Cloudy Moderate 16:27 10.1 Bottom 3 1 29.1 7.9 29.8 5.2 9.3 5.2 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb CS(Mf)5 Sunny Moderate 09:56 14.5 Surface 1 1 28.1 </td <td></td> <td>1</td> <td>2</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>6.6</td>											1	2						6.6
TMCLKL HY/2012/08 2019-10-09 Mid-Flood IS17 Cloudy Moderate 16:27 10.1 Middle 2 2 29.1 7.9 29.6 5 10.4 5.4 TMCLKL HY/2012/08 2019-10-09 Mid-Flood IS17 Cloudy Moderate 16:27 10.1 Bottom 3 1 29.1 7.9 29.8 5.2 9.3 5.2 TMCLKL HY/2012/08 2019-10-09 Mid-Flood IS17 Cloudy Moderate 16:27 10.1 Bottom 3 2 29.1 7.9 29.8 5.2 9.3 5.2 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb CS(Mf)5 Sunny Moderate 09:56 14.5 Surface 1 1 28.1 7.8 24.9 6.2 3.5 10.4 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb CS(Mf)5 Sunny Moderate 09:56 14.5 Middle 2 2 28.1											2	1				5		
TMCLKL HY/2012/08 2019-10-09 Mid-Flood IS17 Cloudy Moderate 16:27 10.1 Bottom 3 1 29.1 7.9 29.8 5.2 9.3 5.2 TMCLKL HY/2012/08 2019-10-09 Mid-Flood IS17 Cloudy Moderate 16:27 10.1 Bottom 3 2 29.1 7.9 29.8 5.2 9.3 5.2 TMCLKL HY/2012/08 2019-10-11 Mid-Flood IS17 Cloudy Moderate 10.1 Bottom 3 2 29.1 7.9 29.8 5.2 9.5 4.9 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb CS(Mf)5 Sunny Moderate 09:56 14.5 Surface 1 1 28.1 7.8 24.9 6.2 3.5 10.4 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb CS(Mf)5 Sunny Moderate 09:56 14.5 Middle 2 1 27.9 7.8<											2	2				5		
TMCLKL HY/2012/08 2019-10-09 Mid-Flood IS17 Cloudy Moderate 16:27 10.1 Bottom 3 2 29.1 7.9 29.8 5.2 9.5 4.9 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb CS(Mf)5 Sunny Moderate 09:56 14.5 Surface 1 1 28.1 7.8 24.9 6.2 3.5 10.4 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb CS(Mf)5 Sunny Moderate 09:56 14.5 Surface 1 2 28.1 7.8 24.9 6.2 3.5 10.4 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb CS(Mf)5 Sunny Moderate 09:56 14.5 Middle 2 1 27.9 7.8 25.6 5.6 3.9 10.4 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb CS(Mf)5 Sunny Moderate 09:56 14.5 Middle 2 2	-				+	_				 	2	1				5 2		
TMCLKL HY/2012/08 2019-10-11 Mid-Ebb CS(Mf)5 Sunny Moderate 09:56 14.5 Surface 1 1 28.1 7.8 24.9 6.2 3.5 10.4 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb CS(Mf)5 Sunny Moderate 09:56 14.5 Surface 1 2 28.1 7.8 24.9 6.2 3.5 10.3 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb CS(Mf)5 Sunny Moderate 09:56 14.5 Middle 2 1 27.9 7.8 25.6 5.6 3.9 10.4 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb CS(Mf)5 Sunny Moderate 09:56 14.5 Middle 2 2 27.9 7.8 25.5 5.7 3.9 9.8 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb CS(Mf)5 Sunny Moderate 09:56 14.5 Bottom 3 1									-	 	2	1	+					
TMCLKL HY/2012/08 2019-10-11 Mid-Ebb CS(Mf)5 Sunny Moderate 09:56 14.5 Surface 1 2 28.1 7.8 24.9 6.2 3.5 10.3 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb CS(Mf)5 Sunny Moderate 09:56 14.5 Middle 2 1 27.9 7.8 25.6 5.6 3.9 10.4 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb CS(Mf)5 Sunny Moderate 09:56 14.5 Middle 2 2 27.9 7.8 25.5 5.7 3.9 9.8 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb CS(Mf)5 Sunny Moderate 09:56 14.5 Bottom 3 1 27.9 7.8 26.5 5.5 4.8 11.3	-		+		+				1	 	3	4	-	+		+		
TMCLKL HY/2012/08 2019-10-11 Mid-Ebb CS(Mf)5 Sunny Moderate 09:56 14.5 Middle 2 1 27.9 7.8 25.6 5.6 3.9 10.4 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb CS(Mf)5 Sunny Moderate 09:56 14.5 Middle 2 2 27.9 7.8 25.5 5.7 3.9 9.8 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb CS(Mf)5 Sunny Moderate 09:56 14.5 Bottom 3 1 27.9 7.8 26.5 5.5 4.8 11.3	-					1			1	1	1	11		+		+		
TMCLKL HY/2012/08 2019-10-11 Mid-Ebb CS(Mf)5 Sunny Moderate 09:56 14.5 Middle 2 2 27.9 7.8 25.5 5.7 3.9 9.8 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb CS(Mf)5 Sunny Moderate 09:56 14.5 Bottom 3 1 27.9 7.8 26.5 5.5 4.8 11.3						1			1		1	2	-	+				
TMCLKL HY/2012/08 2019-10-11 Mid-Ebb CS(Mf)5 Sunny Moderate 09:56 14.5 Bottom 3 1 27.9 7.8 26.5 5.5 4.8 11.3					· · · · ·						2	1						
											2	2				•		
TMCLKL HY/2012/08 2019-10-11 Mid-Ebb CS(Mf)5 Sunny Moderate 109:56 14.5 Bottom 3 2 27.9 7.8 26.5 5.4 4.7 11.8	TMCLKL			Mid-Ebb					14.5	Bottom		1						11.3
	TMCLKL	HY/2012/08	2019-10-11	Mid-Ebb	CS(Mf)5	Sunny	Moderate	09:56	14.5	Bottom	3	2	27.9	7.8	26.5	5.4	4.7	11.8

	Project	Contract	Date	Tide	Stat	Weather	Sea Condition	Time	Water Depth	Level	Lev_Cod	Replicate	Temp(°C)	рН	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
TRICKLE, 1/2012/080 2019-0-11 Mod-Eth CSEMP\$ Moderate 10-58 72 Surface 1 2 28 3 1 22.3 8 23.3 8 1 22.	TMCLKI	HY/2012/08	2019-10-11	Mid-Fbb	CS(Mf)3(N)	Sunny	-	10:58	+	Surface	1	1	28.2	8 1	22.3	8	5	11
TRCKER, MY201208 2019-0-10 Mod-Ebb C50fM39N Sumy Moderate 10:58 7.2 Middle 2 2 8 9 24.2 0.5					\ / \ /	†					1	2				8	5	11.7
TMCLKL MY201208 2019-1011 Mol-Ebb C\$16(M)NN Surray Moderate 10-58 7.2 Modele 2 2 28 8 21.2 6.5											2	1				6.5	7.1	11
IRCLUCK, PV/2012/08 2019-1-011 Mol-Ebb CSM(5)(M) Summy Molderate 10.58 7.2 Senton 3 1 2.79 8.1 24.8 6.3											2	2					7.1	11.1
TRICKLK, PY/2012-08, 2019-10-11 Mel-Ebb. SMM196 Surray Moderate 10-58 7.2 Roston 3 2 27.9 8.1 24.6 6.3								_		+	3	1		8.1			8.6	11
TRICKLK MY201208 2019-10-11 Mol-Ebb SIMP1 Sunny Moderate 11-33 5-4 Surface 1 28 8-1 25-2 5-8			_		\ / \ /						3	2					8.6	10.9
TRICKLK MY201208 2019-10-11 Mol-E-bb SkM/H Surroy Moderate 11-33 5.4 Mudde 2 1			_							+	1	1					8.9	14.5
TRICKLK, PY201208 2019-10-11 Mol-Eb SIMP1 Sumry Moderate 11-33 5.4 Middle 2 1			_		<u> </u>						1	2					8.9	14
TRACKER HY201208 2019-10-11 Mol-Ebb SIMP16 Sumy Moderate 11:33 5.4 Modele 2 2 6 6 7 7 7 7 7 7 7 7					<u> </u>	 		_			2	1		1				1
TRICKLK HY201208 2019-10-11 Mol-Ebb SRM116 Sumy Moderate 11:33 5.4 Bottom 3 1 28 8.1 25.2 6					<u> </u>						2	2						
TRICKLK, HY201208 2019-10-11 Mol-Ebb SR44 Sunny Moderate 11-33 5.4 Bottom 3 2 28 8.1 25.2 6 FINGLIK, HY201208 2019-10-11 Mol-Ebb SR44 Sunny Moderate 11-43 3.6 Surface 1 2 28.3 8.1 24.5 7.2 TRICKLK, HY201208 2019-10-11 Mol-Ebb SR44 Sunny Moderate 11-43 3.6 Surface 1 2 28.3 8.1 24.5 7.2 TRICKLK, HY201208 2019-10-11 Mol-Ebb SR44 Sunny Moderate 11-43 3.6 Model 2 1 1 1 1 1 1 1 1 1											3	1	28	8.1	25.2	6	10.2	13.9
TRICLIK H7/201208 2219-10-11 Mol-Ebb SR4a Sunny Moderate 11-43 3.6 Surface 1 28.3 8.1 24.5 7.2											3	2				6	10.1	13.6
TRICKLK, HY/201208 2019-10-11 Mol-Ebb SR44 Surray Moderate 11-43 36 Surface 1 2 28.3 8.1 24.5 7.2											1	1				7.2	3.5	9
TRICLIC, HY/201208 2019-10-11 Mid-Ebb SR4a Surry Moderate 11-43 3.6 Middle 2 1											1	2					3.5	9.8
TRICKLK, HY201208											2	1		1		1	10.0	10.0
TMCLIK, HY/2012/08 2019-10-11 Mid-Ebb SR4a Sunny Moderate 11-43 3.6 Bettom 3 2 28.1 8.2 24.5 7											2	2						+
TMCLIK, HY/2012/08 2019-10-11 Mid-Ebb SR44 Sunny Moderate 11-43 3.6 Softom 3 2 28.1 8.1 24.5 7											3	1	28 1	8.2	24.5	7	3.7	11.6
TMCLIK, HY201208											3	2				7	3.6	11.2
TMCLIK, HY/2012/08 2019-10-11 Mid-Ebb SR4/N2 Sunny Moderate 11-47 3.8 Surface 1 2 2.81 8.2 24.6 6.6											1	1				6.6	5	10.8
TMCLKL HY/201208 2019-10-11 Mid-Ebb SR4N2 Sunny Moderate 11-47 3.8 Middle 2 2 1 1 1 1 1 1 1 1					\ /						1	2					5	10.2
TMCLKL HY201208 2019-10-11 Mid-Ebb SR4IN2) Sunny Moderate 11-47 3.8 Stoton 3 1 2.8 8.2 24.7 6.3			_				_				2	1	20.1	10.2	27.0	0.0	 	10.2
TMCLKL HY/201208 2019-10-11 Mid-Ebb SR4(N2) Sunny Moderate 11-47 3.8 Bottom 3 1 2.8 3.2 24.7 6.3					<u> </u>		_				2	2	+	+				+
TMCLKL HYZ01208 2019-10-11 Mid-Ebb SR4(N2) Sunny Moderate 11-47 3.8 Bottom 3 2 2.8 8.2 24.7 6.3							_		_		3	1	28	8.2	24.7	6.3	6.2	11.7
TMCLKL HY/201208 2019-10-11 Mid-Ebb ISRN Sunny Moderate 11:53 4.2 Surface 1 28.1 8.1 24.7 6.4											3	2					6.3	12.5
TMCLKL HY/201208 2019-10-11 Mid-Ebb ISR(N) Sunny Moderate 11:53 4.2 Surface 1 2 28.1 8.1 24.7 6.4 TMCLKL HY/201208 2019-10-11 Mid-Ebb ISR(N) Sunny Moderate 11:53 4.2 Middle 2 1											1	1					5	0
TMCLKL HY/2012/08 2019-10-11 Mid-Ebb S8(N) Sunny Moderate 11:53 4.2 Middle 2 2 1											1	2					5	8.9
TMCLKL HY/2012/08 2019-10-11 Mid-Ebb S8(N) Sunny Moderate 11:53 4.2 Bottom 3 1 28 8.1 24.9 6.3											2	1	20.1	0.1	24.7	0.4	3	0.9
TMCLKL HY/2012/08 2019-10-11 Mid-Ebb ISB(N) Sunny Moderate 11:53 4.2 Bottom 3 1 28 8.1 24.9 6.3											2	2		+				+
TMCLKI. HY/2012/08 2019-10-11 Mid-Ebb IS(M) Sunny Moderate 11:53 4.2 Bottom 3 2 2.8 8.1 24.9 6.3 TMCLKI. HY/2012/08 2019-10-11 Mid-Ebb IS(M)9 Sunny Moderate 12:01 3.9 Surface 1 1 2.2 28.3 8.25 6.5 TMCLKI. HY/2012/08 2019-10-11 Mid-Ebb IS(M)9 Sunny Moderate 12:01 3.9 Surface 1 2 2.83 8.25 6.5 TMCLKI. HY/2012/08 2019-10-11 Mid-Ebb IS(M)9 Sunny Moderate 12:01 3.9 Middle 2 1 TMCLKI. HY/2012/08 2019-10-11 Mid-Ebb IS(M)9 Sunny Moderate 12:01 3.9 Middle 2 1 TMCLKI. HY/2012/08 2019-10-11 Mid-Ebb IS(M)9 Sunny Moderate 12:01 3.9 Middle 2 2 TMCLKI. HY/2012/08 2019-10-11 Mid-Ebb IS(M)9 Sunny Moderate 12:01 3.9 Middle 2 2 TMCLKI. HY/2012/08 2019-10-11 Mid-Ebb IS(M)9 Sunny Moderate 12:01 3.9 Middle 2 2 TMCLKI. HY/2012/08 2019-10-11 Mid-Ebb IS(M)9 Sunny Moderate 12:01 3.9 Middle 2 2 TMCLKI. HY/2012/08 2019-10-11 Mid-Ebb IS(M)9 Sunny Moderate 12:01 3.9 Middle 2 2 TMCLKI. HY/2012/08 2019-10-11 Mid-Ebb IS(M)9 Sunny Moderate 11:01 3.9 Middle 2 2 TMCLKI. HY/2012/08 2019-10-11 Mid-Ebb IS(M)11 Sunny Moderate 11:21 11:3 Surface 1 1 28.3 8.3 22.3 8.3 TMCLKI. HY/2012/08 2019-10-11 Mid-Ebb IS(M)11 Sunny Moderate 11:21 11:3 Surface 1 1 28.3 8.3 22.3 8.4 TMCLKI. HY/2012/08 2019-10-11 Mid-Ebb IS(M)11 Sunny Moderate 11:21 11:3 Surface 1 2 28.3 8.2 23.3 7.3 TMCLKI. HY/2012/08 2019-10-11 Mid-Ebb IS(M)11 Sunny Moderate 11:21 11:3 Middle 2 1 28.3 8.2 23.3 7.3 TMCLKI. HY/2012/08 2019-10-11 Mid-Ebb IS(M)11 Sunny Moderate 11:21 11:3 Middle 2 2 28.3 8.2 23.4 7.3 TMCLKI. HY/2012/08 2019-10-11 Mid-Ebb IS(M)11 Sunny Moderate 11:21 11:3 Middle 2 2 28.3 8.2 23.4 7.3 TMCLKI. HY/2012/08 2019-10-11 Mid-Ebb IS(M)11 Sunny Moderate 11:21 11:3 Bottom 3 1 28.2 8.3 3.2 6.7 TMCLKI. HY/2012/08 2019-10-11 Mid-Ebb IS(M)11 Sunny Moderate 11:21 11:3 Bottom 3 2 28.2 8.3 8.2 23.4 7.3 TMCLKI. HY/2012/08 2019-10-11 Mid-Ebb IS(M)11 Sunny Moderate 10:22 4.2 Surface 1 2 28.3 8.2 23.4 7.8 TMCLKI. HY/2012/08 2019-10-11 Mid-Ebb IS(M)11 Sunny Moderate 10:22 4.2 Surface 1 2 28.3 7.8 22.7 7.5 TMCLKI. HY/2012/08 2019-10-11 Mid-Ebb IS(M)11 Sunny Moderate 10:22 4.2 Surface 1 2 28.3 7									1		2	1	20	0 1	24.0	6.2	7.9	7.3
TMCLKL HY/2012/08 2019-10-11 Mid-Ebb SIMI)9 Sunny Moderate 12:01 3.9 Surface 1 2.83 8 25 6 6											2	2				_		
TMCLKL HY/2012/08 2019-10-11 Mid-Ebb IS(Mf)9 Sunny Moderate 12:01 3.9 Middle 2 1											3	1				6.3	7.9 5.3	7.9
TMCLKL HY/2012/08 2019-10-11 Mid-Ebb IS(Mif) Sunny Moderate 12:01 3.9 Middle 2 2											1	12				6	5.3	8.9
TMCLKL HY/2012/08 2019-10-11 Mid-Ebb IS(Mf)9 Sunny Moderate 12:01 3.9 Middle 2 2											2	1	20.3	0	25	0	3.3	0.1
TMCLKL HY/2012/08 2019-10-11 Mid-Ebb IS(Mf)9 Sunny Moderate 12-01 3.9 Bottom 3 1 28-2 8.1 25-2 6.3											2	12	+	+				
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TMCLKL HY/2012/08 2019-10-11 Mid-Ebb IS(Mf)11 Sunny Moderate 11:21 11.3 Surface 1 2 28.3 8.3 22.3 8.3 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb IS(Mf)11 Sunny Moderate 11:21 11.3 Surface 1 2 28.3 8.3 22.3 8.4 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb IS(Mf)11 Sunny Moderate 11:21 11.3 Middle 2 1 28.3 8.2 23.3 7.3 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb IS(Mf)11 Sunny Moderate 11:21 11.3 Middle 2 2 28.3 8.2 23.4 7.3 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb IS(Mf)11 Sunny Moderate 11:21 11.3 Bottom 3 1 28.2 8.3 23.6 7 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb IS(Mf)11 Sunny Moderate 11:21 11.3 Bottom 3 2 28.2 8.3 23.6 7 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb SR7 Sunny Moderate 10:22 4.2 Surface 1 28.3 7.8 22.7 7.4 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb SR7 Sunny Moderate 10:22 4.2 Surface 1 2 28.3 7.8 22.7 7.5 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb SR7 Sunny Moderate 10:22 4.2 Surface 1 2 28.3 7.8 22.7 7.5 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb SR7 Sunny Moderate 10:22 4.2 Middle 2 1 SUND Moderate 10:22 4.2 Middle 2 1 SUND Moderate 10:22 4.2 Middle 2 1 SUND Moderate 10:22 4.2 Middle 2 2 SURFACE 1 2 28.3 8.2 23.3 7.6 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb SR7 Sunny Moderate 10:22 4.2 Bottom 3 2 28 7.9 25.2 5.9 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb SR7 Sunny Moderate 10:22 4.2 Bottom 3 2 28 7.9 25.2 5.9 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb SR7 Sunny Moderate 10:22 4.2 Bottom 3 2 28 7.9 25.2 5.9 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb S17 Sunny Moderate 11:27 10.6 Surface 1 28.3 8.2 23.3 7.6 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb IS17 Sunny Moderate 11:27										+	3	1					8.8	10 10.8
TMCLKL HY/2012/08 2019-10-11 Mid-Ebb IS(Mf)11 Sunny Moderate 11:21 11:3 Surface 1 2 28:3 8:3 22:3 8.4										+	3	4				_	8.9	
TMCLKL HY/2012/08 2019-10-11 Mid-Ebb IS(Mf)11 Sunny Moderate 11:21 11:3 Middle 2 2 28:3 8.2 23:3 7.3										+	1	1					4.1	8.5
TMCLKL HY/2012/08 2019-10-11 Mid-Ebb IS(Mf)11 Sunny Moderate 11:21 11.3 Middle 2 2 28.3 8.2 23.4 7.3 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb IS(Mf)11 Sunny Moderate 11:21 11.3 Bottom 3 1 28.2 8.3 23.6 7 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb IS(Mf)11 Sunny Moderate 11:21 11.3 Bottom 3 1 28.2 8.3 23.6 7 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb SR7 Sunny Moderate 10:22 4.2 Surface 1 2 28.3 7.8 22.7 7.4 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb SR7 Sunny Moderate 10:22 4.2 Middle 2 2 28.3 7.8 22.7 7.5 TMCLKL HY/2012/08 2019-10-11 <t< td=""><td>+</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>+</td><td></td><td>1</td><td>2</td><td></td><td></td><td></td><td></td><td>5.0</td><td>8.5</td></t<>	+								+		1	2					5.0	8.5
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TMCLKL HY/2012/08 2019-10-11 Mid-Ebb IS(Mf)11 Sunny Moderate 11:21 11:3 Bottom 3 2 28.2 8.3 23.6 7 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb SR7 Sunny Moderate 10:22 4.2 Surface 1 1 2.8.3 7.8 22.7 7.4 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb SR7 Sunny Moderate 10:22 4.2 Middle 2 2.8.3 7.8 22.7 7.5 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb SR7 Sunny Moderate 10:22 4.2 Middle 2 1 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb SR7 Sunny Moderate 10:22 4.2 Middle 2 2 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb SR7 Sunny Moderate 10:22 4.2 Bottom 3 1 2.8										+	2	2				7.3	5.2	10.1
TMCLKL HY/2012/08 2019-10-11 Mid-Ebb SR7 Sunny Moderate 10:22 4.2 Surface 1 28.3 7.8 22.7 7.4 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb SR7 Sunny Moderate 10:22 4.2 Surface 1 2 28.3 7.8 22.7 7.5 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb SR7 Sunny Moderate 10:22 4.2 Middle 2 1 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb SR7 Sunny Moderate 10:22 4.2 Middle 2 2 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb SR7 Sunny Moderate 10:22 4.2 Bottom 3 1 28 7.9 25.2 5.9 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb SR7 Sunny Moderate 11:27 10.6 Surface 1 28.3 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>+</td><td>3</td><td>1</td><td></td><td></td><td></td><td>17</td><td>6.3</td><td>11.8</td></t<>										+	3	1				17	6.3	11.8
TMCLKL HY/2012/08 2019-10-11 Mid-Ebb SR7 Sunny Moderate 10:22 4.2 Surface 1 2 28.3 7.8 22.7 7.5 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb SR7 Sunny Moderate 10:22 4.2 Middle 2 1					\ /						3	4				7.4	6.3	11.2
TMCLKL HY/2012/08 2019-10-11 Mid-Ebb SR7 Sunny Moderate 10:22 4.2 Middle 2 1 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb SR7 Sunny Moderate 10:22 4.2 Middle 2 2 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb SR7 Sunny Moderate 10:22 4.2 Bottom 3 1 28 7.9 25.2 5.9 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb SR7 Sunny Moderate 10:22 4.2 Bottom 3 1 28 7.9 25.2 5.9 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb IS17 Sunny Moderate 11:27 10.6 Surface 1 1 28.3 8.2 23.3 7.6 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb IS17 Sunny Moderate 11:27 10.6 Middle 2 1<											1	10					3.9	7.7
TMCLKL HY/2012/08 2019-10-11 Mid-Ebb SR7 Sunny Moderate 10:22 4.2 Middle 2 2 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb SR7 Sunny Moderate 10:22 4.2 Bottom 3 1 28 7.9 25.2 5.9 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb SR7 Sunny Moderate 10:22 4.2 Bottom 3 1 28 7.9 25.2 5.9 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb IS17 Sunny Moderate 11:27 10.6 Surface 1 1 28.3 8.2 23.3 7.6 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb IS17 Sunny Moderate 11:27 10.6 Surface 1 1 28.3 8.2 23.2 7.6 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb IS17 Sunny Moderate 11:27 10.6											1	4	28.3	۵.۱	22.1	7.5	3.9	7.5
TMCLKL HY/2012/08 2019-10-11 Mid-Ebb SR7 Sunny Moderate 10:22 4.2 Bottom 3 1 28 7.9 25.2 5.9 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb SR7 Sunny Moderate 10:22 4.2 Bottom 3 2 28 7.9 25.2 5.9 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb IS17 Sunny Moderate 11:27 10.6 Surface 1 1 28.3 8.2 23.3 7.6 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb IS17 Sunny Moderate 11:27 10.6 Surface 1 2 28.3 8.2 23.2 7.6 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb IS17 Sunny Moderate 11:27 10.6 Middle 2 2 28.2 8.2 23.9 7 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb <td></td> <td>2</td> <td>17</td> <td></td> <td>+</td> <td></td> <td></td> <td>1</td> <td></td>											2	17		+			1	
TMCLKL HY/2012/08 2019-10-11 Mid-Ebb SR7 Sunny Moderate 10:22 4.2 Bottom 3 2 28 7.9 25.2 5.9 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb IS17 Sunny Moderate 11:27 10.6 Surface 1 1 28.3 8.2 23.3 7.6 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb IS17 Sunny Moderate 11:27 10.6 Surface 1 2 28.3 8.2 23.2 7.6 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb IS17 Sunny Moderate 11:27 10.6 Middle 2 1 28.2 8.2 23.9 7 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb IS17 Sunny Moderate 11:27 10.6 Middle 2 2 28.2 8.2 23.9 7 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb </td <td></td> <td>2</td> <td>2</td> <td>20</td> <td>17.0</td> <td>05.0</td> <td></td> <td>7.0</td> <td></td>											2	2	20	17.0	05.0		7.0	
TMCLKL HY/2012/08 2019-10-11 Mid-Ebb IS17 Sunny Moderate 11:27 10.6 Surface 1 1 28.3 8.2 23.3 7.6 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb IS17 Sunny Moderate 11:27 10.6 Surface 1 2 28.3 8.2 23.2 7.6 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb IS17 Sunny Moderate 11:27 10.6 Middle 2 2 28.2 8.2 23.9 7 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb IS17 Sunny Moderate 11:27 10.6 Middle 2 2 28.2 8.2 23.9 7 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb IS17 Sunny Moderate 11:27 10.6 Bottom 3 1 28 8.2 24.7 6.4 TMCLKL HY/2012/08 2019-10-11 Mid-Flo			_								3	10					7.8	9.2
TMCLKL HY/2012/08 2019-10-11 Mid-Ebb IS17 Sunny Moderate 11:27 10.6 Surface 1 2 28.3 8.2 23.2 7.6 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb IS17 Sunny Moderate 11:27 10.6 Middle 2 1 28.2 8.2 23.9 7 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb IS17 Sunny Moderate 11:27 10.6 Middle 2 2 28.2 8.2 23.9 7 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb IS17 Sunny Moderate 11:27 10.6 Bottom 3 1 28 8.2 24.7 6.4 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb IS17 Sunny Moderate 11:27 10.6 Bottom 3 2 28 8.2 24.7 6.4 TMCLKL HY/2012/08 2019-10-11 Mid-Flood<			_				_				3	4				_	7.8	9.8
TMCLKL HY/2012/08 2019-10-11 Mid-Ebb IS17 Sunny Moderate 11:27 10.6 Middle 2 1 28.2 8.2 23.9 7 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb IS17 Sunny Moderate 11:27 10.6 Middle 2 2 28.2 8.2 23.9 7 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb IS17 Sunny Moderate 11:27 10.6 Bottom 3 1 28 8.2 24.7 6.4 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb IS17 Sunny Moderate 11:27 10.6 Bottom 3 1 28 8.2 24.7 6.4 TMCLKL HY/2012/08 2019-10-11 Mid-Flood CS(Mf)5 Fine Moderate 18:52 14.3 Surface 1 1 28.3 7.9 24.8 6.6 TMCLKL HY/2012/08 2019-10-11 Mid-Fl											11	17				_	5.9	11.5
TMCLKL HY/2012/08 2019-10-11 Mid-Ebb IS17 Sunny Moderate 11:27 10.6 Middle 2 2 28.2 8.2 23.9 7 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb IS17 Sunny Moderate 11:27 10.6 Bottom 3 1 28 8.2 24.7 6.4 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb IS17 Sunny Moderate 11:27 10.6 Bottom 3 1 28 8.2 24.7 6.4 TMCLKL HY/2012/08 2019-10-11 Mid-Flood CS(Mf)5 Fine Moderate 18:52 14.3 Surface 1 1 28.3 7.9 24.8 6.5 TMCLKL HY/2012/08 2019-10-11 Mid-Flood CS(Mf)5 Fine Moderate 18:52 14.3 Middle 2 1 28.3 7.9 25.4 5.9 TMCLKL HY/2012/08 2019-10-11											17	2				7.6	5.9	11.4
TMCLKL HY/2012/08 2019-10-11 Mid-Ebb IS17 Sunny Moderate 11:27 10.6 Bottom 3 1 28 8.2 24.7 6.4 TMCLKL HY/2012/08 2019-10-11 Mid-Ebb IS17 Sunny Moderate 11:27 10.6 Bottom 3 1 28 8.2 24.7 6.4 TMCLKL HY/2012/08 2019-10-11 Mid-Flood CS(Mf)5 Fine Moderate 18:52 14.3 Surface 1 1 28.3 7.9 24.8 6.5 TMCLKL HY/2012/08 2019-10-11 Mid-Flood CS(Mf)5 Fine Moderate 18:52 14.3 Surface 1 2 28.3 7.9 24.8 6.6 TMCLKL HY/2012/08 2019-10-11 Mid-Flood CS(Mf)5 Fine Moderate 18:52 14.3 Middle 2 1 28.3 7.9 25.3 5.9 TMCLKL HY/2012/08 2019-10-11							_	_			2	17				17	δ	11.4
TMCLKL HY/2012/08 2019-10-11 Mid-Ebb IS17 Sunny Moderate 11:27 10.6 Bottom 3 2 28 8.2 24.7 6.4 TMCLKL HY/2012/08 2019-10-11 Mid-Flood CS(Mf)5 Fine Moderate 18:52 14.3 Surface 1 1 28.3 7.9 24.8 6.5 TMCLKL HY/2012/08 2019-10-11 Mid-Flood CS(Mf)5 Fine Moderate 18:52 14.3 Surface 1 2 28.3 7.9 24.8 6.6 TMCLKL HY/2012/08 2019-10-11 Mid-Flood CS(Mf)5 Fine Moderate 18:52 14.3 Middle 2 1 28.3 7.9 25.4 5.9 TMCLKL HY/2012/08 2019-10-11 Mid-Flood CS(Mf)5 Fine Moderate 18:52 14.3 Middle 2 2 28.3 7.9 25.3 5.9 TMCLKL HY/2012/08 2019-10-11							_				2	2				/	0.0	11.3
TMCLKL HY/2012/08 2019-10-11 Mid-Flood CS(Mf)5 Fine Moderate 18:52 14.3 Surface 1 1 28.3 7.9 24.8 6.5 TMCLKL HY/2012/08 2019-10-11 Mid-Flood CS(Mf)5 Fine Moderate 18:52 14.3 Surface 1 2 28.3 7.9 24.8 6.6 TMCLKL HY/2012/08 2019-10-11 Mid-Flood CS(Mf)5 Fine Moderate 18:52 14.3 Middle 2 1 28.3 7.9 25.4 5.9 TMCLKL HY/2012/08 2019-10-11 Mid-Flood CS(Mf)5 Fine Moderate 18:52 14.3 Middle 2 2 28.3 7.9 25.3 5.9 TMCLKL HY/2012/08 2019-10-11 Mid-Flood CS(Mf)5 Fine Moderate 18:52 14.3 Bottom 3 1 28.3 7.9 25.8 6									+		3	T	_			_	6.6	13.4
TMCLKL HY/2012/08 2019-10-11 Mid-Flood CS(Mf)5 Fine Moderate 18:52 14.3 Surface 1 2 28.3 7.9 24.8 6.6 TMCLKL HY/2012/08 2019-10-11 Mid-Flood CS(Mf)5 Fine Moderate 18:52 14.3 Middle 2 1 28.3 7.9 25.4 5.9 TMCLKL HY/2012/08 2019-10-11 Mid-Flood CS(Mf)5 Fine Moderate 18:52 14.3 Middle 2 2 28.3 7.9 25.3 5.9 TMCLKL HY/2012/08 2019-10-11 Mid-Flood CS(Mf)5 Fine Moderate 18:52 14.3 Bottom 3 1 28.1 7.9 25.8 6	-		_						+	+	3	2					6.6	13.8
TMCLKL HY/2012/08 2019-10-11 Mid-Flood CS(Mf)5 Fine Moderate 18:52 14.3 Middle 2 1 28.3 7.9 25.4 5.9 TMCLKL HY/2012/08 2019-10-11 Mid-Flood CS(Mf)5 Fine Moderate 18:52 14.3 Middle 2 2 28.3 7.9 25.3 5.9 TMCLKL HY/2012/08 2019-10-11 Mid-Flood CS(Mf)5 Fine Moderate 18:52 14.3 Bottom 3 1 28.1 7.9 25.8 6									+		11	17				_	2.6	11.3
TMCLKL HY/2012/08 2019-10-11 Mid-Flood CS(Mf)5 Fine Moderate 18:52 14.3 Middle 2 2 28.3 7.9 25.3 5.9 TMCLKL HY/2012/08 2019-10-11 Mid-Flood CS(Mf)5 Fine Moderate 18:52 14.3 Bottom 3 1 28.1 7.9 25.8 6										+	1	2					2.5	10.5
TMCLKL HY/2012/08 2019-10-11 Mid-Flood CS(Mf)5 Fine Moderate 18:52 14.3 Bottom 3 1 28.1 7.9 25.8 6									_		2	11				_	4.4	14.5
			_								2	2				5.9	4.3	14.6
(TMOLK) HDV/0040/00 10040/40/44 INCLESS 1 100/40/6 IEC - INCLESS 14/6 IB // IA - IA - IA - IA-A - IA-A - IA-A			-i								3	11				6	5.2	14.2
TMCLKL HY/2012/08 2019-10-11 Mid-Flood CS(Mf)5 Fine Moderate 18:52 14.3 Bottom 3 2 28.1 7.9 25.8 6 14.3 15.5											3	2	_			6	5.2	14.8
TMCLKL HY/2012/08 2019-10-11 Mid-Flood CS(Mf)3(N) Fine Moderate 17:54 7.1 Surface 1 1 28.8 8 20.9 10.7	IMCLKL	HY/2012/08	[2019-10-11	Mid-Flood	JCS(Mf)3(N)	Fine	Moderate	17:54	 /.1	Surface	<u> </u>	1	28.8	8	20.9	10.7	9.8	14.9

Project	Contract	Date	Tide	Stat	Weather	Sea	Time	Water	Level	Lev_Cod	Replicate	Temp(°C)	рН	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
						Condition		Depth		LCV_OOU	replicate		<u> </u>				
TMCLKL	HY/2012/08	2019-10-11	Mid-Flood	CS(Mf)3(N)	Fine	Moderate	17:54	7.1	Surface	1	2	28.8	8	20.8	10.8	9.8	15.4
TMCLKL	HY/2012/08	2019-10-11	Mid-Flood	_ , , , ,	Fine	Moderate		7.1	Middle	2	1	28.6	8	21.3	9.5	9.3	16.1
TMCLKL	HY/2012/08	2019-10-11	Mid-Flood		Fine	Moderate		7.1	Middle	2	2	28.6	8	21.3	9.5	9.3	16.7
TMCLKL	HY/2012/08	2019-10-11	Mid-Flood		Fine	Moderate	17:54	7.1	Bottom	3	1	28.6	8	21.3	8.8	7.8	14.6
TMCLKL	HY/2012/08	2019-10-11	Mid-Flood	_ , , , ,	Fine	Moderate		7.1	Bottom	3	2	28.6	8	21.3	8.8	7.7	14.3
TMCLKL	HY/2012/08	2019-10-11	Mid-Flood	IS(Mf)16	Fine	Moderate	17:18	4.8	Surface	1	1	28.6	7.8	23.5	8.9	4.2	16.5
TMCLKL	HY/2012/08	2019-10-11	Mid-Flood	IS(Mf)16	Fine	Moderate	17:18	4.8	Surface	1	2	28.6	7.8	23.5	8.9	4.2	16.4
TMCLKL	HY/2012/08	2019-10-11	Mid-Flood	IS(Mf)16	Fine	Moderate	17:18	4.8	Middle	2	1	1	1		-		
TMCLKL	HY/2012/08	2019-10-11	Mid-Flood	IS(Mf)16	Fine	Moderate	17:18	4.8	Middle	2	2	00.5	17.0	00.0	0.4		1110
TMCLKL	HY/2012/08	2019-10-11	Mid-Flood	IS(Mf)16	Fine	Moderate	17:18	4.8	Bottom	3	1	28.5	7.8	23.9	8.1	6.8	14.3
TMCLKL	HY/2012/08	2019-10-11	Mid-Flood	IS(Mf)16	Fine	Moderate	17:18	4.8	Bottom	3	2	28.5	7.8	23.9	8.1	6.8	15.2
TMCLKL	HY/2012/08	2019-10-11	Mid-Flood	SR4a	Fine	Moderate	17:09	3.3	Surface	1	1	28.7	7.8	24.3	8.4	3.4	19.3
TMCLKL	HY/2012/08	2019-10-11	Mid-Flood	SR4a	Fine	Moderate	17:09	3.3	Surface	1	2	28.7	7.8	24.3	8.4	3.4	19
TMCLKL	HY/2012/08	2019-10-11	Mid-Flood	SR4a	Fine	Moderate	17:09	3.3	Middle	2	1 2	-	-				
TMCLKL	HY/2012/08	2019-10-11	Mid-Flood	SR4a	Fine	Moderate	17:09	3.3	Middle	2	2	00.7	1 7 7	0.4.5	7 7		00.7
TMCLKL	HY/2012/08	2019-10-11	Mid-Flood	SR4a	Fine	Moderate	17:09	3.3	Bottom	3	1	28.7	7.7	24.5	7.7	6	22.7
TMCLKL	HY/2012/08	2019-10-11	Mid-Flood	SR4a	Fine	Moderate	17:09	3.3	Bottom	3	2	28.7	7.7	24.5	7.7	5.9	22
TMCLKL	HY/2012/08	2019-10-11	Mid-Flood	SR4(N2)	Fine	Moderate	17:05	3.6	Surface	1	17	28.5	7.8	24.2	8.1	/	22.8
TMCLKL	HY/2012/08	2019-10-11	Mid-Flood	SR4(N2)	Fine	Moderate	17:05	3.6	Surface	1	2	28.5	7.8	24.2	8.1	/	23
TMCLKL	HY/2012/08	2019-10-11	Mid-Flood	SR4(N2)	Fine	Moderate	17:05	3.6	Middle	2	1	-					
TMCLKL	HY/2012/08	2019-10-11	Mid-Flood	SR4(N2)	Fine	Moderate	17:05	3.6	Middle	2	2				<u> </u>		
TMCLKL	HY/2012/08	2019-10-11	Mid-Flood	SR4(N2)	Fine	Moderate	17:05	3.6	Bottom	3	1	28.5	7.8	24.4	7.4	9.3	21.1
TMCLKL	HY/2012/08	2019-10-11	Mid-Flood	SR4(N2)	Fine	Moderate	17:05	3.6	Bottom	3	2	28.5	7.8	24.4	7.4	9.3	21.6
TMCLKL	HY/2012/08	2019-10-11	Mid-Flood	IS8(N)	Fine	Moderate	17:00	3.7	Surface	1	1	28.6	7.9	23.8	8.8	10.7	17.6
TMCLKL	HY/2012/08	2019-10-11	Mid-Flood	IS8(N)	Fine	Moderate		3.7	Surface	1	2	28.6	7.9	23.8	8.8	10.6	18.5
TMCLKL	HY/2012/08	2019-10-11	Mid-Flood	IS8(N)	Fine	Moderate	17:00	3.7	Middle	2	1		1				
TMCLKL	HY/2012/08	2019-10-11	Mid-Flood	IS8(N)	Fine	Moderate	17:00	3.7	Middle	2	2						
TMCLKL	HY/2012/08	2019-10-11	Mid-Flood	IS8(N)	Fine	Moderate		3.7	Bottom	3	1	28.6	7.8	23.8	8.7	3.6	22
TMCLKL	HY/2012/08	2019-10-11	Mid-Flood	IS8(N)	Fine	Moderate	17:00	3.7	Bottom	3	2	28.6	7.8	23.8	8.7	3.6	22.9
TMCLKL	HY/2012/08	2019-10-11	Mid-Flood	IS(Mf)9	Fine	Moderate	16:52	4.1	Surface	1	1	28.5	8	24.4	7.7	5.3	22.2
TMCLKL	HY/2012/08	2019-10-11	Mid-Flood	IS(Mf)9	Fine	Moderate	16:52	4.1	Surface	1	2	28.5	8	24.4	7.7	5.3	22.9
TMCLKL	HY/2012/08	2019-10-11	Mid-Flood	IS(Mf)9	Fine	Moderate	16:52	4.1	Middle	2	1						
TMCLKL	HY/2012/08	2019-10-11	Mid-Flood	IS(Mf)9	Fine	Moderate	16:52	4.1	Middle	2	2	ļ.,					
TMCLKL	HY/2012/08	2019-10-11	Mid-Flood	IS(Mf)9	Fine	Moderate	16:52	4.1	Bottom	3	1	28.4		24.4	7.7	8.6	21.2
TMCLKL	HY/2012/08	2019-10-11	Mid-Flood	IS(Mf)9	Fine	Moderate	16:52	4.1	Bottom	3	2	28.5	7.9	24.4	7.7	8.6	20.4
TMCLKL	HY/2012/08	2019-10-11	Mid-Flood	IS(Mf)11	Fine	Moderate	17:30	11.4	Surface	1	1	28.7	7.8	23	10.2	3.2	12
TMCLKL	HY/2012/08	2019-10-11	Mid-Flood	IS(Mf)11	Fine	Moderate	17:30	11.4	Surface	1	2	28.7	7.8	22.9	10.3	3.2	12.8
TMCLKL	HY/2012/08	2019-10-11	Mid-Flood	IS(Mf)11	Fine	Moderate	17:30	11.4	Middle	2	11	28.5	7.8	23.5	9.3	5	13.3
TMCLKL	HY/2012/08	2019-10-11	Mid-Flood	IS(Mf)11	Fine	Moderate	17:30	11.4	Middle	2	2	28.6	7.8	23.5	9.3	4.9	12.9
TMCLKL	HY/2012/08	2019-10-11	Mid-Flood	IS(Mf)11	Fine	Moderate	17:30	11.4	Bottom	3	11	28.4	7.8	24.1	7.9	7.7	15.3
TMCLKL	HY/2012/08	2019-10-11	Mid-Flood	IS(Mf)11	Fine	Moderate	17:30	11.4	Bottom	3	2	28.4	7.8	24.1	7.9	7.6	15.6
TMCLKL	HY/2012/08	2019-10-11	Mid-Flood	SR7	Fine	Moderate		4.1	Surface	1	17	28.3	8	23.6	8.4	9.6	11.7
TMCLKL	HY/2012/08	2019-10-11	Mid-Flood	SR7	Fine	Moderate	18:28	4.1	Surface	10	1	28.4	8	23.5	8.5	9.5	12.1
TMCLKL	HY/2012/08	2019-10-11	Mid-Flood	SR7	Fine	Moderate		4.1	Middle	2	10	1	1		1		
TMCLKL	HY/2012/08	2019-10-11	Mid-Flood	SR7	Fine	Moderate	18:28	4.1	Middle	2	2	100.0		04.5	0.7	110.0	1440
TMCLKL	HY/2012/08	2019-10-11	Mid-Flood	SR7	Fine	Moderate	18:28	4.1	Bottom	3	17	28.2	8	24.5	6.7	12.9	14.2
TMCLKL	HY/2012/08	2019-10-11	Mid-Flood	SR7	Fine	Moderate	18:28	4.1	Bottom	3	2	28.2	8	24.4	6.7	12.9	14
TMCLKL	HY/2012/08	2019-10-11	Mid-Flood	IS17	Fine	Moderate	17:24	11.2	Surface	1	17	28.5	7.8	22.6	9.5	5.7	16.7
TMCLKL	HY/2012/08	2019-10-11	Mid-Flood	IS17	Fine	Moderate	17:24	11.2	Surface	1	2	28.5	7.8	22.6	9.4	5.6	16
TMCLKL	HY/2012/08	2019-10-11	Mid-Flood	IS17	Fine	Moderate	17:24	11.2	Middle	2	17	28.2	7.8	24.1	7.4	6.2	13.6
TMCLKL	HY/2012/08	2019-10-11	Mid-Flood	IS17	Fine	Moderate	17:24	11.2	Middle	2	2	28.2	7.8	24	7.1	6.2	12.9
TMCLKL	HY/2012/08	2019-10-11	Mid-Flood	IS17	Fine	Moderate	17:24	11.2	Bottom	3	11	28.2	7.8	24.4	6.7	8.2	12
TMCLKL	HY/2012/08	2019-10-11	Mid-Flood	IS17	Fine	Moderate	17:24	11.2	Bottom	3	4	28.2	7.8	24.4	0.7	8.1	11.1
TMCLKL	HY/2012/08	2019-10-14	Mid-Ebb	CS(Mf)5	Cloudy	Moderate	13:14	12	Surface	1	17	29.1	7.8	28.8	ρ	5.8	13.3
TMCLKL	HY/2012/08	2019-10-14	Mid-Ebb	CS(Mf)5	Cloudy	Moderate	13:14	12	Surface	1	2	29.1	7.8	28.7	b	5.8	13.9
TMCLKL	HY/2012/08	2019-10-14	Mid-Ebb	CS(Mf)5	Cloudy	Moderate	13:14	12	Middle	2	17	29.1	7.8	29.4	5.7	5.8	14.1
TMCLKL	HY/2012/08	2019-10-14	Mid-Ebb	CS(Mf)5	Cloudy	Moderate	13:14	12	Middle	2	4	29.1	7.8	29.4	5.8	5.5	15.2
TMCLKL	HY/2012/08	2019-10-14	Mid-Ebb	CS(Mf)5	Cloudy	Moderate	13:14	12	Bottom	3	17	29	7.8	29.8	5./	13.5	14.7
	HY/2012/08	2019-10-14	Mid-Ebb	CS(Mf)5	Cloudy	Moderate		12	Bottom	3	4	29	1	29.9	5.7	12.4	15.6
TMCLKL	HY/2012/08	2019-10-14	Mid-Ebb	CS(Mf)3(N)		Moderate		7.6	Surface	1	11	29.1		27.4	6.4	7.3	8.3
TMCLKL	HY/2012/08	2019-10-14	Mid-Ebb	CS(Mf)3(N)	leionaλ	Moderate	12:33	7.6	Surface	[1	2	29.1	7.8	27.4	6.4	7.3	lα

Project	Contract	Date	Tide	Stat	Weather	Sea Condition	Time	Water Depth	Level	Lev_Cod	Replicate	Temp(°C)	рН	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
TMCLKL	HY/2012/08	2019-10-14	Mid-Ebb	CS(Mf)3(N)	Cloudy	Moderate	12:33	7.6	Middle	2	1	28.9	7.8	28.6	6.1	11.4	9.8
TMCLKL	HY/2012/08	2019-10-14	Mid-Ebb	CS(Mf)3(N)	Cloudy	Moderate	12:33	7.6	Middle	2	2	29	7.8	28.6	6.1	11.3	9.9
TMCLKL	HY/2012/08	2019-10-14	Mid-Ebb	CS(Mf)3(N)	Cloudy	Moderate	12:33	7.6	Bottom	3	1	28.8	7.8	29.1	6.2	15.4	11.1
TMCLKL	HY/2012/08	2019-10-14	Mid-Ebb	CS(Mf)3(N)	Cloudy	Moderate	12:33	7.6	Bottom	3	2	28.8	7.8	29.1	6.1	15.1	11.3
TMCLKL	HY/2012/08	2019-10-14	Mid-Ebb	IS(Mf)16	Cloudy	Moderate	11:50	5.7	Surface	1	1	29.1	7.8	27.8	6.3	9.8	11
TMCLKL	HY/2012/08	2019-10-14	Mid-Ebb	IS(Mf)16	Cloudy	Moderate	11:50	5.7	Surface	1	2	29.1	7.8	27.7	6.4	10	10.7
TMCLKL	HY/2012/08	2019-10-14	Mid-Ebb	IS(Mf)16	Cloudy	Moderate	11:50	5.7	Middle	2	1						
TMCLKL	HY/2012/08	2019-10-14	Mid-Ebb	IS(Mf)16	Cloudy	Moderate	11:50	5.7	Middle	2	2						
TMCLKL	HY/2012/08	2019-10-14	Mid-Ebb	IS(Mf)16	Cloudy	Moderate	11:50	5.7	Bottom	3	1	29.1	7.8	28.3	6.2	7.5	11.8
TMCLKL	HY/2012/08	2019-10-14	Mid-Ebb	IS(Mf)16	Cloudy	Moderate	11:50	5.7	Bottom	3	2	29.1	7.8	28.2	6.2	7.6	11.4
TMCLKL	HY/2012/08	2019-10-14	Mid-Ebb	SR4a	Cloudy	Moderate		4.7	Surface	1	1	29.1	7.8	27.5	6.4	6	14
TMCLKL	HY/2012/08	2019-10-14	Mid-Ebb	SR4a	Cloudy	Moderate	11:41	4.7	Surface	1	2	29.1	7.8	27.5	6.4	5.6	14.5
TMCLKL	HY/2012/08	2019-10-14	Mid-Ebb	SR4a	Cloudy	Moderate	11:41	4.7	Middle	2	1						
TMCLKL	HY/2012/08	2019-10-14	Mid-Ebb	SR4a	Cloudy	Moderate	11:41	4.7	Middle	2	2						
TMCLKL	HY/2012/08	2019-10-14	Mid-Ebb	SR4a	Cloudy	Moderate		4.7	Bottom	3	1	29.1	7.8	27.5	6.4	8.7	19.2
TMCLKL	HY/2012/08	2019-10-14	Mid-Ebb	SR4a	Cloudy	Moderate		4.7	Bottom	3	2	29.1	7.8	27.5	6.4	8.4	19.4
TMCLKL	HY/2012/08	2019-10-14	Mid-Ebb	SR4(N2)	Cloudy	Moderate	11:37	4.5	Surface	1	1	29	7.8	26.7	6.4	5.7	13.5
TMCLKL	HY/2012/08	2019-10-14	Mid-Ebb	SR4(N2)	Cloudy	Moderate	11:37	4.5	Surface	1	2	29	7.8	26.8	6.4	5.4	13.9
TMCLKL	HY/2012/08	2019-10-14	Mid-Ebb	SR4(N2)	Cloudy	Moderate	11:37	4.5	Middle	2	1		1				
TMCLKL	HY/2012/08	2019-10-14	Mid-Ebb	SR4(N2)	Cloudy	Moderate	11:37	4.5	Middle	2	2	00.4	7.0	07.5	0.4	40.7	45.0
TMCLKL	HY/2012/08	2019-10-14	Mid-Ebb	SR4(N2)	Cloudy	Moderate	11:37	4.5	Bottom	3	1	29.1	7.8	27.5	6.4	10.7	15.8
TMCLKL	HY/2012/08	2019-10-14	Mid-Ebb	SR4(N2)	Cloudy Cloudy	Moderate	11:37	4.5	Bottom	3	2	29.1 29.1	7.8 7.9	27.5 27.2	6.4	10.6	15.1 19.7
TMCLKL TMCLKL	HY/2012/08 HY/2012/08	2019-10-14	Mid-Ebb Mid-Ebb	IS8(N)	Cloudy	Moderate Moderate	11:32 11:32	4.3	Surface Surface	1	12	29.1	7.9	27.2	6.7 6.7	11.1	19.7
TMCLKL	HY/2012/08	2019-10-14 2019-10-14	Mid-Ebb	IS8(N) IS8(N)	Cloudy	Moderate	11:32	4.3	Middle	2	1	29.1	7.9	21.2	0.7	111	19.4
TMCLKL	HY/2012/08	2019-10-14	Mid-Ebb	IS8(N)	Cloudy	Moderate	11:32	4.3	Middle	2	2		+				+
TMCLKL	HY/2012/08	2019-10-14	Mid-Ebb	IS8(N)	Cloudy	Moderate	11:32	4.3	Bottom	2	1	29.1	7.9	27.2	6.7	11.2	21.3
	HY/2012/08	2019-10-14	Mid-Ebb	IS8(N)	Cloudy	Moderate	11:32	4.3	Bottom	3	2	29.1	7.9	27.2	6.7	11.2	20.9
TMCLKL	HY/2012/08	2019-10-14	Mid-Ebb	IS(Mf)9	Cloudy	Moderate	11:29	3.3	Surface	1	1	29	7.9	27.2	6.9	5	8.6
TMCLKL	HY/2012/08	2019-10-14	Mid-Ebb	IS(Mf)9	Cloudy	Moderate	11:29	3.3	Surface	1	2	29	7.9	27.2	6.9	5	8 1
TMCLKL	HY/2012/08	2019-10-14	Mid-Ebb	IS(Mf)9	Cloudy	Moderate	11:29	3.3	Middle	2	1		17.0	27.2	0.0		- 0.1
TMCLKL	HY/2012/08	2019-10-14	Mid-Ebb	IS(Mf)9	Cloudy	Moderate	11:29	3.3	Middle	2	2						
TMCLKL	HY/2012/08	2019-10-14	Mid-Ebb	IS(Mf)9	Cloudy	Moderate	11:29	3.3	Bottom	3	1	29	7.9	27.2	6.9	5.2	13
TMCLKL	HY/2012/08	2019-10-14	Mid-Ebb	IS(Mf)9	Cloudy	Moderate	11:29	3.3	Bottom	3	2	29	7.9	27.2	6.9	5.1	12.3
TMCLKL	HY/2012/08	2019-10-14	Mid-Ebb	IS(Mf)11	Cloudy	Moderate	12:03	11.6	Surface	1	1	29.2	7.8	28	6.3	8.8	14.4
TMCLKL	HY/2012/08	2019-10-14	Mid-Ebb	IS(Mf)11	Cloudy	Moderate	12:03	11.6	Surface	1	2	29.2	7.8	28	6.4	8.8	14.1
TMCLKL	HY/2012/08	2019-10-14	Mid-Ebb	IS(Mf)11	Cloudy	Moderate	12:03	11.6	Middle	2	1	29.1	7.8	29.1	5.8	11.5	14.6
TMCLKL	HY/2012/08	2019-10-14	Mid-Ebb	IS(Mf)11	Cloudy	Moderate	12:03	11.6	Middle	2	2	29.1	7.8	29.1	5.8	10.8	15
TMCLKL	HY/2012/08	2019-10-14	Mid-Ebb	IS(Mf)11	Cloudy	Moderate	12:03	11.6	Bottom	3	1	29.1	7.8	29.5	5.8	12.1	16.8
TMCLKL	HY/2012/08	2019-10-14	Mid-Ebb	IS(Mf)11	Cloudy	Moderate	12:03	11.6	Bottom	3	2	29.1	7.8	29.6	5.8	12.5	17.1
TMCLKL	HY/2012/08	2019-10-14	Mid-Ebb	SR7	Cloudy	Moderate	12:56	4.5	Surface	1	1	29.2	7.8	28	6.4	9.4	12.5
TMCLKL	HY/2012/08	2019-10-14	Mid-Ebb	SR7	Cloudy	Moderate	12:56	4.5	Surface	1	2	29.2	7.8	28	6.4	8.7	11.8
TMCLKL	HY/2012/08	2019-10-14	Mid-Ebb	SR7	Cloudy	Moderate	12:56	4.5	Middle	2	1						
TMCLKL	HY/2012/08	2019-10-14	Mid-Ebb	SR7	Cloudy	Moderate	12:56	4.5	Middle	2	2						
TMCLKL	HY/2012/08	2019-10-14	Mid-Ebb	SR7	Cloudy	Moderate	12:56	4.5	Bottom	3	1	29.2	7.8	28.4	6.4	14.6	16.5
TMCLKL	HY/2012/08	2019-10-14	Mid-Ebb	SR7	Cloudy	Moderate	12:56	4.5	Bottom	3	2	29.2	7.8	28.5	6.4	14.5	15.2
TMCLKL	HY/2012/08	2019-10-14	Mid-Ebb	IS17	Cloudy	Moderate	11:56	7.8	Surface	1	1	29.1	7.8	28.3	6.1	13.9	17.3
TMCLKL	HY/2012/08	2019-10-14	Mid-Ebb	IS17	Cloudy	Moderate	11:56	7.8	Surface	1	2	29.2	7.8	28.3	6.1	13.8	17.6
TMCLKL	HY/2012/08	2019-10-14	Mid-Ebb	IS17	Cloudy	Moderate	11:56	7.8	Middle	2	1	29.1	7.8	28.7	6	14.4	17.4
TMCLKL	HY/2012/08	2019-10-14	Mid-Ebb	IS17	Cloudy	Moderate	11:56	7.8	Middle	2	2	29.1	7.8	28.6	6	14.9	18.2
TMCLKL	HY/2012/08	2019-10-14	Mid-Ebb	IS17	Cloudy	Moderate	11:56	7.8	Bottom	3	11	29.1	7.8	29	6.2	11.6	20.4
TMCLKL	HY/2012/08	2019-10-14	Mid-Ebb	IS17	Cloudy	Moderate	11:56	7.8	Bottom	3	2	29.1	7.8	29	6.2	11.6	19.7
TMCLKL	HY/2012/08	2019-10-14	Mid-Flood	CS(Mf)5	Cloudy	Moderate	06:10	12.8	Surface	1	12	29.1	7.8	27.7	6.4	5.7	15.3
TMCLKL	HY/2012/08	2019-10-14	Mid-Flood	CS(Mf)5	Cloudy	Moderate	06:10	12.8	Surface	12	1	29.1 29.1	7.8	27.6	6.4	5.7 6.8	16 15.1
TMCLKL	HY/2012/08	2019-10-14	Mid-Flood	CS(Mf)5	Cloudy	Moderate	06:10	12.8	Middle	2	12		7.8	28.4	6.1		
TMCLKL	HY/2012/08	2019-10-14	Mid-Flood	CS(Mf)5	Cloudy	Moderate	06:10	12.8	Middle	2	1	29.1	7.8	28.4	6.2	6.8	15.8
TMCLKL	HY/2012/08	2019-10-14	Mid-Flood	CS(Mf)5	Cloudy	Moderate Moderate	06:10	12.8	Bottom	2	2	29.1	7.8 7.8	29.7	5.8	8.2 8.5	16 15.7
TMCLKL	HY/2012/08	2019-10-14 2019-10-14	Mid-Flood Mid-Flood	CS(Mf)5 CS(Mf)3(N)	Cloudy	Moderate Moderate	06:10 06:53	12.8	Bottom Surface	1	1	29.1 29	7.8	29.7	5.8 6.6	9.2	16.7
			. (VIII I= [(()()()()	ICOUVIDO(IV)	ICIUUUV	nviouerale	100.03	17.O	iounace	11	11	123	17.0	[27.1	10.0	13.7	110.7
TMCLKL	HY/2012/08 HY/2012/08	2019-10-14	Mid-Flood	CS(Mf)3(N)		Moderate		7.5	Surface		2	29		27.1	6.6	9.1	16.3

Project	Contract	Date	Tide	Stat	Weather	Sea Condition	Time	Water Depth	Level	Lev_Cod	Replicate	Temp(°C)	рН	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
TMCLKL	HY/2012/08	2019-10-14	Mid-Flood	CS(Mf)3(N)	Cloudy	Moderate	06:53	7.5	Middle	2	2	29	7.8	27.1	6.6	10.9	18.9
TMCLKL	HY/2012/08	2019-10-14	Mid-Flood	CS(Mf)3(N)	Cloudy	Moderate	06:53	7.5	Bottom	3	1	29	7.8	27	6.6	13.8	18.7
TMCLKL	HY/2012/08	2019-10-14	Mid-Flood	CS(Mf)3(N)	Cloudy	Moderate	06:53	7.5	Bottom	3	2	29	7.8	27.1	6.6	13.6	18.1
TMCLKL	HY/2012/08	2019-10-14	Mid-Flood	IS(Mf)16	Cloudy	Moderate	07:38	5.4	Surface	1	1	29.1	7.8	27.5	6.5	11.6	14.3
TMCLKL	HY/2012/08	2019-10-14	Mid-Flood	IS(Mf)16	Cloudy	Moderate	07:38	5.4	Surface	1	2	29.1	7.8	27.5	6.5	11.2	14.9
TMCLKL	HY/2012/08	2019-10-14	Mid-Flood	IS(Mf)16	Cloudy	Moderate	07:38	5.4	Middle	2	1						
TMCLKL	HY/2012/08	2019-10-14	Mid-Flood	IS(Mf)16	Cloudy	Moderate	07:38	5.4	Middle	2	2						
TMCLKL	HY/2012/08	2019-10-14	Mid-Flood	IS(Mf)16	Cloudy	Moderate	07:38	5.4	Bottom	3	1	29.1	7.8	27.7	6.5	17.3	17.4
TMCLKL	HY/2012/08	2019-10-14	Mid-Flood	IS(Mf)16	Cloudy	Moderate	07:38	5.4	Bottom	3	2	29.1	7.8	27.7	6.5	17.1	18.1
TMCLKL	HY/2012/08	2019-10-14	Mid-Flood	SR4a	Cloudy	Moderate	07:47	5.6	Surface	1	1	29.1	7.8	27.5	6.3	6.9	16.3
TMCLKL	HY/2012/08	2019-10-14	Mid-Flood	SR4a	Cloudy	Moderate	07:47	5.6	Surface	1	2	29.1	7.8	27.5	6.3	6.8	17
TMCLKL	HY/2012/08	2019-10-14	Mid-Flood	SR4a	Cloudy	Moderate	07:47	5.6	Middle	2	1		-				
TMCLKL	HY/2012/08	2019-10-14	Mid-Flood	SR4a	Cloudy	Moderate	07:47	5.6	Middle	2	2	20.2	7.0	20.2	5.0	20.4	10.0
TMCLKL	HY/2012/08	2019-10-14	Mid-Flood	SR4a	Cloudy	Moderate	07:47	5.6	Bottom	3	1	29.2	7.8	28.3	5.9	32.1	16.8 17.2
TMCLKL TMCLKL	HY/2012/08 HY/2012/08	2019-10-14 2019-10-14	Mid-Flood Mid-Flood	SR4a SR4(N2)	Cloudy Cloudy	Moderate	07:47 07:51	5.6 4.2	Bottom Surface	3	1	29.2 29	7.8 7.8	28.3 27.3	5.9 6.4	32.1 6.2	13.5
TMCLKL	HY/2012/08	2019-10-14	Mid-Flood	SR4(N2)	Cloudy	Moderate Moderate	07:51	4.2	Surface	1	2	29	7.8	27.3	6.4	6.1	14.3
TMCLKL	HY/2012/08	2019-10-14	Mid-Flood	SR4(N2)	Cloudy	Moderate	07:51	4.2	Middle	2	1	29	7.0	21.3	0.4	0.1	14.3
TMCLKL	HY/2012/08	2019-10-14	Mid-Flood	SR4(N2)	Cloudy	Moderate	07:51	4.2	Middle	2	2	1	+		+	+	+
TMCLKL	HY/2012/08	2019-10-14	Mid-Flood	SR4(N2)	Cloudy	Moderate	07:51	4.2	Bottom	3	1	29.1	7.8	27.7	6.3	7.8	16.8
TMCLKL	HY/2012/08	2019-10-14	Mid-Flood	SR4(N2)	Cloudy	Moderate	07:51	4.2	Bottom	3	2	29.1	7.8	27.7	6.3	7.8	17.4
TMCLKL	HY/2012/08	2019-10-14	Mid-Flood	IS8(N)	Cloudy	Moderate	07:56	3.9	Surface	1	1	29	7.8	27.4	6.5	6.1	15.6
TMCLKL	HY/2012/08	2019-10-14	Mid-Flood	IS8(N)	Cloudy	Moderate		3.9	Surface	1	2	29	7.8	27.4	6.5	5.8	16.1
TMCLKL	HY/2012/08	2019-10-14	Mid-Flood	IS8(N)	Cloudy	Moderate	_	3.9	Middle	2	1	1	1			10.0	1
TMCLKL	HY/2012/08	2019-10-14	Mid-Flood	IS8(N)	Cloudy	Moderate	07:56	3.9	Middle	2	2						
TMCLKL	HY/2012/08	2019-10-14	Mid-Flood	IS8(N)	Cloudy	Moderate	07:56	3.9	Bottom	3	1	29.1	7.8	27.5	6.6	6.9	18.5
TMCLKL	HY/2012/08	2019-10-14	Mid-Flood	IS8(N)	Cloudy	Moderate	07:56	3.9	Bottom	3	2	29.1	7.8	27.5	6.6	6.8	17.9
TMCLKL	HY/2012/08	2019-10-14	Mid-Flood	IS(Mf)9	Cloudy	Moderate	08:02	3.5	Surface	1	1	29	7.8	27.3	6.5	6.4	14.1
TMCLKL	HY/2012/08	2019-10-14	Mid-Flood	IS(Mf)9	Cloudy	Moderate	08:02	3.5	Surface	1	2	29	7.8	27.3	6.5	6.4	14.7
TMCLKL	HY/2012/08	2019-10-14	Mid-Flood	IS(Mf)9	Cloudy	Moderate	08:02	3.5	Middle	2	1						
TMCLKL	HY/2012/08	2019-10-14	Mid-Flood	IS(Mf)9	Cloudy	Moderate	08:02	3.5	Middle	2	2						
TMCLKL	HY/2012/08	2019-10-14	Mid-Flood	IS(Mf)9	Cloudy	Moderate		3.5	Bottom	3	1	28.9	7.8	27.4	6.6	6.7	19.1
TMCLKL	HY/2012/08	2019-10-14	Mid-Flood	IS(Mf)9	Cloudy	Moderate	08:02	3.5	Bottom	3	2	28.9	7.8	27.4	6.6	6.6	19.5
TMCLKL	HY/2012/08	2019-10-14	Mid-Flood	IS(Mf)11	Cloudy	Moderate	07:24	12.1	Surface	1	1	29.1	7.9	27.5	6.7	9.5	16
TMCLKL	HY/2012/08	2019-10-14	Mid-Flood	IS(Mf)11	Cloudy	Moderate	07:24	12.1	Surface	1	2	29.1	7.9	27.5	6.7	9.4	17.3
TMCLKL	HY/2012/08	2019-10-14	Mid-Flood	IS(Mf)11	Cloudy	Moderate	07:24	12.1	Middle	2	1	29.1	7.8	27.5	6.7	12.7	15.8
TMCLKL	HY/2012/08	2019-10-14	Mid-Flood	IS(Mf)11	Cloudy	Moderate	07:24	12.1	Middle	2	2	29.1	7.8	27.5	6.7	11.9	16.2
TMCLKL	HY/2012/08	2019-10-14	Mid-Flood	IS(Mf)11	Cloudy	Moderate	07:24	12.1	Bottom	3	1	29.1	7.8	27.6	6.7	16.8	16.3
TMCLKL	HY/2012/08	2019-10-14	Mid-Flood	IS(Mf)11	Cloudy	Moderate	07:24	12.1	Bottom	3	2	29.1	7.8	27.6	6.7	17.1	16.5
TMCLKL	HY/2012/08	2019-10-14	Mid-Flood	SR7	Cloudy	Moderate	06:29	4.3	Surface	1	1	29	7.8	27.8	6.4	12.5	15.2
TMCLKL	HY/2012/08	2019-10-14	Mid-Flood	SR7	Cloudy	Moderate	06:29	4.3	Surface	1	1	29	7.8	27.8	6.4	12.3	15.7
TMCLKL TMCLKL	HY/2012/08 HY/2012/08	2019-10-14	Mid-Flood Mid-Flood	SR7 SR7	Cloudy Cloudy	Moderate Moderate	06:29 06:29	4.3	Middle Middle	2	2	+	+-		+	+	+
TMCLKL	HY/2012/08	2019-10-14	Mid-Flood	SR7	Cloudy	Moderate	06:29	4.3	Bottom	3	1	29.1	7.8	27.9	6.4	15.1	17.5
TMCLKL	HY/2012/08	2019-10-14	Mid-Flood	SR7	Cloudy	Moderate	06:29	4.3	Bottom	3	2	29.1	7.8	27.9	6.4	14.8	18.3
TMCLKL	HY/2012/08	2019-10-14	Mid-Flood	IS17	Cloudy	Moderate	07:32	8.4	Surface	1	1	29.1	7.8	28	6.3	7	16.8
TMCLKL	HY/2012/08	2019-10-14	Mid-Flood	IS17	Cloudy	Moderate	_	8.4	Surface	11	2	29.2	7.8	28	6.3	6.9	17.7
TMCLKL	HY/2012/08	2019-10-14	Mid-Flood	IS17	Cloudy	Moderate	_	8.4	Middle	2	11	29.2	7.8	28.2	6.2	12.8	18.6
TMCLKL	HY/2012/08	2019-10-14	Mid-Flood	IS17	Cloudy	Moderate	07:32	8.4	Middle	2	2	29.2	7.8	28.2	6.2	12.2	18.2
TMCLKL	HY/2012/08	2019-10-14	Mid-Flood	IS17	Cloudy	Moderate	07:32	8.4	Bottom	3	1	29.1	7.8	28.3	6.3	17.6	18.2
TMCLKL	HY/2012/08	2019-10-14	Mid-Flood	IS17	Cloudy	Moderate	07:32	8.4	Bottom	3	2	29.1	7.8	28.3	6.3	17.8	18.1
TMCLKL	HY/2012/08	2019-10-16	Mid-Ebb	CS(Mf)5	Fine	Moderate	14:43	12.4	Surface	1	1	28.3	8.1	30.8	5.6	5.5	7
TMCLKL	HY/2012/08	2019-10-16	Mid-Ebb	CS(Mf)5	Fine	Moderate	14:43	12.4	Surface	1	2	28.8	8	29.7	5.6	5.5	6.7
TMCLKL	HY/2012/08	2019-10-16	Mid-Ebb	CS(Mf)5	Fine	Moderate	14:43	12.4	Middle	2	1	28.2	8.1	31.3	5.4	5.6	6.8
TMCLKL	HY/2012/08	2019-10-16	Mid-Ebb	CS(Mf)5	Fine	Moderate	14:43	12.4	Middle	2	2	28.8	8	30.2	5.4	5.9	7.1
TMCLKL	HY/2012/08	2019-10-16	Mid-Ebb	CS(Mf)5	Fine	Moderate	14:43	12.4	Bottom	3	1	28.1	8.1	31.5	5.4	13	7.7
TMCLKL	HY/2012/08	2019-10-16	Mid-Ebb	CS(Mf)5	Fine	Moderate	14:43	12.4	Bottom	3	2	28.7	8	30.5	5.3	13.2	7.1
TMCLKL	HY/2012/08	2019-10-16	Mid-Ebb	CS(Mf)3(N)	Fine	Moderate	13:51	7.3	Surface	1	1	28	8.1	29.6	6	4.7	5.9
	HY/2012/08		Mid-Ebb	CS(Mf)3(N)		Moderate	13:51		Surface	1	2	28.6	8	28.7	5.9	4.6	6.4
	HY/2012/08	2019-10-16 2019-10-16	Mid-Ebb	CS(Mf)3(N)		Moderate	_	7.3	Middle	2	[1	27.7	8.1	30	6	5.7	6.1
TMCLKL	HY/2012/08		Mid-Ebb	CS(Mf)3(N)	IIII in a	Moderate	13:51	172	Middle	12	2	28.3	8	29	5.9	5.7	6.5

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Project	Contract	Date	Tide	Stat	Weather	Condition	Time	Depth	Level	Lev_Cod	Replicate	Temp(°C)	рН	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
TMCLKL	HY/2012/08	2019-10-16	Mid-Ebb	CS(Mf)3(N)	Fine	Moderate	13:51	7.3	Bottom	2	1	27.7	8.1	31.4	5.9	10.3	8.4
TMCLKL	HY/2012/08	2019-10-16	Mid-Ebb	CS(Mf)3(N)		Moderate	13:51	1	Bottom	2	2	28.2	8	30.3	<u> </u>	10.3	7.8
TMCLKL	HY/2012/08	2019-10-16	Mid-Ebb	IS(Mf)16	Fine	Calm	13:05	7.3	Surface	1	1	28.5	8.1	30.1	5.9 6.1	6.6	7.1
TMCLKL	HY/2012/08	2019-10-16	Mid-Ebb	IS(Mf)16	Fine Fine	Calm	13:05	5.5 5.5	Surface	1	2		0.1	29.2	0.1	6.7	7.7
TMCLKL	HY/2012/08	2019-10-16	Mid-Ebb	IS(Mf)16	Fine	Calm	13:05	5.5	Middle	2	1	29	<u> </u> 0	29.2	0	0.7	1.1
		2019-10-16	-	_ ` ′		Calm	-	+		2	2	1	-	+	+	+	+
TMCLKL	HY/2012/08 HY/2012/08		Mid-Ebb	IS(Mf)16	Fine		13:05	5.5	Middle	2	4	20.2	0.1	20.2	6.1	0.2	
TMCLKL		2019-10-16	Mid-Ebb	IS(Mf)16	Fine	Calm	13:05	5.5	Bottom	3	2	28.2	8.1	30.3	6.1	9.2	0.4
TMCLKL	HY/2012/08	2019-10-16	Mid-Ebb	IS(Mf)16	Fine	Calm	13:05	5.5	Bottom	3	2	28.7	8	29.3	0	9.4	8.4
TMCLKL	HY/2012/08	2019-10-16	Mid-Ebb	SR4a	Fine	Calm	12:51	4.6	Surface	1	2	28.3	8.1	30.2	5.7	7.5	7.9
TMCLKL	HY/2012/08	2019-10-16	Mid-Ebb	SR4a	Fine	Calm	12:51	4.6	Surface	1	2	28.8	18	29.2	5.7	7.8	8.6
TMCLKL	HY/2012/08	2019-10-16	Mid-Ebb	SR4a	Fine	Calm	12:51	4.6	Middle	2	2			+			
TMCLKL	HY/2012/08	2019-10-16	Mid-Ebb	SR4a	Fine	Calm	12:51	4.6	Middle	2	2	00.4	0.4	20.0	5.0	40.0	14.5
TMCLKL	HY/2012/08	2019-10-16	Mid-Ebb	SR4a	Fine	Calm	12:51	4.6	Bottom	3	1	28.1	8.1	30.3	5.6	10.8	11.5
TMCLKL	HY/2012/08	2019-10-16	Mid-Ebb	SR4a	Fine	Calm	12:51	4.6	Bottom	3	2	28.5	8	29.3	5.6	10.7	11.8
TMCLKL	HY/2012/08	2019-10-16	Mid-Ebb	SR4(N2)	Fine	Calm	12:44	3.8	Surface	1	1	28.2	8.1	30.1	5.6	11.5	10
TMCLKL	HY/2012/08	2019-10-16	Mid-Ebb	SR4(N2)	Fine	Calm	12:44	3.8	Surface	1	2	28.6	8	29.2	5.5	11.3	9.2
TMCLKL	HY/2012/08	2019-10-16	Mid-Ebb	SR4(N2)	Fine	Calm	12:44	3.8	Middle	2	1		-				9.1
TMCLKL	HY/2012/08	2019-10-16	Mid-Ebb	SR4(N2)	Fine	Calm	12:44	3.8	Middle	2	2		0.1	100.0	5.0	100	9.8
TMCLKL	HY/2012/08	2019-10-16	Mid-Ebb	SR4(N2)	Fine	Calm	12:44	3.8	Bottom	3	1	28	8.1	30.3	5.6	12.9	+
TMCLKL	HY/2012/08	2019-10-16	Mid-Ebb	SR4(N2)	Fine	Calm	12:44	3.8	Bottom	3	2	28.4	8	29.3	5.5	12.6	10.1
TMCLKL	HY/2012/08	2019-10-16	Mid-Ebb	IS8(N)	Fine	Calm	12:38	3.6	Surface	11	1	28	8.1	30.2	5.7	18.3	10.4
TMCLKL	HY/2012/08	2019-10-16	Mid-Ebb	IS8(N)	Fine	Calm	12:38	3.6	Surface	1	2	28.4	8	29.2	5.6	18.4	9.7
TMCLKL	HY/2012/08	2019-10-16	Mid-Ebb	IS8(N)	Fine	Calm	12:38	3.6	Middle	2	1						
TMCLKL	HY/2012/08	2019-10-16	Mid-Ebb	IS8(N)	Fine	Calm	12:38	3.6	Middle	2	2						
TMCLKL	HY/2012/08	2019-10-16	Mid-Ebb	IS8(N)	Fine	Calm	12:38	3.6	Bottom	3	1	28	8.1	30.1	5.8	14.8	10.8
TMCLKL	HY/2012/08	2019-10-16	Mid-Ebb	IS8(N)	Fine	Calm	12:38	3.6	Bottom	3	2	28.5	8	29.2	5.8	14.7	11.6
TMCLKL	HY/2012/08	2019-10-16	Mid-Ebb	IS(Mf)9	Fine	Calm	12:32	3.4	Surface	1	1	28	8.1	29.8	6	6.5	6.6
TMCLKL	HY/2012/08	2019-10-16	Mid-Ebb	IS(Mf)9	Fine	Calm	12:32	3.4	Surface	1	2	28.5	8	28.9	6	6.5	6.3
TMCLKL	HY/2012/08	2019-10-16	Mid-Ebb	IS(Mf)9	Fine	Calm	12:32	3.4	Middle	2	1						
TMCLKL	HY/2012/08	2019-10-16	Mid-Ebb	IS(Mf)9	Fine	Calm	12:32	3.4	Middle	2	2						
TMCLKL	HY/2012/08	2019-10-16	Mid-Ebb	IS(Mf)9	Fine	Calm	12:32	3.4	Bottom	3	1	28	8.1	29.9	6.1	8	7.8
TMCLKL	HY/2012/08	2019-10-16	Mid-Ebb	IS(Mf)9	Fine	Calm	12:32	3.4	Bottom	3	2	28.5	8	28.9	6	8.1	8.2
TMCLKL	HY/2012/08	2019-10-16	Mid-Ebb	IS(Mf)11	Fine	Moderate	14:15	11.3	Surface	1	1	28.8	8	29.4	6	8.2	9.1
TMCLKL	HY/2012/08	2019-10-16	Mid-Ebb	IS(Mf)11	Fine	Moderate	14:15	11.3	Surface	1	2	28.7	8	29.4	6	8.3	8.6
TMCLKL	HY/2012/08	2019-10-16	Mid-Ebb	IS(Mf)11	Fine	Moderate	14:15	11.3	Middle	2	1	28.5	8	29.5	5.6	9.4	7.9
TMCLKL	HY/2012/08	2019-10-16	Mid-Ebb	IS(Mf)11	Fine	Moderate	14:15	11.3	Middle	2	2	28.5	8	29.5	5.6	9.6	8.2
TMCLKL	HY/2012/08	2019-10-16	Mid-Ebb	IS(Mf)11	Fine	Moderate	14:15	11.3	Bottom	3	1	28.5	8	29.5	5.5	11.4	7.8
TMCLKL	HY/2012/08	2019-10-16	Mid-Ebb	IS(Mf)11	Fine	Moderate	14:15	11.3	Bottom	3	2	28.5	8	29.5	5.5	11.2	7.4
TMCLKL	HY/2012/08	2019-10-16	Mid-Ebb	SR7	Fine	Moderate	14:23	4.2	Surface	1	1	28.5	8.1	30.6	5.7	9.6	4.3
TMCLKL	HY/2012/08	2019-10-16	Mid-Ebb	SR7	Fine	Moderate	14:23	4.2	Surface	1	2	28.8	8	29.6	5.7	9.7	5.1
TMCLKL	HY/2012/08	2019-10-16	Mid-Ebb	SR7	Fine	Moderate	14:23	4.2	Middle	2	1						
TMCLKL	HY/2012/08	2019-10-16	Mid-Ebb	SR7	Fine	Moderate	14:23	4.2	Middle	2	2						
TMCLKL	HY/2012/08	2019-10-16	Mid-Ebb	SR7	Fine	Moderate	14:23	4.2	Bottom	3	1	28.4	8.1	30.7	5.7	11.6	10.7
TMCLKL	HY/2012/08	2019-10-16	Mid-Ebb	SR7	Fine	Moderate	14:23	4.2	Bottom	3	2	28.7	8	29.7	5.7	11.5	11.1
TMCLKL	HY/2012/08	2019-10-16	Mid-Ebb	IS17	Fine	Moderate	13:12	7.3	Surface	1	1	27.9	8.1	30.3	5.7	11.6	10.7
TMCLKL	HY/2012/08	2019-10-16	Mid-Ebb	IS17	Fine	Moderate		7.3	Surface	1	2	28.5	8	29.4	5.6	11.6	10.8
TMCLKL	HY/2012/08	2019-10-16	Mid-Ebb	IS17	Fine	Moderate	13:12	7.3	Middle	2	1	27.9	8.1	30.4	5.6	12.1	11.6
TMCLKL	HY/2012/08	2019-10-16	Mid-Ebb	IS17	Fine	Moderate		7.3	Middle	2	2	28.5	8	29.4	5.6	12.2	11.1
TMCLKL	HY/2012/08	2019-10-16	Mid-Ebb	IS17	Fine	Moderate		7.3	Bottom	3	1	27.9	8.1	30.5	5.6	12.3	11.2
TMCLKL	HY/2012/08	2019-10-16	Mid-Ebb	IS17	Fine	Moderate	13:12	7.3	Bottom	3	2	28.5	8	29.5	5.6	12.4	12
TMCLKL	HY/2012/08	2019-10-16	Mid-Flood	CS(Mf)5	Cloudy	Moderate	07:58	12.9	Surface	1	1	28.5	8	29.7	5.5	7.2	9.5
TMCLKL	HY/2012/08	2019-10-16	Mid-Flood	CS(Mf)5	Cloudy	Moderate	07:58	12.9	Surface	1	2	28.5	8	29.7	5.5	7.2	9.7
TMCLKL	HY/2012/08	2019-10-16	Mid-Flood	CS(Mf)5	Cloudy	Moderate	07:58	12.9	Middle	2	1	28.6	7.9	29.9	5.4	7.7	9.9
TMCLKL	HY/2012/08	2019-10-16	Mid-Flood	CS(Mf)5	Cloudy	Moderate	07:58	12.9	Middle	2	2	28.6	7.9	30	5.3	7.6	9.2
TMCLKL	HY/2012/08	2019-10-16	Mid-Flood	CS(Mf)5	Cloudy	Moderate	07:58	12.9	Bottom	3	1	28.6	7.9	30.1	5.3	10	9.7
TMCLKL	HY/2012/08	2019-10-16	Mid-Flood	CS(Mf)5	Cloudy		07:58	12.9	Bottom	3	2	28.6	7.9	30.1	5.4	10.1	9.3
TMCLKL	HY/2012/08	2019-10-16	Mid-Flood	CS(Mf)3(N)	Fine		08:50	7.4	Surface	1	1	27.9	7.9	29.6	5.6	10.2	12.5
TMCLKL	HY/2012/08	2019-10-16	Mid-Flood	CS(Mf)3(N)	Fine	Moderate	08:50	7.4	Surface	1	2	28.5	8	29.5	5.6	10.2	12.4
TMCLKL	HY/2012/08		Mid-Flood	CS(Mf)3(N)			08:50	7.4	Middle	2	1	27.9	8	29.6	5.6	11.4	13
TMCLKL	HY/2012/08		Mid-Flood	CS(Mf)3(N)	Fine			7.4		2	2	28.4	8	29.5	5.6	11.3	13.2
	HY/2012/08		Mid-Flood	CS(Mf)3(N)				7.4	Bottom		1	27.9	7.9	29.6	5.6	15.3	14.7
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Project	Contract	Date	Tide	Stat	Weather	Condition	Time	Depth	Level	Lev_Cod	Replicate	Temp(°C)	рН	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
TMCLKL	HY/2012/08	2019-10-16	Mid-Flood	CS(Mf)3(N)	Fine	Moderate	08:50	7.4	Bottom	3	2	28.4	8	29.5	5.6	15.3	14.5
TMCLKL	HY/2012/08	2019-10-16	Mid-Flood	IS(Mf)16	Cloudy	Moderate	09:34	5.6	Surface	1	1	27.8	7.9	29.5	5.8	8.3	9.9
TMCLKL	HY/2012/08	2019-10-16	Mid-Flood	IS(Mf)16	Cloudy	Moderate	09:34	5.6	Surface	1	2	28.3	Ω.3	29.4	5.7	8.4	9.6
TMCLKL	HY/2012/08	2019-10-16	Mid-Flood	IS(Mf)16	Cloudy	Moderate	09:34	5.6	Middle	2	1	20.3	10	29.4	3.1	0.4	9.0
TMCLKL	HY/2012/08	2019-10-16	Mid-Flood	IS(Mf)16		Moderate	09:34	5.6	Middle	2	2	+	1	1			+
TMCLKL	HY/2012/08	2019-10-16	Mid-Flood	IS(Mf)16	Cloudy	Moderate	09:34	5.6	Bottom	2	1	27.7	8	29.5	5.8	10.6	11.5
TMCLKL	HY/2012/08	2019-10-16	Mid-Flood	· /	Cloudy	Moderate	09:34	5.6	Bottom	2	2	28.3	7.9	29.4	5.8	10.8	11.8
TMCLKL	 	2019-10-16		IS(Mf)16 SR4a	Cloudy		09:45	+	Surface	3	1	27.9	7.9	29.2		10.8	
	HY/2012/08		Mid-Flood					4.4		1	2	+			5.3		9.9
TMCLKL	HY/2012/08	2019-10-16	Mid-Flood	SR4a	Cloudy		09:45	4.4	Surface	1	4	28.5	7.9	29.1	5.3	10.2	9.1
TMCLKL	HY/2012/08	2019-10-16	Mid-Flood	SR4a	Cloudy		09:45	4.4	Middle	2	2						+
TMCLKL	HY/2012/08	2019-10-16	Mid-Flood	SR4a	Cloudy		09:45	4.4	Middle	2	4	20	7.0	20.4	F	11 5	111.0
TMCLKL	HY/2012/08	2019-10-16	Mid-Flood	SR4a	Cloudy	Calm	09:45	4.4	Bottom	3	2	28	7.9	29.4	5.5	11.5	11.2
TMCLKL	HY/2012/08	2019-10-16	Mid-Flood	SR4a	Cloudy	Calm	09:45	4.4	Bottom	3	2	28.5	7.9	29.1	5.5	11.6	12
TMCLKL	HY/2012/08	2019-10-16	Mid-Flood	SR4(N2)	Sunny		09:52	4.1	Surface	1	2	27.7	8	29.4	5.8	9.2	16.8
TMCLKL	HY/2012/08	2019-10-16	Mid-Flood	SR4(N2)	Sunny		09:52	4.1	Surface	1	2	28.3	7.9	29.3	5.8	9.1	16
TMCLKL	HY/2012/08	2019-10-16	Mid-Flood	SR4(N2)	Sunny	Calm	09:52	4.1	Middle	2	1	1	1				
TMCLKL	HY/2012/08	2019-10-16	Mid-Flood	SR4(N2)	Sunny		09:52	4.1	Middle	2	2		-	100.5	15.0	10.4	15.0
TMCLKL	HY/2012/08	2019-10-16	Mid-Flood	SR4(N2)	Sunny	Calm	09:52	4.1	Bottom	3	1	27.7	8	29.5	5.9	12.1	15.8
TMCLKL	HY/2012/08	2019-10-16	Mid-Flood	SR4(N2)	Sunny	Calm	09:52	4.1	Bottom	3	2	28.3	7.9	29.4	5.9	12.2	15.3
TMCLKL	HY/2012/08	2019-10-16	Mid-Flood	IS8(N)	Sunny	Calm	09:56	4.3	Surface	1	1	27.7	8	29.3	5.7	10.2	12.7
TMCLKL	HY/2012/08	2019-10-16	Mid-Flood	IS8(N)	Sunny		09:56	4.3	Surface	1	2	28.3	8	29.2	5.7	10.9	13
TMCLKL	HY/2012/08	2019-10-16	Mid-Flood	IS8(N)	Sunny	Calm	09:56	4.3	Middle	2	1						
TMCLKL	HY/2012/08	2019-10-16	Mid-Flood	IS8(N)	Sunny		09:56	4.3	Middle	2	2		1				1.5
TMCLKL	HY/2012/08	2019-10-16	Mid-Flood	IS8(N)	Sunny		09:56	4.3	Bottom	3	1	27.7	8	29.4	5.8	9.8	12.2
TMCLKL	HY/2012/08	2019-10-16	Mid-Flood	IS8(N)	Sunny		09:56	4.3	Bottom	3	2	28.3	8	29.3	5.7	9.6	12.6
TMCLKL	HY/2012/08	2019-10-16	Mid-Flood	IS(Mf)9	Sunny	Calm	10:05	3.3	Surface	1	1	27.7	7.9	29.1	5.7	8.5	10.3
TMCLKL	HY/2012/08	2019-10-16	Mid-Flood	IS(Mf)9	Sunny	Calm	10:05	3.3	Surface	1	2	28.3	8	29	5.7	8.2	10.7
TMCLKL	HY/2012/08	2019-10-16	Mid-Flood	IS(Mf)9	Sunny	Calm	10:05	3.3	Middle	2	1						
TMCLKL	HY/2012/08	2019-10-16	Mid-Flood	IS(Mf)9	Sunny	Calm	10:05	3.3	Middle	2	2						
TMCLKL	HY/2012/08	2019-10-16	Mid-Flood	IS(Mf)9	Sunny	Calm	10:05	3.3	Bottom	3	1	27.8	8	29.3	5.6	11.7	12.8
TMCLKL	HY/2012/08	2019-10-16	Mid-Flood	IS(Mf)9	Sunny	Calm	10:05	3.3	Bottom	3	2	28.3	8	29.2	5.6	11.9	13.5
TMCLKL	HY/2012/08	2019-10-16	Mid-Flood	IS(Mf)11	Fine	Moderate	08:30	11.3	Surface	1	1	27.9	7.9	29.6	5.6	12.3	13.8
TMCLKL	HY/2012/08	2019-10-16	Mid-Flood	IS(Mf)11	Fine	Moderate	08:30	11.3	Surface	1	2	28.5	8	29.6	5.6	12.4	14.1
TMCLKL	HY/2012/08	2019-10-16	Mid-Flood	IS(Mf)11	Fine	Moderate	08:30	11.3	Middle	2	1	27.9	8	29.6	5.6	14.1	13.5
TMCLKL	HY/2012/08	2019-10-16	Mid-Flood	IS(Mf)11	Fine	Moderate	08:30	11.3	Middle	2	2	28.4	8	29.5	5.6	14.2	13.7
TMCLKL	HY/2012/08	2019-10-16	Mid-Flood	IS(Mf)11	Fine	Moderate	08:30	11.3	Bottom	3	1	27.9	7.9	29.6	5.7	16.8	13.9
TMCLKL	HY/2012/08	2019-10-16	Mid-Flood	IS(Mf)11	Fine	Moderate	08:30	11.3	Bottom	3	2	28.4	8	29.5	5.6	17	14.3
TMCLKL	HY/2012/08	2019-10-16	Mid-Flood	SR7	Fine	Moderate	08:22	4.4	Surface	1	1	28.4	8	29.4	5.7	9.5	9.3
TMCLKL	HY/2012/08	2019-10-16	Mid-Flood	SR7	Fine	Moderate	08:22	4.4	Surface	1	2	28.4	8	29.4	5.7	9.5	8.1
TMCLKL	HY/2012/08	2019-10-16	Mid-Flood	SR7	Fine	Moderate	08:22	4.4	Middle	2	1						
TMCLKL	HY/2012/08	2019-10-16	Mid-Flood	SR7	Fine	Moderate	08:22	4.4	Middle	2	2						
TMCLKL	HY/2012/08	2019-10-16	Mid-Flood	SR7	Fine	Moderate	08:22	4.4	Bottom	3	1	28.4	8	29.4	5.8	12.5	15.6
TMCLKL	HY/2012/08	2019-10-16	Mid-Flood	SR7	Fine	Moderate	08:22	4.4	Bottom	3	2	28.4	8	29.4	5.8	12.5	15
TMCLKL	HY/2012/08	2019-10-16	Mid-Flood	IS17	Cloudy	Moderate	09:25	7.2	Surface	1	1	27.9	8	29.6	5.7	11	13.5
TMCLKL	HY/2012/08	2019-10-16	Mid-Flood	IS17	Cloudy	Moderate	09:25	7.2	Surface	1	2	28.4	8	29.5	5.6	11.1	19.4
TMCLKL	HY/2012/08	2019-10-16	Mid-Flood	IS17	Cloudy	Moderate	09:25	7.2	Middle	2	1	27.9	8	29.6	5.9	14.3	26.5
TMCLKL	HY/2012/08	2019-10-16	Mid-Flood	IS17	Cloudy	Moderate	09:25	7.2	Middle	2	2	28.4	8	29.5	5.9	14.4	26.9
TMCLKL	HY/2012/08	2019-10-16	Mid-Flood	IS17	Cloudy	Moderate	09:25	7.2	Bottom	3	1	27.9	8	29.6	5.9	16.7	38.5
TMCLKL	HY/2012/08	2019-10-16	Mid-Flood	IS17	Cloudy	Moderate	09:25	7.2	Bottom	3	2	28.4	8	29.5	5.9	16.6	11.4
TMCLKL	HY/2012/08	2019-10-18	Mid-Ebb	CS(Mf)5	Sunny	Moderate	16:02	14.6	Surface	1	1	29	8	29.9	5.9	2.1	8.4
TMCLKL	HY/2012/08	2019-10-18	Mid-Ebb	CS(Mf)5	Sunny	Moderate	16:02	14.6	Surface	1	2	29	8	30.9	5.9	2.1	7.5
TMCLKL	HY/2012/08	2019-10-18	Mid-Ebb	CS(Mf)5	Sunny	Moderate	16:02	14.6	Middle	2	1	28.5	8	30.5	5.3	2.8	8
TMCLKL	HY/2012/08	2019-10-18	Mid-Ebb	CS(Mf)5	Sunny	Moderate	16:02	14.6	Middle	2	2	28.5	8	31.5	5.4	2.9	7.4
TMCLKL	HY/2012/08	2019-10-18	Mid-Ebb	CS(Mf)5	Sunny	Moderate	16:02	14.6	Bottom	3	1	28.5	8	30.6	5.3	4.1	8.3
TMCLKL	HY/2012/08	2019-10-18	Mid-Ebb	CS(Mf)5	Sunny	Moderate	16:02	14.6	Bottom	3	2	28.5	8	31.6	5.4	4.1	8.1
TMCLKL	HY/2012/08	2019-10-18	Mid-Ebb	CS(Mf)3(N)	Sunny	Moderate	15:24	7.5	Surface	1	1	27.3	8.1	29.2	6	5.4	14.6
TMCLKL	HY/2012/08	2019-10-18	Mid-Ebb	CS(Mf)3(N)	Sunny	Moderate	15:24	7.5	Surface	1	2	27.3	8.1	29.2	6	5.4	13.4
TMCLKL	HY/2012/08	2019-10-18	Mid-Ebb	CS(Mf)3(N)	Sunny	Moderate	15:24	7.5	Middle	2	1	27.1	8.2	30.1	6	7.3	14.5
TMCLKL	HY/2012/08		Mid-Ebb	CS(Mf)3(N)				7.5	Middle	2	2	27.1	8.2	30.1	16	7.3	14.3
TMCLKL	HY/2012/08		Mid-Ebb	CS(Mf)3(N)	Sunny	Moderate		7.5		3	1	27.1		30.3	5.9	8.2	13.3
			Mid-Ebb	CS(Mf)3(N)		Moderate			Bottom		2	27.1	8.2		5.9	8.2	14.1
LIVIOLIVE	1111/2012/00	12010 10-10	IMIN LDD		Out in ty	IMOGOIGIO	10.27	۱,٠٠٠		<u>1</u> 5	<u> -</u>	1-1.1	10.2	100.0	10.0	10.2	113.1

Project	Contract	Date	Tide	Stat	Weather	Sea	Time	Water	Level	Lev_Cod	Replicate	Temp(°C)	рН	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
						Condition		Depth		207_000	rtopilouto		<u> </u>				
TMCLKL	HY/2012/08	2019-10-18	Mid-Ebb	IS(Mf)16	Sunny	Moderate	14:19	5.6	Surface	1	1	28.4	8	29.4	5.8	6.5	14.3
TMCLKL	HY/2012/08	2019-10-18	Mid-Ebb	IS(Mf)16	Sunny	Moderate	14:19	5.6	Surface	1	2	28.4	8	30.4	5.9	6.5	14.9
TMCLKL	HY/2012/08	2019-10-18	Mid-Ebb	IS(Mf)16	Sunny	Moderate	14:19	5.6	Middle	2	1						
TMCLKL	HY/2012/08	2019-10-18	Mid-Ebb	IS(Mf)16	Sunny	Moderate	14:19	5.6	Middle	2	2	100.4		100.4	15.0	10.0	100
TMCLKL	HY/2012/08	2019-10-18	Mid-Ebb	IS(Mf)16	Sunny	Moderate	14:19	5.6	Bottom	3	11	28.4	8	29.4	5.8	10.2	16.9
TMCLKL	HY/2012/08	2019-10-18	Mid-Ebb	IS(Mf)16	Sunny	Moderate	14:19	5.6	Bottom	3	2	28.4	8	30.4	5.9	10.1	17.3
TMCLKL	HY/2012/08	2019-10-18	Mid-Ebb	SR4a	Sunny	Moderate	14:09	4.5	Surface	11	11	28.7	8	29.4	6	4.3	12.4
TMCLKL	HY/2012/08	2019-10-18	Mid-Ebb	SR4a	Sunny	Moderate	14:09	4.5	Surface	1	2	28.7	8	30.4	6.1	4.2	11.3
TMCLKL	HY/2012/08	2019-10-18	Mid-Ebb	SR4a	Sunny	Moderate	14:09	4.5	Middle	2	1		-				
TMCLKL	HY/2012/08	2019-10-18	Mid-Ebb	SR4a	Sunny	Moderate	14:09	4.5	Middle	2	2	100.0		100.4		0.5	144.0
TMCLKL	HY/2012/08	2019-10-18	Mid-Ebb	SR4a	Sunny	Moderate	14:09	4.5	Bottom	3	1	28.6	8	29.4	0	8.5	11.2
TMCLKL	HY/2012/08	2019-10-18	Mid-Ebb	SR4a	Sunny	Moderate	14:09	4.5	Bottom	3	2	28.6	8	30.4	6.1	8.4	12.6
TMCLKL	HY/2012/08	2019-10-18	Mid-Ebb	SR4(N2)	Sunny	Moderate	14:06	4.3	Surface	1	1	28.5	8	29.4	5.9	7.9	11.8
TMCLKL	HY/2012/08	2019-10-18	Mid-Ebb	SR4(N2)	Sunny	Moderate	14:06	4.3	Surface	1	2	28.5	8	30.4	р	7.8	12.3
TMCLKL	HY/2012/08	2019-10-18	Mid-Ebb	SR4(N2)	Sunny	Moderate	14:06	4.3	Middle	2	2						
TMCLKL	HY/2012/08	2019-10-18	Mid-Ebb	SR4(N2)	Sunny	Moderate	14:06	4.3	Middle	2	2	20.5	0	20.4	5.0	0.4	10.5
TMCLKL	HY/2012/08	2019-10-18	Mid-Ebb	SR4(N2)	Sunny	Moderate	14:06	4.3	Bottom	3	1	28.5	8	29.4	5.9	9.1	12.5
TMCLKL	HY/2012/08	2019-10-18	Mid-Ebb	SR4(N2)	Sunny	Moderate	14:06	4.3	Bottom	3	2	28.5	8	30.4	5.9	9.1	12.8
TMCLKL	HY/2012/08	2019-10-18	Mid-Ebb	IS8(N)	Sunny	Moderate	14:01	3.6	Surface	11	10	28.5	8	29.4	0	10.4	15.6 15.4
TMCLKL	HY/2012/08	2019-10-18	Mid-Ebb	IS8(N)	Sunny	Moderate	14:01	3.6	Surface	1	2	28.5	8	30.4	р	10.4	15.4
TMCLKL	HY/2012/08	2019-10-18	Mid-Ebb	IS8(N)	Sunny	Moderate		3.6	Middle Middle	2	10	+	+			-	
TMCLKL	HY/2012/08	2019-10-18	Mid-Ebb	IS8(N)	Sunny	Moderate	14:01	3.6		2	2	20.5	0	20.4		14.0	47.0
TMCLKL	HY/2012/08	2019-10-18	Mid-Ebb	IS8(N)	Sunny	Moderate		3.6	Bottom	3	1	28.5	8	29.4	6.4	11.2	17.9
TMCLKL	HY/2012/08	2019-10-18	Mid-Ebb	IS8(N)	Sunny	Moderate		3.6	Bottom	3	2	28.5	8	30.4	6.1	11.1	18.1
TMCLKL	HY/2012/08	2019-10-18	Mid-Ebb	IS(Mf)9	Sunny	Moderate		3.4	Surface	1	1	28.4	8	29.5	5.8	4.4	15.8 16
TMCLKL	HY/2012/08	2019-10-18	Mid-Ebb	IS(Mf)9	Sunny	Moderate		3.4	Surface	12	4	28.4	<u> </u> 0	30.5	5.9	4.3	10
TMCLKL	HY/2012/08	2019-10-18	Mid-Ebb	IS(Mf)9	Sunny	Moderate	13:47	3.4	Middle	2	12		+				
TMCLKL	HY/2012/08	2019-10-18	Mid-Ebb	IS(Mf)9	Sunny	Moderate	13:47	3.4	Middle	2	2	100.0	0	20.5	F 0	0.5	16.0
TMCLKL	HY/2012/08	2019-10-18	Mid-Ebb	IS(Mf)9	Sunny	Moderate	13:47 13:47	3.4	Bottom	3	12	28.2	8	29.5	5.8	8.5 8.5	16.9
TMCLKL	HY/2012/08	2019-10-18	Mid-Ebb	IS(Mf)9	Sunny	Moderate		3.4	Bottom	3	4	28.2	8	30.5	5.9		16.5 10.3
TMCLKL TMCLKL	HY/2012/08 HY/2012/08	2019-10-18	Mid-Ebb Mid-Ebb	IS(Mf)11	Sunny Sunny	Moderate	14:51 14:51	10.9	Surface Surface	1	12	28.5 28.5	8	29.3 29.3	5.9 5.9	7.4 7.4	10.9
	HY/2012/08	2019-10-18	Mid-Ebb	IS(Mf)11 IS(Mf)11		Moderate	14:51	10.9	Middle	12	1	28.2	8	29.3	5.7	9.5	12.4
TMCLKL	HY/2012/08			IS(Mf)11	Sunny	Moderate		10.9	Middle	2	12		8	29.3	5.7	9.5	13.2
TMCLKL TMCLKL	HY/2012/08	2019-10-18 2019-10-18	Mid-Ebb Mid-Ebb	IS(Mf)11	Sunny	Moderate	14:51 14:51	10.9	Bottom	2	1	28.2 28.2	8	29.4	5.6	10.1	14.4
TMCLKL	HY/2012/08	2019-10-18	Mid-Ebb	IS(Mf)11	Sunny Sunny	Moderate Moderate	14:51	10.9	Bottom	3	2	28.2	8	29.4	5.6	10.1	15.3
TMCLKL	HY/2012/08	2019-10-18	Mid-Ebb	SR7	Sunny	Moderate	14:43	4.2	Surface	1	1	28.4	8	29.5	5.7	6.9	15.4
TMCLKL	HY/2012/08	2019-10-18	Mid-Ebb	SR7	Sunny	Moderate	14:43	4.2	Surface	1	2	28.4	8	29.5	5.7	6.9	15.3
TMCLKL	HY/2012/08	2019-10-18	Mid-Ebb	SR7	Sunny	Moderate	14:43	4.2	Middle	2	1	20.4	10	29.5	5.7	0.9	15.5
TMCLKL	HY/2012/08	2019-10-18	Mid-Ebb	SR7	Sunny	Moderate	14:43	4.2	Middle	2	2						
TMCLKL	HY/2012/08	2019-10-18	Mid-Ebb	SR7	Sunny	Moderate	14:43	4.2	Bottom	2	1	28.4	8	29.5	5.8	9.1	16.1
TMCLKL	HY/2012/08	2019-10-18	Mid-Ebb	SR7	Sunny	Moderate		4.2	Bottom	3	2	28.4	8	29.5	5.8	9.1	16.7
TMCLKL	HY/2012/08	2019-10-18	Mid-Ebb	IS17	Sunny	Moderate	14:24	7.9	Surface	1	1	28.4	8	29.5	5.7	5.2	15.5
TMCLKL	HY/2012/08	2019-10-18	Mid-Ebb	IS17	Sunny	Moderate		7.9	Surface	1	2	28.4	8	30.5	5.7	5.2	15.9
TMCLKL	HY/2012/08	2019-10-18	Mid-Ebb	IS17	Sunny	Moderate	14:24	7.9	Middle	2	1	28.4	8	29.8	5.6	7.6	17.3
TMCLKL	HY/2012/08	2019-10-18	Mid-Ebb	IS17	Sunny	Moderate		7.9	Middle	2	12	28.4	8	30.8	5.7	7.6	16.7
TMCLKL	HY/2012/08	2019-10-18	Mid-Ebb	IS17	Sunny	Moderate		7.9	Bottom	3	1	28.4	8	29.9	5.6	11.1	19.1
TMCLKL	HY/2012/08	2019-10-18	Mid-Ebb	IS17	Sunny	Moderate		7.9	Bottom	3	2	28.4	8	30.9	5.8	11.1	19.1
TMCLKL	HY/2012/08	2019-10-18	Mid-Flood	CS(Mf)5	Sunny	Moderate	08:46	14.8	Surface	1	1	28.3	8	29.5	5.6	2.8	9.2
TMCLKL	HY/2012/08	2019-10-18	Mid-Flood	CS(Mf)5	Sunny	Moderate	08:46	14.8	Surface	1	2	28.3	8	29.5	5.6	2.8	9.6
TMCLKL	HY/2012/08	2019-10-18	Mid-Flood	CS(Mf)5	Sunny	Moderate	08:46	14.8	Middle	2	1	28.4	8	29.6	5.5	3.1	9.8
TMCLKL	HY/2012/08	2019-10-18	Mid-Flood	CS(Mf)5	Sunny	Moderate	08:46	14.8	Middle	2	2	28.4	8	29.6	5.5	3.1	9.4
TMCLKL	HY/2012/08	2019-10-18	Mid-Flood	CS(Mf)5	Sunny	Moderate	08:46	14.8	Bottom	3	1	28.4	7.9	29.6	5.5	4.2	9.4
TMCLKL	HY/2012/08	2019-10-18	Mid-Flood	CS(Mf)5	Sunny	Moderate	08:46	14.8	Bottom	3	12	28.4	7.9	29.6	5.5	4.2	9.4
TMCLKL	HY/2012/08	2019-10-18	Mid-Flood		Sunny	Moderate	09:29	7.3	Surface	1	1	28.1	8	28.8	5.8	6.4	12.4
TMCLKL	HY/2012/08	2019-10-18	Mid-Flood	CS(Mf)3(N)	Sunny	Moderate	09:29	7.3	Surface	11	2	28.1	8	28.8	5.8	6.4	12.6
TMCLKL	HY/2012/08	2019-10-18	Mid-Flood	CS(Mf)3(N)	Sunny	Moderate	09:29	7.3	Middle	2	1	28.1	8	28.8	5.8	8.6	14.9
TMCLKL	HY/2012/08	2019-10-18	Mid-Flood	CS(Mf)3(N)	Sunny	Moderate	09:29	7.3	Middle	2	2	28.1	8	28.8	5.8	8.6	15
	HY/2012/08	2019-10-18	Mid-Flood	CS(Mf)3(N)		Moderate		7.3	Bottom	3	11	28.1	8	28.8	5.9	11.7	15.1
TMCLKL	HY/2012/08	2019-10-18	Mid-Flood	CS(Mf)3(N)		Moderate		7.3	Bottom	3	2	28.1	8	28.8	5.9	11.7	15.2
	HY/2012/08	2019-10-18	Mid-Flood	IS(Mf)16	Sunny	Moderate		5.2	Surface	11	1 -	28.2	8	29.3	5.8	4.3	17.2
LINGLIKE	1 , 20 12, 00	1-010 10 10	111110 1 1000	1.0(1411) 10	1 - willy	Imodolato	110.17	10.2	10411400	<u> </u>	<u> ' </u>	1-0.2	اح	1-0.0	10.0	1	

Project	Contract	Date	Tide	Stat	Weather	Sea Condition	Time	Water	Level	Lev_Cod	Replicate	Temp(°C)	рН	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
TMCLKL	HY/2012/08	2019-10-18	Mid-Flood	IS(Mf)16	Sunny	Moderate	10:14	Depth 5.2	Surface	1	2	28.2	8	29.3	5.8	4.3	16.1
	HY/2012/08	2019-10-18	Mid-Flood	IS(Mf)16	Sunny	Moderate		5.2	Middle	2	1	20.2	$+$ $^{\circ}$	29.5	3.0	4.5	10.1
	HY/2012/08	2019-10-18	Mid-Flood	IS(Mf)16	Sunny	Moderate		5.2	Middle	2	2						
	HY/2012/08	2019-10-18	Mid-Flood	IS(Mf)16	Sunny	Moderate		5.2	Bottom	3	1	28.2	8	29.3	6	5.6	17.6
TMCLKL	HY/2012/08	2019-10-18	Mid-Flood	IS(Mf)16	Sunny	Moderate	+	5.2	Bottom	3	2	28.2	8	29.3	6	5.6	18.4
TMCLKL	HY/2012/08	2019-10-18	Mid-Flood	SR4a	Sunny	Moderate	10:23	5.6	Surface	1	1	28.2	8	29.2	5.7	3.8	11.1
TMCLKL	HY/2012/08	2019-10-18	Mid-Flood	SR4a	Sunny	Moderate	10:23	5.6	Surface	1	2	28.2	8	29.2	5.7	3.8	12.2
TMCLKL	HY/2012/08	2019-10-18	Mid-Flood	SR4a	Sunny	Moderate	10:23	5.6	Middle	2	1						
TMCLKL	HY/2012/08	2019-10-18	Mid-Flood	SR4a	Sunny	Moderate	10:23	5.6	Middle	2	2						
TMCLKL	HY/2012/08	2019-10-18	Mid-Flood	SR4a	Sunny	Moderate	10:23	5.6	Bottom	3	1	28.2	8	29.3	5.7	4.2	11.5
	HY/2012/08	2019-10-18	Mid-Flood	SR4a	Sunny	Moderate		5.6	Bottom	3	2	28.2	8	29.3	5.7	4.2	12
	HY/2012/08	2019-10-18	Mid-Flood	SR4(N2)	Sunny	Moderate		4.5	Surface	1	1	28.3	8	29.3	5.5	8.6	13.6
	HY/2012/08	2019-10-18	Mid-Flood	SR4(N2)	Sunny	Moderate		4.5	Surface	1	2	28.3	8	29.3	5.5	8.6	13
	HY/2012/08	2019-10-18	Mid-Flood	SR4(N2)	Sunny	Moderate		4.5	Middle	2	1						
	HY/2012/08	2019-10-18	Mid-Flood	SR4(N2)	Sunny	Moderate		4.5	Middle	2	2	00.0		00.4	5.0	140.7	15.4
	HY/2012/08	2019-10-18	Mid-Flood	SR4(N2)	Sunny	Moderate		4.5	Bottom	3	1	28.2	8	29.4	5.6	10.7	15.4
	HY/2012/08	2019-10-18	Mid-Flood	SR4(N2)	Sunny	Moderate		4.5	Bottom	3	2	28.2	8	29.4	5.6	10.7	14.6
TMCLKL	HY/2012/08	2019-10-18	Mid-Flood	IS8(N)	Sunny	Moderate		3.7	Surface	1	2	28.2	8 0	29.4	5.7	2.7	18.3
TMCLKL TMCLKL	HY/2012/08 HY/2012/08	2019-10-18 2019-10-18	Mid-Flood Mid-Flood	IS8(N) IS8(N)	Sunny	Moderate Moderate		3.7	Surface Middle	2	1	28.2	8	29.4	5.7	Z.1	19
TMCLKL	HY/2012/08	2019-10-18	Mid-Flood	IS8(N)	Sunny	Moderate	10:32	3.7	Middle	2	2		+	+			+
	HY/2012/08	2019-10-18	Mid-Flood	IS8(N)	Sunny	Moderate		3.7	Bottom	3	1	28.2	8	29.4	5.8	4.3	23.5
	HY/2012/08	2019-10-18	Mid-Flood	IS8(N)	Sunny	Moderate		3.7	Bottom	3	2	28.2	8	29.4	5.8	4.3	22.9
	HY/2012/08	2019-10-18	Mid-Flood	IS(Mf)9	Sunny	Moderate		3.2	Surface	1	1	28.4	8	29.6	5.7	11.2	14.3
	HY/2012/08	2019-10-18	Mid-Flood	IS(Mf)9	Sunny	Moderate		3.2	Surface	1	2	28.4	8	29.6	5.7	11.2	15.1
TMCLKL	HY/2012/08	2019-10-18	Mid-Flood	IS(Mf)9	Sunny	Moderate		3.2	Middle	2	1	20.1	Ť	20.0	0.7	1112	10.1
	HY/2012/08	2019-10-18	Mid-Flood	IS(Mf)9	Sunny	Moderate	10:39	3.2	Middle	2	2						
	HY/2012/08	2019-10-18	Mid-Flood	IS(Mf)9	Sunny	Moderate	10:39	3.2	Bottom	3	1	28.4	8	29.6	5.8	12.6	15
	HY/2012/08	2019-10-18	Mid-Flood	IS(Mf)9	Sunny	Moderate		3.2	Bottom	3	2	28.4	8	29.6	5.8	12.6	14.9
TMCLKL	HY/2012/08	2019-10-18	Mid-Flood	IS(Mf)11	Sunny	Moderate	09:59	10.8	Surface	1	1	28.1	8	29.3	5.7	3.2	14.1
TMCLKL	HY/2012/08	2019-10-18	Mid-Flood	IS(Mf)11	Sunny	Moderate	09:59	10.8	Surface	1	2	28.1	8	29.3	5.7	3.2	14.9
TMCLKL	HY/2012/08	2019-10-18	Mid-Flood	IS(Mf)11	Sunny	Moderate	09:59	10.8	Middle	2	1	28.1	8	29.3	5.7	5.1	14.7
TMCLKL	HY/2012/08	2019-10-18	Mid-Flood	IS(Mf)11	Sunny	Moderate	09:59	10.8	Middle	2	2	28.1	8	29.3	5.7	5.1	14.4
TMCLKL	HY/2012/08	2019-10-18	Mid-Flood	IS(Mf)11	Sunny	Moderate	09:59	10.8	Bottom	3	1	28.1	8	29.3	5.7	8.6	14.8
	HY/2012/08	2019-10-18	Mid-Flood	IS(Mf)11	Sunny	Moderate	09:59	10.8	Bottom	3	2	28.1	8	29.3	5.7	8.6	15.1
	HY/2012/08	2019-10-18	Mid-Flood	SR7	Sunny	Moderate		3.7	Surface	1	1	28.2	8	29.4	5.7	3.3	12.3
	HY/2012/08	2019-10-18	Mid-Flood	SR7	Sunny	Moderate		3.7	Surface	1	2	28.2	8	29.4	5.7	3.3	12.8
	HY/2012/08	2019-10-18	Mid-Flood	SR7	Sunny	Moderate		3.7	Middle	2	1						
	HY/2012/08	2019-10-18	Mid-Flood	SR7	Sunny	Moderate		3.7	Middle	2	2				 	<u> </u>	
	HY/2012/08	2019-10-18	Mid-Flood	SR7	Sunny	Moderate		3.7	Bottom	3	1	28.2	8	29.4	5.7	5.7	13.7
	HY/2012/08	2019-10-18	Mid-Flood	SR7	Sunny	Moderate		3.7	Bottom	3	2	28.2	8	29.4	5.7	5.7	13.5
	HY/2012/08	2019-10-18	Mid-Flood	IS17	Sunny	Moderate		8.6	Surface	1	1	28.2	8	29.3	5.8	3.6	13.1
	HY/2012/08 HY/2012/08	2019-10-18 2019-10-18	Mid-Flood Mid-Flood	IS17 IS17	Sunny	Moderate		8.6	Surface Middle	2	1	28.2 28.2	8	29.3 29.3	5.8 5.7	3.6 4.5	12.8 13.8
	HY/2012/08 HY/2012/08	2019-10-18	Mid-Flood	IS17	Sunny	Moderate Moderate		8.6	Middle	2	2	28.2	8	29.3	5.7	4.5	14.2
	HY/2012/08	2019-10-18	Mid-Flood	IS17	Sunny	Moderate		8.6	Bottom	3	1	28.2	8	29.4	5.8	5.6	13.6
	HY/2012/08	2019-10-18	Mid-Flood	IS17	Sunny	Moderate		8.6	Bottom	3	2	28.2	8	29.4	5.8	5.6	14.1
	HY/2012/08	2019-10-18	Mid-Ebb	CS(Mf)5	Cloudy	Moderate	04:27	12.8	Surface	1	1	26.7	8.1	30.7	5.7	3.4	6.1
	HY/2012/08	2019-10-21	Mid-Ebb	CS(Mf)5	Cloudy	Moderate	04:27	12.8	Surface	1	2	26.7	8.1	30.7	5.7	3.4	5.8
	HY/2012/08	2019-10-21	Mid-Ebb	CS(Mf)5	Cloudy	Moderate	04:27	12.8	Middle	2	1	27.2	8.1	31.8	5.2	4	6.4
	HY/2012/08	2019-10-21	Mid-Ebb	CS(Mf)5	Cloudy	Moderate	04:27	12.8	Middle	2	2	27.3	8.1	31.6	5.2	4	6.5
	HY/2012/08	2019-10-21	Mid-Ebb	CS(Mf)5	Cloudy	Moderate	04:27	12.8	Bottom	3	1	27.2	8.1	32.1	5.3	3.8	6.8
	HY/2012/08	2019-10-21	Mid-Ebb	CS(Mf)5	Cloudy	Moderate	04:27	12.8	Bottom	3	2	27.3	8.1	32.3	5.3	3.8	5.9
	HY/2012/08	2019-10-21	Mid-Ebb	CS(Mf)3(N)	Cloudy	Moderate	05:26	7.4	Surface	1	1	26.7	8.2	29.8	6.1	3.9	4.4
	HY/2012/08	2019-10-21	Mid-Ebb	CS(Mf)3(N)	Cloudy	Moderate		7.4	Surface	1	2	26.8	8.2	29.8	6.1	3.8	5.3
TMCLKL	HY/2012/08	2019-10-21	Mid-Ebb	CS(Mf)3(N)	Cloudy	Moderate	05:26	7.4	Middle	2	1	26.8	8.2	30.3	6	5.2	5.7
	HY/2012/08	2019-10-21	Mid-Ebb	CS(Mf)3(N)	Cloudy	Moderate	05:26	7.4	Middle	2	2	26.9	8.2	30.2	6	4.7	5.4
	HY/2012/08	2019-10-21	Mid-Ebb	CS(Mf)3(N)	Cloudy	Moderate	05:26	7.4	Bottom	3	1	26.7	8.2	30.5	6.1	6	6.1
	HY/2012/08		Mid-Ebb	CS(Mf)3(N)		Moderate	05:26		Bottom	3	2	26.8		30.5	6.1	5.9	7
	HY/2012/08	2019-10-21	Mid-Ebb	IS(Mf)16	Cloudy	Moderate		5.5	Surface	1	1	26.5	8.1	30.5	5.8	5.5	7.4
TMCLKL	HY/2012/08	2019-10-21	Mid-Ebb	IS(Mf)16	Cloudy	Moderate	06:02	5.5	Surface	[1	2	26.6	8.1	30.5	5.8	5.3	6.3

Draiget	Contract	Data	Tide	Stot	Weather	Sea	Time	Water	Lovel	Lay Cad	Donlingto	Tomn(°C)	L L	Solinity/nnt)	DO(ma/L)	Turkidity/NTU)	SS(ma/l)
Project	Contract	Date	Tide	Stat	vveather	Condition	Time	Depth	Level	Lev_Cod	Replicate	Temp(°C)	рН	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
TMCLKL	HY/2012/08	2019-10-21	Mid-Ebb	IS(Mf)16	Cloudy	Moderate	06:02	5.5	Middle	2	1						
TMCLKL	HY/2012/08	2019-10-21	Mid-Ebb	IS(Mf)16	Cloudy	Moderate	06:02	5.5	Middle	2	2						
TMCLKL	HY/2012/08	2019-10-21	Mid-Ebb	IS(Mf)16	Cloudy	Moderate	06:02	5.5	Bottom	3	1	26.7	8.1	30.8	5.7	7.5	6.6
TMCLKL	HY/2012/08	2019-10-21	Mid-Ebb	IS(Mf)16	Cloudy	Moderate	06:02	5.5	Bottom	3	2	26.8	8.1	30.8	5.7	7.7	6.3
TMCLKL	HY/2012/08	2019-10-21	Mid-Ebb	SR4a	Cloudy	Calm		4.8	Surface	1	1	26.5	8.1	30.4	5.5	4.9	7.8
TMCLKL	HY/2012/08	2019-10-21	Mid-Ebb	SR4a	Cloudy	Calm	06:11	4.8	Surface	1	2	26.6	8.1	30.3	5.6	5	8.1
TMCLKL	HY/2012/08	2019-10-21	Mid-Ebb	SR4a	Cloudy	Calm	06:11	4.8	Middle	2	1						
TMCLKL	HY/2012/08	2019-10-21	Mid-Ebb	SR4a	Cloudy	Calm	06:11	4.8	Middle	2	2				<u> </u>		
TMCLKL	HY/2012/08	2019-10-21	Mid-Ebb	SR4a	Cloudy	Calm	06:11	4.8	Bottom	3	1	26.9	8.1	30.7	5.5	6.2	6.8
TMCLKL	HY/2012/08	2019-10-21	Mid-Ebb	SR4a	Cloudy	Calm	06:11	4.8	Bottom	3	2	26.9	8.1	30.7	5.5	5.7	7.1
TMCLKL	HY/2012/08	2019-10-21	Mid-Ebb	SR4(N2)	Cloudy	Calm	06:16	3.8	Surface	11	11	26.7	8.1	30.5	5.5	6.7	7.4
TMCLKL	HY/2012/08	2019-10-21	Mid-Ebb	SR4(N2)	Cloudy	Calm	06:16	3.8	Surface	1	2	26.8	8.1	30.4	5.5	6.6	7.1
TMCLKL	HY/2012/08	2019-10-21	Mid-Ebb	SR4(N2)	Cloudy	Calm	06:16	3.8	Middle	2	11		+				
TMCLKL	HY/2012/08	2019-10-21	Mid-Ebb	SR4(N2)	Cloudy	Calm	06:16	3.8	Middle	2	2	100.0	0.4	00.0	5.0	0.0	
TMCLKL	HY/2012/08	2019-10-21	Mid-Ebb	SR4(N2)	Cloudy	Calm	06:16	3.8	Bottom	3	1	26.8	8.1	30.6	5.6	6.8	7
TMCLKL	HY/2012/08	2019-10-21	Mid-Ebb	SR4(N2)	Cloudy	Calm	06:16	3.8	Bottom	3	2	26.9	8.1	30.5	5.6	6.8	7.8
TMCLKL	HY/2012/08	2019-10-21	Mid-Ebb	IS8(N)	Cloudy	Calm		3.7	Surface	1	1	26.5	8.1	30.5	5.8	5.8	7.7
TMCLKL	HY/2012/08	2019-10-21	Mid-Ebb	IS8(N)	Cloudy	Calm		3.7	Surface	11		26.6	8.1	30.5	5.8	5.7	
TMCLKL	HY/2012/08	2019-10-21	Mid-Ebb	IS8(N)	Cloudy	Calm		3.7	Middle	2	10		+		+	+	
TMCLKL	HY/2012/08	2019-10-21	Mid-Ebb	IS8(N)	Cloudy	Calm	06:21	3.7	Middle	2		26.5	0.4	20 F	6	6.7	
TMCLKL	HY/2012/08	2019-10-21	Mid-Ebb	IS8(N)	Cloudy	Calm		3.7	Bottom	3	1	26.5	8.1	30.5	6	6.7	8.8
TMCLKL TMCLKL	HY/2012/08 HY/2012/08	2019-10-21 2019-10-21	Mid-Ebb Mid-Ebb	IS8(N)	Cloudy	Calm Calm	06:21 06:29	3.7	Bottom Surface	3 4	1	26.6 26.5	8.1 8.1	30.5	5.0	6.3	8.6
				IS(Mf)9	Cloudy					1	1			30.4	5.9	4.4	1 6
TMCLKL	HY/2012/08	2019-10-21	Mid-Ebb	IS(Mf)9	Cloudy	Calm	06:29	3.4	Surface	1	4	26.6	8.1	30.4	5.9	4.4	4.6
TMCLKL	HY/2012/08	2019-10-21	Mid-Ebb	IS(Mf)9	Cloudy	Calm	06:29	3.4	Middle	2	10	-	+				
TMCLKL TMCLKL	HY/2012/08 HY/2012/08	2019-10-21	Mid-Ebb Mid-Ebb	IS(Mf)9 IS(Mf)9	Cloudy Cloudy	Calm Calm	06:29 06:29	3.4	Middle Bottom	2	1	26.5	8.1	30.4	6.1	4.7	6.2
	HY/2012/08	2019-10-21	Mid-Ebb	IS(Mf)9	Cloudy	Calm	06:29	3.4	Bottom	3	12	26.7	8.1	30.4	6.1	4.7	6.3
TMCLKL TMCLKL	HY/2012/08	2019-10-21	Mid-Ebb	IS(Mf)11	Cloudy	Moderate	05:50	11.1	Surface	3	1	26.7	8.2	29.9	5.9		4.7
TMCLKL	HY/2012/08	2019-10-21	Mid-Ebb	IS(Mf)11	_		05:50	11.1	Surface	1	12	26.8	8.2	29.9	5.9	4.4	4.7
TMCLKL	HY/2012/08	2019-10-21	Mid-Ebb		Cloudy Cloudy	Moderate	_	11.1	Middle	12	1	26.8	8.1	30.1	5.8	5.8	5 0
TMCLKL	HY/2012/08	2019-10-21	Mid-Ebb	IS(Mf)11 IS(Mf)11	Cloudy	Moderate Moderate	05:50 05:50	11.1	Middle	2	12	26.8	8.1		5.8	5.2	5.8 6.4
TMCLKL	HY/2012/08	2019-10-21	Mid-Ebb	IS(Mf)11	Cloudy	Moderate	05:50	11.1	Bottom	2	1	26.9	8.1	30.3	5.9	7.1	6.4
TMCLKL	HY/2012/08	2019-10-21	Mid-Ebb	IS(Mf)11	Cloudy	Moderate	05:50	11.1	Bottom	3	12	27.1	8.1	30.3	5.9	7.2	5.5
TMCLKL	HY/2012/08	2019-10-21	Mid-Ebb	SR7	Cloudy		03.50	4.4	Surface	1	1	26.7	8.1	29.9	5.9	3.4	4.4
TMCLKL	HY/2012/08	2019-10-21	Mid-Ebb	SR7	Cloudy	Moderate Moderate	04:51	4.4	Surface	1	2	26.8	8.1	29.9	5.9	3.4	4.6
TMCLKL	HY/2012/08	2019-10-21	Mid-Ebb	SR7	Cloudy	Moderate	04:51	4.4	Middle	2	1	20.0	0.1	29.9	5.9	3.4	4.0
TMCLKL	HY/2012/08	2019-10-21	Mid-Ebb	SR7	Cloudy	Moderate	04:51	4.4	Middle	2	2		1				
TMCLKL	HY/2012/08	2019-10-21	Mid-Ebb	SR7	Cloudy	Moderate	04:51	4.4	Bottom	2	1	26.9	8.1	30.3	5.9	4.8	3.9
TMCLKL	HY/2012/08	2019-10-21	Mid-Ebb	SR7	Cloudy	Moderate		4.4	Bottom	3	2	27	8.1	30.4	5.9	4.8	3.5
TMCLKL	HY/2012/08	2019-10-21	Mid-Ebb	IS17	Cloudy	Moderate	_	9.2	Surface	1	1	26.7	8.1	30.4	5.7	4.6	5.5
TMCLKL	HY/2012/08	2019-10-21	Mid-Ebb	IS17	Cloudy	Moderate		9.2	Surface	1	2	26.8	8.1	30.4	5.7	4.6	6.4
TMCLKL	HY/2012/08	2019-10-21	Mid-Ebb	IS17	Cloudy	Moderate	05:56	9.2	Middle	2	1	26.7	8.1	30.5	5.8	4.6	5.8
TMCLKL	HY/2012/08	2019-10-21	Mid-Ebb	IS17	Cloudy	Moderate	05:56	9.2	Middle	2	2	26.8	8.1	30.5	5.8	4.6	5.3
TMCLKL	HY/2012/08	2019-10-21	Mid-Ebb	IS17	Cloudy	Moderate	05:56	9.2	Bottom	3	1	26.7	8.1	30.5	6.1	4.7	5.9
TMCLKL	HY/2012/08	2019-10-21	Mid-Ebb	IS17	Cloudy	Moderate	05:56	9.2	Bottom	3	2	26.8	8.1	30.5	6	4.6	5.2
TMCLKL	HY/2012/08	2019-10-21	Mid-Elood	CS(Mf)5	Cloudy	Moderate	18:05	12.8	Surface	1	1	27	8.1	31.5	5.4	4.2	6.1
TMCLKL	HY/2012/08	2019-10-21	Mid-Flood	CS(Mf)5	Cloudy	Moderate	18:05	12.8	Surface	11	2	27.1	8.1	31.4	5.4	4.4	6
TMCLKL	HY/2012/08	2019-10-21	Mid-Flood	CS(Mf)5	Cloudy	Moderate	18:05	12.8	Middle	2	1	27.1	8.1	31.9	5.5	4.6	5.8
TMCLKL	HY/2012/08	2019-10-21	Mid-Flood	CS(Mf)5	Cloudy	Moderate	18:05	12.8	Middle	2	2	27.2	8.1	31.9	5.4	4.2	6.6
TMCLKL	HY/2012/08	2019-10-21	Mid-Flood	CS(Mf)5	Cloudy	Moderate	18:05	12.8	Bottom	13	1 1	27.1	8.1	32	5.6	5.3	7.9
TMCLKL	HY/2012/08	2019-10-21	Mid-Flood	CS(Mf)5	Cloudy	Moderate	18:05	12.8	Bottom	3	2	27.2	8.1	32	5.6	5.3	7.2
TMCLKL	HY/2012/08	2019-10-21	Mid-Flood		Cloudy	Moderate	17:17	7.5	Surface	11	1 -	27.4	8.1	26.5	6.7	2.5	5.2
TMCLKL	HY/2012/08	2019-10-21	Mid-Flood		Cloudy	Moderate	17:17	7.5	Surface	11	2	27.5	8.1	26.5	6.7	2.5	5.4
TMCLKL	HY/2012/08	2019-10-21	Mid-Flood	_ ` ` ` ` `	Cloudy	Moderate		7.5	Middle	2	1 -	27.1	8.1	28.9	6.2	5.1	5.3
TMCLKL	HY/2012/08	2019-10-21	Mid-Flood	· · · · ·	Cloudy	Moderate		7.5	Middle	2	2	27.3	8.1	28.5	6.2	4.4	4
TMCLKL	HY/2012/08	2019-10-21	Mid-Flood		Cloudy	Moderate		7.5	Bottom	3	11	27	8.1	29.8	6.3	6.8	4.1
TMCLKL	HY/2012/08	2019-10-21	Mid-Flood	· · · · ·	Cloudy	Moderate	_	7.5	Bottom	3	2	27.1	8.1	29.8	6.3	6.9	4.8
	HY/2012/08	2019-10-21	Mid-Flood		Cloudy	Moderate		5.7	Surface	11	1 -	27	8.2	30.2	6.2	6	4.9
TMCLKL	HY/2012/08	2019-10-21	Mid-Flood		Cloudy	Moderate		5.7	Surface	11	2	27.1	•	30.2	6.2	5.6	4.4
	HY/2012/08	2019-10-21	Mid-Flood		Cloudy	Moderate		5.7	Middle	2	1	1	†	1		1	-
	1, = 0.12, 00	1-0.0 10 21	1	1.5,	1 2 ~ ~)	15451410	1.0.00	1	1	1-	1.	1		1			

Project	Contract	Date	Tide	Stat	Weather	Sea	Time	Water	Level	Lev_Cod	Replicate	Temp(°C)	рН	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
						Condition		Depth		207_000	rtopilouto	Tomp(o)	P	ounney(ppt)	55(mg/2)	Tarbialty(1110)	
TMCLKL	HY/2012/08	2019-10-21	Mid-Flood	IS(Mf)16	Cloudy	Moderate		5.7	Middle	2	2						
TMCLKL	HY/2012/08	2019-10-21	Mid-Flood	IS(Mf)16	Cloudy	Moderate		5.7	Bottom	3	1	27	8.2	30.2	6.3	6.9	6.4
TMCLKL	HY/2012/08	2019-10-21	Mid-Flood	IS(Mf)16	Cloudy	Moderate		5.7	Bottom	3	2	27.1	8.2	30.2	6.3	6.9	6.8
TMCLKL	HY/2012/08	2019-10-21	Mid-Flood	SR4a	Cloudy	Calm	16:29	4.6	Surface	1	1	27.2	8.2	30.3	6.1	5.1	5.9
TMCLKL	HY/2012/08	2019-10-21	Mid-Flood	SR4a	Cloudy	Calm		4.6	Surface	1	2	27.3	8.2	30.2	6.1	4.8	6.3
TMCLKL	HY/2012/08	2019-10-21	Mid-Flood	SR4a	Cloudy	Calm	16:29	4.6	Middle	2	1						
TMCLKL	HY/2012/08	2019-10-21	Mid-Flood	SR4a	Cloudy	Calm	16:29	4.6	Middle	2	2	107.4	0.4	00.0		10.5	
TMCLKL	HY/2012/08	2019-10-21	Mid-Flood	SR4a	Cloudy	Calm	16:29	4.6	Bottom	3	11	27.1	8.1	30.3	6.3	6.5	5.8
TMCLKL	HY/2012/08	2019-10-21	Mid-Flood	SR4a	Cloudy	Calm	16:29	4.6	Bottom	3	2	27.2	8.1	30.3	6.3	6.4	6
TMCLKL	HY/2012/08	2019-10-21	Mid-Flood	SR4(N2)	Cloudy	Calm	16:25	4.1	Surface	1	1	27.2	8.2	30.2	6.1	5.1	5.2
TMCLKL	HY/2012/08	2019-10-21	Mid-Flood	SR4(N2)	Cloudy	Calm		4.1	Surface	1	2	27.3	8.2	30.2	6.1	4.9	6.3
TMCLKL	HY/2012/08	2019-10-21	Mid-Flood	SR4(N2)	Cloudy	Calm		4.1	Middle	2	1		+				
TMCLKL	HY/2012/08	2019-10-21	Mid-Flood	SR4(N2)	Cloudy	Calm	16:25	4.1	Middle	2	2	07.0		00.0			
TMCLKL	HY/2012/08	2019-10-21	Mid-Flood	SR4(N2)	Cloudy	Calm		4.1	Bottom	3	1	27.2	8.2	30.2	6.1	6.3	6
TMCLKL	HY/2012/08	2019-10-21	Mid-Flood	SR4(N2)	Cloudy	Calm	16:25	4.1	Bottom	3	2	27.3	8.2	30.2	6.1	5.7	6.4
TMCLKL	HY/2012/08	2019-10-21	Mid-Flood	IS8(N)	Cloudy	Calm		3.8	Surface	1	11	27.1	8.2	30.2	6.2	6.2	5.3
TMCLKL	HY/2012/08	2019-10-21	Mid-Flood	IS8(N)	Cloudy	Calm		3.8	Surface	1	2	27.2	8.2	30.2	6.2	5.1	5.3
TMCLKL	HY/2012/08	2019-10-21	Mid-Flood	IS8(N)	Cloudy	Calm		3.8	Middle	2	1	1	-				+
TMCLKL	HY/2012/08	2019-10-21	Mid-Flood	IS8(N)	Cloudy	Calm		3.8	Middle	2	2	107	0.0	00.0		140.5	
TMCLKL	HY/2012/08	2019-10-21	Mid-Flood	IS8(N)	Cloudy	Calm		3.8	Bottom	3	1	27	8.2	30.3	6.3	10.5	7.9
TMCLKL	HY/2012/08	2019-10-21	Mid-Flood	IS8(N)	Cloudy	Calm		3.8	Bottom	3	2	27.1	8.2	30.3	6.2	10	7.5
TMCLKL	HY/2012/08	2019-10-21	Mid-Flood	IS(Mf)9	Cloudy	Calm	16:13	3.6	Surface	1	1	26.9	8.2	30.3	6.1	7.5	10.2
TMCLKL	HY/2012/08	2019-10-21	Mid-Flood	IS(Mf)9	Cloudy	Calm		3.6	Surface	1	2	27	8.2	30.3	6	7.4	9.6
TMCLKL	HY/2012/08	2019-10-21	Mid-Flood	IS(Mf)9	Cloudy	Calm		3.6	Middle	2	1						
TMCLKL	HY/2012/08	2019-10-21	Mid-Flood	IS(Mf)9	Cloudy	Calm		3.6	Middle	2	2						
TMCLKL	HY/2012/08	2019-10-21	Mid-Flood	IS(Mf)9	Cloudy	Calm		3.6	Bottom	3	1	26.9	8.2	30.3	6.3	7.6	9.7
TMCLKL	HY/2012/08	2019-10-21	Mid-Flood	IS(Mf)9	Cloudy	Calm	16:13	3.6	Bottom	3	2	27	8.2	30.3	6.2	7.6	10.1
TMCLKL	HY/2012/08	2019-10-21	Mid-Flood	IS(Mf)11	Cloudy	Moderate	16:50	11.3	Surface	1	1	26.9	8.1	30.4	5.8	6.7	8
TMCLKL	HY/2012/08	2019-10-21	Mid-Flood	IS(Mf)11	Cloudy	Moderate	16:50	11.3	Surface	1	2	27	8.1	30.4	5.8	6.6	8.7
TMCLKL	HY/2012/08	2019-10-21	Mid-Flood	IS(Mf)11	Cloudy	Moderate	16:50	11.3	Middle	2	1	26.9	8.1	30.4	5.7	7	9.7
TMCLKL	HY/2012/08	2019-10-21	Mid-Flood	IS(Mf)11	Cloudy	Moderate	16:50	11.3	Middle	2	2	27	8.1	30.4	5.7	6.8	9.4
TMCLKL	HY/2012/08	2019-10-21	Mid-Flood	IS(Mf)11	Cloudy	Moderate	16:50	11.3	Bottom	3	1	26.9	8.1	30.8	5.6	10.6	10.2
TMCLKL	HY/2012/08	2019-10-21	Mid-Flood	IS(Mf)11	Cloudy	Moderate	16:50	11.3	Bottom	3	2	27	8.1	30.8	5.6	10.6	9.7
TMCLKL	HY/2012/08	2019-10-21	Mid-Flood	SR7	Cloudy	Moderate		4.7	Surface	1	1	27.2	8.1	30.6	5.9	4.5	6.2
TMCLKL	HY/2012/08	2019-10-21	Mid-Flood	SR7	Cloudy	Moderate		4.7	Surface	1	2	27.3	8.1	30.6	5.9	4.3	6.4
TMCLKL	HY/2012/08	2019-10-21	Mid-Flood	SR7	Cloudy	Moderate		4.7	Middle	2	1						
TMCLKL	HY/2012/08	2019-10-21	Mid-Flood	SR7	Cloudy	Moderate		4.7	Middle	2	2						
TMCLKL	HY/2012/08	2019-10-21	Mid-Flood	SR7	Cloudy	Moderate		4.7	Bottom	3	1	27	8.1	30.6	6.2	6.9	5.5
TMCLKL	HY/2012/08	2019-10-21	Mid-Flood	SR7	Cloudy	Moderate	17:45	4.7	Bottom	3	2	27.2	8.1	30.6	6.2	6.3	6
TMCLKL	HY/2012/08	2019-10-21	Mid-Flood	IS17	Cloudy	Moderate	16:44	9.4	Surface	1	1	27	8.2	30.2	5.9	5.3	7.5
TMCLKL	HY/2012/08	2019-10-21	Mid-Flood	IS17	Cloudy	Moderate		9.4	Surface	1	2	27.1	8.2	30.2	5.9	5.3	7
TMCLKL	HY/2012/08	2019-10-21	Mid-Flood	IS17	Cloudy	Moderate		9.4	Middle	2	1	27	8.1	30.4	5.8	5.1	7.1
TMCLKL	HY/2012/08	2019-10-21	Mid-Flood	IS17	Cloudy	Moderate		9.4	Middle	2	2	27.1	8.1	30.4	5.8	5.3	7.3
TMCLKL	HY/2012/08	2019-10-21	Mid-Flood	IS17	Cloudy	Moderate		9.4	Bottom	3	1	27	8.1	30.7	5.7	4.5	9
TMCLKL	HY/2012/08	2019-10-21	Mid-Flood	IS17	Cloudy	Moderate		9.4	Bottom	3	2	27.2	8.1	30.7	5.7	4.4	9.1
TMCLKL	HY/2012/08	2019-10-23	Mid-Ebb	CS(Mf)5	Fine	Moderate		15.4	Surface	1	1	26.4	8.2	30.7	5.6	2.9	4.3
TMCLKL	HY/2012/08	2019-10-23	Mid-Ebb	CS(Mf)5	Fine	Moderate		15.4	Surface	1	2	26.4	8.2	30.7	5.6	2.9	3.9
TMCLKL	HY/2012/08	2019-10-23	Mid-Ebb	CS(Mf)5	Fine	Moderate		15.4	Middle	2	1	26.6	8.2	31.1	5.3	3	4.9
TMCLKL	HY/2012/08	2019-10-23	Mid-Ebb	CS(Mf)5	Fine	Moderate		15.4	Middle	2	2	26.6	8.2	31	5.4	3	4.7
TMCLKL	HY/2012/08	2019-10-23	Mid-Ebb	CS(Mf)5	Fine	Moderate	07:01	15.4	Bottom	3	[1	26.7	8.2	31.5	5.3	3.1	5.4
TMCLKL	HY/2012/08	2019-10-23	Mid-Ebb	CS(Mf)5	Fine	Moderate	07:01	15.4	Bottom	3	2	26.7	8.2	31.5	5.3	3.1	4.8
TMCLKL	HY/2012/08	2019-10-23	Mid-Ebb		Fine	Moderate	07:55	7.1	Surface	1	1	26.2	8.2	29	6.2	3.5	4.5
TMCLKL	HY/2012/08	2019-10-23	Mid-Ebb		Fine	Moderate	07:55	7.1	Surface	1	2	26.2	8.2	28.9	6.2	3.5	4.9
TMCLKL	HY/2012/08	2019-10-23	Mid-Ebb		Fine	Moderate	07:55	7.1	Middle	2	1	26.4	8.2	29.3	6.1	3.8	4.1
TMCLKL	HY/2012/08	2019-10-23	Mid-Ebb		Fine	Moderate	_	7.1	Middle	2	2	26.4	8.2	29.3	6.1	3.8	4.9
TMCLKL	HY/2012/08	2019-10-23	Mid-Ebb		Fine	Moderate	_	7.1	Bottom	3	1	26.4	8.2	30.5	6	8.6	4.7
TMCLKL	HY/2012/08	2019-10-23	Mid-Ebb		Fine	Moderate	07:55	7.1	Bottom	3	2	26.4	8.2	30.5	6	8.6	5
TMCLKL	HY/2012/08	2019-10-23	Mid-Ebb	IS(Mf)16	Fine	Moderate	08:30	5.6	Surface	1	1	26.2	8.2	30.3	5.9	8.5	10
ITA 40:	1111/10040/00	2010 10 22	Mid-Ebb	IS(Mf)16	Fine	Moderate	08:30	5.6	Surface	<u></u>	12	26.2	8.2	30.3	5.9	8.5	10.1
	HY/2012/08	2019-10-23								1	<u> </u>						
TMCLKL	HY/2012/08 HY/2012/08 HY/2012/08	2019-10-23 2019-10-23 2019-10-23	Mid-Ebb Mid-Ebb	IS(Mf)16 IS(Mf)16	Fine Fine	Moderate	08:30	5.6 5.6	Middle Middle	2	1						

Brainet	Contract	Doto	Tido	Ctot	Weether	Sea	Time	Water	Lovel	Lay Cad	Donlingto	Tomn(°C)	nU	Colinity/nnt)	DO(ma/L)	Turkidity/NITU	SS(ma/L)
Project	Contract	Date	Tide	Stat	Weather	Condition	Time	Depth	Level	Lev_Cod	Replicate	Temp(°C)	рН	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
TMCLKL	HY/2012/08	2019-10-23	Mid-Ebb	IS(Mf)16	Fine	Moderate	08:30	5.6	Bottom	3	1	26.2	8.2	30.3	6	9.1	11
TMCLKL	HY/2012/08	2019-10-23	Mid-Ebb	IS(Mf)16	Fine	Moderate	08:30	5.6	Bottom	3	2	26.2	8.2	30.3	6	9.1	11.6
TMCLKL	HY/2012/08	2019-10-23	Mid-Ebb	SR4a	Fine	Moderate	08:40	4.8	Surface	1	1	26.2	8.2	30.2	5.5	3.5	4.6
TMCLKL	HY/2012/08	2019-10-23	Mid-Ebb	SR4a	Fine	Moderate	08:40	4.8	Surface	1	2	26.2	8.2	30.2	5.5	3.4	5.7
TMCLKL	HY/2012/08	2019-10-23	Mid-Ebb	SR4a	Fine	Moderate	08:40	4.8	Middle	2	1						
TMCLKL	HY/2012/08	2019-10-23	Mid-Ebb	SR4a	Fine	Moderate	08:40	4.8	Middle	2	2		ļ		<u> </u>	<u> </u>	
TMCLKL	HY/2012/08	2019-10-23	Mid-Ebb	SR4a	Fine	Moderate	08:40	4.8	Bottom	3	1	26.8	8.1	30.6	5.4	4.7	5.2
TMCLKL	HY/2012/08	2019-10-23	Mid-Ebb	SR4a	Fine	Moderate	08:40	4.8	Bottom	3	2	26.8	8.1	30.6	5.4	4.6	5.5
TMCLKL	HY/2012/08	2019-10-23	Mid-Ebb	SR4(N2)	Fine	Moderate	08:44	4.2	Surface	1	1	26.4	8.1	30.3	5.5	7.6	10.6
TMCLKL	HY/2012/08	2019-10-23	Mid-Ebb	SR4(N2)	Fine	Moderate	08:44	4.2	Surface	1	2	26.4	8.1	30.3	5.5	7.6	10.5
TMCLKL	HY/2012/08	2019-10-23 2019-10-23	Mid-Ebb	SR4(N2)	Fine	Moderate	08:44	4.2	Middle	2	1		-				
TMCLKL	HY/2012/08 HY/2012/08		Mid-Ebb Mid-Ebb	SR4(N2) SR4(N2)	Fine Fine	Moderate	08:44	4.2	Middle Bottom	2	1	26.5	8.1	30.4	5.5	9.6	1111
TMCLKL TMCLKL	HY/2012/08	2019-10-23 2019-10-23	Mid-Ebb	SR4(N2)	Fine	Moderate Moderate	08:44 08:44	4.2	Bottom	3	2	26.5	8.1	30.4	5.5 5.5	9.6	11.4
TMCLKL	HY/2012/08	2019-10-23	Mid-Ebb	IS8(N)	Fine	Moderate	08:49	4.7	Surface	1	1	26.2	8.2	30.3	5.9	4.8	6
TMCLKL	HY/2012/08	2019-10-23	Mid-Ebb	IS8(N)	Fine	Moderate	08:49	4.7	Surface	1	2	26.2	8.2	30.3	5.9	4.8	5.8
TMCLKL	HY/2012/08	2019-10-23	Mid-Ebb	IS8(N)	Fine	Moderate	08:49	4.7	Middle	2	1	20.2	0.2	30.3	5.9	4.0	3.0
TMCLKL	HY/2012/08	2019-10-23	Mid-Ebb	IS8(N)	Fine	Moderate	08:49	4.7	Middle	2	2						+
TMCLKL	HY/2012/08	2019-10-23	Mid-Ebb	IS8(N)	Fine	Moderate	08:49	4.7	Bottom	3	1	26.1	8.2	30.3	6.1	5.3	5.7
TMCLKL	HY/2012/08	2019-10-23	Mid-Ebb	IS8(N)	Fine	Moderate	08:49	4.7	Bottom	3	2	26.1	8.2	30.3	6.1	5.3	6.2
TMCLKL	HY/2012/08	2019-10-23	Mid-Ebb	IS(Mf)9	Fine	Moderate	08:57	3.8	Surface	1	1	26.1	8.2	30	5.9	3	4.9
TMCLKL	HY/2012/08	2019-10-23	Mid-Ebb	IS(Mf)9	Fine	Moderate	08:57	3.8	Surface	1	2	26.1	8.2	30	5.9	3	4
TMCLKL	HY/2012/08	2019-10-23	Mid-Ebb	IS(Mf)9	Fine	Moderate		3.8	Middle	2	1		T -		-		
TMCLKL	HY/2012/08	2019-10-23	Mid-Ebb	IS(Mf)9	Fine	Moderate	08:57	3.8	Middle	2	2						
TMCLKL	HY/2012/08	2019-10-23	Mid-Ebb	IS(Mf)9	Fine	Moderate		3.8	Bottom	3	1	26	8.2	30.2	6	6	5.7
TMCLKL	HY/2012/08	2019-10-23	Mid-Ebb	IS(Mf)9	Fine	Moderate	08:57	3.8	Bottom	3	2	26	8.2	30.2	6	6.1	5.3
TMCLKL	HY/2012/08	2019-10-23	Mid-Ebb	IS(Mf)11	Fine	Moderate	08:18	11.2	Surface	1	1	26.3	8.2	29.5	6.1	3.7	7.2
TMCLKL	HY/2012/08	2019-10-23	Mid-Ebb	IS(Mf)11	Fine	Moderate	08:18	11.2	Surface	1	2	26.3	8.2	29.5	6.1	3.7	6.5
TMCLKL	HY/2012/08	2019-10-23	Mid-Ebb	IS(Mf)11	Fine	Moderate	08:18	11.2	Middle	2	1	26.4	8.1	29.7	6	4.9	6.9
TMCLKL	HY/2012/08	2019-10-23	Mid-Ebb	IS(Mf)11	Fine	Moderate	08:18	11.2	Middle	2	2	26.4	8.1	29.7	6	4.8	6.7
TMCLKL	HY/2012/08	2019-10-23	Mid-Ebb	IS(Mf)11	Fine	Moderate	08:18	11.2	Bottom	3	1	26.5	8.1	29.8	6.1	5.8	6.1
TMCLKL	HY/2012/08	2019-10-23	Mid-Ebb	IS(Mf)11	Fine	Moderate	08:18	11.2	Bottom	3	2	26.5	8.1	29.8	6.1	5.8	6.4
TMCLKL	HY/2012/08	2019-10-23	Mid-Ebb	SR7	Fine	Moderate	_	4.5	Surface	1	1	26.5	8.2	29.8	6	4.1	3.8
TMCLKL	HY/2012/08	2019-10-23	Mid-Ebb	SR7	Fine	Moderate		4.5	Surface	1	2	26.5	8.2	29.7	6	4.1	4.5
TMCLKL	HY/2012/08	2019-10-23	Mid-Ebb	SR7	Fine	Moderate		4.5	Middle	2	1		-				
TMCLKL	HY/2012/08	2019-10-23	Mid-Ebb	SR7	Fine	Moderate	07:24	4.5	Middle	2	2	20.0	0.4	20			4.7
TMCLKL	HY/2012/08	2019-10-23	Mid-Ebb	SR7 SR7	Fine	Moderate	07:24	4.5	Bottom	3	1	26.6 26.6	8.1	30	6	5	4.7
TMCLKL TMCLKL	HY/2012/08 HY/2012/08	2019-10-23 2019-10-23	Mid-Ebb Mid-Ebb	IS17	Fine Fine	Moderate	07:24 08:24	4.5 11.8	Bottom Surface	3	1	26.4	8.1	30	5.0	2.1	4.6
TMCLKL	HY/2012/08	2019-10-23	Mid-Ebb	IS17	Fine	Moderate Moderate	08:24	11.8	Surface	1	2	26.4	8.2	30	5.9 5.9	2.1	6.6
TMCLKL	HY/2012/08	2019-10-23	Mid-Ebb	IS17	Fine	Moderate		11.8	Middle	2	1	26.4	8.2	30.2	6	1	7
TMCLKL	HY/2012/08	2019-10-23	Mid-Ebb	IS17	Fine	Moderate		11.8	Middle	2	2	26.4	8.2	30.2	5.9	3.9	7.9
TMCLKL	HY/2012/08	2019-10-23	Mid-Ebb	IS17	Fine	Moderate	08:24	11.8	Bottom	3	1	26.4	8.2	30.3	6	6	9
TMCLKL	HY/2012/08	2019-10-23	Mid-Ebb	IS17	Fine	Moderate	08:24	11.8	Bottom	3	2	26.4	8.2	30.3	6	5.9	9.5
TMCLKL	HY/2012/08	2019-10-23	Mid-Flood	CS(Mf)5	Fine	Moderate	16:29	14.2	Surface	1	1	26.8	8.2	30.5	6	2.9	4.6
TMCLKL	HY/2012/08	2019-10-23	Mid-Flood	CS(Mf)5	Fine	Moderate	16:29	14.2	Surface	1	2	26.8	8.2	30.5	6	2.9	5.1
TMCLKL	HY/2012/08	2019-10-23	Mid-Flood	CS(Mf)5	Fine	Moderate	16:29	14.2	Middle	2	1	26.8	8.2	31.2	5.5	5.1	5
TMCLKL	HY/2012/08	2019-10-23	Mid-Flood	CS(Mf)5	Fine	Moderate	16:29	14.2	Middle	2	2	26.8	8.2	31.2	5.5	5.1	5.3
TMCLKL	HY/2012/08	2019-10-23	Mid-Flood	CS(Mf)5	Fine	Moderate	16:29	14.2	Bottom	3	1	26.9	8.1	31.6	5.6	8.8	4.8
TMCLKL	HY/2012/08	2019-10-23	Mid-Flood	CS(Mf)5	Fine	Moderate	16:29	14.2	Bottom	3	2	26.9	8.1	31.6	5.6	8.8	5.4
TMCLKL	HY/2012/08	2019-10-23	Mid-Flood		Fine	Moderate	15:34	7.2	Surface	1	1	26.9	8.2	27.6	6.8	4.7	6.6
TMCLKL	HY/2012/08	2019-10-23	Mid-Flood		Fine	Moderate	15:34	7.2	Surface	1	2	26.9	8.2	27.6	6.8	4.7	6.8
TMCLKL	HY/2012/08	2019-10-23	Mid-Flood		Fine	Moderate	15:34	7.2	Middle	2	1	26.8	8.2	28	6.6	4.6	8.1
TMCLKL	HY/2012/08	2019-10-23	Mid-Flood		Fine	Moderate	15:34	7.2	Middle	2	2	26.8	8.2	28	6.6	4.6	8.7
TMCLKL	HY/2012/08	2019-10-23	Mid-Flood		Fine	Moderate	15:34	7.2	Bottom	3	1	26.7	8.2	28.4	6.6	6.5	8.7
TMCLKL	HY/2012/08	2019-10-23	Mid-Flood	· / / /	Fine	Moderate		7.2	Bottom	3	2	26.7	8.2	28.4	6.5	6.5	8.4
TMCLKL	HY/2012/08	2019-10-23	Mid-Flood	IS(Mf)16	Fine	Moderate	14:59	5.2	Surface	1	1	26.8	8.2	29.9	6.2	6.9	10.4
TMCLKL	HY/2012/08	2019-10-23	Mid-Flood	IS(Mf)16	Fine	Moderate	14:59	5.2	Surface	1	2	26.8	8.2	29.9	6.2	6.9	10.1
	HY/2012/08	2019-10-23	Mid-Flood	\ /	Fine	Moderate		5.2	Middle	2	1	1	1				
TMCLKL	HY/2012/08	2019-10-23	Mid-Flood	IS(Mf)16	Fine	Moderate		5.2	Middle	2	1	26.9	0.0	20.1	6.1	7 0	10
TMCLKL	HY/2012/08	2019-10-23	Mid-Flood	IS(Mf)16	Fine	Moderate	14:59	5.2	Bottom	3	[1	26.8	8.2	J3U. I	6.1	7.8	10

Project	Contract	Date	Tide	Stat	Weather	Sea	Time	Water	Level	Lev_Cod	Replicate	Temp(°C)	рН	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
	LIV/2012/09	2010 10 22	Mid Flood	IC/Mt)16	Fine	Condition	14:59	Depth		_							
TMCLKL TMCLKL	HY/2012/08 HY/2012/08	2019-10-23	Mid-Flood Mid-Flood	IS(Mf)16 SR4a	Fine Fine	Moderate Moderate		5.2 4.1	Bottom Surface	3	1	26.8 26.8	8.2 8.1	30.1	6.1 5.9	7.9 4.9	9.6 6.1
TMCLKL	HY/2012/08	2019-10-23	Mid-Flood	SR4a	Fine	Moderate	-	4.1	Surface	1	2	26.9	8.1	30.3	5.9	4.8	6.8
TMCLKL	HY/2012/08	2019-10-23	Mid-Flood	SR4a	Fine	Moderate	-	4.1	Middle	2	1	20.9	0.1	30.3	5.9	4.0	0.0
TMCLKL	HY/2012/08	2019-10-23	Mid-Flood	SR4a	Fine	Moderate	14:50	4.1	Middle	2	2		+				+
TMCLKL	HY/2012/08	2019-10-23	Mid-Flood	SR4a	Fine	Moderate	14:50	4.1	Bottom	3	1	26.9	8.1	30.5	5.5	7.7	6.7
TMCLKL	HY/2012/08	2019-10-23	Mid-Flood	SR4a	Fine	Moderate	14:50	4.1	Bottom	3	2	26.8	8.1	30.5	5.5	7.8	7.3
TMCLKL	HY/2012/08	2019-10-23	Mid-Flood	SR4(N2)	Fine	Moderate	+	4.5	Surface	1	1	26.9	8.2	30.2	6	4.7	7.2
TMCLKL	HY/2012/08	2019-10-23	Mid-Flood	SR4(N2)	Fine	Moderate	+	4.5	Surface	1	2	26.9	8.2	30.1	6	4.7	7.4
TMCLKL	HY/2012/08	2019-10-23	Mid-Flood	SR4(N2)	Fine	Moderate	+	4.5	Middle	2	1						
TMCLKL	HY/2012/08	2019-10-23	Mid-Flood	SR4(N2)	Fine	Moderate	+	4.5	Middle	2	2						
TMCLKL	HY/2012/08	2019-10-23	Mid-Flood	SR4(N2)	Fine	Moderate	+	4.5	Bottom	3	1	26.7	8.1	30.4	6	6.9	8.9
TMCLKL	HY/2012/08	2019-10-23	Mid-Flood	SR4(N2)	Fine	Moderate		4.5	Bottom	3	2	26.7	8.1	30.4	6	6.9	8.8
TMCLKL	HY/2012/08	2019-10-23	Mid-Flood	IS8(N)	Fine	Moderate	14:41	4.7	Surface	1	1	27	8.2	29.8	6.3	3.9	5.4
TMCLKL	HY/2012/08	2019-10-23	Mid-Flood	IS8(N)	Fine	Moderate		4.7	Surface	1	2	27	8.2	29.8	6.3	4	6.2
TMCLKL	HY/2012/08	2019-10-23	Mid-Flood	IS8(N)	Fine	Moderate	14:41	4.7	Middle	2	1						
TMCLKL	HY/2012/08	2019-10-23	Mid-Flood	IS8(N)	Fine	Moderate	14:41	4.7	Middle	2	2						
TMCLKL	HY/2012/08	2019-10-23	Mid-Flood	IS8(N)	Fine	Moderate	14:41	4.7	Bottom	3	1	27	8.2	30	6.3	3.5	7.2
TMCLKL	HY/2012/08	2019-10-23	Mid-Flood	IS8(N)	Fine	Moderate	14:41	4.7	Bottom	3	2	27	8.2	30	6.3	3.5	8
TMCLKL	HY/2012/08	2019-10-23	Mid-Flood	IS(Mf)9	Fine	Moderate	14:28	4.2	Surface	1	1	26.9	8.2	30.4	5.9	11.7	12.5
TMCLKL	HY/2012/08	2019-10-23	Mid-Flood	IS(Mf)9	Fine	Moderate	14:28	4.2	Surface	1	2	26.9	8.2	30.4	5.9	11.8	13.1
TMCLKL	HY/2012/08	2019-10-23	Mid-Flood	IS(Mf)9	Fine	Moderate	14:28	4.2	Middle	2	1						
TMCLKL	HY/2012/08	2019-10-23	Mid-Flood	IS(Mf)9	Fine	Moderate	14:28	4.2	Middle	2	2						
TMCLKL	HY/2012/08	2019-10-23	Mid-Flood	IS(Mf)9	Fine	Moderate	14:28	4.2	Bottom	3	1	26.8	8.2	30.4	6.1	16.7	13
TMCLKL	HY/2012/08	2019-10-23	Mid-Flood	IS(Mf)9	Fine	Moderate	14:28	4.2	Bottom	3	2	26.8	8.2	30.4	6.1	16.6	12.8
TMCLKL	HY/2012/08	2019-10-23	Mid-Flood	IS(Mf)11	Fine	Moderate	15:11	10.9	Surface	1	1	26.7	8.2	29.7	6.2	9.1	10
TMCLKL	HY/2012/08	2019-10-23	Mid-Flood	IS(Mf)11	Fine	Moderate	15:11	10.9	Surface	1	2	26.7	8.2	29.7	6.2	9.1	10.8
TMCLKL	HY/2012/08	2019-10-23	Mid-Flood	IS(Mf)11	Fine	Moderate	15:11	10.9	Middle	2	1	26.7	8.2	29.7	6.2	11.5	12.8
TMCLKL	HY/2012/08	2019-10-23	Mid-Flood	IS(Mf)11	Fine	Moderate	15:11	10.9	Middle	2	2	26.7	8.2	29.7	6.2	11.5	13.1
TMCLKL	HY/2012/08	2019-10-23	Mid-Flood	IS(Mf)11	Fine	Moderate	15:11	10.9	Bottom	3	1	26.7	8.2	29.8	6.2	12.2	12.7
TMCLKL	HY/2012/08	2019-10-23	Mid-Flood	IS(Mf)11	Fine	Moderate		10.9	Bottom	3	2	26.7	8.2	29.8	6.2	12.1	12.4
TMCLKL	HY/2012/08	2019-10-23	Mid-Flood	SR7	Fine	Moderate		4.2	Surface	1	1	26.8	8.2	29.8	6.2	5.8	9.5
	HY/2012/08	2019-10-23	Mid-Flood	SR7	Fine	Moderate		4.2	Surface	1	2	26.8	8.2	29.8	6.2	5.8	9.9
	HY/2012/08	2019-10-23	Mid-Flood	SR7	Fine	Moderate		4.2	Middle	2	1						
	HY/2012/08	2019-10-23	Mid-Flood	SR7	Fine	Moderate	16:06	4.2	Middle	2	2						
	HY/2012/08	2019-10-23	Mid-Flood	SR7	Fine	Moderate	16:06	4.2	Bottom	3	1	26.7	8.2	30	6.1	8.2	9.8
	HY/2012/08	2019-10-23	Mid-Flood	SR7	Fine	Moderate	16:06	4.2	Bottom	3	2	26.7	8.2	30	6.1	8.2	10.3
	HY/2012/08	2019-10-23	Mid-Flood	IS17	Fine	Moderate	15:05	10.5	Surface	1	1	26.5	8.2	29.8	6.1	5	8.4
	HY/2012/08	2019-10-23	Mid-Flood	IS17	Fine	Moderate	15:05	10.5	Surface	1	2	26.5	8.2	29.8	6.1	5	8.2
TMCLKL	HY/2012/08	2019-10-23	Mid-Flood	IS17	Fine	Moderate	15:05	10.5	Middle	2	1	26.6	8.2	30.2	5.8	7.7	8.1
	HY/2012/08	2019-10-23	Mid-Flood	IS17	Fine	Moderate	15:05	10.5	Middle	2	2	26.6	8.2	30.2	5.8	7.7	8
	HY/2012/08	2019-10-23	Mid-Flood	IS17	Fine	Moderate	15:05	10.5	Bottom	3	1	26.6	8.2	30.2	5.8	7.4	8
	HY/2012/08	2019-10-23	Mid-Flood	IS17	Fine	Moderate	15:05	10.5	Bottom	3	2	26.7	8.2	30.3	5.7	7.3	7.9
	HY/2012/08	2019-10-25	Mid-Ebb	CS(Mf)5	Cloudy	Moderate	09:31	12.3	Surface	1	11	27.3	8.2	30.2	5.9	3	6.3
	HY/2012/08	2019-10-25	Mid-Ebb	CS(Mf)5	Cloudy	Moderate	09:31	12.3	Surface	1	2	27.4	8	29.2	5.9	3.1	5.8
	HY/2012/08	2019-10-25	Mid-Ebb	CS(Mf)5	Cloudy	Moderate	09:31	12.3	Middle	2	1	27.7	8.1	31.8	5.4	4.2	7.4
	HY/2012/08	2019-10-25	Mid-Ebb	CS(Mf)5	Cloudy	Moderate	09:31	12.3	Middle	2	2	27.8	8	30.8	5.3	4.3	7.1
	HY/2012/08	2019-10-25	Mid-Ebb	CS(Mf)5	Cloudy	Moderate	09:31	12.3	Bottom	3	1	27.8	8.1	32.3	5.4	5.7	8.6
	HY/2012/08	2019-10-25	Mid-Ebb	CS(Mf)5	Cloudy	Moderate	09:31	12.3	Bottom	3	2	27.8	8	31.3	5.3	6.2	9.5
	HY/2012/08	2019-10-25	Mid-Ebb	CS(Mf)3(N)	Cloudy	Moderate	10:35	7.7	Surface	1	1	27.7	8.2	28.7	6.3	4.1	6.6
	HY/2012/08	2019-10-25	Mid-Ebb	CS(Mf)3(N)	Cloudy	Moderate	10:35	1./	Surface	1	2	27.7	8.1	27.8	6.2	4.3	6.5
	HY/2012/08	2019-10-25	Mid-Ebb	CS(Mf)3(N)	Cloudy	Moderate	+	7.7	Middle	2	1	27.6	8.2	29.3	6	6.8	7.7
	HY/2012/08	2019-10-25	Mid-Ebb	CS(Mf)3(N)	Cloudy	Moderate	10:35	1./	Middle	2	2	27.6	8.1	28.3	5.9	6.3	7.9
	HY/2012/08	2019-10-25	Mid-Ebb	CS(Mf)3(N)	Cloudy	Moderate	+	7.7	Bottom	3	11	27.4	8.2	30.2	5.9	12	10.4
	HY/2012/08	2019-10-25	Mid-Ebb	CS(Mf)3(N)	Cloudy	Moderate		7.7	Bottom	3	2	27.5	8.1	29.2	5.8	12	9.8
	HY/2012/08	2019-10-25	Mid-Ebb	IS(Mf)16	Cloudy	Moderate		5.9	Surface	1	11	27.4	8.2	29.9	6.2	6.6	10.5
	HY/2012/08	2019-10-25	Mid-Ebb	IS(Mf)16	Cloudy	Moderate		5.9	Surface	1	2	27.5	8.1	29	6.1	7.4	11.1
	HY/2012/08	2019-10-25	Mid-Ebb	IS(Mf)16	Cloudy	Moderate		5.9	Middle	2	1	1	+	-			+
	HY/2012/08		Mid-Ebb		Cloudy	•	11:15		Middle	2	4	07.4	100	20	6.0	0.4	14.0
	HY/2012/08	2019-10-25	Mid-Ebb	IS(Mf)16	Cloudy	Moderate	11:15		Bottom	3	17	27.4	8.2	30	6.2	8.1	14.6
LIMICLKL	HY/2012/08	2019-10-25	Mid-Ebb	IS(Mf)16	Cloudy	Moderate	11:15	լ5.9	Bottom	3	2	27.5	8.1	29	6.1	9.1	15

Project	Contract	Date	Tide	Stat	Weather	Sea Condition	Time	Water Depth	Level	Lev_Cod	Replicate	Temp(°C)	рН	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
TMCLKL	HY/2012/08	2019-10-25	Mid-Ebb	SR4a	Cloudy	Moderate	11:24	4.8	Surface	1	1	27.2	8.2	29.7	6.1	3.8	6.9
TMCLKL	HY/2012/08	2019-10-25	Mid-Ebb	SR4a	Cloudy	Moderate	_	4.8	Surface	1	2	27.4	8.1	28.7	6	3.5	6.6
TMCLKL	HY/2012/08	2019-10-25	Mid-Ebb	SR4a	Cloudy	Moderate		4.8	Middle	2	1						
TMCLKL	HY/2012/08	2019-10-25	Mid-Ebb	SR4a	Cloudy	Moderate		4.8	Middle	2	2						
TMCLKL	HY/2012/08	2019-10-25	Mid-Ebb	SR4a	Cloudy	Moderate	11:24	4.8	Bottom	3	1	27.1	8.1	29.9	5.7	5.5	7.4
TMCLKL	HY/2012/08	2019-10-25	Mid-Ebb	SR4a	Cloudy	Moderate	11:24	4.8	Bottom	3	2	27.5	8.1	29	5.6	5.8	7.9
TMCLKL	HY/2012/08	2019-10-25	Mid-Ebb	SR4(N2)	Cloudy	Calm	11:29	3.5	Surface	1	1	27.4	8.2	29.7	6.1	6.9	8.5
TMCLKL	HY/2012/08	2019-10-25	Mid-Ebb	SR4(N2)	Cloudy	Calm	11:29	3.5	Surface	1	2	27.5	8.1	28.7	6	7.2	8.6
TMCLKL	HY/2012/08	2019-10-25	Mid-Ebb	SR4(N2)	Cloudy	Calm	11:29	3.5	Middle	2	1						
TMCLKL	HY/2012/08	2019-10-25	Mid-Ebb	SR4(N2)	Cloudy	Calm	11:29	3.5	Middle	2	2						
TMCLKL	HY/2012/08	2019-10-25	Mid-Ebb	SR4(N2)	Cloudy	Calm	11:29	3.5	Bottom	3	1	27.4	8.2	29.7	6.1	7.2	9.8
TMCLKL	HY/2012/08	2019-10-25	Mid-Ebb	SR4(N2)	Cloudy	Calm	11:29	3.5	Bottom	3	2	27.5	8.1	28.7	6	7.8	10
TMCLKL	HY/2012/08	2019-10-25	Mid-Ebb	IS8(N)	Cloudy	Calm	11:35	3.9	Surface	1	1	27.4	8.2	29.7	6.2	5.5	8.8
TMCLKL	HY/2012/08	2019-10-25	Mid-Ebb	IS8(N)	Cloudy	Calm	11:35	3.9	Surface	1	2	27.5	8.1	28.8	6.1	5.7	9.3
TMCLKL	HY/2012/08	2019-10-25	Mid-Ebb	IS8(N)	Cloudy	Calm		3.9	Middle	2	1						
TMCLKL	HY/2012/08	2019-10-25	Mid-Ebb	IS8(N)	Cloudy	Calm		3.9	Middle	2	2						
TMCLKL	HY/2012/08	2019-10-25	Mid-Ebb	IS8(N)	Cloudy	Calm		3.9	Bottom	3	1	27.4	8.2	29.8	6.2	6	11.2
TMCLKL	HY/2012/08	2019-10-25	Mid-Ebb	IS8(N)	Cloudy	Calm		3.9	Bottom	3	2	27.5	8.2	28.8	6.1	6.2	10.8
TMCLKL	HY/2012/08	2019-10-25	Mid-Ebb	IS(Mf)9	Cloudy	Calm		3.2	Surface	1	1	27.6	8.2	29.9	6.1	7.6	12.5
TMCLKL	HY/2012/08	2019-10-25	Mid-Ebb	IS(Mf)9	Cloudy	Calm		3.2	Surface	1	2	27.7	8.1	29	6.1	7.8	12.1
TMCLKL	HY/2012/08	2019-10-25	Mid-Ebb	IS(Mf)9	Cloudy	Calm		3.2	Middle	2	1						
TMCLKL	HY/2012/08	2019-10-25	Mid-Ebb	IS(Mf)9	Cloudy	Calm		3.2	Middle	2	2						
TMCLKL	HY/2012/08	2019-10-25	Mid-Ebb	IS(Mf)9	Cloudy	Calm		3.2	Bottom	3	1	27.5	8.2	29.9	6.1	7.6	16.8
TMCLKL	HY/2012/08	2019-10-25	Mid-Ebb	IS(Mf)9	Cloudy	Calm		3.2	Bottom	3	2	27.6	8.1	29	6.1	8	16.4
TMCLKL	HY/2012/08	2019-10-25	Mid-Ebb	IS(Mf)11	Cloudy	Moderate		11.7	Surface	1	1	27.7	8.2	29.2	6.2	5.1	10.1
TMCLKL	HY/2012/08	2019-10-25	Mid-Ebb	IS(Mf)11	Cloudy	Moderate	10:59	11.7	Surface	1	2	27.7	8.1	28.3	6.2	5.5	10.7
TMCLKL	HY/2012/08	2019-10-25	Mid-Ebb	IS(Mf)11	Cloudy	Moderate	10:59	11.7	Middle	2	1	27.5	8.2	29.5	6	5.7	10.5
TMCLKL	HY/2012/08	2019-10-25	Mid-Ebb	IS(Mf)11	Cloudy	Moderate	10:59	11.7	Middle	2	2	27.5	8.1	28.6	5.9	6	11.1
TMCLKL	HY/2012/08	2019-10-25	Mid-Ebb	IS(Mf)11	Cloudy	Moderate	10:59	11.7	Bottom	3	1	27.4	8.2	29.5	6	7.7	10.5
TMCLKL	HY/2012/08	2019-10-25	Mid-Ebb	IS(Mf)11	Cloudy	Moderate	10:59	11.7	Bottom	3	2	27.5	8.1	28.6	6	7.4	10.4
TMCLKL	HY/2012/08	2019-10-25	Mid-Ebb	SR7	Cloudy	Moderate	_	4.7	Surface	1	1	27.5	8.2	30.2	5.9	4.9	7.4
TMCLKL	HY/2012/08	2019-10-25	Mid-Ebb	SR7	Cloudy	Moderate		4.7	Surface	1	2	27.6	8.1	29.3	5.8	5.1	7.7
TMCLKL	HY/2012/08	2019-10-25	Mid-Ebb	SR7	Cloudy	Moderate		4.7	Middle	2	1						
TMCLKL	HY/2012/08	2019-10-25	Mid-Ebb	SR7	Cloudy	Moderate		4.7	Middle	2	2	07.0	0.4	00.0	5.0	0.0	0.4
TMCLKL	HY/2012/08	2019-10-25	Mid-Ebb	SR7	Cloudy	Moderate	09:59	4.7	Bottom	3	1	27.6	8.1	30.6	5.9	6.9	9.1
TMCLKL	HY/2012/08	2019-10-25	Mid-Ebb	SR7	Cloudy	Moderate		4.7	Bottom	3	2	27.6	8.1	29.6	5.8	7.4	9.5
TMCLKL	HY/2012/08	2019-10-25	Mid-Ebb	IS17	Cloudy	Moderate		7.9	Surface	1	1	27.5	8.2	30	6	5.5	9.9
TMCLKL	HY/2012/08	2019-10-25	Mid-Ebb	IS17	Cloudy	Moderate		7.9	Surface	1	2	27.6	8.1	29	5.9	5.9	9
TMCLKL	HY/2012/08	2019-10-25	Mid-Ebb	IS17	Cloudy	Moderate		7.9	Middle	2	1	27.5	8.2	30	6	5.6	10.3
TMCLKL	HY/2012/08	2019-10-25	Mid-Ebb	IS17	Cloudy	Moderate		7.9	Middle	2	2	27.6	8.1	29	5.9	5.0	9.4
TMCLKL	HY/2012/08	2019-10-25	Mid-Ebb	IS17	Cloudy	Moderate		7.9	Bottom	3	1	27.5	8.2	30.1	6	5.8	11.9
TMCLKL	HY/2012/08	2019-10-25	Mid-Ebb	IS17	Cloudy	Moderate		7.9	Bottom	3	4	27.6	8.1	29.2	5.9	6.4	11.2
TMCLKL	HY/2012/08	2019-10-25	Mid-Flood	CS(Mf)5	Cloudy	Moderate	17:43	12.3	Surface	1	12	27.8 27.7	8.1	29.6	5.7	3.2	11.3 11.7
TMCLKL TMCLKL	HY/2012/08 HY/2012/08	2019-10-25 2019-10-25	Mid-Flood Mid-Flood	CS(Mf)5 CS(Mf)5	Cloudy Cloudy	Moderate Moderate	17:43 17:43	12.3 12.3	Surface Middle	12	1	27.8	8.1 8.1	30.6	5.8	4 F	10.1
TMCLKL	HY/2012/08			` '			17:43			2	2	27.7	8.1	31.3	5.5	4.8	10.1
TMCLKL	HY/2012/08	2019-10-25 2019-10-25	Mid-Flood Mid-Flood	CS(Mf)5 CS(Mf)5	Cloudy Cloudy	Moderate Moderate	17:43	12.3 12.3	Middle Bottom	3	1	27.8	8.1	30.4	5.6 5.7	14.1	N
TMCLKL	HY/2012/08	2019-10-25	Mid-Flood	CS(Mf)5	Cloudy	Moderate	17:43	12.3	Bottom	3	2	27.7	8.1	31.4	5.8	13.9	7.3
TMCLKL	HY/2012/08	2019-10-25	Mid-Flood	CS(Mf)3(N)	Cloudy	Moderate	16:44	7	Surface	1	1	27.8	8.1	28.8	6.1	9.8	15.5
TMCLKL	HY/2012/08	2019-10-25	Mid-Flood		Cloudy	Moderate	16:44	7	Surface	11	2	27.7	8.2	29.8	6.2	9.8	16.3
TMCLKL	HY/2012/08	2019-10-25	Mid-Flood	CS(Mf)3(N)	Cloudy	Moderate	16:44	7	Middle	2	1	27.8	8.1	28.8	6.1	11.2	20.6
TMCLKL	HY/2012/08	2019-10-25	Mid-Flood		Cloudy	Moderate	16:44	7	Middle	2	2	27.7	8.2	29.8	6.2	11.4	20.6
TMCLKL	HY/2012/08	2019-10-25	Mid-Flood		Cloudy	Moderate	16:44	7	Bottom	3	1	27.8	8.1	28.8	6.2	12.4	21.9
TMCLKL	HY/2012/08	2019-10-25	Mid-Flood		Cloudy	Moderate	16:44	7	Bottom	3	2	27.7	8.2	29.8	6.2	12.4	21
TMCLKL	HY/2012/08	2019-10-25	Mid-Flood	IS(Mf)16	Cloudy	Moderate		5.4	Surface	1	1	27.9	8.1	29.1	6	9.7	15.1
TMCLKL	HY/2012/08	2019-10-25	Mid-Flood	IS(Mf)16	Cloudy	Moderate		5.4	Surface	1	2	27.8	8.2	30.1	6.1	9.7	14.8
TMCLKL	HY/2012/08	2019-10-25	Mid-Flood	IS(Mf)16	Cloudy	Moderate		5.4	Middle	2	1	27.0	15.2	100.1			1. 7.0
TMCLKL	HY/2012/08	2019-10-25	Mid-Flood	IS(Mf)16	Cloudy	Moderate	_	5.4	Middle	2	2		+				
	HY/2012/08		Mid-Flood		Cloudy	Moderate	16:07		Bottom	3	1	27.9	8.1	29.2	6	13.7	16.2
🔾 🗀 🖊		2019-10-25	Mid-Flood		Cloudy	Moderate		5.4	Bottom		2	27.8		30.2	6.1	13.3	15.7
TMCLKL	HY/2012/08	120119-10-25	11011(1-1 1(1(1))	1153(10111111					113():::::::::::::::::::::::::::::::::::								

Project	Contract	Date	Tide	Stat	Weather	Sea	Time	Water	Level	Lev_Cod	Replicate	Temp(°C)	рН	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
Froject	Contract	Date	Tide			Condition	Tille	Depth	LEVEI	Lev_Cou	Replicate		рп	Samily(ppt)	DO(IIIg/L)	Turbidity(NTO)	33(IIIg/L)
TMCLKL	HY/2012/08	2019-10-25	Mid-Flood	SR4a	Cloudy	Calm	15:56	4.3	Surface	1	2	27.7	8.2	30	5.9	8	11
TMCLKL	HY/2012/08	2019-10-25	Mid-Flood	SR4a	Cloudy	Calm		4.3	Middle	2	1						
TMCLKL	HY/2012/08	2019-10-25	Mid-Flood	SR4a	Cloudy	Calm		4.3	Middle	2	2						
TMCLKL	HY/2012/08	2019-10-25	Mid-Flood	SR4a	Cloudy	Calm	15:56	4.3	Bottom	3	1	27.8	8.1	29.2	5.8	11	10.2
TMCLKL	HY/2012/08	2019-10-25	Mid-Flood	SR4a	Cloudy	Calm		4.3	Bottom	3	2	27.7	8.2	30.2	6	11.8	10.4
TMCLKL	HY/2012/08	2019-10-25	Mid-Flood	SR4(N2)	Cloudy	Calm	15:53	3.5	Surface	1	1	27.8	8.1	28.7	6.3	4.1	11.2
TMCLKL	HY/2012/08	2019-10-25	Mid-Flood	SR4(N2)	Cloudy	Calm		3.5	Surface	1	2	27.2	8.2	29.6	6.4	4.5	11.8
TMCLKL	HY/2012/08	2019-10-25	Mid-Flood	SR4(N2)	Cloudy	Calm	15:53	3.5	Middle	2	1		ļ				
TMCLKL	HY/2012/08	2019-10-25	Mid-Flood	SR4(N2)	Cloudy	Calm		3.5	Middle	2	2	ļ	ļ.,			1	
TMCLKL	HY/2012/08	2019-10-25	Mid-Flood	SR4(N2)	Cloudy	Calm		3.5	Bottom	3	1	27.7	8.1	28.7	6.3	4.5	10.2
TMCLKL	HY/2012/08	2019-10-25	Mid-Flood	SR4(N2)	Cloudy	Calm		3.5	Bottom	3	2	27.3	8.2	29.6	6.4	4.8	9.6
TMCLKL	HY/2012/08	2019-10-25	Mid-Flood	IS8(N)	Cloudy	Calm		3.4	Surface	1	1	27.9	8.1	29.1	6	9.2	14.8
TMCLKL	HY/2012/08	2019-10-25	Mid-Flood	IS8(N)	Cloudy	Calm		3.4	Surface	1	2	27.8	8.2	30	6.1	9.3	14.1
TMCLKL	HY/2012/08	2019-10-25	Mid-Flood	IS8(N)	Cloudy	Calm		3.4	Middle	2	1						
TMCLKL	HY/2012/08	2019-10-25	Mid-Flood	IS8(N)	Cloudy	Calm		3.4	Middle	2	2	10-0				1110	1.2
TMCLKL	HY/2012/08	2019-10-25	Mid-Flood	IS8(N)	Cloudy	Calm		3.4	Bottom	3	11	27.9	8.1	29.2	6	11.9	12
TMCLKL	HY/2012/08	2019-10-25	Mid-Flood	IS8(N)	Cloudy	Calm		3.4	Bottom	3	2	27.8	8.2	30.2	6.1	11.6	11.3
TMCLKL	HY/2012/08	2019-10-25	Mid-Flood	IS(Mf)9	Cloudy	Calm		3.1	Surface	1	17	27.8	8.1	29.1	6.1	9.3	19
TMCLKL	HY/2012/08	2019-10-25	Mid-Flood	IS(Mf)9	Cloudy	Calm		3.1	Surface	1	2	27.7	8.2	30.1	6.2	10	20.1
TMCLKL	HY/2012/08	2019-10-25	Mid-Flood	IS(Mf)9	Cloudy	Calm		3.1	Middle	2	17	1	1			1	
TMCLKL	HY/2012/08	2019-10-25	Mid-Flood	IS(Mf)9	Cloudy	Calm		3.1	Middle	2	2					1.0	
TMCLKL	HY/2012/08	2019-10-25	Mid-Flood	IS(Mf)9	Cloudy	Calm	_	3.1	Bottom	3	1	27.8	8.1	29.1	6	18	21.8
TMCLKL	HY/2012/08	2019-10-25	Mid-Flood	IS(Mf)9	Cloudy	Calm		3.1	Bottom	3	2	27.7	8.2	30.1	6.2	18	21
TMCLKL	HY/2012/08	2019-10-25	Mid-Flood	IS(Mf)11	Cloudy	Moderate	16:19	11.6	Surface	1	1	27.8	8.1	28.2	6.3	11.8	13.4
TMCLKL	HY/2012/08	2019-10-25	Mid-Flood	IS(Mf)11	Cloudy	Moderate		11.6	Surface	1	2	27.1	8.2	29.1	6.4	11.7	13.7
TMCLKL	HY/2012/08	2019-10-25	Mid-Flood	IS(Mf)11	Cloudy	Moderate		11.6	Middle	2	1	27.8	8.1	28.2	6.3	11.2	13.2
TMCLKL	HY/2012/08	2019-10-25	Mid-Flood	IS(Mf)11	Cloudy	Moderate	16:19	11.6	Middle	2	2	27.3	8.2	29.1	6.4	12	13.3
TMCLKL	HY/2012/08	2019-10-25	Mid-Flood	IS(Mf)11	Cloudy	Moderate	16:19	11.6	Bottom	3	1	27.8	8.1	28.1	6.3	11.1	14.6
TMCLKL	HY/2012/08	2019-10-25	Mid-Flood	IS(Mf)11	Cloudy	Moderate	16:19	11.6	Bottom	3	2	27.2	8.2	29.1	6.4	11.2	14
TMCLKL	HY/2012/08	2019-10-25	Mid-Flood	SR7	Cloudy	Moderate	17:19	4.6	Surface	1	1	27.8	8.1	28.8	6	14.3	18.3
TMCLKL	HY/2012/08	2019-10-25	Mid-Flood	SR7	Cloudy	Moderate	17:19	4.6	Surface	1	2	27.7	8.2	29.7	6.1	14.5	18.3
TMCLKL	HY/2012/08	2019-10-25	Mid-Flood	SR7	Cloudy	Moderate	17:19	4.6	Middle	2	1	+					
TMCLKL	HY/2012/08	2019-10-25	Mid-Flood	SR7	Cloudy	Moderate		4.6	Middle	2	2	07.0	0.4	20.0		47.0	10.4
TMCLKL	HY/2012/08	2019-10-25	Mid-Flood	SR7	Cloudy	Moderate		4.6	Bottom	3	1	27.8	8.1	28.8	6	17.8	19.1
TMCLKL	HY/2012/08 HY/2012/08	2019-10-25	Mid-Flood	SR7 IS17	Cloudy	Moderate		4.6	Bottom	3	4	27.7	8.2	29.7	6.2	17.9	19.5 11.1
TMCLKL		2019-10-25 2019-10-25	Mid-Flood	IS17	Cloudy	Moderate		7.6	Surface	1	12	27.8 27.7	8.1	28.8	6 1	6.3	10.8
TMCLKL	HY/2012/08		Mid-Flood	IS17	Cloudy Cloudy	Moderate		7.6	Surface Middle	2	1	27.7	8.1	29.8	6.1	6.8	10.8
TMCLKL	HY/2012/08	2019-10-25	Mid-Flood			Moderate		7.6 7.6	Middle	2	12	27.7	8.2	29 29.9	6	9	11.5
TMCLKL TMCLKL	HY/2012/08 HY/2012/08	2019-10-25	Mid-Flood Mid-Flood	IS17 IS17	Cloudy Cloudy	Moderate		7.6		2	1	27.8	8.1		6	8.7	_
		2019-10-25		IS17	Cloudy	Moderate			Bottom	3	12	27.7	8.2	29	6	9.5	9.7
TMCLKL TMCLKL	HY/2012/08 HY/2012/08	2019-10-25 2019-10-28	Mid-Flood Mid-Ebb	CS(Mf)5	Cloudy	Moderate Calm	13:26	7.6 12.7	Bottom Surface	1	1	27.6	8.2	30.1	5.6	9.9	9.5 25.4
TMCLKL	HY/2012/08	2019-10-28	Mid-Ebb	CS(Mf)5	Cloudy	Calm	13:26	12.7	Surface	11	2	27.6	8.2	29.9	5.6	12.1	26
TMCLKL	HY/2012/08	2019-10-28	Mid-Ebb	CS(Mf)5	Cloudy	Calm	13:26	12.7	Middle	2	1	27.6	8.2	30.1	5.6	11.2	25
TMCLKL	HY/2012/08	2019-10-28	Mid-Ebb	CS(Mf)5	Cloudy	Calm	13:26	12.7	Middle	2	2	27.6	8.2	29.9	5.6	11.2	25.6
TMCLKL	HY/2012/08	2019-10-28	Mid-Ebb	CS(Mf)5	Cloudy	Calm	13:26	12.7	Bottom	3	1	27.6	8.3	30.1	5.6	16	27.6
TMCLKL	HY/2012/08	2019-10-28	Mid-Ebb	CS(Mf)5	Cloudy	Calm	13:26	12.7	Bottom	3	2	27.6	8.3	29.9	5.6	16.1	27.1
TMCLKL	HY/2012/08	2019-10-28	Mid-Ebb		Cloudy	Moderate		7.5	Surface	1	1	27.5	8.2	29.5	5.8	9.6	15
TMCLKL	HY/2012/08	2019-10-28	Mid-Ebb		Cloudy	Moderate		7.5	Surface	1	2	27.5	8.2	29.3	5.8	9.4	14.6
TMCLKL	HY/2012/08	2019-10-28	Mid-Ebb		Cloudy	Moderate		7.5	Middle	2	1	27.5	8.3	29.7	5.9	11.7	14.5
TMCLKL	HY/2012/08	2019-10-28	Mid-Ebb		Cloudy	Moderate		7.5	Middle	2	2	27.5	8.3	29.7	5.8	11.6	14.1
TMCLKL	HY/2012/08	2019-10-28	Mid-Ebb	CS(Mf)3(N)	Cloudy	Moderate	12:40	7.5	Bottom	3	1	27.4	8.3	30	5.9	14.2	12.8
TMCLKL	HY/2012/08	2019-10-28	Mid-Ebb		Cloudy	Moderate	12:40	7.5	Bottom	3	2	27.4	8.3	29.9	5.9	14.6	12.4
TMCLKL	HY/2012/08	2019-10-28	Mid-Ebb	IS(Mf)16	Cloudy	Calm		5.8	Surface	1	1	27.6	8.2	29.7	5.7	12.8	13.3
TMCLKL	HY/2012/08	2019-10-28	Mid-Ebb	'	Cloudy	Calm		5.8	Surface	1	2	27.6	8.2	29.6	5.7	12.8	13.7
TMCLKL	HY/2012/08	2019-10-28	Mid-Ebb	IS(Mf)16	Cloudy	Calm		5.8	Middle	2	1	21.0	0.2	23.0	J.1	12.0	13.7
TMCLKL	HY/2012/08	2019-10-28	Mid-Ebb	IS(Mf)16	Cloudy	Calm		5.8	Middle	2	2	+	1	 		+	+
TMCLKL	HY/2012/08	2019-10-28	Mid-Ebb	IS(Mf)16	Cloudy	Calm	11:45	5.8	Bottom	3	1	27.5	8.2	30	5.6	18	17.2
	HY/2012/08	2019-10-28	Mid-Ebb	 	Cloudy	Calm		5.8	Bottom	3	2	27.5		29.9	5.6	17.9	18
TMCLKL	HY/2012/08	2019-10-28	Mid-Ebb	SR4a	Cloudy	Calm		4.5	Surface	1	1	27.6	•	29.7	5.7	5.4	5.9
	HY/2012/08	2019-10-28	Mid-Ebb		Cloudy	Calm		4.5	Surface	1	2	27.6		29.6	5.7	5.2	5.3
LIVIOLNL	111/2012/00	2013-10 - 20	IMIN-FDD	JUIN4a	Joiouuy	Oallii	111.04	ل . ب	Journace	<u>L'</u>	14	121.0	၂၀.၁	L3.U	JJ.1	ال.ح	

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FMCKLK HY201208 2019-10-28 Mol-Ebb SR448 Cloudy Calm 11:34 4.5 Moletle 2 2 5 5 8.8 TMCKK HY201208 2019-10-28 Mol-Ebb SR448 Cloudy Calm 11:34 4.5 Botton 3 2 27.5 8.3 29.7 5.9 8.8 TMCKK HY201208 2019-10-28 Mol-Ebb SR448 Cloudy Calm 11:28 4.5 Botton 3 2 27.4 8.3 29.7 6.6 6.1 1.5 Cloudy Calm TMCKK HY201208 2019-10-28 Mol-Ebb SR4482 Cloudy Calm TMCKK HY201208 Cloud	oidity(NTU) SS(mg/L)	Turbidity(NT	DO(mg/L)	Salinity(ppt)	рН	Temp(°C)	Replicate	Lev_Cod	Level	1	Time		Weather	Stat	Tide	Date	Contract	Project
TMCLIK HV201208 2019-10-28 Mol-Ebb SR44 Cloudy Calm 11:34 4.5 Bottom 3 1 27.5 8.3 20.7 5.9 6.8 F.					1		1	2	Middle	 	11:34	Calm	Cloudy	SR4a	Mid-Ebb	2019-10-28	HY/2012/08	TMCLKL
TMCKIK HY201208 2019-10-28 Msd-Ebb SR4 N2 Cloudy Calm 11:34 4.5 Bottom 3 2 27.5 8.3 29.8 5.8 6.7 TMCKIK HY201208 2019-10-28 Msd-Ebb SR4 N2 Cloudy Calm 11:28 4.2 Surface 1 2 27.4 8.3 22.7 5.6 8.1 TMCKIK HY201208 2019-10-28 Msd-Ebb SR4 N2 Cloudy Calm 11:28 4.2 Surface 1 2 27.4 8.3 22.7 5.6 8.1 TMCKIK HY201208 2019-10-28 Msd-Ebb SR4 N2 Cloudy Calm 11:28 4.2 Msddel 2 1							2	2	Middle	4.5	11:34	Calm	Cloudy	SR4a	Mid-Ebb	2019-10-28	HY/2012/08	TMCLKL
TMCLICH HY201208 2019-10-28 MeEBD SR4[N2] Cloudy Calm 11.28 4.2 Surface 1 27.4 8.3 29.7 5.6 8.1	6.8	6.8	5.9	29.7	8.3	27.5	1	3	Bottom	4.5	11:34	Calm	Cloudy	SR4a	Mid-Ebb	2019-10-28	HY/2012/08	TMCLKL
FMCILK HY201208 2019-10-28 Md-Ebb SR4(N2) Cloudy Calm 11.28 4.2 Middle 2 1	6.2						2	3									<u> </u>	
TMCLKL HY201208 2019-10-28 Mid-Ebb SR4(N2) Cloudy Calm 11-28 4.2 Middle 2 2 TMCKK HY201208 2019-10-28 Mid-Ebb SR4(N2) Cloudy Calm 11-28 4.2 Middle 2 2 TMCKK HY201208 2019-10-28 Mid-Ebb SR4(N2) Cloudy Calm 11-28 4.2 Slottom 3 2 27.4 8.3 29.7 5.8 8.5 TMCKK HY201208 2019-10-28 Mid-Ebb SR4(N2) Cloudy Calm 11-28 4.2 Slottom 3 2 27.4 8.3 29.5 5.7 8.4 SR4(N2) Cloudy Calm 11-28 4.2 Slottom 3 2 27.4 8.3 29.5 5.7 8.4 SR4(N2) Cloudy Calm 11-21 3.9 Surface 1 1 27.5 8.4 29.5 5.8 8.6 SR4(N2) Cloudy Calm 11-21 3.9 Surface 1 27.5 8.4 29.4 5.8 8.6 SR4(N2) Cloudy Calm 11-21 3.9 Surface 1 2 27.5 8.4 29.4 5.8 8.6 SR4(N2) Cloudy Calm 11-21 3.9 Surface 1 2 2 27.5 8.4 29.5 5.8 8.6 SR4(N2) Cloudy Calm 11-21 3.9 Surface 1 2 2 27.5 8.4 29.5 5.8 8.6 SR4(N2) Cloudy Calm SR4(N2) Cloudy Calm	9	8.1					1	1		+				` '		_	<u> </u>	
TMCLICA HY2012/08 2019-10-28 Mid-Ebb SR4(N2) Cloudy Calm 11:28 4.2 Bottom 3.1 27.4 8.3 29.7 5.8 8.5 TMCLICA HY2012/08 2019-10-28 Mid-Ebb SR4(N2) Cloudy Calm 11:28 4.2 Bottom 3.1 27.4 8.3 29.5 5.7 8.4 29.5 5.8 8.5 TMCLICA HY2012/08 2019-10-28 Mid-Ebb SR4(N2) Cloudy Calm 11:28 4.2 Bottom 3.1 27.4 8.3 29.5 5.7 8.4 29.5 5.8 8.5 TMCLICA HY2012/08 2019-10-28 Mid-Ebb SR(N) Cloudy Calm 11:21 3.9 Surface 1 1 27.5 8.4 29.4 6.8 8.4 MID-LEVEL M	9.7	8	5.6	29.5	8.3	27.4	2	1		+				` '	+	_		
FMCLICA HY2012008 2019-10-28 Mid-Ebb SR4 N2 Cloudy Calm 11-28 4.2 Bottom 3 2 27.4 8.3 29.7 5.8 8.5 TMCICA HY2012008 2019-10-28 Mid-Ebb SR4 N2 Cloudy Calm 11-28 4.2 Bottom 3 2 27.4 8.3 29.5 5.7 8.4 TMCICA HY2012008 2019-10-28 Mid-Ebb SR4 N Cloudy Calm 11-28 4.2 Bottom 3 2 27.5 8.4 29.5 5.8 8.6 Mid-Ebb SR4 N Cloudy Calm 11-21 3.9 Surface 1 2 2.75 8.4 29.5 5.8 8.6 Mid-Ebb SR4 N Cloudy Calm 11-21 3.9 Middle 2 2 27.5 8.4 29.5 5.8 8.6 Mid-Ebb SR4 N Cloudy Calm 11-21 3.9 Middle 2 2 27.5 8.4 29.5 5.8 8.6 Mid-Ebb SR4 N Cloudy Calm 11-21 3.9 Middle 2 2 2 2 2 2 2 2 2							1	2		+				\ /	+			
TMCLKL HY201208 2019-10-28 Mid-Ebb S8(N) Cloudy Calm 11-28 A2 Bottom 3 2 27.4 8.3 29.5 5.7 8.4 RMCKL HY201208 2019-10-28 Mid-Ebb S8(N) Cloudy Calm 11-21 3.9 Surface 1 27.5 8.4 29.4 5.8 8.6 TMCLKL HY201208 2019-10-28 Mid-Ebb S8(N) Cloudy Calm 11-21 3.9 Surface 1 27.5 8.4 29.4 5.8 8.4 TMCKLK HY201208 2019-10-28 Mid-Ebb S8(N) Cloudy Calm 11-21 3.9 Middle 2 1 TMCKLK HY201208 2019-10-28 Mid-Ebb S8(N) Cloudy Calm 11-21 3.9 Middle 2 2 TMCKLK HY201208 2019-10-28 Mid-Ebb S8(N) Cloudy Calm 11-21 3.9 Middle 2 2 TMCKLK HY201208 2019-10-28 Mid-Ebb S8(N) Cloudy Calm 11-21 3.9 Middle 2 2 TMCKLK HY201208 2019-10-28 Mid-Ebb S8(N) Cloudy Calm 11-21 3.9 Sottom 3 1 27.4 3.4 29.5 6 9.7 TMCKKL HY201208 2019-10-28 Mid-Ebb S8(N) Cloudy Calm 11-21 3.9 Sottom 3 2 27.4 8.4 29.5 6 9.7 TMCKKL HY201208 2019-10-28 Mid-Ebb S8(N) Cloudy Calm 11-16 3.4 Surface 1 27.5 8.4 29.5 5.8 6.5 5.5 Mid-Ebb S8(N) Cloudy Calm 11-16 3.4 Surface 1 27.5 8.4 29.5 5.8 6.5 5.5 Mid-Ebb S8(N) Cloudy Calm 11-16 3.4 Surface 1 27.5 8.4 29.5 5.8 6.5 5.5 Mid-Ebb S8(N) Cloudy Calm 11-16 3.4 Surface 1 27.5 8.4 29.5 5.8 6.5 5.5 Mid-Ebb S8(N) Cloudy Calm 11-16 3.4 Surface 1 27.5 8.4 29.5 5.8 6.5 5.5 Mid-Ebb S8(N) Cloudy Calm 11-16 3.4 Surface 1 27.5 8.4 29.5 5.8 6.5 5.5 5.5 6.4 5.5 5.5 5.5 6.4 5.5 5.5 5.5 5.5 6.4 5.5							2	2		+				` ′			 	
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TMCLKL HY/2012/08 2019-10-28 Mid-Ebb SR7 Cloudy Calm 11:53 8.2 Surface 1 1 27:5 8.2 29.9 5.6 12.1	10.4	10.7	6	29.4	8.3	27.6	1	3				_	_					
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TMCLKL HY/2012/08 2019-10-28 Mid-Flood CS(Mf)5 Cloudy Calm 06:15 12.6 Surface 1 1 27.5 8 29.7 5.7 6.7 TMCLKL HY/2012/08 2019-10-28 Mid-Flood CS(Mf)5 Cloudy Calm 06:15 12.6 Surface 1 2 27.5 8 29.6 5.7 6.8 TMCLKL HY/2012/08 2019-10-28 Mid-Flood CS(Mf)5 Cloudy Calm 06:15 12.6 Middle 2 1 27.5 8 29.6 5.7 6.8 TMCLKL HY/2012/08 2019-10-28 Mid-Flood CS(Mf)5 Cloudy Calm 06:15 12.6 Middle 2 2 27.5 8 29.9 5.5 8.8 TMCLKL HY/2012/08 2019-10-28 Mid-Flood CS(Mf)5 Cloudy Calm 06:15 12.6 Bottom 3 1 27.6 8 30.3 5.5 14.6 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>2</td> <td>3</td> <td></td> <td>+</td> <td></td> <td>_</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							2	3		+		_						
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TMCLKL HY/2012/08 2019-10-28 Mid-Flood CS(Mf)5 Cloudy Calm 06:15 12.6 Middle 2 1 27.5 8 30.1 5.5 9 TMCLKL HY/2012/08 2019-10-28 Mid-Flood CS(Mf)5 Cloudy Calm 06:15 12.6 Middle 2 2 27.5 8 29.9 5.5 8.8 TMCLKL HY/2012/08 2019-10-28 Mid-Flood CS(Mf)5 Cloudy Calm 06:15 12.6 Bottom 3 1 27.6 8 30.4 5.5 14.5 TMCLKL HY/2012/08 2019-10-28 Mid-Flood CS(Mf)5 Cloudy Calm 06:15 12.6 Bottom 3 2 27.6 8 30.3 5.5 14.6 TMCLKL HY/2012/08 2019-10-28 Mid-Flood CS(Mf)3(N) Cloudy Calm 07:07 7.2 Surface 1 1 27.3 8.1 29 6 12.6 <td>8.4</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>2</td> <td>1</td> <td></td> <td>+</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	8.4						2	1		+								
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TMCLKL HY/2012/08 2019-10-28 Mid-Flood CS(Mf)5 Cloudy Calm 06:15 12.6 Bottom 3 2 27.6 8 30.3 5.5 14.6 TMCLKL HY/2012/08 2019-10-28 Mid-Flood CS(Mf)3(N) Cloudy Calm 07:07 7.2 Surface 1 1 27.3 8.1 29 6 12.6	11	8.8		29.9	8	27.5	2	2		12.6	06:15	Calm			Mid-Flood	2019-10-28	HY/2012/08	
TMCLKL HY/2012/08 2019-10-28 Mid-Flood CS(Mf)3(N) Cloudy Calm 07:07 7.2 Surface 1 1 27.3 8.1 29 6 12.6		14.5	5.5	30.4	8	27.6	1	3	Bottom	12.6	06:15	Calm	Cloudy	CS(Mf)5	Mid-Flood	2019-10-28	HY/2012/08	TMCLKL
			5.5	30.3			2	3	Bottom	12.6			Cloudy		Mid-Flood		HY/2012/08	TMCLKL
TMCLKL HV/2012/08 2010-10-28 Mid-Flood CS/Mf\2/N) Cloudy Colm 107:07 7.2 Surface 14 12 12.2 14.20 14.20			6				1	1			_		 					
		12.8	6	28.8	8.1	27.3	2	1	Surface	7.2	_	Calm	Cloudy	-	Mid-Flood	2019-10-28	HY/2012/08	TMCLKL
TMCLKL HY/2012/08 2019-10-28 Mid-Flood CS(Mf)3(N) Cloudy Calm 07:07 7.2 Middle 2 1 27.3 8.1 29 6 14.3			6				1	2			_			\ / \ /				
TMCLKL HY/2012/08 2019-10-28 Mid-Flood CS(Mf)3(N) Cloudy Calm 07:07 7.2 Middle 2 2 27.3 8.1 28.8 6 14.5			6				2	2	+									
TMCLKL HY/2012/08 2019-10-28 Mid-Flood CS(Mf)3(N) Cloudy Calm 07:07 7.2 Bottom 3 1 27.4 8.1 29.1 6.1 16.7							1	3	+									
TMCLKL HY/2012/08 2019-10-28 Mid-Flood CS(Mf)3(N) Cloudy Calm 07:07 7.2 Bottom 3 2 27.4 8.1 29 6.1 16.3							2	3										
TMCLKL HY/2012/08 2019-10-28 Mid-Flood IS(Mf)16 Cloudy Calm 07:52 5.7 Surface 1 1 27.4 8.1 29.6 5.8 10.4		_				_	1	1					 	· · · ·				
TMCLKL HY/2012/08 2019-10-28 Mid-Flood IS(Mf)16 Cloudy Calm 07:52 5.7 Surface 1 2 27.4 8.1 29.5 5.8 10.3	11.3	10.3	5.8	29.5	8.1	27.4	2	1		+				· · · ·				
TMCLKL HY/2012/08 2019-10-28 Mid-Flood IS(Mf)16 Cloudy Calm 07:52 5.7 Middle 2 1				1			1	2	-		_							
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TMCLKL HY/2012/08 2019-10-28 Mid-Flood IS(Mf)16 Cloudy Calm 07:52 5.7 Bottom 3 1 27.4 8.1 29.6 6 12.6		_	6	+			1	3	1		_			· · · ·			<u> </u>	
TMCLKL HY/2012/08 2019-10-28 Mid-Flood IS(Mf)16 Cloudy Calm 07:52 5.7 Bottom 3 2 27.4 8.1 29.5 6 12.6		12.6	6				2	3	-					· · · ·				
TMCLKL HY/2012/08 2019-10-28 Mid-Flood SR4a Cloudy Calm 08:04 4.5 Surface 1 1 27.3 8.1 29.5 5.6 6	7.4	6	0.0				11	11										
TMCLKL HY/2012/08 2019-10-28 Mid-Flood SR4a Cloudy Calm 08:04 4.5 Surface 1 2 27.3 8.1 29.4 5.6 5.9	8	5.9	5.6	29.4	8.1	27.3	2	11	+	+								
TMCLKL HY/2012/08 2019-10-28 Mid-Flood SR4a Cloudy Calm 08:04 4.5 Middle 2 1 1				1			<u>[1</u>	[2	Middle	4.5	08:04	Calm	Cloudy	ISR4a	Mid-Flood	[2019-10-28	HY/2012/08	IMCLKL

						Sea		Water					1				$\overline{}$
Project	Contract	Date	Tide	Stat	Weather	Condition	Time	Depth	Level	Lev_Cod	Replicate	Temp(°C)	рН	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
TMCLKL	HY/2012/08	2019-10-28	Mid-Flood	SR4a	Cloudy	Calm	08:04	4.5	Middle	2	2						
TMCLKL	HY/2012/08	2019-10-28	Mid-Flood	SR4a	Cloudy	Calm	-	4.5	Bottom	3	1	27.3	8.1	29.7	5.9	8.1	11.6
TMCLKL	HY/2012/08	2019-10-28	Mid-Flood	SR4a	Cloudy	Calm		4.5	Bottom	3	2	27.3	8.1	29.5	5.9	8	12
TMCLKL	HY/2012/08	2019-10-28	Mid-Flood	SR4(N2)	Cloudy	Calm	08:08	4.2	Surface	1	1	27.4	8.1	29.5	5.5	7.4	9
TMCLKL	HY/2012/08	2019-10-28	Mid-Flood	SR4(N2)	Cloudy	Calm	_	4.2	Surface	1	2	27.3	8.1	29.3	5.5	7	9.4
TMCLKL	HY/2012/08	2019-10-28	Mid-Flood	SR4(N2)	Cloudy	Calm	08:08	4.2	Middle	2	1						
TMCLKL	HY/2012/08	2019-10-28	Mid-Flood	SR4(N2)	Cloudy	Calm	08:08	4.2	Middle	2	2						
TMCLKL	HY/2012/08	2019-10-28	Mid-Flood	SR4(N2)	Cloudy	Calm	08:08	4.2	Bottom	3	1	27.3	8.1	29.5	5.7	7.1	12
TMCLKL	HY/2012/08	2019-10-28	Mid-Flood	SR4(N2)	Cloudy	Calm	08:08	4.2	Bottom	3	2	27.3	8.1	29.4	5.6	7.3	12.6
TMCLKL	HY/2012/08	2019-10-28	Mid-Flood	IS8(N)	Cloudy	Calm	08:15	3.9	Surface	1	1	27.4	8.1	29.6	5.7	9.3	8.3
TMCLKL	HY/2012/08	2019-10-28	Mid-Flood	IS8(N)	Cloudy	Calm	_	3.9	Surface	1	2	27.4	8.1	29.4	5.7	9.2	9.4
TMCLKL	HY/2012/08	2019-10-28	Mid-Flood	IS8(N)	Cloudy	Calm		3.9	Middle	2	1						
TMCLKL	HY/2012/08	2019-10-28	Mid-Flood	IS8(N)	Cloudy	Calm	_	3.9	Middle	2	2						
TMCLKL	HY/2012/08	2019-10-28	Mid-Flood	IS8(N)	Cloudy	Calm		3.9	Bottom	3	1	27.4	8.1	29.6	5.7	9.6	9.3
TMCLKL	HY/2012/08	2019-10-28	Mid-Flood	IS8(N)	Cloudy	Calm	_	3.9	Bottom	3	2	27.4	8.1	29.5	5.7	9.6	10.4
TMCLKL	HY/2012/08	2019-10-28	Mid-Flood	IS(Mf)9	Cloudy	Calm		3.2	Surface	1	1	27.4	8.1	29.7	5.7	8.2	9.2
TMCLKL	HY/2012/08	2019-10-28	Mid-Flood	IS(Mf)9	Cloudy	Calm		3.2	Surface	1	2	27.4	8.1	29.6	5.7	7.9	9.6
TMCLKL	HY/2012/08	2019-10-28	Mid-Flood	IS(Mf)9	Cloudy	Calm	_	3.2	Middle	2	1						
TMCLKL	HY/2012/08	2019-10-28	Mid-Flood	IS(Mf)9	Cloudy	Calm	_	3.2	Middle	2	2	<u> </u>	10.	100.5		1.0.0	
TMCLKL	HY/2012/08	2019-10-28	Mid-Flood	IS(Mf)9	Cloudy	Calm	_	3.2	Bottom	3	1	27.4	8.1	29.8	5.9	10.2	12
TMCLKL	HY/2012/08	2019-10-28	Mid-Flood	IS(Mf)9	Cloudy	Calm		3.2	Bottom	3	2	27.4	8.1	29.6	5.9	10.1	12.5
TMCLKL	HY/2012/08	2019-10-28	Mid-Flood	IS(Mf)11	Cloudy	Calm	06:43	11.6	Surface	1	1	27.5	8.1	29.7	5.7	13.1	16.1
TMCLKL	HY/2012/08	2019-10-28	Mid-Flood	IS(Mf)11	Cloudy	Calm	06:43	11.6	Surface	1	2	27.5	8.1	29.6	5.7	13	16.7
TMCLKL	HY/2012/08	2019-10-28	Mid-Flood	IS(Mf)11	Cloudy	Calm	06:43	11.6	Middle	2	1	27.5	8.1	29.7	5.7	12.4	19.6
TMCLKL	HY/2012/08	2019-10-28	Mid-Flood	IS(Mf)11	Cloudy	Calm		11.6	Middle	2	2	27.5	8.1	29.6	5.7	12.3	19.1
TMCLKL	HY/2012/08	2019-10-28	Mid-Flood	IS(Mf)11	Cloudy	Calm	06:43	11.6	Bottom	3	1	27.5	8.1	29.7	5.7	17	22.8
TMCLKL	HY/2012/08	2019-10-28	Mid-Flood	IS(Mf)11 SR7	Cloudy	Calm Calm	06:43	11.6	Bottom	3	2	27.5 27.4	8.1	29.6 29.5	5.7	17.1 14.1	23 24.8
TMCLKL	HY/2012/08	2019-10-28	Mid-Flood Mid-Flood	SR7	Cloudy Cloudy	Calm		4.2	Surface Surface	1	12	27.4	8		5.9		
TMCLKL TMCLKL	HY/2012/08 HY/2012/08	2019-10-28 2019-10-28	Mid-Flood	SR7	Cloudy	Calm		4.2	Middle	2	1	27.4	<u> </u>	29.3	5.9	14.2	25.2
TMCLKL	HY/2012/08	2019-10-28	Mid-Flood	SR7	Cloudy	Calm	06:34	4.2	Middle	2	2		1				+
TMCLKL	HY/2012/08	2019-10-28	Mid-Flood	SR7	Cloudy	Calm		4.2	Bottom	3	1	27.4	8	29.6	6.1	17.8	25.5
TMCLKL	HY/2012/08	2019-10-28	Mid-Flood	SR7	Cloudy	Calm		4.2	Bottom	3	2	27.4	8	29.4	6.1	17.5	25.9
TMCLKL	HY/2012/08	2019-10-28	Mid-Flood	IS17	Cloudy	Calm		8.2	Surface	1	1	27.5	8.1	29.8	5.7	14.4	20
TMCLKL	HY/2012/08	2019-10-28	Mid-Flood	IS17	Cloudy	Calm		8.2	Surface	1	2	27.5	8.1	29.7	5.7	14.8	20.7
TMCLKL	HY/2012/08	2019-10-28	Mid-Flood	IS17	Cloudy	Calm		8.2	Middle	2	1	27.5	8.1	29.8	5.8	17	17.9
TMCLKL	HY/2012/08	2019-10-28	Mid-Flood	IS17	Cloudy	Calm		8.2	Middle	2	2	27.5	8.1	29.7	5.7	16.8	17.4
TMCLKL	HY/2012/08	2019-10-28	Mid-Flood	IS17	Cloudy	Calm		8.2	Bottom	3	1	27.5	8.1	29.8	6	18.5	16.9
TMCLKL	HY/2012/08	2019-10-28	Mid-Flood	IS17	Cloudy	Calm		8.2	Bottom	3	2	27.5	8.1	29.6	6	18.2	17.3
TMCLKL	HY/2012/08	2019-10-30	Mid-Ebb	CS(Mf)5	Cloudy	Moderate		11.9	Surface	1	1	26.8	8.3	30.4	5.8	5.1	7.7
TMCLKL	HY/2012/08	2019-10-30	Mid-Ebb	CS(Mf)5	Cloudy	Moderate		11.9	Surface	1	2	26.8	8.3	31.3	5.6	5.7	7.3
TMCLKL	HY/2012/08	2019-10-30	Mid-Ebb	CS(Mf)5	Cloudy	Moderate	15:00	11.9	Middle	2	1	27	8.2	31.1	5.6	5.1	9.7
TMCLKL	HY/2012/08	2019-10-30	Mid-Ebb	CS(Mf)5	Cloudy	Moderate	15:00	11.9	Middle	2	2	27	8.2	32.1	5.5	5.9	10
TMCLKL	HY/2012/08	2019-10-30	Mid-Ebb	CS(Mf)5	Cloudy	Moderate	15:00	11.9	Bottom	3	1	27	8.2	31.3	5.6	12.5	11.8
TMCLKL	HY/2012/08	2019-10-30	Mid-Ebb	CS(Mf)5	Cloudy	Moderate	15:00	11.9	Bottom	3	2	27	8.2	32.3	5.5	12.1	11.3
TMCLKL	HY/2012/08	2019-10-30	Mid-Ebb		Cloudy	Moderate		7.5	Surface	1	1	26.5	8.3	29.6	6.1	7.2	8.2
TMCLKL	HY/2012/08	2019-10-30	Mid-Ebb		Cloudy	Moderate		7.5	Surface	1	2	26.5	8.3	30.5	6	7.2	8.9
TMCLKL	HY/2012/08	2019-10-30	Mid-Ebb		Cloudy	Moderate		7.5	Middle	2	1	26.3	8.4	30.4	6.1	15.3	9.1
TMCLKL	HY/2012/08	2019-10-30	Mid-Ebb		Cloudy	Moderate		7.5	Middle	2	2	26.3	8.4	31.4	6	14.2	9.4
TMCLKL	HY/2012/08	2019-10-30	Mid-Ebb		Cloudy	Moderate		7.5	Bottom	3	1	26.3	8.4	30.5	6.1	13.5	11.5
TMCLKL	HY/2012/08	2019-10-30	Mid-Ebb		Cloudy	Moderate	_	7.5	Bottom	3	2	26.3	8.4	31.6	6	13.1	11.1
TMCLKL	HY/2012/08	2019-10-30	Mid-Ebb	IS(Mf)16	Cloudy	Moderate	_	5.9	Surface	1	1	26.6	8.2	29.9	6	7.6	7.5
TMCLKL	HY/2012/08	2019-10-30	Mid-Ebb	+ ` '	Cloudy	Moderate		5.9	Surface	1	2	26.7	8.2	30.8	5.9	7.6	7.8
TMCLKL	HY/2012/08	2019-10-30	Mid-Ebb	IS(Mf)16	Cloudy	Moderate		5.9	Middle	2	1		1		1		
TMCLKL	HY/2012/08	2019-10-30	Mid-Ebb	IS(Mf)16	Cloudy	Moderate		5.9	Middle	2	2	l	10.5	100.5	<u> </u>	<u> </u>	<u></u>
TMCLKL	HY/2012/08	2019-10-30	Mid-Ebb	IS(Mf)16	Cloudy	Moderate		5.9	Bottom	3	1	26.5	8.2	29.9	6	7.6	8.1
TMCLKL	HY/2012/08	2019-10-30	Mid-Ebb	IS(Mf)16	Cloudy	Moderate	_	5.9	Bottom	3	2	26.5	8.2	30.9	5.8	7.2	8.4
TMCLKL	HY/2012/08	2019-10-30	Mid-Ebb	SR4a	Cloudy	Moderate	_	4.7	Surface	1	1 a	26.6	8.2	29.9	5.9	7.5	7.2
	HY/2012/08	2019-10-30	Mid-Ebb		Cloudy	Moderate	10.00	4.7	Surface	1		26.6	8.2	30.8	5.8	7.2	7.9
TMCLKL	HY/2012/08	2019-10-30	Mid-Ebb	SR4a	Cloudy	Moderate		4.7	Middle	2	10		+	<u> </u>	+		
TMCLKL	HY/2012/08	2019-10-30	Mid-Ebb	SR4a	Cloudy	Moderate	13:06	4.7	Middle	4	2					Ĺ	

Project	Contract	Date	Tide	Stat	Weather	Sea Condition	Time	Water Depth	Level	Lev_Cod	Replicate	Temp(°C)	рН	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
TMCLKL	HY/2012/08	2019-10-30	Mid-Ebb	SR4a	Cloudy	Moderate	13:06	4.7	Bottom	3	1	26.5	8.2	29.9	6.1	7.8	8.1
TMCLKL	HY/2012/08	2019-10-30	Mid-Ebb	SR4a	Cloudy	Moderate	13:06	4.7	Bottom	3	2	26.6	8.2	30.9	5.8	7.4	7.7
TMCLKL	HY/2012/08	2019-10-30	Mid-Ebb	SR4(N2)	Cloudy	Moderate	13:00	4.5	Surface	1	1	26.5	8.1	29.8	5.9	8.2	10.7
TMCLKL	HY/2012/08	2019-10-30	Mid-Ebb	SR4(N2)	Cloudy	Moderate	13:00	4.5	Surface	1	2	26.5	8.1	30.8	5.7	8.7	11.2
TMCLKL	HY/2012/08	2019-10-30	Mid-Ebb	SR4(N2)	Cloudy	Moderate	13:00	4.5	Middle	2	1						
TMCLKL	HY/2012/08	2019-10-30	Mid-Ebb	SR4(N2)	Cloudy	Moderate	13:00	4.5	Middle	2	2						
TMCLKL	HY/2012/08	2019-10-30	Mid-Ebb	SR4(N2)	Cloudy	Moderate	13:00	4.5	Bottom	3	1	26.5	8.1	29.8	5.9	9.2	8.4
TMCLKL	HY/2012/08	2019-10-30	Mid-Ebb	SR4(N2)	Cloudy	Moderate	13:00	4.5	Bottom	3	2	26.5	8.1	30.8	5.8	9.4	8.8
TMCLKL	HY/2012/08	2019-10-30	Mid-Ebb	IS8(N)	Cloudy	Moderate	12:54	3.4	Surface	1	1	26.5	8.2	29.7	6.1	7.1	7.4
TMCLKL	HY/2012/08	2019-10-30	Mid-Ebb	IS8(N)	Cloudy	Moderate	12:54	3.4	Surface	1	2	26.5	8.2	30.7	5.9	7.1	7.2
TMCLKL	HY/2012/08	2019-10-30	Mid-Ebb	IS8(N)	Cloudy	Moderate	12:54	3.4	Middle	2	1						
TMCLKL	HY/2012/08	2019-10-30	Mid-Ebb	IS8(N)	Cloudy	Moderate	12:54	3.4	Middle	2	2		1				
TMCLKL	HY/2012/08	2019-10-30	Mid-Ebb	IS8(N)	Cloudy	Moderate	12:54	3.4	Bottom	3	1	26.5	8.2	29.8	6.2	6.7	8.4
TMCLKL	HY/2012/08	2019-10-30	Mid-Ebb	IS8(N)	Cloudy	Moderate	12:54	3.4	Bottom	3	2	26.5	8.2	30.7	6	6.1	8.5
TMCLKL	HY/2012/08	2019-10-30	Mid-Ebb	IS(Mf)9	Cloudy	Moderate		3.5	Surface	1	1	26.5	8.3	29.9	5.9	10.9	7.8
TMCLKL	HY/2012/08	2019-10-30	Mid-Ebb	IS(Mf)9	Cloudy	Moderate		3.5	Surface	1	2	26.5	8.3	30.8	5.9	10.2	7.8
TMCLKL	HY/2012/08	2019-10-30	Mid-Ebb	IS(Mf)9	Cloudy	Moderate	12:47	3.5	Middle	2	1						
TMCLKL	HY/2012/08	2019-10-30	Mid-Ebb	IS(Mf)9	Cloudy	Moderate	12:47	3.5	Middle	2	2	 	ļ -		1	111.0	
TMCLKL	HY/2012/08	2019-10-30	Mid-Ebb	IS(Mf)9	Cloudy	Moderate	12:47	3.5	Bottom	3	1	26.5	8.3	30	5.9	11.3	8.7
TMCLKL	HY/2012/08	2019-10-30	Mid-Ebb	IS(Mf)9	Cloudy	Moderate	12:47	3.5	Bottom	3	2	26.5	8.3	30.8	6	10.6	8.8
TMCLKL	HY/2012/08	2019-10-30	Mid-Ebb	IS(Mf)11	Cloudy	Moderate	14:32	11.5	Surface	1	1	26.8	8.2	30.1	5.9	7.2	7.4
TMCLKL	HY/2012/08	2019-10-30	Mid-Ebb	IS(Mf)11	Cloudy	Moderate	14:32	11.5	Surface	1	2	26.8	8.2	31.1	5.7	7.4	7.9
TMCLKL	HY/2012/08	2019-10-30	Mid-Ebb	IS(Mf)11	Cloudy	Moderate	14:32	11.5	Middle	2	1	26.7	8.2	30.2	5.7	10.9	7.8
TMCLKL	HY/2012/08	2019-10-30	Mid-Ebb	IS(Mf)11	Cloudy	Moderate		11.5	Middle	2	2	26.7	8.2	31.2	5.6	10.2	8
TMCLKL	HY/2012/08	2019-10-30	Mid-Ebb	IS(Mf)11	Cloudy	Moderate	14:32	11.5	Bottom	3	1	26.8	8.2	30.6	5.7	14.8	8.8
TMCLKL	HY/2012/08	2019-10-30	Mid-Ebb	IS(Mf)11	Cloudy	Moderate	14:32	11.5	Bottom	3	2	26.8	8.2	31.5	5.6	14.1	9.4
TMCLKL	HY/2012/08	2019-10-30	Mid-Ebb	SR7	Cloudy	Moderate	14:39	4.2	Surface	1	1	26.8	8.2	30.2	5.9	10.2	10.3
TMCLKL	HY/2012/08	2019-10-30	Mid-Ebb	SR7	Cloudy	Moderate	14:39	4.2	Surface	1	2	26.8	8.2	31.2	5.8	10.1	10.7
TMCLKL	HY/2012/08	2019-10-30	Mid-Ebb	SR7	Cloudy	Moderate	14:39	4.2	Middle	2	1		_				
TMCLKL	HY/2012/08	2019-10-30	Mid-Ebb	SR7	Cloudy	Moderate	14:39	4.2	Middle	2	2	00.0		00.0	15.0	1110	
TMCLKL	HY/2012/08	2019-10-30	Mid-Ebb	SR7	Cloudy	Moderate	14:39	4.2	Bottom	3	1	26.8	8.2	30.3	5.9	11.6	11.7
TMCLKL	HY/2012/08	2019-10-30	Mid-Ebb	SR7	Cloudy	Moderate	14:39	4.2	Bottom	3	2	26.8	8.2	31.2	5.8	11.2	11.4
TMCLKL	HY/2012/08	2019-10-30	Mid-Ebb	IS17	Cloudy	Moderate	13:26	8.6	Surface	1	1	26.6	8.2	30.1	5.8	10	7.6
TMCLKL	HY/2012/08	2019-10-30	Mid-Ebb	IS17	Cloudy	Moderate	13:26	8.6	Surface	1	2	26.7	8.2	31.1	5.7	10.4	7.2
TMCLKL	HY/2012/08	2019-10-30	Mid-Ebb	IS17	Cloudy	Moderate	13:26	8.6	Middle	2	1	26.7	8.2	30.4	5.8	13	9.2
TMCLKL	HY/2012/08	2019-10-30	Mid-Ebb	IS17	Cloudy	Moderate	13:26	8.6	Middle	2	4	26.7	8.2	31.4	5.6	12.1	9.6
TMCLKL	HY/2012/08	2019-10-30	Mid-Ebb	IS17	Cloudy	Moderate	13:26	8.6	Bottom	3	1	26.8	8.2	30.7	5.8	11.8	10.9
TMCLKL	HY/2012/08	2019-10-30	Mid-Ebb	IS17	Cloudy	Moderate	13:26	8.6	Bottom	3	4	26.8	8.2	31.7	5.7	11.9	11.4
TMCLKL	HY/2012/08	2019-10-30	Mid-Flood	CS(Mf)5	Cloudy	Moderate	07:54	12.3	Surface	1	10	26.5	8	30.8	5.7	7.2	9.5
TMCLKL	HY/2012/08	2019-10-30	Mid-Flood	CS(Mf)5	Cloudy	Moderate	07:54	12.3	Surface	1	4	26.5 26.7	8	30.1	5.9	7.1	9.7
TMCLKL	HY/2012/08	2019-10-30	Mid-Flood	CS(Mf)5	Cloudy	Moderate	07:54	12.3	Middle	2	12		8	31.3	5.8	9	
TMCLKL TMCLKL	HY/2012/08 HY/2012/08	2019-10-30	Mid-Flood Mid-Flood	CS(Mf)5 CS(Mf)5	Cloudy Cloudy	Moderate Moderate	07:54 07:54	12.3 12.3	Middle Bottom	3	1	26.7 26.7	8	30.2 31.4	5.7 5.8	9.4	9.9
TMCLKL	HY/2012/08 HY/2012/08	2019-10-30	Mid-Flood	CS(Mf)5	Cloudy	Moderate	07:54	12.3	Bottom	3	2	26.7	8	30.4	5.8	10.1	9.7
TMCLKL	HY/2012/08	2019-10-30	Mid-Flood	CS(Mf)3(N)		Moderate	08:51	7.7	Surface	1	1	26.2	8.1	30.4	6	10.6	21.4
TMCLKL	HY/2012/08	2019-10-30	Mid-Flood	· / / /	Cloudy Cloudy	Moderate		7.7	Surface	11	2	26.2	8.1	29.7	6.1	10.5	21.4
TMCLKL	HY/2012/08	2019-10-30	Mid-Flood	CS(Mf)3(N)	Cloudy	Moderate		7.7	Middle	2	1	26.2	8	30.6	6	15.9	21.4
TMCLKL	HY/2012/08	2019-10-30	Mid-Flood		Cloudy	Moderate		7.7	Middle	2	2	26.2	8	29.8	6 1	15.6	21.4
TMCLKL	HY/2012/08	2019-10-30	Mid-Flood	CS(Mf)3(N)	Cloudy	Moderate	08:51	7.7	Bottom	3	1	26.2	8	30.6	6	20	22.7
TMCLKL	HY/2012/08	2019-10-30	Mid-Flood		Cloudy	Moderate	_	7.7	Bottom	3	2	26.2	8	29.8	6.1	19.4	22.7
TMCLKL	HY/2012/08	2019-10-30	Mid-Flood	IS(Mf)16	Cloudy	Moderate	09:40	5.2	Surface	1	1	26.4	8.1	30.8	5.9	13.5	12.2
TMCLKL	HY/2012/08	2019-10-30	Mid-Flood	IS(Mf)16	Cloudy	Moderate	09:40	5.2	Surface	11	2	26.4	8.1	29.9	6	13.8	12.7
TMCLKL	HY/2012/08	2019-10-30	Mid-Flood	IS(Mf)16	Cloudy	Moderate	09:40	5.2	Middle	2	1	20.4	10.1	20.0	 	10.0	14.1
TMCLKL	HY/2012/08	2019-10-30	Mid-Flood	IS(Mf)16	Cloudy	Moderate	09:40	5.2	Middle	2	2	+	+				+
TMCLKL	HY/2012/08	2019-10-30	Mid-Flood	IS(Mf)16	Cloudy	Moderate	09:40	5.2	Bottom	3	1	26.4	8.1	30.8	6	14.1	14.8
TMCLKL	HY/2012/08	2019-10-30	Mid-Flood	IS(Mf)16	Cloudy	Moderate	09:40	5.2	Bottom	3	2	26.3	8.1	29.9	6.1	14.1	14.3
TMCLKL	HY/2012/08	2019-10-30	Mid-Flood	SR4a	Cloudy	Moderate	09:40	4.5	Surface	1	1	26.3	8.1	30.6	5.7	6.5	8.5
TMCLKL	HY/2012/08	2019-10-30	Mid-Flood	SR4a	Cloudy	Moderate	09:51	4.5	Surface	11	2	26.3	8.1	29.7	5.8	6.3	7.8
	HY/2012/08			SR4a	Cloudy	Moderate	09:51		Middle	2	1	20.0	10.1	23.1	0.0	0.0	1.0
	HY/2012/08	2019-10-30	Mid-Flood	SR4a	Cloudy	Moderate		4.5	Middle	2	2	+	+				+
	HY/2012/08	2019-10-30	Mid-Flood	SR4a	Cloudy				1		1	26.4	g 1	30.7	5.8	7.7	111
TMCLKL	JU17/2012/08	∠019-10-30	liviia-Liooa	Jok4a	Joiouay	Moderate	09:51	4.5	Ipottom	3	[1	26.4	8.1	30.7	5.8	[/./	111

Project	Contract	Date	Tide	Stat	Weather	Sea	Time	Water	Level	Lev_Cod	Replicate	Temp(°C)	рН	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
TMCLKL	HY/2012/08	2019-10-30	Mid-Flood	SR4a	Cloudy	Condition Moderate	09:51	Depth 4.5	Bottom	2	2	26.4	8.1	29.9	5.9	7.6	10.5
	HY/2012/08	2019-10-30	Mid-Flood	SR4(N2)	Cloudy	Moderate	09:56	4.2	Surface	1	1	26.4	8.1	30.7	5.7	10.1	14
	HY/2012/08	2019-10-30	Mid-Flood	SR4(N2)	Cloudy	Moderate	09:56	4.2	Surface	1	2	26.4	8.1	29.8	5.8	10.1	13.5
	HY/2012/08	2019-10-30	Mid-Flood	SR4(N2)	Cloudy	Moderate	09:56	4.2	Middle	2	1	20.4	0.1	29.0	3.6	10.1	13.5
	HY/2012/08	2019-10-30	Mid-Flood	SR4(N2)	Cloudy	Moderate	09:56	4.2	Middle	2	2		+		+		
	HY/2012/08	2019-10-30	Mid-Flood	SR4(N2)	Cloudy	Moderate	09:56	4.2	Bottom	2	1	26.4	8.1	30.7	5.9	10.5	15.1
	HY/2012/08	2019-10-30	Mid-Flood	SR4(N2)	Cloudy	Moderate		4.2	Bottom	2	12	26.4	8.1	29.8	6	10.4	14.5
	HY/2012/08	2019-10-30	Mid-Flood	IS8(N)	Cloudy	+		3.7	Surface	3	1	26.5	8.1	30.7	5.8	7.4	13.6
	HY/2012/08	+	Mid-Flood		Cloudy	Moderate	+	3.7	Surface	1	12	26.4	8.1	29.8	5.9	7.2	13.7
	HY/2012/08	2019-10-30		IS8(N)		Moderate	+	3.7	Middle	2	1	20.4	0.1	29.0	5.9	1.2	13.7
	HY/2012/08	2019-10-30	Mid-Flood	IS8(N)	Cloudy	Moderate			Middle	2	11		+				
		2019-10-30	Mid-Flood	IS8(N)	Cloudy	Moderate		3.7		2	1	26.5	0.1	20.7	F 0	7 7	11.2
	HY/2012/08	2019-10-30	Mid-Flood	IS8(N)	Cloudy	Moderate		3.7	Bottom	3	10	26.5	8.1	30.7	5.8	7.7	11.2
	HY/2012/08	2019-10-30	Mid-Flood	IS8(N)	Cloudy	Moderate		3.7	Bottom	3	4	26.4	8.1	29.8	5.9	7.8	7.0
	HY/2012/08	2019-10-30	Mid-Flood	IS(Mf)9	Cloudy	Moderate		3.5	Surface	1	10	26.5	8.1	30.9	5.9	9.1	7.3
	HY/2012/08	2019-10-30	Mid-Flood	IS(Mf)9	Cloudy	Moderate		3.5	Surface	1	4	26.4	8.1	29.9	Ь	10.1	7.4
	HY/2012/08	2019-10-30	Mid-Flood	IS(Mf)9	Cloudy	Moderate		3.5	Middle	2	11		+				
	HY/2012/08	2019-10-30	Mid-Flood	IS(Mf)9	Cloudy	Moderate		3.5	Middle	2	2	00.5	0.4	20.0		44.7	7.0
	HY/2012/08	2019-10-30	Mid-Flood	IS(Mf)9	Cloudy	Moderate		3.5	Bottom	3	11	26.5	8.1	30.9	6	11.7	7.3
	HY/2012/08	2019-10-30	Mid-Flood	IS(Mf)9	Cloudy	Moderate		3.5	Bottom	3	2	26.4	8.1	30	6.1	11.2	10.0
	HY/2012/08	2019-10-30	Mid-Flood	IS(Mf)11	Cloudy	Moderate	08:23	11.3	Surface	1	11	26.3	8	30.6	5.8	12.8	18.6
	HY/2012/08	2019-10-30	Mid-Flood	IS(Mf)11	Cloudy	Moderate	08:23	11.3	Surface	1	2	26.3	8	29.9	5.9	12.2	19
	HY/2012/08	2019-10-30	Mid-Flood	IS(Mf)11	Cloudy	Moderate	08:23	11.3	Middle	2	1	26.3	8	30.6	5.8	15.9	19.2
	HY/2012/08	2019-10-30	Mid-Flood	IS(Mf)11	Cloudy	Moderate	08:23	11.3	Middle	2	2	26.3	8	29.9	5.9	15.2	19.1
	HY/2012/08	2019-10-30	Mid-Flood	IS(Mf)11	Cloudy	Moderate	08:23	11.3	Bottom	3	1	26.3	8	30.7	5.9	11.1	22.7
	HY/2012/08	2019-10-30	Mid-Flood	IS(Mf)11	Cloudy	Moderate	08:23	11.3	Bottom	3	2	26.3	8	29.9	5.9	11.8	22.9
	HY/2012/08	2019-10-30	Mid-Flood	SR7	Cloudy	Moderate	08:16	4.4	Surface	1	1	26.2	8	30.9	6.2	9.1	12.5
	HY/2012/08	2019-10-30	Mid-Flood	SR7	Cloudy	Moderate	08:16	4.4	Surface	1	2	26.3	8	29.9	6.1	9.2	12.8
	HY/2012/08	2019-10-30	Mid-Flood	SR7	Cloudy	Moderate	08:16	4.4	Middle	2	1						
	HY/2012/08	2019-10-30		SR7	Cloudy	Moderate	08:16		Middle	2	2				1	1	
	HY/2012/08		Mid-Flood	SR7	Cloudy	Moderate		4.4	Bottom	3	1	26.2	8	30.9	6.4	14.4	21.3
	HY/2012/08		Mid-Flood	SR7	Cloudy	Moderate		4.4	Bottom	3	2	26.3	8	29.9	6.2	14.8	21.7
	HY/2012/08		Mid-Flood	IS17	Cloudy	Moderate		8	Surface	1	1	26.6	8.1	30.9	5.7	10.6	9.7
	HY/2012/08		Mid-Flood	IS17	Cloudy	Moderate		8	Surface	1	2	26.6	8.1	30	5.8	10.4	9.6
	HY/2012/08		Mid-Flood	IS17	Cloudy	Moderate		8	Middle	2	1	26.6	8.1	30.9	5.8	16.9	11.5
	HY/2012/08		Mid-Flood	IS17	Cloudy	Moderate		8	Middle	2	2	26.6	8.1	30	5.8	16.9	11.1
	HY/2012/08		Mid-Flood	IS17	Cloudy	Moderate		8	Bottom	3	1	26.6	8.1	30.9	5.9	13.3	14
TMCLKL	HY/2012/08	2019-10-30	Mid-Flood	IS17	Cloudy	Moderate	09:30	8	Bottom	3	2	26.5	8.1	30	5.9	13.3	14.8

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

			Action			
	ET (a)]	IEC (a)	SOR (a)		Contractor(s)
Limit Level Exceedance						
1. 2. 3. 4. 5. 6. 7. 8.	working procedures to determine possible mitigation to be implemented. Arrange meeting with the IEC and the SOR to discuss the remedial actions to be taken. Assess effectiveness of the Contractor's remedial actions and keep the IEC, the DEP	1. 2. 3. 4.	Check monitoring data submitted by the ET. Check Contractor's working method. If the exceedance is confirmed to be Project related after investigation, discuss with the ET and the Contractor on possible remedial measures. Advise the SOR on the effectiveness of the proposed remedial measures. Supervise implementation of remedial measures.	Confirm receipt of notification of failure in writing. Notify the Contractor. 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. Ensure remedial measures are properly implemented. 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. 2. 3. 4. 5.	Take immediate action to avoid further exceedance. If the exceedance is confirmed to be Project related after investigation, submit proposals for remedial actions to IEC within 3 working days of notification. Implement the agreed proposals. Amend proposal if appropriate. Stop the relevant activity of works as determined by the SOR until the exceedance is abated.
9.	remedial actions and keep the IEC, the DEP and the SOR informed of the results. If exceedance stops, cease additional monitoring.			abated.		abated.

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

Event & Action Plan for Impact Water Quality Monitoring

Event	ET Leader	IE	EC	SOR	Contractor
Action level being exceeded by one sampling day	 Repeat <i>in situ</i> measure day of exceedance to c findings; Identify source(s) of ir Inform IEC, contractor Check monitoring dat equipment and Contramethods. 	onfirm mpact; r and SOR; a, all plant,	Check monitoring data submitted by ET and Contractor's working methods.	Confirm receipt of notification of noncompliance in writing; Notify Contractor.	 Inform the SOR and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Amend working methods if appropriate.
Action level being exceeded by two or more consecutive sampling days	 Repeat measurement of exceedance to confirm Identify source(s) of in Inform IEC, Contractor EPD; Check monitoring dat equipment and Contractor methods; Discuss mitigation mediate, SOR and Contractor 	a findings; mpact; or, SOR and 2. a, all plant, actor's working 2. easures with etor;	Check monitoring data submitted by ET and Contractor's working method; Discuss with ET and Contractor on possible remedial actions; Review the proposed mitigation measures submitted by Contractor and advise the SOR accordingly; Supervise the	 Discuss with IEC on the proposed mitigation measures; Ensure mitigation measures are properly implemented; Assess the effectiveness of the implemented mitigation measures. 	Rectify unacceptable practice; Check all plant and equipment and consider changes of working methods; Submit proposal of
	6. Ensure mitigation me implemented;7. Increase the monitorin daily until no exceeda level;	ng frequency to nce of Action	implementation of mitigation measures.		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 exceedance to confirm		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
	 Identify source(s) of impact; Inform IEC, Contractor, SOR and EPD; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC, SOR and Contractor; 	2. Discuss with ET and Contractor on possible remedial actions;	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	 Repeat measurement on next day of exceedance to confirm findings; Identify source(s) of impact; Inform IEC, contractor, SOR and EPD; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC, SOR and Contractor; Ensure mitigation measures are implemented; Increase the monitoring frequency to daily until no exceedance of Limit level for two consecutive days; 	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.	 Discuss with IEC, ET and Contractor on the proposed mitigation measures; Request Contractor to critically review the working methods; Make agreement on the mitigation measures to be implemented; Ensure mitigation measures are properly implemented; 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. 	 Take immediate action to avoid further exceedance; Submit proposal of mitigation measures to SOR within 3 working days of notification and discuss with ET, IEC and SOR; Implement the agreed mitigation measures; Resubmit proposals of mitigation measures if problem still not under control; 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	 Repeat statistical data analysis to confirm findings; 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; Identify source(s) of impact; Inform the IEC, SOR and Contractor; Check monitoring data. Review to ensure all the dolphin protective measures are fully and properly implemented and advise on additional measures if necessary. 	 Check monitoring data submitted by ET and Contractor; Discuss monitoring results and finding with the ET and the Contractor. 	 Discuss monitoring with the IEC and any other measures proposed by the ET; If SOR is satisfied with the proposal of any other measures, SOR to signify the agreement in writing on the measures to be implemented. 	 Inform the SOR and confirm notification of the non-compliance in writing; Discuss with the ET and the IEC and propose measures to the IEC and the SOR; Implement the agreed measures.
Limit Level	 Repeat statistical data analysis to confirm findings; 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; 	 Check monitoring data submitted by ET and Contractor; Discuss monitoring results and findings with the ET and the Contractor; Attend the meeting to discuss with ET, SOR and 	 Attend the meeting to discuss with ET, IEC and Contractor the necessity of additional dolphin monitoring and any other potential mitigation measures. If SOR is satisfied with the 	 Inform the SOR and confirm notification of the non-compliance in writing; 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
	 Identify source(s) of impact; Inform the IEC, SOR and Contractor of findings; Check monitoring data; Repeat review to ensure all the dolphin protective measures are fully and properly implemented and advise on additional measures if necessary. 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.

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

Appendix L

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

 Table L1
 Cumulative Statistics on Exceedances

Parameters	Level of Exceedance	Total No. recorded in this reporting month	Total No. recorded since Contract commencement
1-hr TSP	Action	3	96
	Limit	0	8
24-hr TSP	Action	0	10
	Limit	0	4
Water Quality	Action	2	166
•	Limit	0	19
Impact Dolphin	Action	0	11
Monitoring	Limit	0	16

Table L2 Cumulative Statistics on Complaints, Notifications of Summons and Successful Prosecutions

Reporting Period	Cumulative Statistics				
_	Complaints	Notifications of	Successful		
		Summons	Prosecutions		
This Reporting Month (October 2019)	0	0	0		
Total No. received since Contract commencement	17	1	0		

Email message

Environmental Resources Management

To Ramboll Hong Kong, Limited (ENPO)

2507, 25/F One Harbourfront 18 Tak Fung Street Hunghom, Kowloon

Hong Kong

From ERM- Hong Kong, Limited

Telephone: (852) 2271 3000 Facsimile: (852) 2723 5660

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 24 October 2019



Dear Sir or Madam,

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

0212330_14October2019_1hrTSP_Station ASR1

One Action Level Exceedance was recorded on 14 October 2019.

Regards,

Dr Jasmine Ng

Environmental Team Leader

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ERM-Hong Kong, Limited



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

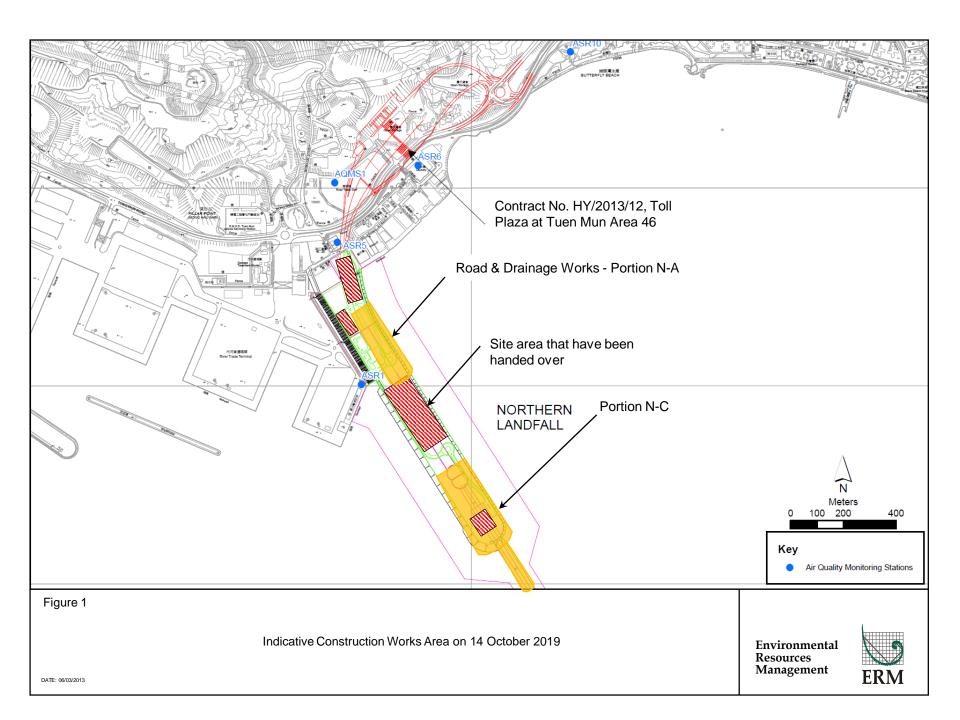
Air Quality Impact Monitoring Notification of Exceedance

Log No.	Action Level Exceedance					
	0212330_14October2019_1hrTSP_Station ASR1					
	[Total No. of Exceedances = 1]					
Date	14 October 2019 (Measured)					
	24 Octobe	er 2019 (Laboratory results received by ERM)				
Monitoring Station	AS	SR1, ASR5, ASR6, ASR10 and AQMS1				
Parameter(s) with		1-hr TSP				
Exceedance(s)		1-10 131				
Action Levels	24-hr TSP (μg/m³)	ASR1 = 213				
		ASR5 = 238				
		AQMS1 = 213				
		ASR6 = 238				
		ASR10 = 214				
	1-hr TSP ($\mu g/m^3$)	ASR1 = 331				
		ASR5 = 340				
	AQMS1 = 335					
	ASR6 = 338					
		ASR10 = 337				
Limit Levels	1-hr TSP (μg/m³)	500				
	24-hr TSP (μg/m³)	260				
Measured Levels	Action Level Exceedance for 1-hr TSP is observed at ASR1 (363 µg/m3) during 0950 – 1050 hrs.					
Works Undertaken (at	On 14 October 2019, Road and Drainage Works were carried out on site.					
the time of monitoring						
event)						
Possible Reason for	The exceedance is unlikely to be due to this Contract, in view of the following:					
Action or Limit Level	According to the construction information provided by the Contractor, only Road and					
Exceedance(s)	Drainage Works were carried out on site on 14 October 2019.					
	The exceedance is unlikely to be due to this Contract as dust suppression measures were					
	implemented properly on site. Water spraying was applied on site to prevent dust. Water					
	spraying was also applied on exposed soil within the Project site and associated works areas.					
	With reference to the recorded wind direction (ranged between 65° and 335°, blowing from a					
		-westerly direction) and wind speed (0.4 m/s) during the works				
	period, Stations ASR1 are located downstream to the construction works at Portion N-A.					
	However, the exceedance was only recorded in the second hour of 1-hour TSP monitoring					
	with the same construction works and dust mitigation measures being carried out. Road &					
	Drainage Works carried out at Portion N-A are unlikely to cause significant dust impact.					
	Based on the above, the exceedance is unlikely to be due to this Contract.					
	<u>'</u>	,				

Actions Taken / To Be Taken	The Contractor has been reminded to implement the required mitigation measures as per the EP, approved EIA and Updated EM&A Manual including watering to maintain all exposed road surfaces and dust sources wet, use of sprinklers for water spraying, covering the materials having the potential to create dust by clean tarpaulin, use of water truck and watering on all exposed soil within the Project site throughout the construction period.
Remarks	The monitoring results, wind data and the locations of air quality monitoring stations are attached.

Air quality monitoring results on 14/10/2019								
Project	Contract	Date	Station	Weather	Start time	Parameters	Results	Unit
TMCLKL	HY/2012/08	14/10/2019	AQMS1	Sunny	9:00	1-hour TSP	92	ug/m3
TMCLKL	HY/2012/08	14/10/2019	AQMS1	Sunny	10:02	1-hour TSP	66	ug/m3
TMCLKL	HY/2012/08	14/10/2019	AQMS1	Sunny	11:04	1-hour TSP	72	ug/m3
TMCLKL	HY/2012/08	14/10/2019	ASR1	Sunny	8:48	1-hour TSP	93	ug/m3
TMCLKL	HY/2012/08	14/10/2019	ASR1	Sunny	9:50	1-hour TSP	363	ug/m3
TMCLKL	HY/2012/08	14/10/2019	ASR1	Sunny	10:52	1-hour TSP	117	ug/m3
TMCLKL	HY/2012/08	14/10/2019	ASR10	Sunny	8:15	1-hour TSP	36	ug/m3
TMCLKL	HY/2012/08	14/10/2019	ASR10	Sunny	9:17	1-hour TSP	35	ug/m3
TMCLKL	HY/2012/08	14/10/2019	ASR10	Sunny	10:19	1-hour TSP	48	ug/m3
TMCLKL	HY/2012/08	14/10/2019	ASR5	Sunny	8:37	1-hour TSP	278	ug/m3
TMCLKL	HY/2012/08	14/10/2019	ASR5	Sunny	9:39	1-hour TSP	135	ug/m3
TMCLKL	HY/2012/08	14/10/2019	ASR5	Sunny	10:41	1-hour TSP	154	ug/m3
TMCLKL	HY/2012/08	14/10/2019	ASR6	Sunny	8:25	1-hour TSP	101	ug/m3
TMCLKL	HY/2012/08	14/10/2019	ASR6	Sunny	9:27	1-hour TSP	77	ug/m3
TMCLKL	HY/2012/08	14/10/2019	ASR6	Sunny	10:29	1-hour TSP	84	ug/m3
TMCLKL	HY/2012/08	14/10/2019	AQMS1	Sunny	12:06	24-hour TSP	72	ug/m3
TMCLKL	HY/2012/08	14/10/2019	ASR1	Sunny	11:54	24-hour TSP	83	ug/m3
TMCLKL	HY/2012/08	14/10/2019	ASR10	Sunny	11:21	24-hour TSP	41	ug/m3
TMCLKL	HY/2012/08	14/10/2019	ASR5	Sunny	11:43	24-hour TSP	116	ug/m3
TMCLKL	HY/2012/08	14/10/2019	ASR6	Sunny	11:31	24-hour TSP	65	ug/m3

Meteorological Data for Impact Monitoring in the reporting period					
Date (yy-mm-dd)	Time (24hrs)	Average of Wind Speed (m/s)	Average of Wind Direction(degree)		
19/10/14	0:00	0.4	165		
19/10/14	1:00	0.4	336		
19/10/14	2:00	0.9	77		
19/10/14	3:00	0.9	66		
19/10/14	4:00	1.3	65		
19/10/14	5:00	0.9	80		
19/10/14	6:00	0.4	178		
19/10/14	7:00	0.4	187		
19/10/14	8:00	0	-		
19/10/14	9:00	0.4	65		
19/10/14	10:00	0.4	335		
19/10/14	11:00	0.9	60		
19/10/14	12:00	1.3	64		
19/10/14	13:00	0.9	83		
19/10/14	14:00	0.9	3		
19/10/14	15:00	1.3	30		
19/10/14	16:00	1.3	344		
19/10/14	17:00	1.3	114		
19/10/14	18:00	0.4	123		
19/10/14	19:00	0.4	81		
19/10/14	20:00	0.9	65		
19/10/14	21:00	0.9	86		
19/10/14	22:00	1.3	83		
19/10/14	23:00	2.7	62		





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

Weekly Water Spraying Record 每週灌水檢查記錄

_									
Sit Da		登位置: 月:		Northern Landfall 14 Oct 2019 to 至 10 Oct 2019					
		4,	-	(000		
	Time 時間	Monday 星期一	Tuesday 星期二	Wednesday 星期三	Thursday 星期四	<u>Friday</u> 星期五	Saturday 星期六	Sunday 星期日	
1	8:00 - 8:45				_	1		_	
2	8:45 - 9:30	_		_	_	/			
3	9:30 - 10:15							/	
4	10:15 - 11:00				/	/		_	
5	11:00 - 11:45	_						/	
6	11:45 – 12:30					/			
7	12:30 - 13:15		/					/	
8	13:15 – 14:00	_		_					
9	14:00 – 14:45	_			_		-	/	
10	14:45 – 15:30							_	
11	15:30 – 16:45						_	_	
12	16:45 – 17:30							/	
	Verified by Site Foreman 地盤科文簽署確認	7	7	7	7	7	7	7	
Nigl	nt shift 夜間工作 (i	if necessary	如需要)						
	17:30 – 19:00								
	19:00 – 20:30								
	20:30 – 22:00								
	22:00 – 23:00								

*Please -

tick ($\sqrt{}$) in the box if complete the spraying of water. circle (O) in the box if it is raining.

*如果 - 已經完成灑水,請於方格內加上剔號(√)。 是下兩天, 請於方格內加上圓圈(O)。

Remarks:

- (1) Pursuant to EP Clause 3.15, the Permit Holder shall undertake watering at least 12 times per day on all exposed soil within the Project site and associated work areas in Tuen Mun area throughout the construction phase.
- (2) Spraying position includes the main haul road, open area, slopes, stockpiles and any other dusty materials.
- (3) If it is raining, no water spraying is needed.
- (4) The no of spraying will be increased due to site condition.

備註:

- (1) 根據環境許可證 3. 15 條例,在整個施工階段內,許可證持有人須每天至少 12 次在屯門區項目工地和相關的工作區域內的所有暴露土壤灑水。
- (2) 灑水位置包括主要運輸道路,空曠地帶,斜坡,存料堆,以及任何其他產生塵埃物料。
- (3) 當下雨時, 地盤將不需要灑水。
- (4) 如果地盤情況更改或有需要時,灑水次數會相應增加。

Email message

Environmental Resources Management

To Ramboll Hong Kong, Limited (ENPO)

2507, 25/F One Harbourfront 18 Tak Fung Street Hunghom, Kowloon

Hunghom, Kowl

From ERM- Hong Kong, Limited

Telephone: (852) 2271 3000 Facsimile: (852) 2723 5660

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 24 October 2019



Dear Sir or Madam,

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

0212330_17October2019_1hrTSP_Station ASR1 0212330_17October2019_1hrTSP_Station ASR1

Two Action Level Exceedances were recorded on 17 October 2019.

Regards,

Dr Jasmine Ng

Environmental Team Leader

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ERM-Hong Kong, Limited



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

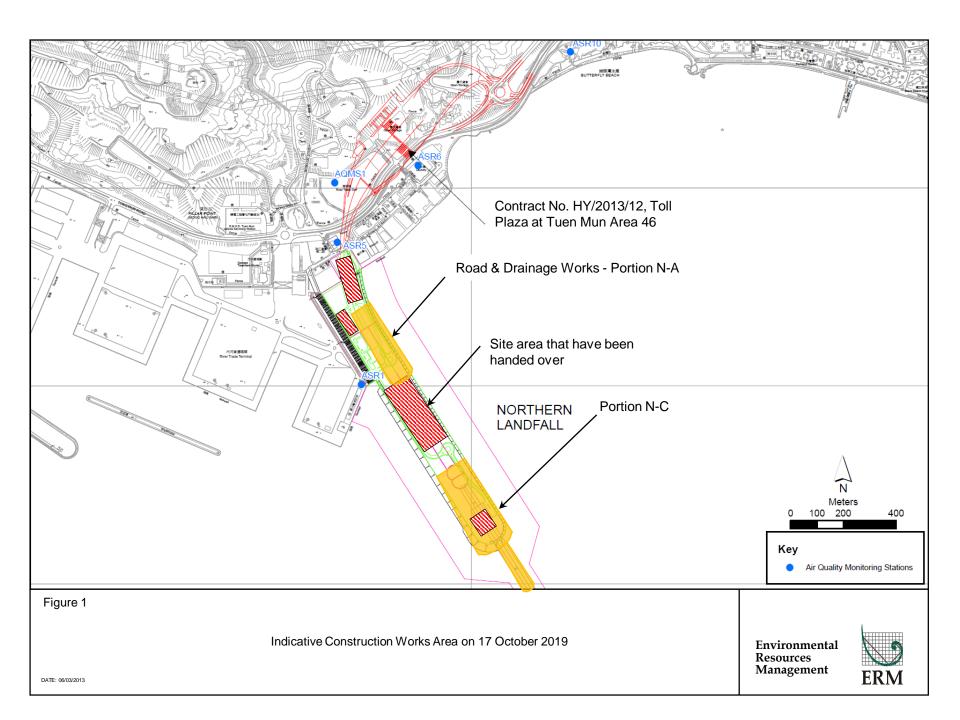
Air Quality Impact Monitoring Notification of Exceedance

Log No.	Action Level Exceedance						
	0212330_17October2019_1hrTSP_Station ASR1						
	0212330_17October2019_1hrTSP_Station ASR1						
	[Total No. of Exceedances = 2]						
Date		17 October 2019 (Measured)					
		r 2019 (Laboratory results received by ERM)					
Monitoring Station	AS	SR1, ASR5, ASR6, ASR10 and AQMS1					
Parameter(s) with Exceedance(s)		1-hr TSP					
Action Levels	24-hr TSP (μg/m³)	ASR1 = 213					
		ASR5 = 238					
		AQMS1 = 213					
		ASR6 = 238					
		ASR10 = 214					
	1-hr TSP (μg/m³)	ASR1 = 331					
		ASR5 = 340					
		AQMS1 = 335					
		ASR6 = 338					
		ASR10 = 337					
Limit Levels	1-hr TSP (μg/m³)	500					
	24-hr TSP (μg/m³)	260					
Measured Levels	Action Level Exceedance for 1-hr TSP is observed at ASR1 (354 $\mu g/m3$) during 0941 – 1041 hrs.						
	Action Level Exceedance for 1-hr TSP is observed at ASR1 (385 μg/m3) during 1043 – 1143 hrs.						
Works Undertaken (at	On 17 October 2019, Road and Drainage Works were carried out on site.						
the time of monitoring							
event)							
Possible Reason for	The exceedance is unlikely to be due to this Contract, in view of the following:						
Action or Limit Level	According to the construction information provided by the Contractor, only Road and						
Exceedance(s)	Drainage Works were carried out on site on 17 October 2019.						
	The exceedance is unlikely to be due to this Contract as dust suppression measures were						
	implemented properly on site. Water spraying was applied on site to prevent dust. Water						
	spraying was also applied on exposed soil within the Project site and associated works areas. • With reference to the recorded wind direction (ranged between 67° and 98°, blowing from a						
	north-easterly direction) and wind speed (ranged between 1.3 and 1.8 m/s) during the works						
	period, Stations ASR1 are located downstream to the construction works at Portion N-A.						
	_	rainage Works was carried out at Portion N-A on 17 October 2019,					
	which are unlikely to cause significant dust impact. Based on the above, the exceedance is unlikely to be due to this Contract.						
		<i>J</i>					

Actions Taken / To Be Taken	The Contractor has been reminded to implement the required mitigation measures as per the EP, approved EIA and Updated EM&A Manual including watering to maintain all exposed road surfaces and dust sources wet, use of sprinklers for water spraying, covering the materials having the potential to create dust by clean tarpaulin, use of water truck and watering on all exposed soil within the Project site throughout the construction period.
Remarks	The monitoring results, wind data and the locations of air quality monitoring stations are attached.

Project	Contract	Date	Station	Weather	Start time	Parameters	Results	Unit
TMCLKL	HY/2012/08	17/10/2019	AQMS1	Sunny	8:50	1-hour TSP	103	ug/m3
TMCLKL	HY/2012/08	17/10/2019	AQMS1	Sunny	9:52	1-hour TSP	114	ug/m3
TMCLKL	HY/2012/08	17/10/2019	AQMS1	Sunny	10:54	1-hour TSP	110	ug/m3
TMCLKL	HY/2012/08	17/10/2019	ASR1	Sunny	8:39	1-hour TSP	331	ug/m3
TMCLKL	HY/2012/08	17/10/2019	ASR1	Sunny	9:41	1-hour TSP	354	ug/m3
TMCLKL	HY/2012/08	17/10/2019	ASR1	Sunny	10:43	1-hour TSP	385	ug/m3
TMCLKL	HY/2012/08	17/10/2019	ASR10	Sunny	8:04	1-hour TSP	68	ug/m3
TMCLKL	HY/2012/08	17/10/2019	ASR10	Sunny	9:06	1-hour TSP	73	ug/m3
TMCLKL	HY/2012/08	17/10/2019	ASR10	Sunny	10:08	1-hour TSP	68	ug/m3
TMCLKL	HY/2012/08	17/10/2019	ASR5	Sunny	8:27	1-hour TSP	288	ug/m3
TMCLKL	HY/2012/08	17/10/2019	ASR5	Sunny	9:29	1-hour TSP	230	ug/m3
TMCLKL	HY/2012/08	17/10/2019	ASR5	Sunny	10:31	1-hour TSP	165	ug/m3
TMCLKL	HY/2012/08	17/10/2019	ASR6	Sunny	8:15	1-hour TSP	128	ug/m3
TMCLKL	HY/2012/08	17/10/2019	ASR6	Sunny	9:17	1-hour TSP	112	ug/m3
TMCLKL	HY/2012/08	17/10/2019	ASR6	Sunny	10:19	1-hour TSP	96	ug/m3
TMCLKL	HY/2012/08	17/10/2019	AQMS1	Sunny	11:56	24-hour TSP	64	ug/m3
TMCLKL	HY/2012/08	17/10/2019	ASR1	Sunny	11:45	24-hour TSP	144	ug/m3
TMCLKL	HY/2012/08	17/10/2019	ASR10	Sunny	11:10	24-hour TSP	56	ug/m3
TMCLKL	HY/2012/08	17/10/2019	ASR5	Sunny	11:33	24-hour TSP	100	ug/m3
TMCLKL	HY/2012/08	17/10/2019	ASR6	Sunny	11:21	24-hour TSP	81	ug/m3

Meteorological Data for Impact Monitoring in the reporting period										
Date (yy-mm-dd)	Time (24hrs)	Average of Wind Speed (m/s)	Average of Wind Direction(degree)							
19/10/17	0:00	0.4	153							
19/10/17	1:00	0.4	108							
19/10/17	2:00	0.4	7							
19/10/17	3:00	0.4	69							
19/10/17	4:00	0.4	183							
19/10/17	5:00	0	-							
19/10/17	6:00	0.4	111							
19/10/17	7:00	1.3	101							
19/10/17	8:00	2.2	67							
19/10/17	9:00	1.8	84							
19/10/17	10:00	1.3	98							
19/10/17	11:00	1.8	67							
19/10/17	12:00	1.3	98							
19/10/17	13:00	1.8	44							
19/10/17	14:00	1.3	56							
19/10/17	15:00	0.9	74							
19/10/17	16:00	0.9	27							
19/10/17	17:00	0.9	329							
19/10/17	18:00	0.9	345							
19/10/17	19:00	0.9	356							
19/10/17	20:00	0.9	337							
19/10/17	21:00	0.9	351							
19/10/17	22:00	1.3	335							
19/10/17	23:00	1.3	339							





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

Weekly Water Spraying Record 每週灌水檢查記錄

_								
Sit Da		登位置: 月:		rthern Landf		~ (c	Och roll	7
		4,	-	(000	
	Time 時間	Monday 星期一	Tuesday 星期二	Wednesday 星期三	Thursday 星期四	<u>Friday</u> 星期五	Saturday 星期六	Sunday 星期日
1	8:00 - 8:45				_	1		_
2	8:45 - 9:30				_	/	_	
3	9:30 - 10:15							/
4	10:15 - 11:00				/	/	~	_
5	11:00 - 11:45							/
6	11:45 – 12:30	_				/		
7	12:30 - 13:15		/					/
8	13:15 – 14:00	_		_				
9	14:00 – 14:45	_			_		-	/
10	14:45 – 15:30			_			_	_
11	15:30 – 16:45							_
12	16:45 – 17:30							/
	Verified by Site Foreman 地盤科文簽署確認	7	7	7	7	7	7	7
Nigl	nt shift 夜間工作 (i	if necessary	如需要)					
	17:30 – 19:00							
	19:00 – 20:30							
	20:30 – 22:00							
	22:00 – 23:00							

*Please -

tick ($\sqrt{}$) in the box if complete the spraying of water. circle (O) in the box if it is raining.

*如果 - 已經完成灑水,請於方格內加上剔號(√)。 是下兩天, 請於方格內加上圓圈(O)。

Remarks:

- (1) Pursuant to EP Clause 3.15, the Permit Holder shall undertake watering at least 12 times per day on all exposed soil within the Project site and associated work areas in Tuen Mun area throughout the construction phase.
- (2) Spraying position includes the main haul road, open area, slopes, stockpiles and any other dusty materials.
- (3) If it is raining, no water spraying is needed.
- (4) The no of spraying will be increased due to site condition.

備註:

- (1) 根據環境許可證 3. 15 條例,在整個施工階段內,許可證持有人須每天至少 12 次在屯門區項目工地和相關的工作區域內的所有暴露土壤灑水。
- (2) 灑水位置包括主要運輸道路,空曠地帶,斜坡,存料堆,以及任何其他產生塵埃物料。
- (3) 當下雨時, 地盤將不需要灑水。
- (4) 如果地盤情況更改或有需要時,灑水次數會相應增加。

Email message **Environmental** Resources Management

To Ramboll Hong Kong Limited (ENPO) 2507,

From

ERM- Hong Kong, Limited

25/F One Harbourfront, 18 Tak Fung Street, Hung Hom, Hong Kong Telephone: (852) 2271 3113 Facsimile: (852) 2723 5660

Ref/Project number

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

Section

E-mail: jasmine.ng@erm.com

Subject Notification of Exceedance for Water Quality

Impact Monitoring

Date 17 October 2019

Dear Sir or Madam,

Please find the Notification of Exceedance (NOE) of the following Log no.: **Action Level Exceedance** 0212330_2 October 2019_ Depth_averaged SS_F_Station SR7

A total of one Action Level exceedance was recorded on 2 October 2019.

Dr Jasmine Ng

Environmental Team Leader

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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.		Action Level Exceedance
	0212330_2 Oct	ober 2019_ Depth_averaged SS_F_Station SR7
		[Total No. of Exceedances = 1]
Date		2 October 2019 (Measured)
	4 Octob	er 2019 (In situ results received by ERM)
	11 October	2019 (Laboratory results received by ERM)
Monitoring	CS(Mf)5, SR4a, SR4(N2),	IS8(N), IS(Mf)16, IS(Mf)9, CS(Mf)3(N), SR7, IS17, IS(Mf)11
Station		
Parameter(s)		
with		Suspended solids (mg/L)
Exceedance(Suspended solids (hig/ E)
s)		
Action	SS	120% of upstream control station at the same tide of the same day and
Levels		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 and 99%-ile of baseline
		data, i.e., 34.4 mg/L
Measured	Action Level Exceedance	
Levels	1. Mid-flood at SR7 (Depth-averaged S	G. ,
Works		the Contractor, Seawall Modification Works was carried out on 2 October
Undertaken	2019.	
(at the time		
of		
monitoring		
event)	The constitution of the first test of the first	L. Control to the Oliver
Possible Reason for	The exceedances are unlikely to be due to t	Ü
Action or	-	at all monitoring stations were in compliance with the Action and Limit
Limit Level	Levels during both mid-ebb and mid	•
Exceedance(wall Modification Works Area (Figure 1), thus the observed exceedance
s)	related to this Contract.	works under this Contract. Therefore, the exceedance is unlikely to be
,		016 which is the classest station to the Coarrell Medification World Area
	·	f)16 which is the closest station to the Seawall Modification Works Area
	unlikely to be caused by the marine v	ide. Therefore, exceedance recorded at SR7 during mid-flood tide is
Actions	-	ry. The ET will monitor for future trends in exceedances.
Taken/To	Two miniection detion is considered necessar	13. The 11 will informed for ruttile defines in exceedances.
Be Taken		
Remarks	The monitoring results on 2 October 2019 a	nd locations of water quality monitoring stations are attached.
	0	The state of the s

Project	Contract	Date (yyyy- mm-dd)	Tide	Station	Start Time	Level	Lev_Cod	Replicate	Temperature (°C)	pН	Salinity (ppt)	DO (mg/L)	Average DO (mg/L)	Turbidity (NTU)	Depth- Averaged Turbidity	SS (mg/L)	Depth- Averaged SS
TMCLKL	HY/2012/08	2019/10/02	Mid-Ebb	CS(Mf)5	15:37	Surface	1	1	29.6	7.9	26.4	5.3		5.0		8.9	
TMCLKL	HY/2012/08	2019/10/02	Mid-Ebb	CS(Mf)5	15:37	Surface	1	2	28.6	7.9	25.0	5.5	5.4	4.9		8.7	
TMCLKL	HY/2012/08	2019/10/02	Mid-Ebb	CS(Mf)5	15:37	Middle	2	1	29.5	7.9	26.7	5.2	J.4	6.4	8.5	9.8	9.9
TMCLKL	HY/2012/08	2019/10/02	Mid-Ebb	CS(Mf)5	15:37	Middle	2	2	28.5	7.9	25.1	5.4		6.1	0.5	10.2	7.7
TMCLKL	HY/2012/08	2019/10/02	Mid-Ebb	CS(Mf)5	15:37	Bottom	3	1	29.3	7.9	26.6	5.1	5.2	14.4		11.0	
TMCLKL	HY/2012/08	2019/10/02	Mid-Ebb	CS(Mf)5	15:37	Bottom	3	2	28.4	7.9	25.5	5.3	5.2	14.2		10.6	
TMCLKL	HY/2012/08	2019/10/02	Mid-Ebb	CS(Mf)3(N)	14:58	Surface	1	1	29.7	7.9	26.6	5.6	4	4.9	-	8.4	
TMCLKL	HY/2012/08	2019/10/02	Mid-Ebb	CS(Mf)3(N)	14:58	Surface	1	2	28.7	7.9	24.2	5.7	5.5	4.6	-	8.0	
TMCLKL	HY/2012/08	2019/10/02	Mid-Ebb	CS(Mf)3(N)	14:58	Middle	2	1	29.4	7.9	26.5	5.3	4	9.8	9.3	10.9	10.5
TMCLKL	HY/2012/08	2019/10/02	Mid-Ebb	CS(Mf)3(N)	14:58	Middle	2	2	28.4	7.9	24.5	5.5		9.2		10.7	
TMCLKL	HY/2012/08	2019/10/02	Mid-Ebb	CS(Mf)3(N)	14:58	Bottom	3	1	29.4	7.9	26.5	5.3	5.4	13.9	4	12.2	
TMCLKL	HY/2012/08	2019/10/02	Mid-Ebb	CS(Mf)3(N)	14:58	Bottom	3	2	28.4	7.9	24.7	5.5		13.2		12.5	
TMCLKL	HY/2012/08	2019/10/02	Mid-Ebb	IS(Mf)16	14:14	Surface	1	2	29.7	7.9	26.4	5.7	-	5.3	1	11.6	
TMCLKL	HY/2012/08 HY/2012/08	2019/10/02	Mid-Ebb	IS(Mf)16	14:14	Surface	2	<u></u>	28.7	7.9	24.9	5.9	5.8	5.4	1	11.9	
TMCLKL TMCLKL	HY/2012/08 HY/2012/08	2019/10/02 2019/10/02	Mid-Ebb Mid-Ebb	IS(Mf)16 IS(Mf)16	14:14 14:14	Middle Middle	2	2							5.6		12.0
TMCLKL	HY/2012/08 HY/2012/08	2019/10/02	Mid-Ebb	IS(MI)16 IS(Mf)16	14:14	Bottom	2		29.7	7.9	26.7	5.7		6.0		12.3	
TMCLKL	HY/2012/08	2019/10/02	Mid-Ebb	IS(Mf)16	14:14	Bottom	3	2	28.7	7.9	25.0	5.7	5.8	5.7	1	12.0	
TMCLKL	HY/2012/08	2019/10/02	Mid-Ebb	SR4a	14:14	Surface	1	1	29.6	7.9	26.6	5.8		4.5		8.0	
TMCLKL	HY/2012/08	2019/10/02	Mid-Ebb	SR4a	14:04	Surface	1	7	28.9	7.9	24.7	6.0		4.5	1	7.7	
TMCLKL	HY/2012/08	2019/10/02	Mid-Ebb	SR4a	14:04	Middle	2	1	۷٠.)	1.7	∠⊤.1	0.0	5.9	⊤•∪	-	1.1	
TMCLKL	HY/2012/08	2019/10/02	Mid-Ebb	SR4a	14:04	Middle	2	2.					1		5.2		8.5
TMCLKL	HY/2012/08	2019/10/02	Mid-Ebb	SR4a	14:04	Bottom	3	1	29.5	7.9	26.5	5.5		6.0	1	8.9	
TMCLKL	HY/2012/08	2019/10/02	Mid-Ebb	SR4a	14:04	Bottom	3	2	28.5	7.9	24.9	5.6	5.6	5.8	-	9.4	
TMCLKL	HY/2012/08	2019/10/02	Mid-Ebb	SR4(N2)	14:00	Surface	1	1	30.0	7.9	26.6	5.8		5.1		8.3	
			Mid-Ebb	SR4(N2)	14:00	Surface	1	2	29.0	7.9	24.7	6.0	1	5.0	1	8.0	
	HY/2012/08	2019/10/02	Mid-Ebb	SR4(N2)	14:00	Middle	2	1	-,				5.9		.		0.0
	HY/2012/08		Mid-Ebb	SR4(N2)	14:00	Middle	2	2					1		5.4		8.3
TMCLKL	HY/2012/08	2019/10/02	Mid-Ebb	SR4(N2)	14:00	Bottom	3	1	30.0	7.9	26.5	5.9	(0	5.4	1	8.4	
TMCLKL	HY/2012/08	2019/10/02	Mid-Ebb	SR4(N2)	14:00	Bottom	3	2	29.0	7.9	24.7	6.1	6.0	6.0		8.6	
TMCLKL	HY/2012/08	2019/10/02	Mid-Ebb	IS8(N)	13:54	Surface	1	1	29.9	7.9	26.3	5.8		5.6		11.2	
TMCLKL	HY/2012/08	2019/10/02	Mid-Ebb	IS8(N)	13:54	Surface	1	2	28.9	7.9	24.8	6.0	5.9	5.5		11.1	
TMCLKL	HY/2012/08	2019/10/02	Mid-Ebb	IS8(N)	13:54	Middle	2	1					3.9		6.1		11.2
TMCLKL	HY/2012/08	2019/10/02	Mid-Ebb	IS8(N)	13:54	Middle	2	2							0.1		11.2
		2019/10/02	Mid-Ebb	IS8(N)	13:54	Bottom	3	1	29.8	7.9	26.7	5.8	5.9	6.2		11.3	
TMCLKL	HY/2012/08	2019/10/02	Mid-Ebb	IS8(N)	13:54	Bottom	3	2	28.8	7.9	24.9	6.0	3.7	6.9		11.1	
TMCLKL	HY/2012/08	2019/10/02	Mid-Ebb	IS(Mf)9	13:48	Surface	1	1	29.8	7.9	26.5	5.6	4	7.4		10.8	
	HY/2012/08		Mid-Ebb	IS(Mf)9	13:48	Surface	1	2	28.8	7.9	25.1	5.7	5.7	7.3		10.9	
TMCLKL	HY/2012/08	2019/10/02	Mid-Ebb	IS(Mf)9	13:48	Middle	2	1		\vdash			-		10.5		12.0
	HY/2012/08		Mid-Ebb	IS(Mf)9	13:48	Middle	2	2	20.7		26.7	·		10.7	-	10.1	
TMCLKL	HY/2012/08	2019/10/02	Mid-Ebb	IS(Mf)9	13:48	Bottom	3	1	29.5	7.9	26.5	5.4	5.5	13.5	-	13.1	
TMCLKL	HY/2012/08	2019/10/02	Mid-Ebb	IS(Mf)9	13:48	Bottom	1	1	28.5	7.9	25.1	5.5		13.6		13.3	
	HY/2012/08	2019/10/02	Mid-Ebb	IS(Mf)11	14:29	Surface	1	2	29.8	7.9	26.7	5.6 5.7	-	5.4	-	9.7	
TMCLKL	HY/2012/08	2019/10/02	Mid-Ebb	IS(Mf)11	14:29	Surface	2	<u></u>	28.8	7.9	24.4	5.7 5.4	5.6	5.1	1	10.1	
TMCLKL TMCLKL	HY/2012/08 HY/2012/08	2019/10/02 2019/10/02	Mid-Ebb Mid-Ebb	IS(Mf)11 IS(Mf)11	14:29 14:29	Middle Middle	2	2	29.6 28.6	7.9	26.4 24.8	5.4 5.6	-	6.2 6.6	6.6	11.7 12.0	10.9
TMCLKL	HY/2012/08	2019/10/02	Mid-Ebb	IS(Mf)11	14:29	Bottom	2		28.0	7.9	24.8	5.6		8.1	-	10.6	
TMCLKL	HY/2012/08	2019/10/02	Mid-Ebb	IS(Mf)11	14:29	Bottom	3	2	28.5	7.9	24.9	5.6	5.5	8.1	†	11.0	
	HY/2012/08	2019/10/02	Mid-Ebb	SR7	15:21	Surface	<u>J</u>	1	29.7	7.9	26.4	5.6		6.4		9.0	
	HY/2012/08		Mid-Ebb	SR7	15:21	Surface	1	2.	28.7	7.9	24.3	5.7		6.4	1	8.7	
	HY/2012/08	2019/10/02	Mid-Ebb	SR7	15:21	Middle	2.	1	20.1	1.7	41.0	5.1	5.7	U•T		0.7	
	HY/2012/08		Mid-Ebb	SR7	15:21	Middle	2	2					1		7.4		9.7
TMCLKL	HY/2012/08	2019/10/02	Mid-Ebb	SR7	15:21	Bottom	3	1	29.5	7.9	26.7	5.6	_	8.7		10.4	
	HY/2012/08	2019/10/02	Mid-Ebb	SR7	15:21	Bottom	3	2	28.5	7.9	24.6	5.7	5.7	8.0	1	10.4	
	HY/2012/08		Mid-Ebb	IS17	14:21	Surface	1	1	29.7	7.9	26.4	5.4		6.8		8.3	
	HY/2012/08	2019/10/02	Mid-Ebb	IS17	14:21	Surface	1	2	28.7	7.9	24.8	5.6	1	6.4	1	8.2	
			Mid-Ebb	IS17	14:21	Middle	2	1	29.5	7.9	26.6	5.3	5.5	9.3	0.5	8.8	0.4
			Mid-Ebb	IS17	14:21	Middle	2	2	28.5	7.9	25.0	5.5	1	10.0	8.5	9.4	9.4

Project	Contract	Date (yyyy- mm-dd)	Tide	Station	Start Time	Level	Lev_Cod	Replicate	Temperature (°C)	рH	Salinity (ppt)	DO (mg/L)	Average DO (mg/L)	Turbidity (NTU)	Depth- Averaged Turbidity	SS (mg/L)	Depth- Averaged SS
TMCLKL	HY/2012/08	2019/10/02	Mid-Ebb	IS17	14:21	Bottom	3	1	29.5	7.9	26.6	5.4	5.5	9.5		10.8	
TMCLKL	HY/2012/08	2019/10/02	Mid-Ebb	IS17	14:21	Bottom	3	2	28.5	7.9	25.1	5.6	5.5	9.2		10.6	
TMCLKL	HY/2012/08	2019/10/02	Mid-flood	CS(Mf)5	9:05	Surface	1	1	29.5	7.9	26.7	5.4		5.1		8.7	
TMCLKL	HY/2012/08	2019/10/02	Mid-flood	CS(Mf)5	9:05	Surface	1	2	28.5	7.9	24.8	5.5	5.4	5.1		8.7	
TMCLKL TMCLKL	HY/2012/08 HY/2012/08	2019/10/02 2019/10/02	Mid-flood Mid-flood	CS(Mf)5 CS(Mf)5	9:05 9:05	Middle Middle	2	2	29.3 28.3	7.9 7.9	26.6 25.1	5.2 5.4		11.7 12.6	10.7	8.6	8.9
TMCLKL	HY/2012/08	2019/10/02	Mid-flood	CS(Mf)5	9:05	Bottom	3	1	29.3	7.9	26.5	5.1		14.9		9.4	-
TMCLKL	HY/2012/08	2019/10/02	Mid-flood	CS(Mf)5	9:05	Bottom	3	2	28.3	7.9	25.5	5.2	5.2	15.0		9.2	1
TMCLKL	HY/2012/08	2019/10/02	Mid-flood	CS(Mf)3(N)	9:48	Surface	1	1	29.4	7.9	26.1	5.4		10.3		20.2	
TMCLKL	HY/2012/08	2019/10/02	Mid-flood	CS(Mf)3(N)	9:48	Surface	1	2	28.4	7.9	24.3	5.6	5.5	10.2		20.5]
TMCLKL	HY/2012/08	2019/10/02	Mid-flood	CS(Mf)3(N)	9:48	Middle	2	1	29.4	7.9	26.4	5.4	J.5	13.6	14.1	23.3	22.6
TMCLKL	HY/2012/08	2019/10/02	Mid-flood	CS(Mf)3(N)	9:48	Middle	2	2	28.4	7.9	24.3	5.6		13.9		23.1	1
TMCLKL TMCLKL	HY/2012/08 HY/2012/08	2019/10/02	Mid-flood Mid-flood	CS(Mf)3(N) CS(Mf)3(N)	9:48 9:48	Bottom Bottom	3	2	29.4 28.4	7.9 7.9	26.7 24.3	5.5 5.7	5.6	18.3 18.2		24.3 24.2	1
TMCLKL	HY/2012/08	2019/10/02	Mid-flood	IS(Mf)16	10:31	Surface	1	1	29.4	7.9	26.5	5.5		13.3		21.0	
TMCLKL	HY/2012/08	2019/10/02	Mid-flood	IS(Mf)16	10:31	Surface	1	2	28.5	7.9	24.7	5.7		13.1	1	21.2	1
TMCLKL	HY/2012/08	2019/10/02	Mid-flood	IS(Mf)16	10:31	Middle	2	1					5.6		12.8		21.3
TMCLKL	HY/2012/08	2019/10/02	Mid-flood	IS(Mf)16	10:31	Middle	2	2							12.0		21.3
TMCLKL	HY/2012/08	2019/10/02	Mid-flood	IS(Mf)16	10:31	Bottom	3	1	29.4	7.9	26.6	5.5	5.6	12.4		21.5	4
TMCLKL	HY/2012/08	2019/10/02	Mid-flood	IS(Mf)16	10:31	Bottom	3	2	28.4	7.9	24.8	5.7		12.2		21.6	
TMCLKL TMCLKL	HY/2012/08 HY/2012/08	2019/10/02	Mid-flood Mid-flood	SR4a SR4a	10:40 10:40	Surface Surface	1	2	29.3 28.3	7.9 7.9	26.4 24.9	5.4 5.6		5.8 5.9		9.3	1
TMCLKL	HY/2012/08	2019/10/02	Mid-flood	SR4a	10:40	Middle	2.	1	20.3	1.9	24.9	3.0	5.5	3.9		9.4	
TMCLKL	HY/2012/08	2019/10/02	Mid-flood	SR4a	10:40	Middle	2	2					1		5.8		10.1
TMCLKL	HY/2012/08	2019/10/02	Mid-flood	SR4a	10:40	Bottom	3	1	29.3	7.9	26.5	5.5	5.6	6.0		10.7]
TMCLKL	HY/2012/08	2019/10/02	Mid-flood	SR4a	10:40	Bottom	3	2	28.3	7.9	25.0	5.7	3.0	5.3		11.0	
	1		Mid-flood		10:45	Surface	1	1	29.3	7.9	26.4	5.4		8.2		11.1	<u> </u>
TMCLKL	HY/2012/08	2019/10/02		SR4(N2)	10:45	Surface	1	2	28.3	7.9	25.0	5.6	5.5	8.6		10.7	
TMCLKL TMCLKL	HY/2012/08 HY/2012/08	2019/10/02 2019/10/02		SR4(N2) SR4(N2)	10:45 10:45	Middle Middle	2 2	2					-		10.1		15.1
TMCLKL	HY/2012/08	2019/10/02		SR4(N2)	10:45	Bottom	3	<u>Z</u>	29.3	7.9	26.6	5.4		11.7		19.4	-
TMCLKL	HY/2012/08	2019/10/02		SR4(N2)	10:45	Bottom	3	2	28.3	7.9	25.0	5.6	5.5	11.7		19.1	1
TMCLKL	HY/2012/08	2019/10/02	Mid-flood	IS8(N)	10:51	Surface	1	1	29.5	7.9	26.5	5.6		5.6		8.4	
TMCLKL	HY/2012/08	2019/10/02	Mid-flood	IS8(N)	10:51	Surface	1	2	28.5	7.9	24.7	5.7	5.7	5.4		8.1]
TMCLKL	HY/2012/08	2019/10/02	Mid-flood	IS8(N)	10:51	Middle	2	1					3.7		6.0		8.6
TMCLKL	HY/2012/08	2019/10/02	Mid-flood	IS8(N)	10:51	Middle	2	2	20.5	7.0	267	5.7			0.0	0.6	-
TMCLKL TMCLKL	HY/2012/08 HY/2012/08	2019/10/02	Mid-flood Mid-flood	IS8(N) IS8(N)	10:51 10:51	Bottom Bottom	3	2	29.5 28.5	7.9 7.9	26.7 24.8	5.7 5.8	5.8	6.4		8.6 9.1	1
TMCLKL	HY/2012/08	2019/10/02	Mid-flood	IS(Mf)9	10.51	Surface	1	1	29.4	7.9	26.5	5.4		8.2		11.9	
TMCLKL	HY/2012/08	2019/10/02	Mid-flood	IS(Mf)9	10:59	Surface	1	2	28.4	7.9	25.1	5.6		8.6		12.3	1
TMCLKL	HY/2012/08	2019/10/02	Mid-flood	IS(Mf)9	10:59	Middle	2	1					5.5		0.6		10.7
TMCLKL	HY/2012/08	2019/10/02	Mid-flood	IS(Mf)9	10:59	Middle	2	2							8.6		12.7
TMCLKL	HY/2012/08	2019/10/02	Mid-flood	IS(Mf)9	10:59	Bottom	3	1	29.3	7.9	26.2	5.5	5.6	8.8		13.4]
TMCLKL	HY/2012/08	2019/10/02	Mid-flood	IS(Mf)9	10:59	Bottom	3	2	28.3	7.9	25.1	5.7		8.9		13.0	
TMCLKL TMCLKL	HY/2012/08 HY/2012/08	2019/10/02 2019/10/02	Mid-flood Mid-flood	IS(Mf)11 IS(Mf)11	10:17 10:17	Surface Surface	1	2	29.4 28.4	7.9 7.9	26.3 24.8	5.4 5.6		13.7 13.9		17.7 18.1	1
TMCLKL	HY/2012/08	2019/10/02	Mid-flood	IS(Mf)11	10:17	Middle	2	1	29.3	7.9	26.5	5.3	5.5	15.9	.	22.0	†
TMCLKL	HY/2012/08	2019/10/02	Mid-flood	IS(Mf)11	10:17	Middle	2	2	28.3	7.9	24.8	5.5	1	15.7	15.2	21.6	18.6
TMCLKL	HY/2012/08	2019/10/02	Mid-flood	IS(Mf)11	10:17	Bottom	3	1	29.3	7.9	26.8	5.4	5.5	16.3		16.3]
TMCLKL	HY/2012/08	2019/10/02	Mid-flood	IS(Mf)11	10:17	Bottom	3	2	28.3	7.9	24.9	5.5	ر.ر	16.4		16.0	
TMCLKL	HY/2012/08	2019/10/02		SR7	9:24	Surface	1	1	29.4	7.9	26.4	5.4		10.8		24.1	
TMCLKL	HY/2012/08	2019/10/02		SR7	9:24	Surface	1	2	28.4	7.9	24.7	5.5	5.5	10.8		24.4	
TMCLKL TMCLKL	HY/2012/08 HY/2012/08	2019/10/02 2019/10/02		SR7 SR7	9:24 9:24	Middle Middle	2 2	2							11.8		26.2
TMCLKL	HY/2012/08 HY/2012/08	2019/10/02		SR7	9:24	Bottom	3	1	29.4	7.9	26.5	5.4		12.7	-	28.3	
TMCLKL	HY/2012/08	2019/10/02		SR7	9:24	Bottom	3	2	28.4	7.9	24.7	5.6	5.5	12.7		27.9	
TMCLKL	HY/2012/08	2019/10/02		IS17	10:24	Surface	1	1	29.5	7.9	26.8	5.4		7.6		10.5	
TMCLKL	HY/2012/08	2019/10/02	Mid-flood	IS17	10:24	Surface	1	2	28.5	8.0	24.9	5.5	5.4	7.3		10.8]
				IS17	10:24	Middle	2	1	29.3	7.9	26.6	5.3	J. '1	14.3	13.1	14.9	15.3
	HY/2012/08	2019/10/02		IS17	10:24	Middle	2	2	28.3	7.9	24.9	5.5		14.4		15.1	
	HY/2012/08	2019/10/02		IS17	10:24	Bottom	3	2	29.3	7.9	26.3	5.4 5.7	5.6	17.7		19.8	-
TWICLKL	HY/2012/08	2019/10/02	Mid-flood	IS17	10:24	Bottom	3	2	28.3	7.9	24.9	5.7		17.2		20.4	

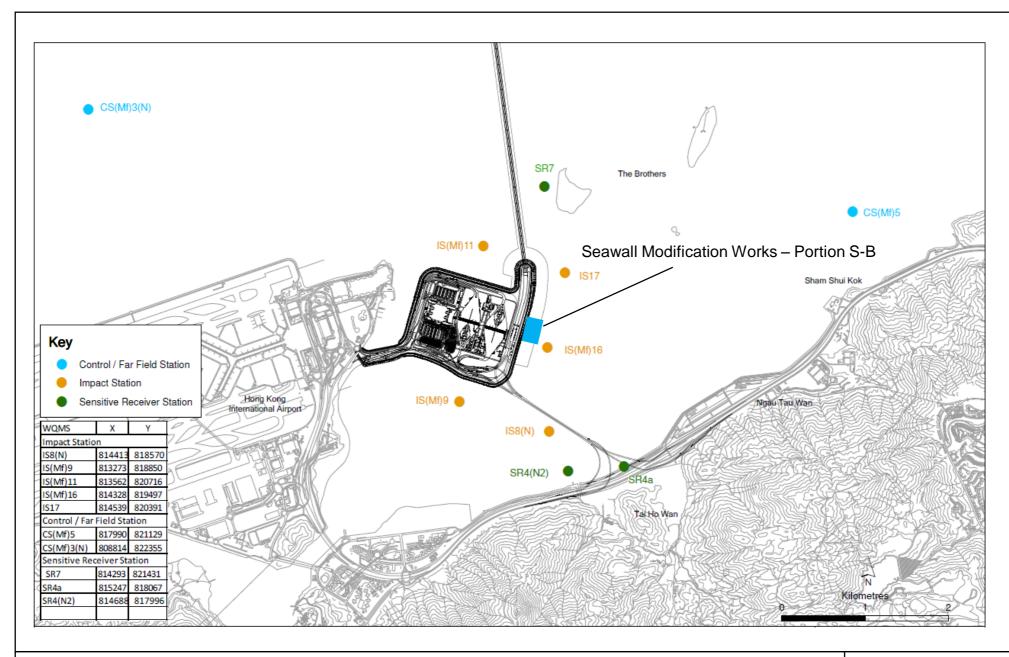


Figure 1





Email message Environmental Resources Management

To Ramboll Hong Kong Limited (ENPO)

2507,

From

Subject

ERM- Hong Kong, Limited

25/F One Harbourfront, 18 Tak Fung Street, Hung Hom, Hong Kong Telephone: (852) 2271 3113 Facsimile: (852) 2723 5660

E-mail: jasmine.ng@erm.com

Ref/Project number

Contract No. HY/2012/08 Tuen Mun-Chek Lap

Kok Link-Northern Connection Sub-sea Tunnel

Section

Section

Notification of Exceedance for Water Quality

Impact Monitoring

EDM

Date 6 November 2019

Dear Sir or Madam,

Please find the Notification of Exceedance (NOE) of the following Log no.: <u>Action Level Exceedance</u> 0212330_28 October 2019_ Depth_averaged SS_F_Station SR7

A total of one Action Level exceedance was recorded on 28 October 2019.

Regards.

Dr Jasmine Ng

Environmental Team Leader

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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.		Action Level Exceedance								
	0212330_28 Octo	ober 2019_ Depth_averaged SS_F_Station SR7								
		[Total No. of Exceedances = 1]								
Date		28 October 2019 (Measured)								
	29 Octob	er 2019 (In situ results received by ERM)								
	5 November	2019 (Laboratory results received by ERM)								
Monitoring	CS(Mf)5, SR4a, SR4(N2), I	CS(Mf)5, SR4a, SR4(N2), IS8(N), IS(Mf)16, IS(Mf)9, CS(Mf)3(N), SR7, IS17, IS(Mf)11								
Station										
Parameter(s)										
with		Suspended solids (mg/L)								
Exceedance(Suspended solids (Ilig/ L)								
s)										
Action	SS	120% of upstream control station at the same tide of the same day and								
Levels		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 and 99%-ile of baseline								
		data, i.e., 34.4 mg/L								
Measured	Action Level Exceedance									
Levels	1. Mid-flood at SR7 (Depth-averaged St	S = 25.4 mg/L								
Works	According to the information provided by t	he Contractor, Seawall Modification Works was carried out on 28 October								
Undertaken	2019.									
(at the time										
of										
monitoring										
event)										
Possible	The exceedances are unlikely to be due to the	<u> </u>								
Reason for	1	at all monitoring stations were in compliance with the Action and Limit								
Action or	Levels during both mid-ebb and mid-	•								
Limit Level	• ' '	vall Modification Works Area (Figure 1), thus the observed exceedance								
Exceedance(•	works under this Contract. Therefore, the exceedance is unlikely to be								
s)	related to this Contract.									
		16 which is the closest station to the Seawall Modification Works Area								
	during both mid-ebb and mid-flood tide. Therefore, exceedance recorded at SR7 during mid-flood tide is									
	unlikely to be caused by the marine works of this Contract.									
Actions	No immediate action is considered necessar	y. The ET will monitor for future trends in exceedances.								
Taken/To										
Be Taken										
Remarks	The monitoring results on 28 October 2019 a	and locations of water quality monitoring stations are attached.								

Project	Contract	Date (yyyy-mm-dd)	Tide	Station	Start Time	Level	Lev_Cod	Replicate	Temperature (°C)	рН	Salinity (ppt)	DO (mg/L)	Average DO (mg/L)	Turbidity (NTU)	Depth- Averaged Turbidity	SS (mg/L)	Depth- Averaged SS
TMCLKL	HY/2012/08	2019/10/28	Mid-Ebb	CS(Mf)5	13:26	Surface	1	1	27.6	8.2	30.1	5.6		12.1		25.4	
TMCLKL	HY/2012/08	2019/10/28	Mid-Ebb	CS(Mf)5	13:26	Surface	1	2	27.6	8.2	29.9	5.6	5.6	12.2]	26.0]
TMCLKL	HY/2012/08	2019/10/28	Mid-Ebb	CS(Mf)5	13:26	Middle	2	1	27.6	8.2	30.1	5.6] 3.0	11.2	13.1	25.0	26.1
TMCLKL	HY/2012/08	2019/10/28	Mid-Ebb	CS(Mf)5	13:26	Middle	2	2	27.6	8.2	29.9	5.6		11.2	15.1	25.6] 20.1
TMCLKL	HY/2012/08	2019/10/28	Mid-Ebb	CS(Mf)5	13:26	Bottom	3	1	27.6	8.3	30.1	5.6	5.6	16.0		27.6]
TMCLKL	HY/2012/08	2019/10/28	Mid-Ebb	CS(Mf)5	13:26	Bottom	3	2	27.6	8.3	29.9	5.6	3.0	16.1		27.1]
TMCLKL	HY/2012/08	2019/10/28	Mid-Ebb	CS(Mf)3(N)	12:40	Surface	1	1	27.5	8.2	29.5	5.8		9.6		15.0	
TMCLKL	HY/2012/08	2019/10/28	Mid-Ebb	CS(Mf)3(N)	12:40	Surface	1	2	27.5	8.2	29.3	5.8	5.8	9.4		14.6]
TMCLKL	HY/2012/08	2019/10/28	Mid-Ebb	CS(Mf)3(N)	12:40	Middle	2	1	27.5	8.3	29.7	5.9] 5.8	11.7	11.9	14.5	13.9
TMCLKL	HY/2012/08	2019/10/28	Mid-Ebb	CS(Mf)3(N)	12:40	Middle	2	2	27.5	8.3	29.5	5.8		11.6	11.9	14.1] 13.9
TMCLKL	HY/2012/08	2019/10/28	Mid-Ebb	CS(Mf)3(N)	12:40	Bottom	3	1	27.4	8.3	30.0	5.9	5.9	14.2		12.8]
TMCLKL	HY/2012/08	2019/10/28	Mid-Ebb	CS(Mf)3(N)	12:40	Bottom	3	2	27.4	8.3	29.9	5.9	3.9	14.6		12.4]
TMCLKL	HY/2012/08	2019/10/28	Mid-Ebb	IS(Mf)16	11:45	Surface	1	1	27.6	8.2	29.7	5.7		12.8		13.3	
TMCLKL	HY/2012/08	2019/10/28	Mid-Ebb	IS(Mf)16	11:45	Surface	1	2	27.6	8.2	29.6	5.7	5.7	12.8		13.7]
TMCLKL	HY/2012/08	2019/10/28	Mid-Ebb	IS(Mf)16	11:45	Middle	2	1] 3.7		15.4		15.6
TMCLKL	HY/2012/08	2019/10/28	Mid-Ebb	IS(Mf)16	11:45	Middle	2	2							15.4] 13.0
TMCLKL	HY/2012/08	2019/10/28	Mid-Ebb	IS(Mf)16	11:45	Bottom	3	1	27.5	8.2	30.0	5.6	E 6	18.0		17.2]
TMCLKL	HY/2012/08	2019/10/28	Mid-Ebb	IS(Mf)16	11:45	Bottom	3	2	27.5	8.2	29.9	5.6	5.6	17.9		18.0]
TMCLKL	HY/2012/08	2019/10/28	Mid-Ebb	SR4a	11:34	Surface	1	1	27.6	8.3	29.7	5.7		5.4		5.9	
TMCLKL	HY/2012/08	2019/10/28	Mid-Ebb	SR4a	11:34	Surface	1	2	27.6	8.3	29.6	5.7] [5.2	1	5.3	1
TMCLKL	HY/2012/08	2019/10/28	Mid-Ebb	SR4a	11:34	Middle	2	1					5.7		6.0		1
TMCLKL	HY/2012/08	2019/10/28	Mid-Ebb	SR4a	11:34	Middle	2	2					1 [6.0		6.1
TMCLKL	HY/2012/08	2019/10/28	Mid-Ebb	SR4a	11:34	Bottom	3	1	27.5	8.3	29.7	5.9	5.0	6.8		6.8	1 1
TMCLKL	HY/2012/08	2019/10/28	Mid-Ebb	SR4a	11:34	Bottom	3	2	27.5	8.3	29.6	5.8	5.9	6.7	1	6.2	1
TMCLKL	HY/2012/08	2019/10/28	Mid-Ebb	SR4(N2)	11:28	Surface	1	1	27.4	8.3	29.7	5.6		8.1		9.0	
TMCLKL	HY/2012/08	2019/10/28	Mid-Ebb	SR4(N2)	11:28	Surface	1	2	27.4	8.3	29.5	5.6	1 <u>.</u> [8.0	1	9.7	1
TMCLKL	HY/2012/08	2019/10/28	Mid-Ebb	SR4(N2)	11:28	Middle	2	1					5.6		1		1 , 1
TMCLKL	HY/2012/08	2019/10/28	Mid-Ebb	SR4(N2)	11:28	Middle	2	2					1 [8.3		9.5
TMCLKL	HY/2012/08	2019/10/28	Mid-Ebb	SR4(N2)	11:28	Bottom	3	1	27.4	8.3	29.7	5.8	г о	8.5		9.8	1
TMCLKL	HY/2012/08	2019/10/28	Mid-Ebb	SR4(N2)	11:28	Bottom	3	2	27.4	8.3	29.5	5.7	5.8	8.4		9.4	1
TMCLKL	HY/2012/08	2019/10/28	Mid-Ebb	IS8(N)	11:21	Surface	1	1	27.5	8.4	29.5	5.8		8.6		9.1	
TMCLKL	HY/2012/08	2019/10/28	Mid-Ebb	IS8(N)	11:21	Surface	1	2	27.5	8.4	29.4	5.8	1	8.4		8.9	1
TMCLKL	HY/2012/08	2019/10/28	Mid-Ebb	IS8(N)	11:21	Middle	2	1					5.8				1 , 1
TMCLKL	HY/2012/08	2019/10/28	Mid-Ebb	IS8(N)	11:21	Middle	2	2					1 [9.0		9.4
TMCLKL	HY/2012/08	2019/10/28	Mid-Ebb	IS8(N)	11:21	Bottom	3	1	27.4	8.4	29.5	6.0	6.0	9.7		10.2	1
TMCLKL	HY/2012/08	2019/10/28	Mid-Ebb	IS8(N)	11:21	Bottom	3	2	27.4	8.4	29.4	6.0	6.0	9.4	1	9.5	1
TMCLKL	HY/2012/08	2019/10/28	Mid-Ebb	IS(Mf)9	11:16	Surface	1	1	27.5	8.4	29.6	5.8		6.5		4.3	
TMCLKL	HY/2012/08	2019/10/28	Mid-Ebb	IS(Mf)9	11:16	Surface	1	2	27.5	8.4	29.5	5.8	7 <u>,</u>	6.4	1	4.2	1
TMCLKL	HY/2012/08	2019/10/28	Mid-Ebb	IS(Mf)9	11:16	Middle	2	1					5.8		6.0		1 , 1
TMCLKL	HY/2012/08	2019/10/28	Mid-Ebb	IS(Mf)9	11:16	Middle	2	2					1		6.8		4.7
TMCLKL	HY/2012/08	2019/10/28	Mid-Ebb	IS(Mf)9	11:16	Bottom	3	1	27.5	8.4	29.7	5.9	[7.0	1	5.3	1
TMCLKL	HY/2012/08	2019/10/28	Mid-Ebb	IS(Mf)9	11:16	Bottom	3	2	27.5	8.4	29.6	5.9	5.9	7.1	1	4.9	1
TMCLKL	HY/2012/08	2019/10/28	Mid-Ebb	IS(Mf)11	12:03	Surface	1	1	27.8	8.2	29.6	5.9	† †	6.2		6.9	
TMCLKL	HY/2012/08	2019/10/28	Mid-Ebb	IS(Mf)11	12:03	Surface	1	2	27.8	8.2	29.5	5.9	7 <u>-</u> , †	6.2	1	7.2	1
TMCLKL	HY/2012/08	2019/10/28	Mid-Ebb	IS(Mf)11	12:03	Surface	2	1	27.5	8.2	29.8	5.6	5.8	9.1	1	10.3	1
TMCLKL	HY/2012/08	2019/10/28	Mid-Ebb	IS(Mf)11	12:03	Surface	2	2	27.5	8.2	29.7	5.6	7 t	8.9	9.4	9.7	10.4
TMCLKL	HY/2012/08	2019/10/28	Mid-Ebb	IS(Mf)11	12:03	Surface	3	1	27.6	8.2	30.3	5.6		12.8	1	14.2	1
TMCLKL	HY/2012/08	2019/10/28	Mid-Ebb	IS(Mf)11	12:03	Surface	3	2	27.6	8.2	30.2	5.6	5.6	12.9	1	14.3	1
TMCLKL	HY/2012/08	2019/10/28	Mid-Ebb	SR7	13:07	Surface	1	1	27.6	8.3	29.3	5.9	† †	9.7		10.9	†
TMCLKL	HY/2012/08	2019/10/28	Mid-Ebb	SR7	13:07	Surface	1	2	27.7	8.3	29.1	5.9	1 <u>. </u>	9.4	1	11.3	1
TMCLKL	HY/2012/08	2019/10/28	Mid-Ebb	SR7	13:07	Surface	2	1					5.9		1		1
TMCLKL	HY/2012/08	2019/10/28	Mid-Ebb	SR7	13:07	Surface	2	2					† †		10.2		10.8
TMCLKL	HY/2012/08	2019/10/28	Mid-Ebb	SR7	13:07	Surface	3	1	27.6	8.3	29.4	6.0	1 1	10.7	1	10.4	1
	,,	-, -,		1			-		27.6	8.3	29.3	6.0	- 6.0 		1		- I

TMCLKL HY/2012/08 2019/10/28 Mid-Ebb IS17 11:53 Surface 1 1 27.5 8.2 29.9 5.6	5.6 5.8 5.6	12.1 11.9 12.4 12.2 16.4 16.6 6.7 6.8 9.0 8.8	13.6	19.3 19.7 20.2 20.1 20.3 19.7	19.9
TMCLKL HY/2012/08 2019/10/28 Mid-Ebb IS17 11:53 Surface 2 1 27.5 8.2 30.1 5.6 TMCLKL HY/2012/08 2019/10/28 Mid-Ebb IS17 11:53 Surface 2 2 27.5 8.2 29.9 5.6 TMCLKL HY/2012/08 2019/10/28 Mid-Ebb IS17 11:53 Surface 3 1 27.5 8.2 30.2 5.8 TMCLKL HY/2012/08 2019/10/28 Mid-Ebb IS17 11:53 Surface 3 2 27.5 8.2 30.0 5.7 TMCLKL HY/2012/08 2019/10/28 Mid-flood CS(Mf)5 6:15 Surface 1 1 27.5 8.0 29.7 5.7 TMCLKL HY/2012/08 2019/10/28 Mid-flood CS(Mf)5 6:15 Middle 2 27.5 8.0 29.6 5.7 TMCLKL HY/2012/08 2019/10/28 Mid-flood CS(Mf)5	5.6	12.4 12.2 16.4 16.6 6.7 6.8 9.0	13.6	20.2 20.1 20.3	19.9
TMCLKL HY/2012/08 2019/10/28 Mid-Ebb IS17 11:53 Surface 2 2 27.5 8.2 29.9 5.6 TMCLKL HY/2012/08 2019/10/28 Mid-Ebb IS17 11:53 Surface 3 1 27.5 8.2 30.2 5.8 TMCLKL HY/2012/08 2019/10/28 Mid-Ebb IS17 11:53 Surface 3 2 27.5 8.2 30.0 5.7 TMCLKL HY/2012/08 2019/10/28 Mid-flood CS(Mf)5 6:15 Surface 1 1 27.5 8.0 29.7 5.7 TMCLKL HY/2012/08 2019/10/28 Mid-flood CS(Mf)5 6:15 Surface 1 2 27.5 8.0 29.6 5.7 TMCLKL HY/2012/08 2019/10/28 Mid-flood CS(Mf)5 6:15 Middle 2 2 27.5 8.0 30.1 5.5 TMCLKL HY/2012/08 2019/10/28 Mid-flood <	5.8	12.2 16.4 16.6 6.7 6.8 9.0	13.6	20.1 20.3	19.9
TMCLKL HY/2012/08 2019/10/28 Mid-Ebb IS17 11:53 Surface 3 1 27.5 8.2 30.2 5.8 TMCLKL HY/2012/08 2019/10/28 Mid-Flood CS(Mf)5 6:15 Surface 3 2 27.5 8.2 30.0 5.7 TMCLKL HY/2012/08 2019/10/28 Mid-flood CS(Mf)5 6:15 Surface 1 1 27.5 8.0 29.7 5.7 TMCLKL HY/2012/08 2019/10/28 Mid-flood CS(Mf)5 6:15 Surface 1 2 27.5 8.0 29.6 5.7 TMCLKL HY/2012/08 2019/10/28 Mid-flood CS(Mf)5 6:15 Middle 2 1 27.5 8.0 30.1 5.5 TMCLKL HY/2012/08 2019/10/28 Mid-flood CS(Mf)5 6:15 Bottom 3 1 27.6 8.0 30.4 5.5 TMCLKL HY/2012/08 2019/10/28 Mid-flood	5.8	16.4 16.6 6.7 6.8 9.0	- - -	20.3	•
TMCLKL HY/2012/08 2019/10/28 Mid-Ebb IS17 11:53 Surface 3 2 27.5 8.2 30.0 5.7 TMCLKL HY/2012/08 2019/10/28 Mid-flood CS(Mf)5 6:15 Surface 1 1 27.5 8.0 29.7 5.7 TMCLKL HY/2012/08 2019/10/28 Mid-flood CS(Mf)5 6:15 Surface 1 2 27.5 8.0 29.6 5.7 TMCLKL HY/2012/08 2019/10/28 Mid-flood CS(Mf)5 6:15 Middle 2 1 27.5 8.0 30.1 5.5 TMCLKL HY/2012/08 2019/10/28 Mid-flood CS(Mf)5 6:15 Bottom 3 1 27.6 8.0 30.4 5.5 TMCLKL HY/2012/08 2019/10/28 Mid-flood CS(Mf)5 6:15 Bottom 3 1 27.6 8.0 30.4 5.5 TMCLKL HY/2012/08 2019/10/28 Mid-flood	5.8	16.6 6.7 6.8 9.0	1		1
TMCLKL HY/2012/08 2019/10/28 Mid-flood CS(Mf)5 6:15 Surface 1 2 27.5 8.0 29.6 5.7 TMCLKL HY/2012/08 2019/10/28 Mid-flood CS(Mf)5 6:15 Middle 2 1 27.5 8.0 30.1 5.5 TMCLKL HY/2012/08 2019/10/28 Mid-flood CS(Mf)5 6:15 Middle 2 2 27.5 8.0 29.9 5.5 TMCLKL HY/2012/08 2019/10/28 Mid-flood CS(Mf)5 6:15 Bottom 3 1 27.6 8.0 30.4 5.5 TMCLKL HY/2012/08 2019/10/28 Mid-flood CS(Mf)5 6:15 Bottom 3 2 27.6 8.0 30.3 5.5 TMCLKL HY/2012/08 2019/10/28 Mid-flood CS(Mf)3(N) 7:07 Surface 1 1 27.3 8.1 29.0 6.0 TMCLKL HY/2012/08 2019/10/28 Mid-flood <td>5.6</td> <td>6.8 9.0</td> <td></td> <td></td> <td>1 1</td>	5.6	6.8 9.0			1 1
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		10.3		12.7	+
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TMCLKL HY/2012/08 2019/10/28 Mid-flood IS(Mf)16 7:52 Middle 2 1	5.8		11.5		13.0
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TMCLKL HY/2012/08 2019/10/28 Mid-flood SR4a 8:04 Bottom 3 1 27.3 8.1 29.7 5.9	5.9	8.1		11.6]
TMCLKL HY/2012/08 2019/10/28 Mid-flood SR4a 8:04 Bottom 3 2 27.3 8.1 29.5 5.9		8.0		12.0	
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TMCLKL HY/2012/08 2019/10/28 Mid-flood IS8(N) 8:15 Surface 1 2 27.4 8.1 29.4 5.7	5.7	9.2	_	9.4	」
TMCLKL HY/2012/08 2019/10/28 Mid-flood IS8(N) 8:15 Middle 2 1			9.4		9.4
TMCLKL HY/2012/08 2019/10/28 Mid-flood IS8(N) 8:15 Middle 2 2 2 3 4 5 5 7 TMCLKL HY/2012/08 2019/10/28 Mid-flood IS8(N) 8:15 Bottom 3 1 27.4 8.1 29.6 5.7		9.6	-	9.3	-
TMCLKL HY/2012/08 2019/10/28 Mid-flood IS8(N) 8:15 Bottom 3 2 27.4 8.1 29.5 5.7	<u> </u>	9.6	-	10.4	1
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TMCLKL HY/2012/08 2019/10/28 Mid-flood SR7 6:34 Surface 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		17.8	1	25.5	-
TMCLKL HY/2012/08 2019/10/28 Mid-flood SR7 6:34 Surface 3 2 27.4 8.0 29.4 6.1		17.5	<u>l</u>	25.9	
TMCLKL HY/2012/08 2019/10/28 Mid-flood IS17 7:44 Surface 1 1 27.5 8.1 29.8 5.7		14.4		20.0	
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TMCLKL HY/2012/08 2019/10/28 Mid-flood IS17	6.0	18.5	4	17.3	- I

Note:

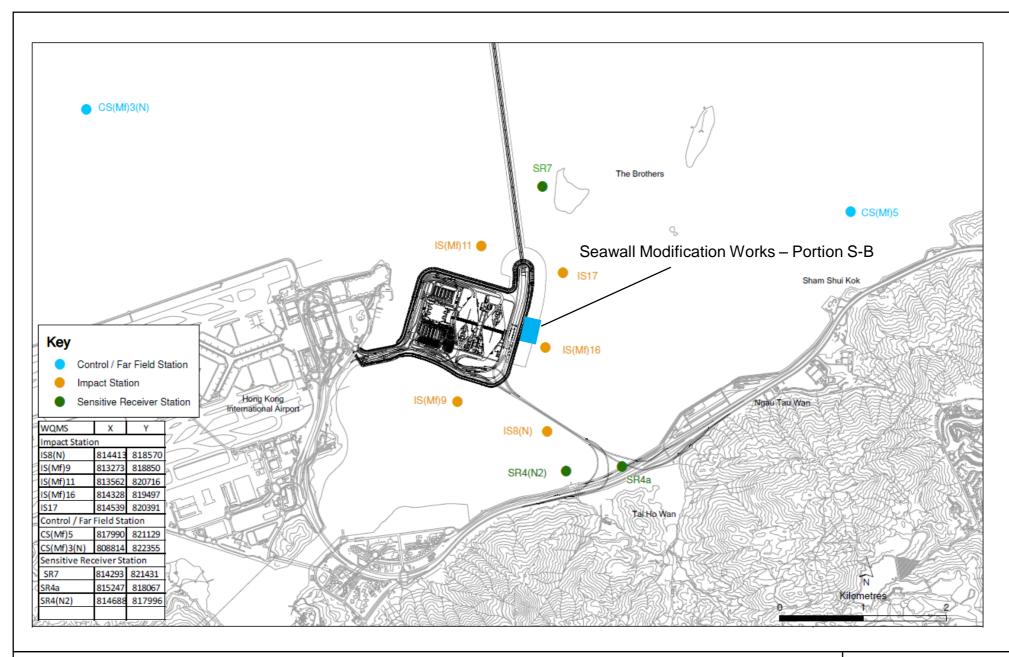


Figure 1





Appendix M

Waste Flow Table



Monthly Summary Waste Flow Table

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

Monthly Summary Waste Flow Table for October 2019 [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.)

	Monthly Break-down of <u>Inert</u> Construction & Demolition Materials (i.e. Public Fill Materials)											
Month	(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							
	(in '000 ton)	(in '000 ton)	(in '000 ton)	(in '000 ton)	(in '000 ton)							
Sub-total	2224.407	0.000	76.754	585.369	1562.284							
Jan-2019	299.831	0.000	53.419	215.427	30.985							
Feb-2019	133.335	0.000	46.021	67.707	19.607							
Mar-2019	120.224	0.000	50.455	20.964	48.805							
Apr-2019	130.329	0.000	58.956	0.000	71.373							
May-2019	67.355	0.000	51.297	0.000	16.058							
Jun-2019	4.134	0.000	0.000	0.000	4.134							
Half Year Sub-total	755.208	0.000	260.148	304.098	190.962							
Jul-2019	3.821	0.000	0.000	0.000	3.821							
Aug-2019	2.388	0.000	0.000	0.000	2.388							
Sep-2019	4.191	0.000	0.000	0.000	4.191							
Oct-2019	8.366	0.000	0.000	0.000	8.366							
Nov-2019												
Dec-2019												
Project Total Quantities	2998.391	0.000	336.902	889.467	1772.012							

			Actu	al Quantities of]	Non-inert Cons	truction Waste	Generated Mon	thly	
Month	Ме	etals	Paper/ cardbo	oard packaging		stics Note 3)	Chemic	al Waste	Others, e.g. General Refuse disposed at Landfill
	(in '0	000kg)	(in '(000kg)	(in '(000kg)	(in '0	000kg)	(in '000ton)
	generated	recycled	generated	recycled	generated	recycled	generated	Disposed	generated
Sub-total	6763.82	6763.82	7.74	7.74	8.70	8.70	60.35	60.35	13.989
Jan-2019	394.55	394.55	0.00	0.00	0.00	0.00	0.00	0.00	0.538
Feb-2019	103.72	103.72	0.62	0.62	0.00	0.00	1.672	1.672	0.578
Mar-2019	88.20	88.20	0.46	0.46	0.00	0.00	0.00	0.00	0.692
Apr-2019	260.89	260.89	0.00	0.00	3.90	3.90	1.045	1.045	0.707
May-2019	0.66	0.66	1.46	1.46	0.00	0.00	0.00	0.00	0.798
Jun-2019	136.75	136.75	0.66	0.66	0.00	0.00	4.14	4.14	0.751
Half Year Sub-total	984.77	984.77	3.20	3.20	3.90	3.90	6.857	6.857	4.064
Jul-2019	444.37	444.37	1.20	1.20	0.00	0.00	0.00	0.00	0.730
Aug-2019	505.93	505.93	0.00	0.00	1.58	1.58	3.80	3.80	0.703
Sep-2019	397.10	397.10	0.60	0.60	1.62	1.62	8.00	8.00	0.737
Oct-2019	523.05	523.05	0.00	0.00	1.04	1.04	5.80	5.80	0.754
Nov-2019									
Dec-2019									
Project Total Quantities	9619.04	9619.04	12.74	12.74	16.84	16.84	84.807	84.807	20.977



	Forecast of Total Quantities of Constr	ruction and Demolition Materia	ls 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										
(in '000 ton)	(in '000 ton)	(in '000 ton)	(in '000 ton)	(in '000 ton)						
3200.000	0.000	350.000	1000.000	2000.000						

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 '000 ton)
10500.00	20.00	20.00	100.00	30.000

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.
- 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 m³. (**ER Part 8 Clause 8.8.5 (d)** (ii) refers).