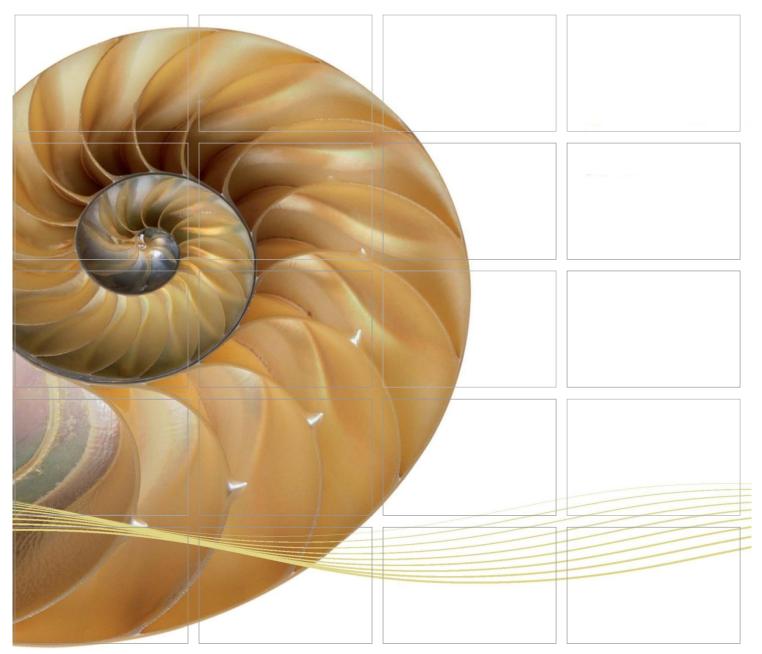
Report



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

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

13 January 2020

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



www.erm.com



Ref.: HYDHZMBEEM00_0_7826L.20.docx

13 January 2020

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
74th Monthly EM&A Report for December 2019 (EP-354/2009/D)

Reference is made to the Monthly EM&A Report for December 2019 (ET's ref.: " 0212330_74th Monthly EM&A_20200113.doc") certified by the ET Leader and provided to us via e-mail on 13 January 2020.

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,

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

Q:\Projects\HYDHZMBEEM00\02_Proj_Mgt\02_Corr\2020\HYDHZMBEEM00_0_7826L.20.docx



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

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

Document Code: 0212330_74th Monthly EM&A_20200113.doc

Environmental Resources Management

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

Client:		Project N	lo:		
DBJV		021233	30		
Summary:		Date: 13 Janu Approved	uary 2020 d by:)	
		Mr Craig Reid			
		7	mill		
		Dr Jasi ET Lead	nine Ng _{er}		
7	74 th Monthly EM&A Report	VAR	JN	CAR	13/01/20
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		5 18001:2007 No. OHS 515956 BS1 ~~ 0001 : 2008 e No. FS 32515	



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APPENDIX D SUMMARY OF ACTION AND LIMIT LEVELS

APPENDIX E COPIES OF CALIBRATION CERTIFICATE FOR AIR

AND WATER QUALITY MONITORING

APPENDIX F EM&A MONITORING SCHEDULES

APPENDIX G IMPACT AIR QUALITY MONITORING RESULTS

APPENDIX H METEOROLOGICAL DATA

APPENDIX I IMPACT DOLPHIN MONITORING SURVEY

APPENDIX J IMPACT WATER QUALITY MONITORING RESULTS

APPENDIX K EVENT AND ACTION PLAN

APPENDIX L CUMULATIVE STATISTICS ON EXCEEDANCE,

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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 in early 2020. 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-fourth Monthly EM&A report presenting the EM&A works carried out during the period from 1 to 31 December 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;
- C&C Tunnel RC structure Portion S-A;
- Roofing System Installation Portion S-A;
- Road & Drainage works Portion S-B & 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 11 sessions

1-hour TSP Monitoring 11 sessions

Water Quality Monitoring 12 sessions

Impact Dolphin Monitoring 2 sessions

Joint Environmental Site Inspection 4 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 December 2019 during the exclusion zone monitoring.

Summary of Breaches of Action/Limit Levels

Breaches of Action and Limit Levels for Air Quality

Four (4) Action Level and One (1) Limit Level exceedances of 1-hour TSP Monitoring were recorded in the air quality monitoring of this reporting month. No exceedance of 24-hour TSP Monitoring was recorded.

Breaches of Action and Limit Levels for Water Quality

No exceedance was 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

Seawall Modification Works has been completed on 30th December 2019. No marine works will be carried out in the next reporting month. Water Quality Monitoring will be suspended.

Upcoming Works for the Next Reporting Month

Works to be undertaken in the next monitoring period of January 2020 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;
- C&C Tunnel RC structure Portion S-A;
- Roofing System Installation Portion S-A;
- D-wall cut Portion S-A;
- Tower Crane Removal Portion S-A;
- Removal of Access Tower Portion S-B;
- Gantry Crane Removal Portion S-B
- Road & Drainage works Portion S-B & S-C

Future Key Issue

Potential environmental impacts arising from the above upcoming construction activities in the next reporting month of January 2020 are mainly associated with dust, marine ecology and waste management issues.

INTRODUCTION

1.1 BACKGROUND

1

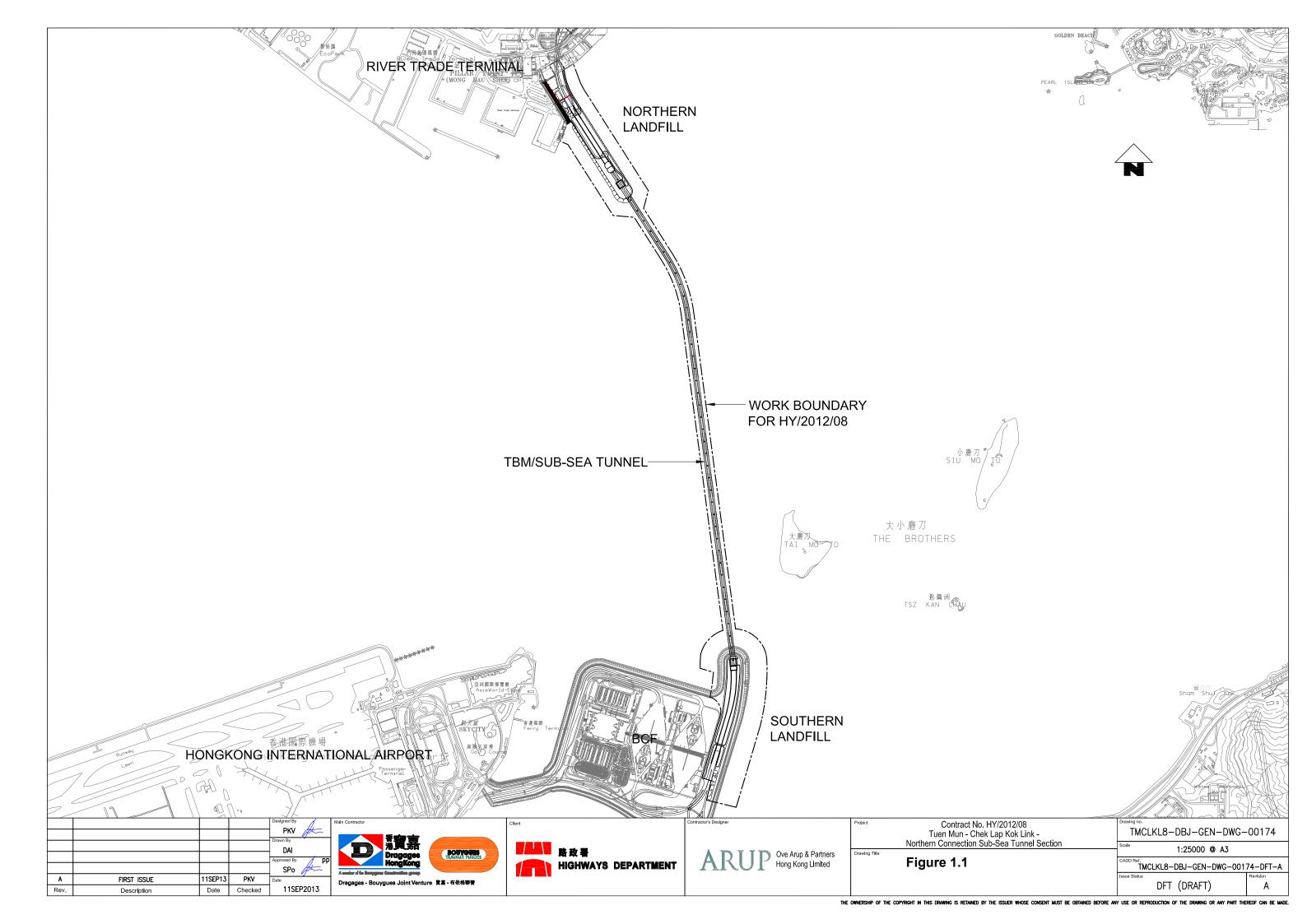
According to the findings of the Northwest New Territories (NWNT) Traffic and Infrastructure Review conducted by the Transport Department, Tuen Mun Road, Ting Kau Bridge, Lantau Link and North Lantau Highway would be operating beyond capacity after 2016. This forecast has been based on the estimated 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 in early 2020. 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-fourth Monthly EM&A Report under the *Contract No. HY/2012/08 Tuen Mun – Chek Lap Kok Link – Northern Connection Sub-sea Tunnel Section.* This report presents a summary of the environmental monitoring and audit works in December 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

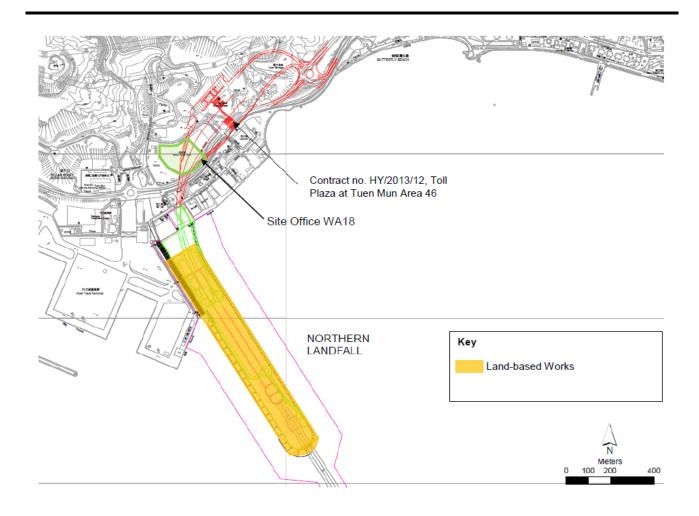
Land-based Works

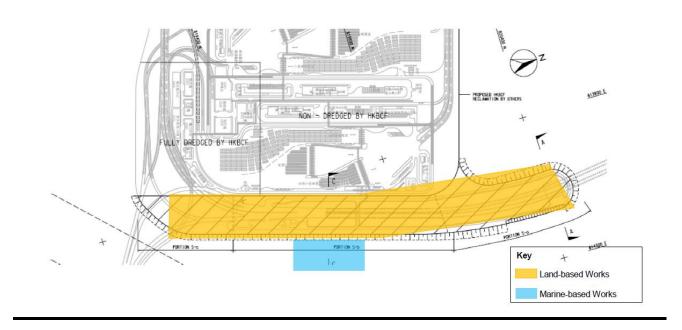
- Construction of Thermal barrier TBM tunnel;
- Construction of Walkway Corbel & Cover TBM Tunnel;
- Road & Drainage works Portion N-A;
- C&C Tunnel RC structure Portion S-A;
- Roofing System Installation Portion S-A;
- Road & Drainage works Portion S-B & S-C;

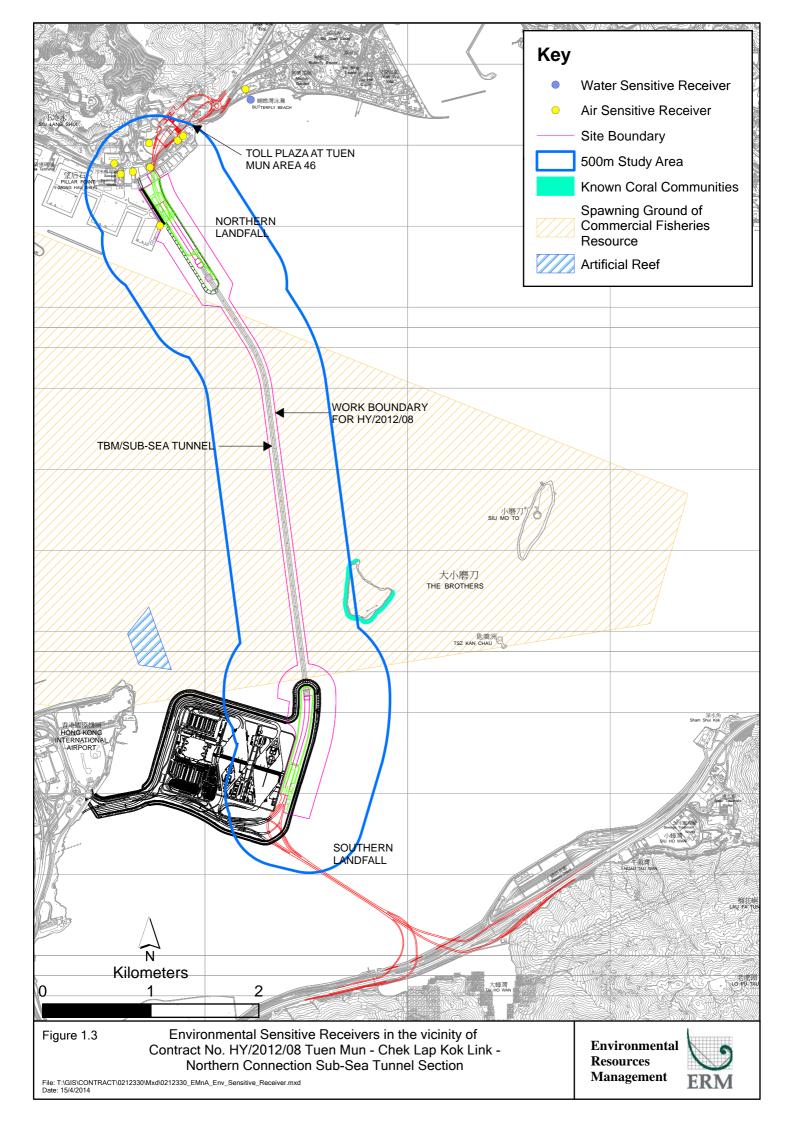
Marine-based Works

• Seawall Modification Works - Portion S-B

Figure 1.2 Locations of Construction Activities - December 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 1, 4, 7, 10, 13, 16, 19, 22, 25, 28 and 31 December 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	1, 4, 7, 10, 13, 16, 19,	Tuen Mun	Office	TSP monitoring
	22, 25, 28 and 31	Fireboat Station		 1-hour Total Suspended
	December 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

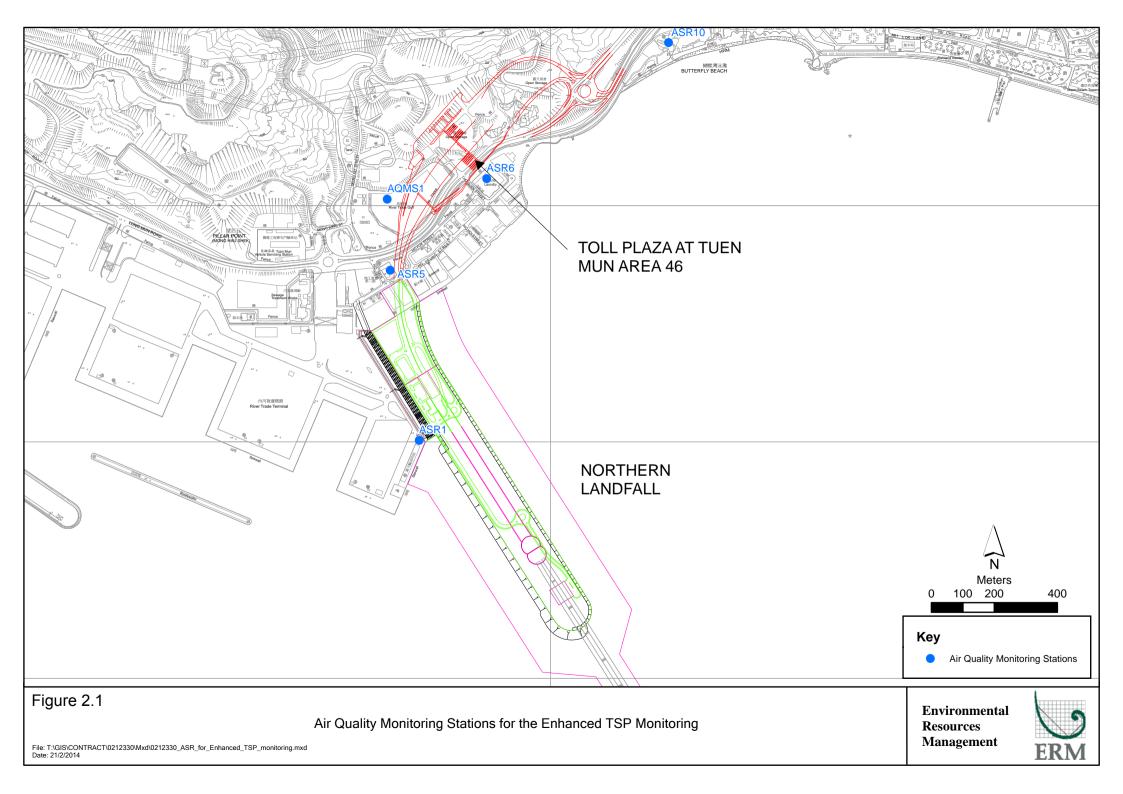


Table 2.2 Air Quality Monitoring Equipment

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 December 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	191	66 - 747	331	500
ASR5	198	84 - 380	340	500
AQMS1	145	56 - 302	335	500
ASR6	139	40 - 249	338	500
ASR10	116	29 - 407	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	136	63 - 168	213	260
ASR5	135	102 - 190	238	260
AQMS1	93	64 - 131	213	260
ASR6	111	71 - 149	238	260
ASR10	77	47 - 103	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 11 1-hour TSP and 24-hour TSP monitoring were undertaken in this reporting month. Four (4) Action Level and One (1) Limit Level exceedances

of 1-hour TSP Monitoring were recorded in the air quality monitoring of this reporting month. No exceedance of 24-hour TSP Monitoring was recorded.

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

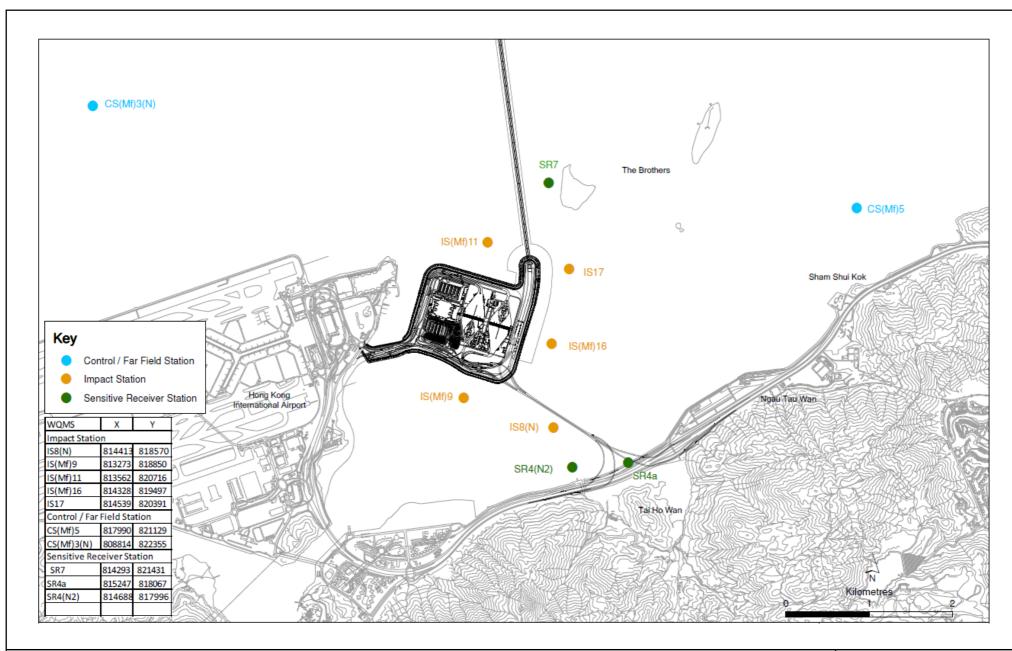


Figure 2.2



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

^{*}Notes:

In addition to the parameters presented monitoring location/position, time, water depth, sampling depth, tidal stages, weather conditions and any special phenomena or works underway nearby were also recorded. 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 00019CB2
Multi-Parameters	YSI ProDss 0001C6A7
Multi-Parameters	YSI ProDss 16H104233
Multi-Parameters	YSI ProDss 17H105557
Multi-Parameters	YSI ProDss 16H104234
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 December 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 twelve (12) monitoring events were undertaken in which no exceedance was 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
	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 \times 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.

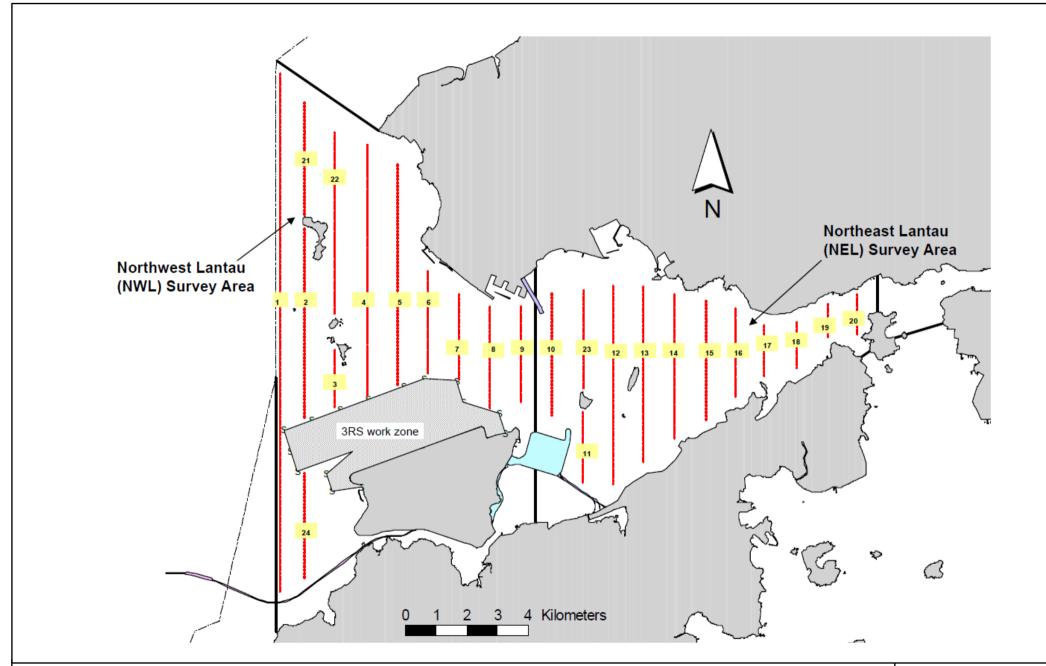


Figure 2.3

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 3, 10, 12 and 16 of December 2019. The dolphin monitoring schedule for the reporting month is shown in *Appendix F*.

2.3.7 Results & Observations

A total of 262.02 km of survey effort was collected, with 100% of the total survey effort being conducted under favourable weather conditions (i.e. Beaufort Sea State 3 or below with good visibility) in December 2019. Among the two areas, 95.80 km and 166.22 km of survey effort were collected from NEL and NWL survey areas, respectively. The total survey effort conducted on primary and secondary lines were 189.40 km and 72.62 km respectively. The survey efforts are summarized in *Appendix I*.

Three groups of 13 Chinese White Dolphins sightings were recorded during the two sets of surveys in December 2019. The dolphin sighting was made in NWL, while none was sighted in NEL. All three dolphin sightings were made during on-effort 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 December 2019 with the results present in *Tables 2.9* and *2.10*.

 Table 2.9
 Individual Survey Event Encounter Rates

		Encounter rate (STG)	Encounter rate (ANI)	
		(no. of on-effort dolphin	(no. of dolphins from all on-	
		sightings per 100 km of	effort sightings per 100 km of	
		survey effort)	survey effort)	
		Primary Lines Only	Primary Lines Only	
NEL	Set 1: December 3rd / 10th	0.0	0.0	
NEL	Set 2: December 12th / 16th	0.0	0.0	
NWL	Set 1: December 3 rd / 10 th	0.0	0.0	
	Set 2: December 12th / 16th	5.0	21.8	

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

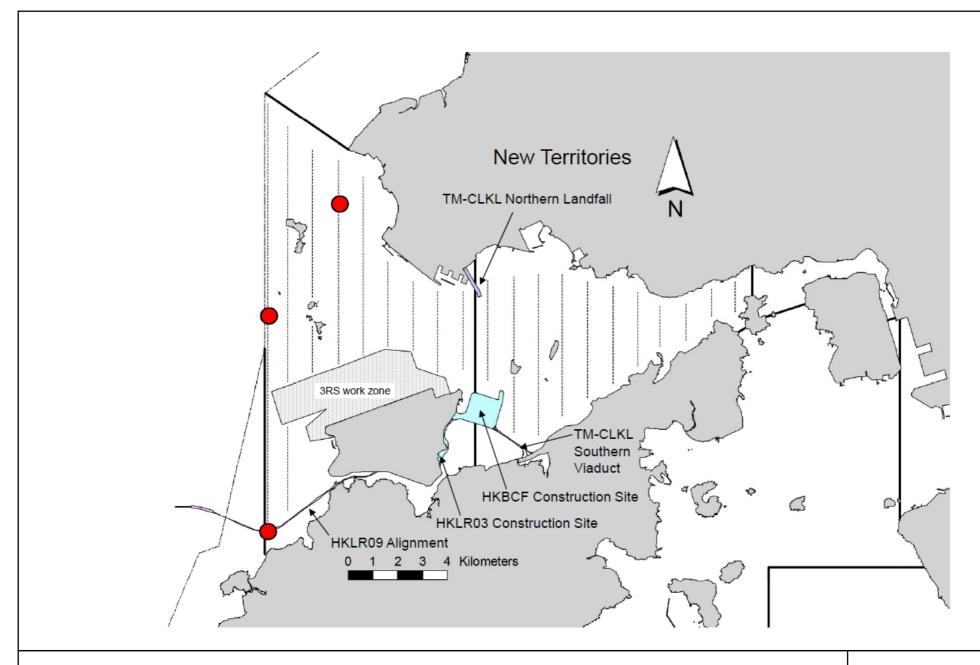


Figure 2.4

HY/2012/08 TM-CLKL Northern Connection Sub-sea Tunnel Section The distribution of dolphin sightings in December 2019





Table 2.10 Monthly Average Encounter Rates

	(no. of on-ef	rate (STG) fort dolphin 00 km of survey ort)	Encounter rate (ANI) (no. of dolphins from all on- effort sightings per 100 km of survey effort)		
	Primary Both Primary Lines Only and Secondary Lines		Primary Lines Only	Both Primary and Secondary Lines	
Northeast Lantau	0.0	0.0	0.0	0.0	
Northwest Lantau	2.5	1.8	10.9	7.8	

Note: Overall dolphin encounter rates (sightings per 100 km of survey effort) from all four surveys are conducted in December 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 December 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, four (4) site inspections were carried out on 4, 11, 18 and 27 December 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
4 December 2019	 Works Area - Portion N-C Food waste should be removed. Works Area - Portion N-B Drip tray should be provided during car repairing. Works Area - Portion S-A Drip tray should be provided for the chemical container. Reminder from the SOR Works Area - Portion S-B Stagnant water should be cleared. 	 Works Area - Portion N-C The Contractor was reminded to remove the food waste. Works Area - Portion N-B The Contractor was reminded to provide drip tray during car repairing. Works Area - Portion S-A The Contractor was reminded to provide ptray for the chemical container. Reminder from the SOR Works Area - Portion S-B The Contractor was reminded to clear the stagnant water.
11 December 2019	 Works Area - TBM tunnel Chemical drums and cement bags should be removed. Works Area - Portion S-B NRMM label should be displayed on the excavator. 	 Works Area - TBM tunnel The Contractor was reminded to remove the chemical drums and cement bags. Works Area - Portion S-B The Contractor was reminded to display NRMM label on the excavator.
18 December 2019	 Works Area - Portion S-B Cover should be provided between sand barges during sand crab action. Works Area - Portion S-A Drip tray for the chemicals should be provided. Domestic waste should be removed and water barrier should be repaired. Works Area - Portion N-A Cement bags should be covered by tarpaulin sheets. Drip tray should be provided for the generator. Reminder from the SOR Works Area - Portion S-A Stagnant water should be cleared. 	 Works Area - Portion S-B The Contractor was reminded to provide cover between sand barges during sand crab action. Works Area - Portion S-A The Contractor was reminded to provide drip tray for the chemicals. The Contractor was reminded to remove the domestic waste and repair the water barrier. Works Area - Portion N-A The Contractor was reminded to cover the cement bags by tarpaulin sheets. The Contractor was reminded to provide drip tray for the generator. Reminder from the SOR Works Area - Portion S-A The Contractor was reminded to clear the stagnant water.

Inspection Date	Observations	Recommendations/ Remarks
27 December 2019	Works Area – TBM tunnel	Works Area – TBM tunnel
	 Water spraying should be applied on the haul raod. Drip tray for the chemicals should be 	 The Contractor was reminded to apply water spraying on the haul road. The Contractor was reminded to
	provided. Works Area - Portion S-A	provide drip tray for the chemicals. Works Area – Portion S-A
	 Drip tray for the chemicals should be provided. 	 The Contractor was reminded to provide drip tray for the chemicals.

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	Inert Construction	Non-inert Construction	Recyclable Materials (c)	Chemical Wastes (kg)	Marine Sediment (m³)		
	Waste (a) (tonnes)	Waste Re- used (tonnes)	Waste (b) (tonnes)	(kg)		Category L	Category M (M _p & M _f)	Mixed (L+M)
December 2019	4,216	0	441	0	0	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.

Table 2.13 Summary of Environmental Licensing and Permit Status

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	435068	27 June 2018	Throughout the Contract	DBJV	Northern Landfall
Construction Dust Notification	435505	12 July 2018	Throughout the Contract	DBJV	Southern Landfall
Chemical Waste	5213-422-D2516-02	18 January 2017	Throughout the Contract	DBJV	Northern Landfall
Registration					
Chemical Waste	5213-951-D2591-01	25 May 2016	Throughout the Contract	DBJV	Southern Landfall
Registration 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 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)
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

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

Four (4) Action Level and One (1) Limit Level exceedances of 1-hour TSP Monitoring were recorded in the air quality monitoring of this reporting month. No exceedance of 24-hour TSP Monitoring was recorded.

No exceedance was recorded in the water quality monitoring of this reporting month.

Cumulative statistics are provided in *Appendix L*.

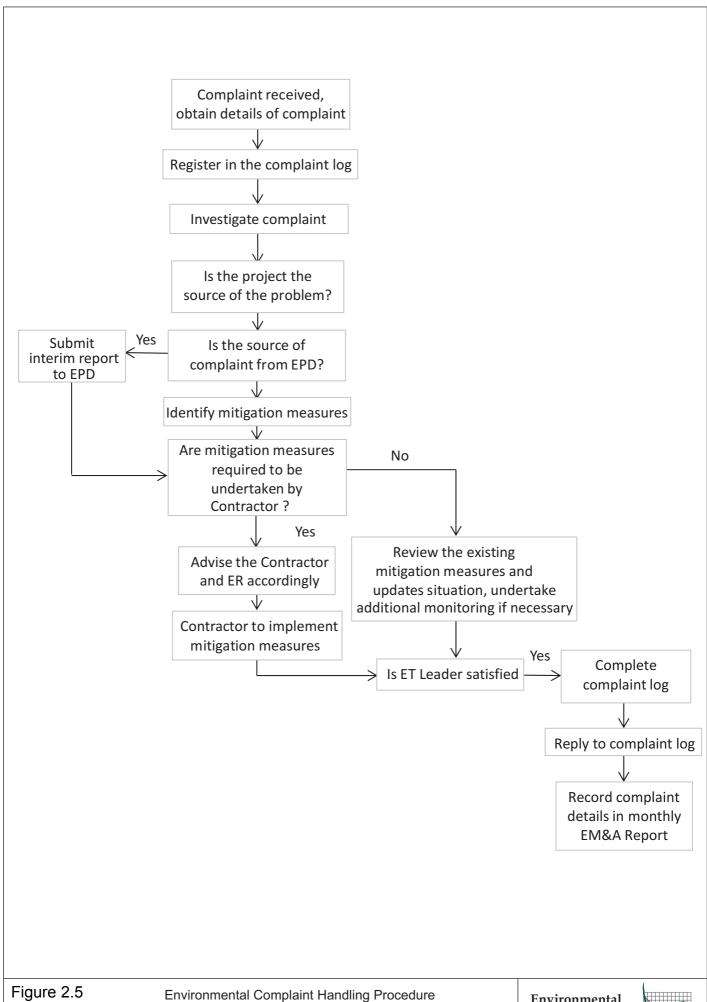
2.9 SUMMARY OF COMPLAINTS, NOTIFICATION OF SUMMONS AND SUCCESSFUL PROSECUTIONS

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 January 2020 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;
- C&C Tunnel RC structure Portion S-A;
- Roofing System Installation Portion S-A;
- D-wall cut Portion S-A;
- Tower Crane Removal Portion S-A;
- Removal of Access Tower Portion S-B;
- Gantry Crane Removal Portion S-B
- Road & Drainage works Portion S-B & S-C

3.2 KEY ISSUES FOR THE COMING MONTH

Potential environmental impacts arising from the above upcoming construction activities in the next reporting month of January 2020 are mainly associated with dust, marine water quality, marine ecology and waste management issues.

3.3 MONITORING SCHEDULE FOR THE COMING MONTH

The tentative schedule for environmental monitoring in January 2020 is provided in *Appendix F*.

4 CONCLUSIONS AND RECOMMENDATIONS

4.1 CONCLUSIONS

This Seventy-fourth Monthly EM&A Report presents the findings of the EM&A activities undertaken during the period from 1 to 31 December 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.

Four (4) Action Level and One (1) Limit Level exceedances of 1-hour TSP Monitoring were recorded in the air quality monitoring of this reporting month. No exceedance of 24-hour TSP Monitoring was recorded.

No exceedance was recorded in the water quality monitoring of this reporting month.

Three groups of 13 Chinese White Dolphins sightings were recorded during the two sets of surveys in December 2019. The dolphin sighting was made in NWL, while none was sighted in NEL. All three dolphin sightings were made during on-effort search and was made on primary lines. The dolphin groups were not associated with any operating fishing vessel.

Environmental site inspection was carried out four (4) times in December 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.

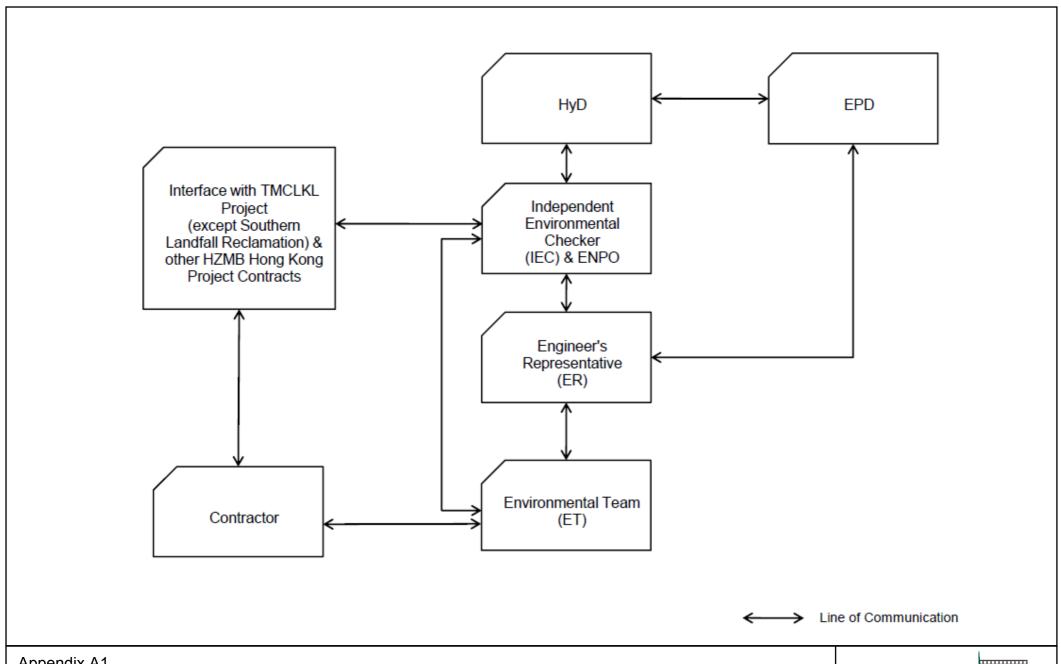
No environmental complaint was received in this reporting period.

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

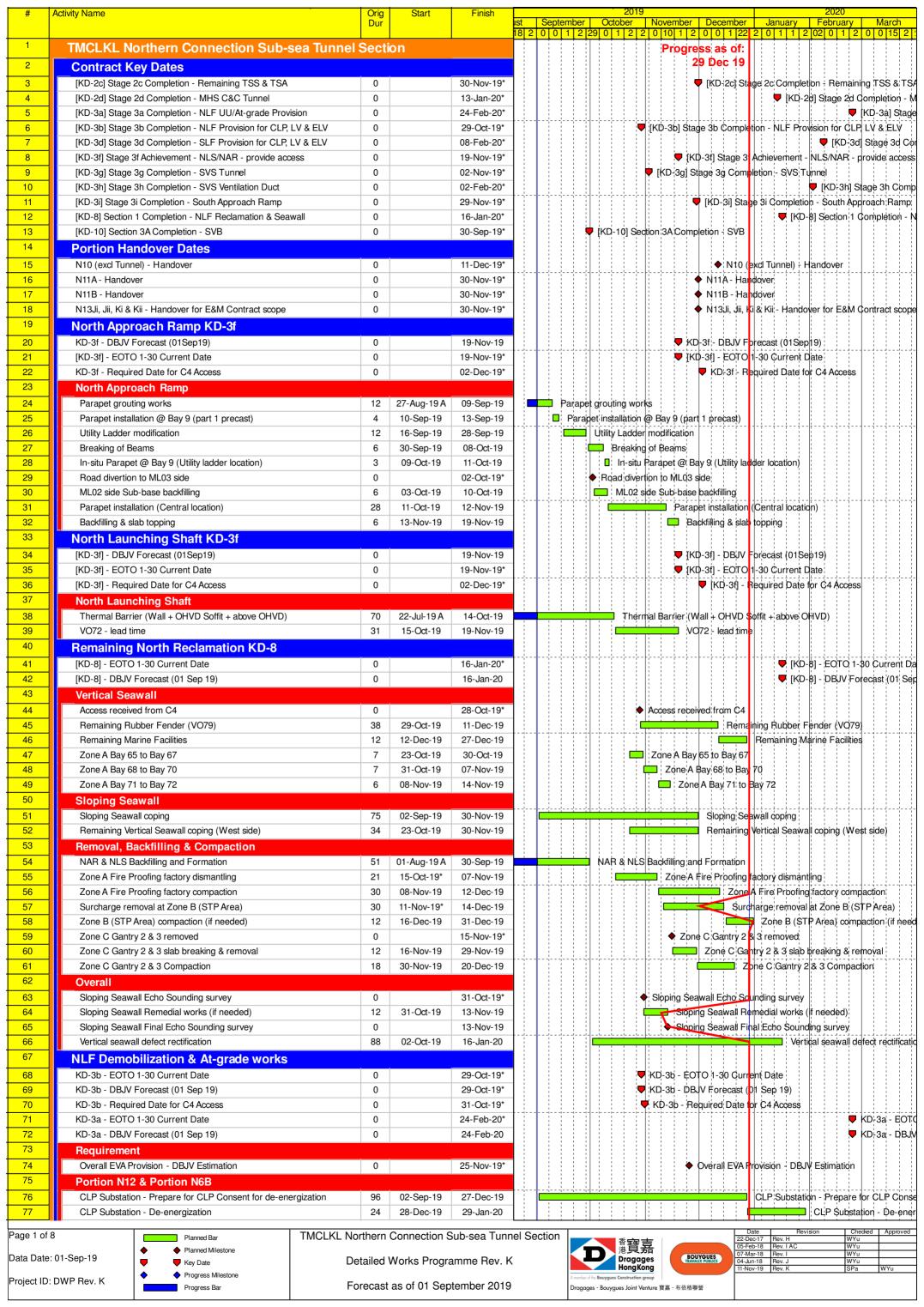
Contract No. HY/2012/08 Northern Connection Sub-sea Tunnel Section **Project Organization**

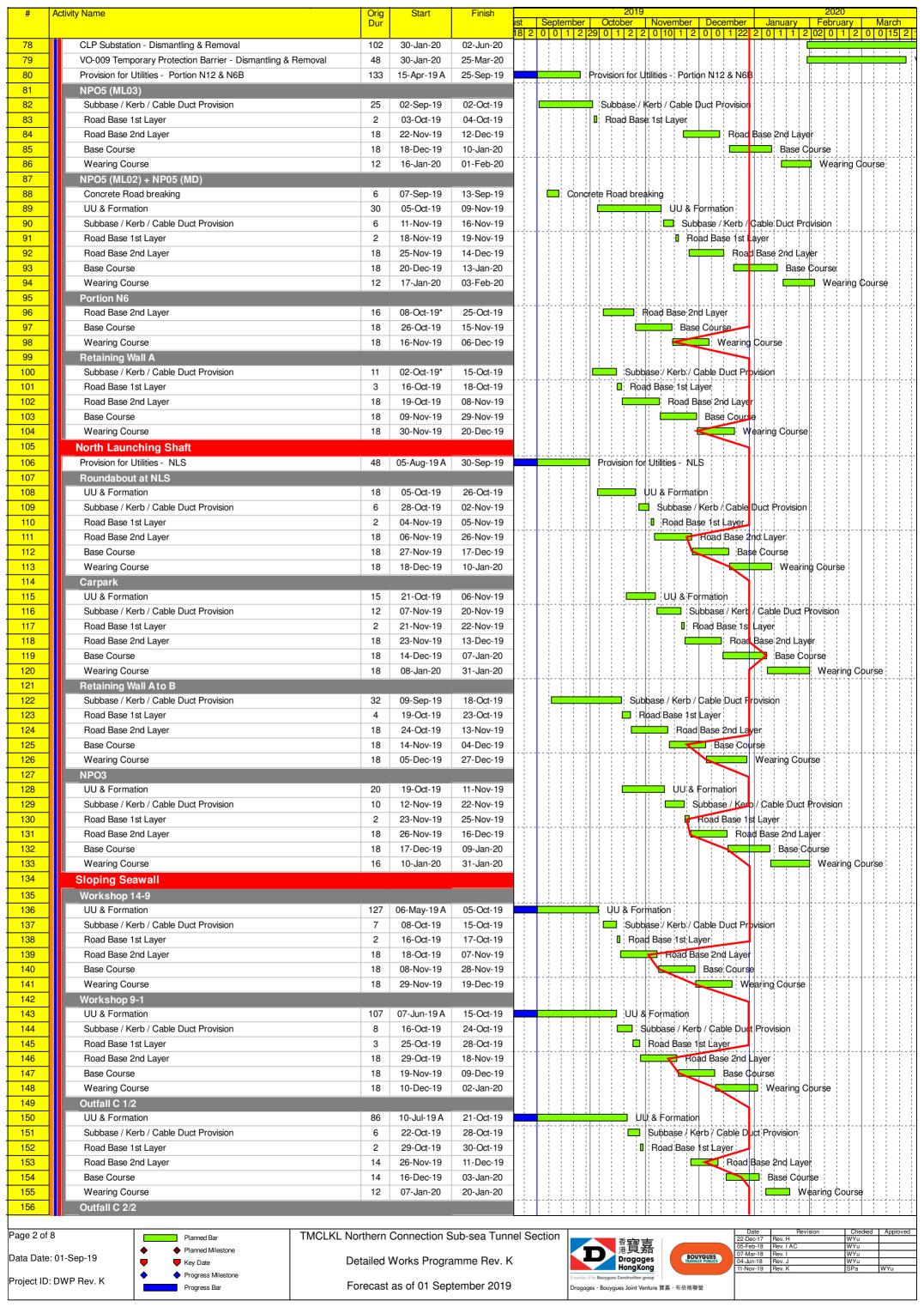
Environmental Resources Management

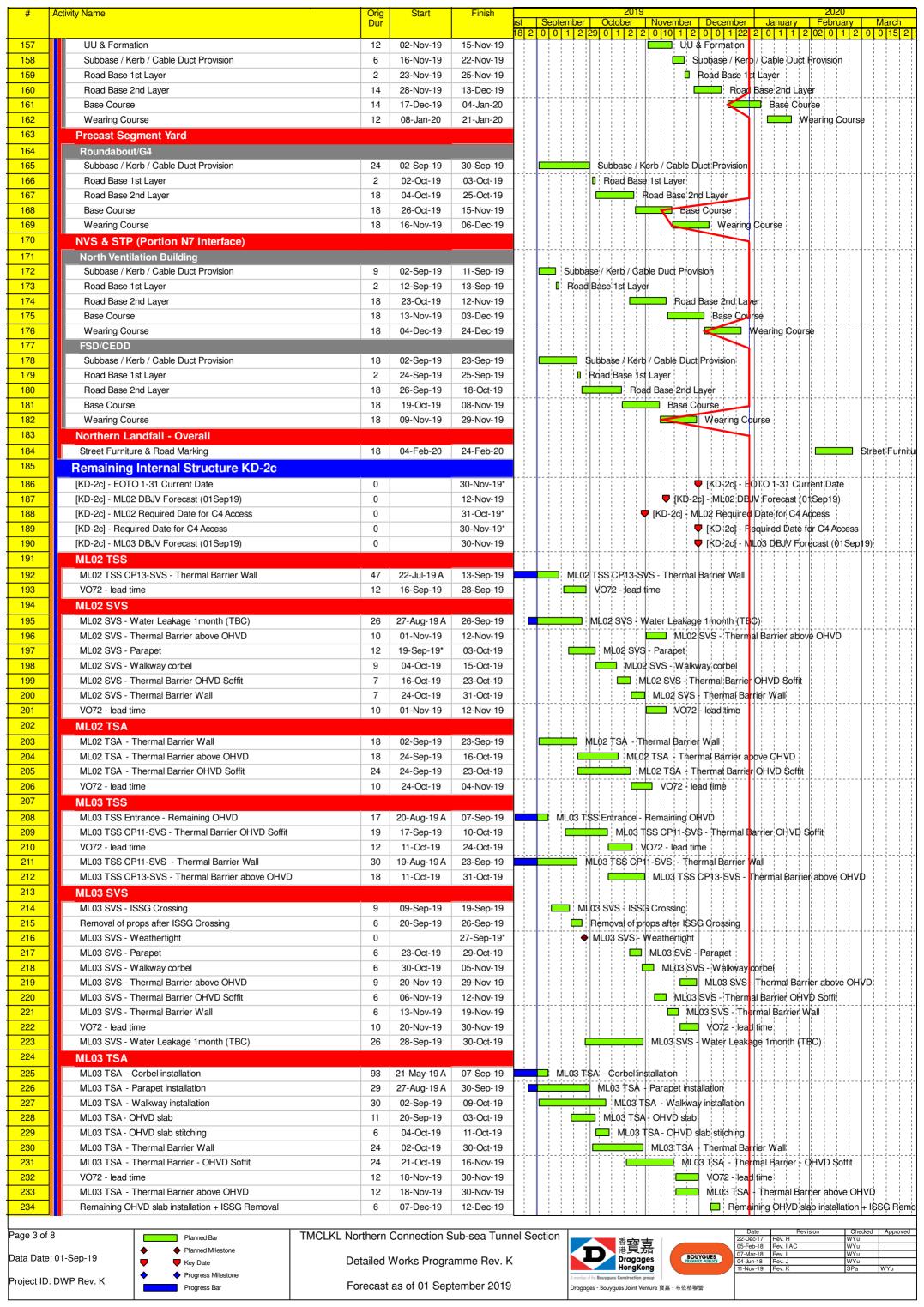


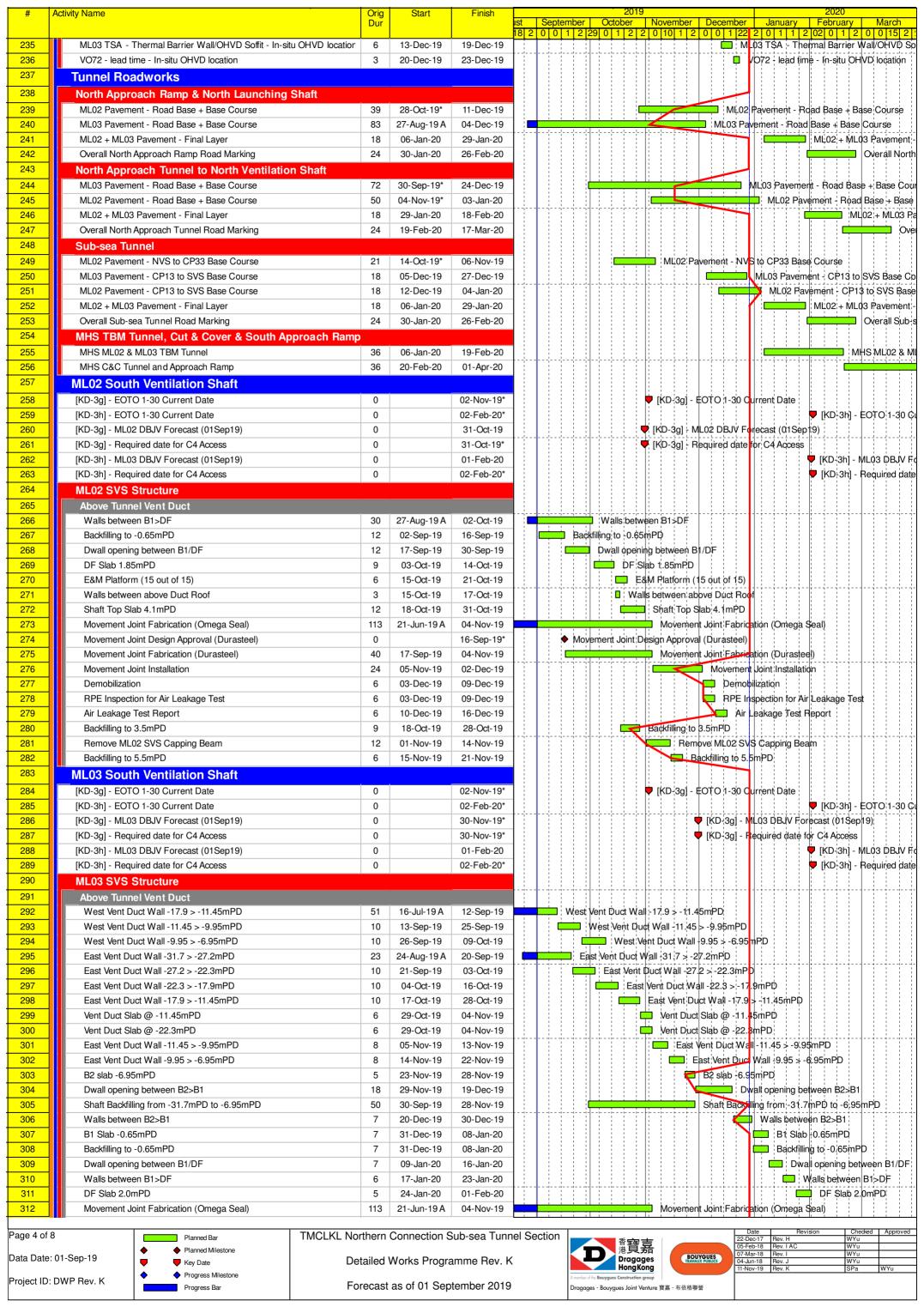
Appendix B

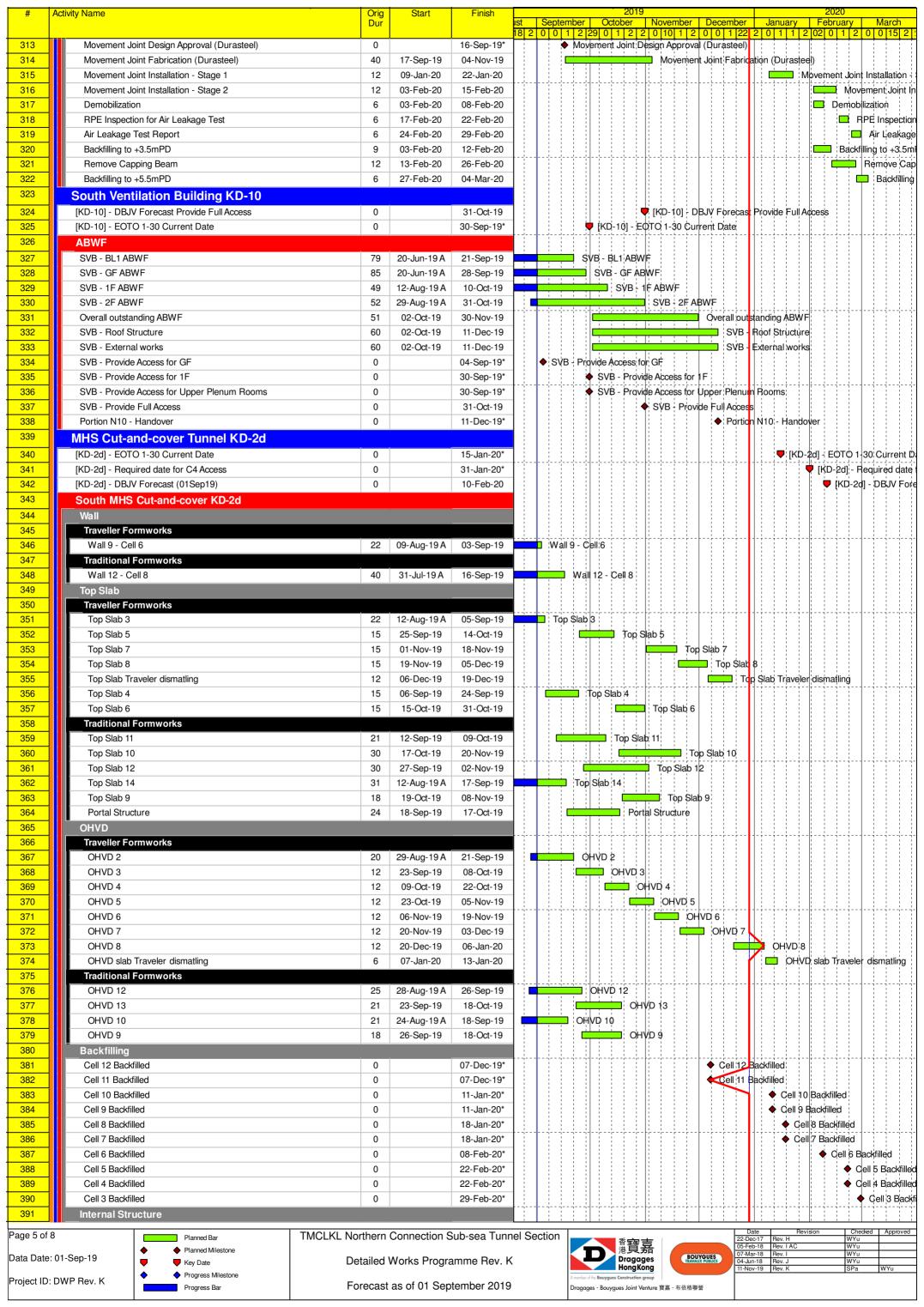
Construction Programme

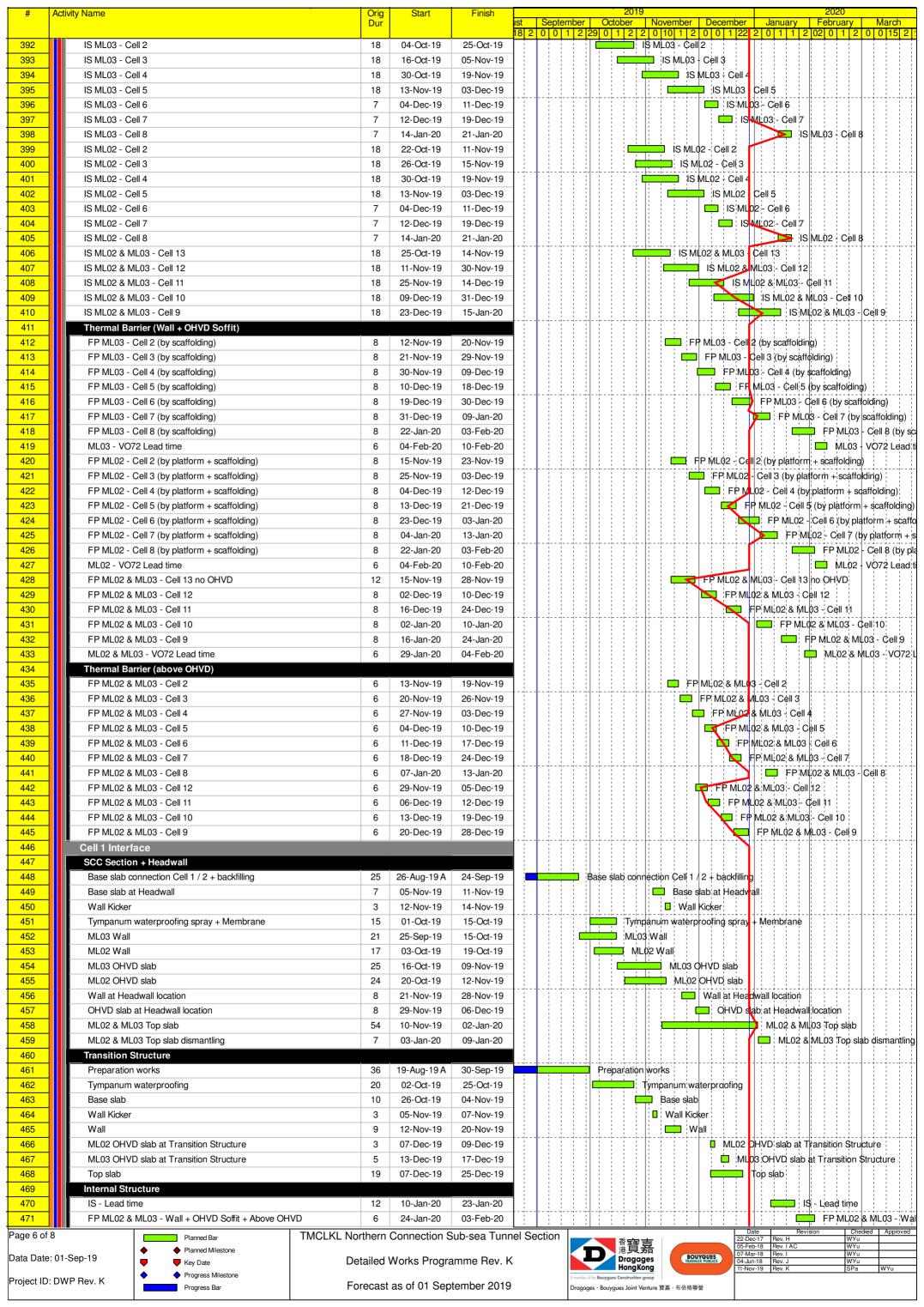


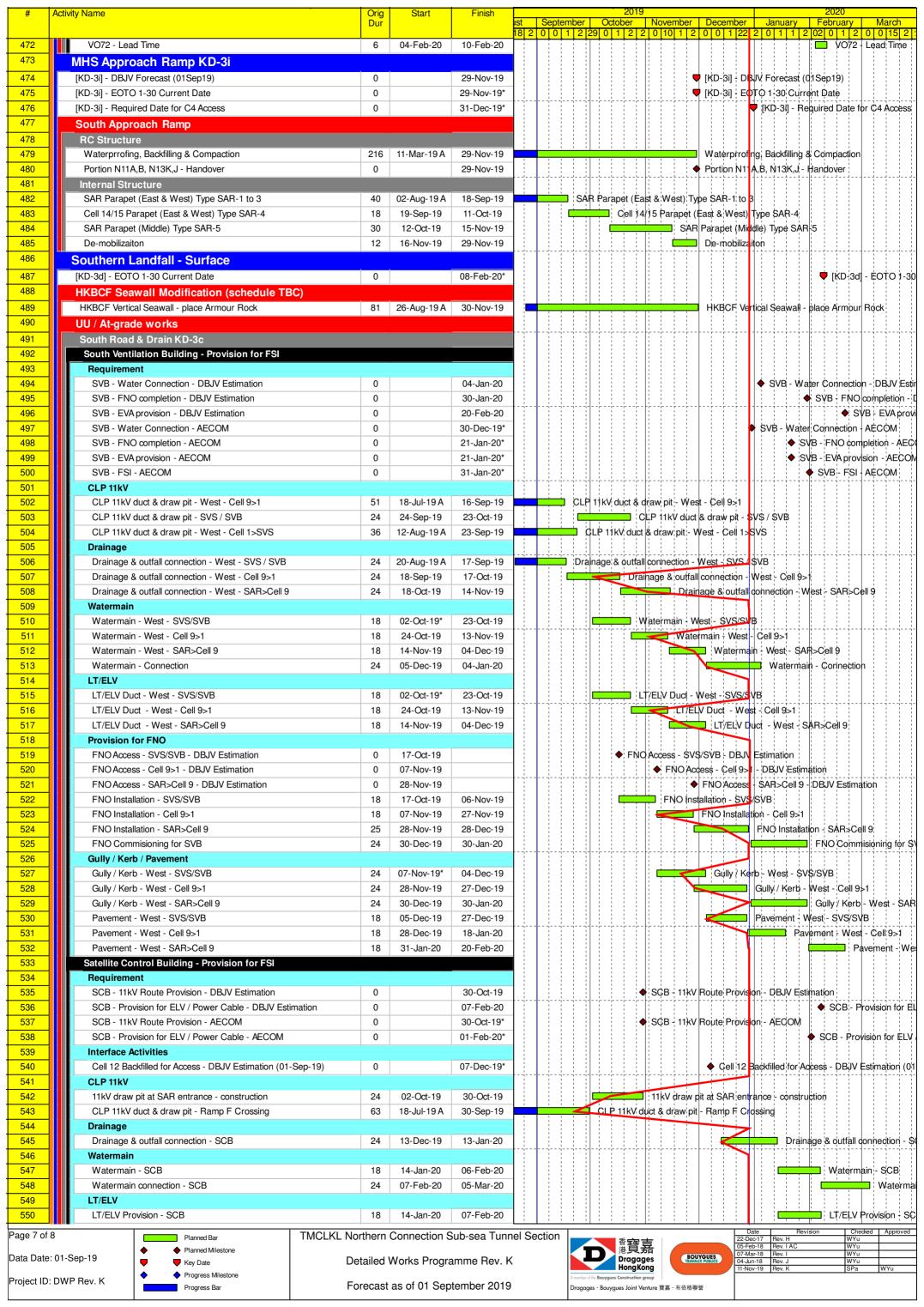


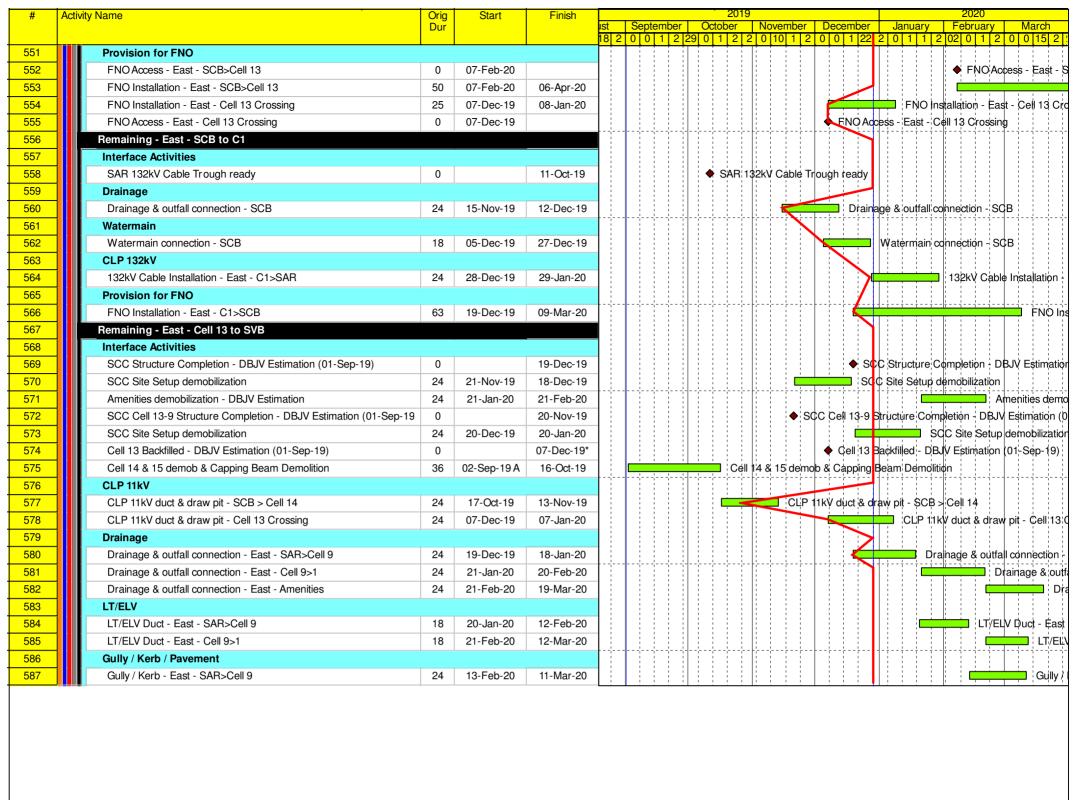


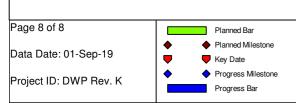


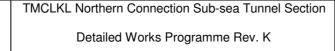












Forecast as of 01 September 2019



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 Reference	Environmental Protection Measures	Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Imp	olementa Stages	tion	Status *
	Reference					D	С	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		-
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.		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	al	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	EM&A Manual Reference	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		Y		√
					conditions.				
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		V

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		√

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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	•	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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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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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		√

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Northern Connection Sub-sea Tunnel Section

Environmental Mitigation and Enhancement Measure Implementation Schedule

EIA Reference	EM&A Manual	al	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

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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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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

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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

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Environmental Mitigation and Enhancement Measure Implementation Schedule

EIA Reference	EM&A Manual		Location/ Timing	Implementation Agent	Relevant Standard or Requirement	Stages		tion	Status *
	Kererence					D	С	O	
		entering (water collected within the bund must be tested and disposed of as chemical waste, if necessary); and f 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 onsite 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.	. 0	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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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	*		•	
	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 NW			
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 : 08/10/2019

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

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	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

Resi	stance 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

Resi	stance 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

Resi	stance 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)

Location : ASR 5
Calibrated by : P.F.Yeung
Date : 08/12/2019

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) : 1022 Ta(K) : 292

Resistance Plate		dH [green liquid]	Z	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	12.2	3.544	1.726	56	56.82
2	13 holes	9.4	3.111	1.516	51	51.75
3	10 holes	6.8	2.646	1.292	45	45.66
4	7 holes	4.7	2.200	1.076	37	37.54
5	5 holes	2.4	1.572	0.773	28	28.41

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

Sampler Calibration Relationship (Linear Regression)

Location : ASR10
Calibrated by : P.F.Yeung
Date : 08/12/2019

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) : 1022 Ta(K) : 292

Resistance Plate		dH [green liquid]	Z	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	12.0	3.515	1.712	54	54.79
2	13 holes	9.2	3.078	1.500	48	48.71
3	10 holes	6.6	2.607	1.273	43	43.63
4	7 holes	4.4	2.128	1.042	35	35.51
5	5 holes	2.5	1.604	0.789	26	26.38

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)

<u>High-Volume TSP Sampler</u> <u>5-Point Calibration Record</u>

Location : AQMS1
Calibrated by : P.F.Yeung
Date : 08/12/2019

Sampler

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) : 1022 Ta(K) : 292

Resi	stance Plate	dH [green liquid]	Z	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	12.0	3.515	1.712	54	54.79
2	13 holes	9.4	3.111	1.516	49	49.72
3	10 holes	6.8	2.646	1.292	44	44.65
4	7 holes	4.4	2.128	1.042	38	38.56
5	5 holes	2.6	1.636	0.804	30	30.44

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

Sampler Calibration Relationship (Linear Regression)

Slope(m):26.190 Intercept(b):10.286 Correlation Coefficient(r): 0.9919

Checked by: Magnum Fan Date: 13/12/2019

<u>High-Volume TSP Sampler</u> 5-Point Calibration Record

Location : ASR 1
Calibrated by : P.F.Yeung
Date : 08/12/2019

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) : 1022 Ta(K) : 292

Resi	stance Plate	dH [green liquid]	Z	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	11.2	3.397	1.654	54	54.79
2	13 holes	9.2	3.078	1.500	50	50.74
3	10 holes	6.6	2.607	1.273	46	46.68
4	7 holes	4.4	2.128	1.042	38	38.56
5	5 holes	2.4	1.572	0.773	28	28.41

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

Sampler Calibration Relationship (Linear Regression)

Slope(m):29.190 Intercept(b):6.981 Correlation Coefficient(r): 0.9904

Checked by: Magnum Fan Date: 13/12/2019

<u>High-Volume TSP Sampler</u> 5-Point Calibration Record

Location : ASR 6
Calibrated by : P.F.Yeung
Date : 08/12/2019

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) : 1022 Ta(K) : 292

Resi	stance Plate	dH [green liquid]	Z	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	12.2	3.544	1.726	55	55.81
2	13 holes	9.4	3.1111	1.516	50	50.74
3	10 holes	6.7	2.626	1.282	45	45.66
4	7 holes	4.5	2.153	1.054	38	38.56
5	5 holes	2.7	1.667	0.819	30	30.44

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

Sampler Calibration Relationship (Linear Regression)

Slope(m): <u>27.678</u> Intercept(b): <u>8.828</u> Correlation Coefficient(r): <u>0.9952</u>

Checked by: Magnum Fan Date: 13/12/2019



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/∆Time	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 校正證書

Certificate No.:

C193443

證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號: IC19-1283)

Date of Receipt / 收件日期: 21 June 2019

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 :

 $(23 \pm 2)^{\circ}$ C

Relative Humidity / 相對濕度 :

 $(50 \pm 25)\%$

Line Voltage / 電壓 :

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期

2 July 2019

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

TF Lee

Assistant Engineer

Certified By

核證

H C Chan

Date of Issue

5 July 2019

簽發日期

Engineer

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 校正談書

Certificate No.: (

C193443

證書編號

1. 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:

Equipment ID CL386

Description

Multi-function Measuring Instrument

Certificate No.

S16493

4. Test procedure: MA130N.

5. Results:

Air Velocity

Applied	UUT		Measured Correction	
Value	Reading	Value Measurement Uncertainty		ertainty
(m/s)	(m/s)	(m/s)	Expanded Uncertainty (m/s)	Coverage Factor
2.0	1.8	+0.2	0.2	2.0
4.0	3.8	+0.2	0.3	2.0
6.0	5.8	+0.2	0.3	2.0
8.1	7.9	+0.2	0.3	2.0
10.1	10.0	+0.1	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)



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.

AI090154

Date of Issue

02 October 2019

Page No.

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 ProDSS (Multi-Parameters)

Manufacturer

YSI (a xylem brand)

Serial Number

16H104233

Date of Received

Sep 27, 2019

Date of Calibration

Sep 27, 2019

Date of Next Calibration(a)

Dec 26, 2019

PART C – REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

Parameter

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	4.03	0.03	Satisfactory
7.42	7.44	0.02	Satisfactory
10.01	10.06	0.05	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
10.0	10.0	0.0	Satisfactory
22.0	22.1	0.1	Satisfactory
42.0	42.2	0.2	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.



REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No.

AI090154

Date of Issue

: 02 October 2019

Page No.

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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
0.78	0.75	-0.03	Satisfactory
3.69	3.98	0.29	Satisfactory
5.77	5.4	-0.37	Satisfactory
7.68	7.82	0.14	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	138.9	-5.45	Satisfactory
0.01	1412	1380	-2.27	Satisfactory
0.1	12890	12834	-0.43	Satisfactory
0.5	58670	57663	-1.72	Satisfactory
1.0	111900	109858	-1.82	Satisfactory

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

(5) Salinity

Expected Reading (g/L)	Displayed Reading (g/L)	Tolerance (%)	Results
10	10.16	1.60	Satisfactory
20	20.38	1.90	Satisfactory
30	30.47	1.57	Satisfactory

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

(6) Turbidity

Expected Reading (NTU)	Displayed Reading ^(f) (NTU)	Tolerance ^(g) (%)	Results
0	0.11		Satisfactory
10	9.89	-1.1	Satisfactory
20	19.82	-0.9	Satisfactory
100	97.25	-2.8	Satisfactory
800	780.16	-2.5	Satisfactory

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

~ END OF REPORT ~

Remark(s): -

relevant international standards.

⁽g) "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



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

Report No.

AI100183

Date of Issue

30 October 2019

Page No.

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

00019CB2

Date of Received

Oct 28, 2019

Oct 28, 2019

Date of Calibration

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 APHA 21e 4500-O G

Dissolved Oxygen Conductivity at 25°C

APHA 21e 2510 B

Salinity

APHA 21e 2520 B

Turbidity Temperature APHA 21e 2130 B 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	3.95	-0.05	Satisfactory
7.42	7.36	-0.06	Satisfactory
10.01	9.93	-0.08	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
15.0	15.1	0.1	Satisfactory
25.0	24.9	-0.1	Satisfactory
35.0	34.9	-0.1	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.



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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	0.80	-0.24	Satisfactory
4.10	4.34	0.24	Satisfactory
5,92	5.94	0.02	Satisfactory
7.81	8.07	0.26	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	140.0	-4.70	Satisfactory
0.01	1412	1394	-1.27	Satisfactory
0.1	12890	12780	-0.85	Satisfactory
0.5	58670	57927	-1.27	Satisfactory
1.0	111900	110880	-0.91	Satisfactory

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

(5) Salinity

Expected Reading (g/L)	Displayed Reading (g/L)	Tolerance (%)	Results
10	9.90	-1.00	Satisfactory
20	19.88	-0.60	Satisfactory
30	29.89	-0.37	Satisfactory

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

(6) Turbidity

Expected Reading (NTU)	Displayed Reading ^(f) (NTU)	Tolerance ^(g) (%)	Results
0	0.20		Satisfactory
10	9.98	-0.2	Satisfactory
20	19.88	-0.6	Satisfactory
100	100.20	0.2	Satisfactory
800	798.82	-0.1	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.

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.



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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

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 ~

<u>Remark(s): -</u>

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.



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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



REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

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AI090155

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02 October 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 ProDSS (Multi-Parameters)

Manufacturer

YSI (a xylem brand)

Serial Number

17H105557

Date of Received

Sep 27, 2019

Date of Calibration

Sep 27, 2019

Date of Next Calibration(a)

Dec 26, 2019

PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

Parameter

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	4.05	0.05	Satisfactory
7.42	7.41	-0.01	Satisfactory
10.01	10.11	0.10	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
10.0	10.0	0.0	Satisfactory
22.0	22.1	0.1	Satisfactory
42.0	42.1	0.1	Satisfactory

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

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Remark(s): -

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

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

(d) "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.



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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
0.78	0.72	-0.06	Satisfactory
3.69	4.01	0.32	Satisfactory
5.77	5.38	-0.39	Satisfactory
7.68	7.80	0.12	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	138.2	-5.92	Satisfactory
0.01	1412	1394	-1.27	Satisfactory
0.1	12890	12855	-0.27	Satisfactory
0.5	58670	57582	-1.85	Satisfactory
1.0	111900	109780	-1.89	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	20.41	2.05	Satisfactory
30	30,52	1.73	Satisfactory

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

(6) Turbidity

Expected Reading (NTU)	Displayed Reading ^(f) (NTU)	Tolerance ^(g) (%)	Results
0	0.10		Satisfactory
10	9.94	-0.6	Satisfactory
20	19.86	-0.7	Satisfactory
100	97.43	-2.6	Satisfactory
800	779.37	-2.6	Satisfactory

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

Remark(s): -

[~] END OF REPORT ~

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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No.

AI120101

Date of Issue

24 December 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 ProDSS (Multi-Parameters)

Manufacturer

YSI (a xylem brand)

Serial Number

16H104234

Date of Received

Dec 23, 2019

Date of Calibration

Dec 23, 2019

Date of Next Calibration^(a)

Mar 22, 2020

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	4.07	0.07	Satisfactory
7.42	7.48	0.06	Satisfactory
10.01	10.20	0.19	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	15.2	0.2	Satisfactory
30.0	30.1	0.1	Satisfactory
49.0	49.0	0.0	Satisfactory

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

~ CONTINUED ON NEXT PAGE ~

Remark(s): -

(a) 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.

(d) "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.



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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
0.45	0.55	0.10	Satisfactory
4.27	4.30	0.03	Satisfactory
6.41	6.55	0.14	Satisfactory
8.20	8.31	0.11	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	154.1	4.90	Satisfactory
0.01	1412	1388	-1.70	Satisfactory
0.1	12890	12817	-0.57	Satisfactory
0.5	58670	59446	1.32	Satisfactory
1.0	111900	110937	-0.86	Satisfactory

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

(5) Salinity

Expected Reading (g/L)	Displayed Reading (g/L)	Tolerance (%)	Results	
10	9.92	-0.80	Satisfactory	
20	20.18	0.90	Satisfactory	
30	30.41	1.37	Satisfactory	

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

(6) Turbidity

Expected Reading (NTU)	Displayed Reading ^(f) (NTU)	Tolerance ^(g) (%)	Results
0	0.10	-	Satisfactory
10	10.08	0.8	Satisfactory
20	20.11	0.5	Satisfactory
100	100.37	0.4	Satisfactory
800	798.42	-0.2	Satisfactory

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

~ END OF REPORT ~

Remark(s): -

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

^(#) 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.



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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

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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 ProDSS (Multi-Parameters)

Manufacturer

YSI (a xylem brand)

Serial Number

17H105557

Date of Received

Dec 23, 2019

Date of Calibration

Dec 23, 2019

Date of Next Calibration(a)

Mar 22, 2020

PART C – REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

<u>Parameter</u>

Reference Method

pH at 25°C

APHA 21e 4500-H+ B

Dissolved Oxygen

APHA 21e 4500-O G APHA 21e 2510 B

Conductivity at 25°C 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) nH at 25°C

Target (pH unit)	Displayed Reading(d) (pH Unit)	Tolerance ^(e) (pH Unit)	Results
4.00	4.03	0.03	Satisfactory
7.42	7.44	0.02	Satisfactory
10.01	10.17	0.16	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	14.9	-0.1	Satisfactory	
30.0	30.0	0.0	Satisfactory	
49.0	49.0	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.



QUALITY PRO TEST-CONSULT LIMITED

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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	
0.45	0.58	0.13	Satisfactory	
4.27	4.33	0.06	Satisfactory	
6.41	6.51	0.10	Satisfactory	
8.20	8.29	0.09	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	150.2	2.25	Satisfactory
0.01	1412	1369	-3.05	Satisfactory
0.1	12890	12928	0.29	Satisfactory
0.5	58670	58921	0.43	Satisfactory
1.0	111900	111994	0.08	Satisfactory

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

(5) Salinity

Expected Reading (g/L)	Displayed Reading (g/L)	Tolerance (%)	Results	
10	9.88	-1.20	Satisfactory	
20	19.92	-0.40	Satisfactory	
30	29.58	-1.40	Satisfactory	

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

(6) Turbidity

Expected Reading (NTU)	Displayed Reading ^(f) (NTU)	Tolerance ^(g) (%)	Results
0	0.12		Satisfactory
10	9.98	-0.2	Satisfactory
20	19.88	-0.6	Satisfactory
100	100.33	0.3	Satisfactory
800	797.84	-0.3	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.

⁽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.

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 - December 2019

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

All quality monitoring static	ons: ASR1, ASR5, ASR6, A	SK 10, AQIVIS I	ı	ı	1	1
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
01-Dec	02-Dec	03-Dec	04-Dec	05-Dec	06-Dec	07-Dec
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
08-Dec	09-Dec	10-Dec	11-Dec	12-Dec	13-Dec	14-Dec
		1-hour TSP - 3 times			1-hour TSP - 3 times	
		24-hour TSP - 1 time			24-hour TSP - 1 time	
		Impact AQM			Impact AQM	
15-Dec		17-Dec	18-Dec		20-Dec	21-Dec
	1-hour TSP - 3 times			1-hour TSP - 3 times		
	24-hour TSP - 1 time			24-hour TSP - 1 time		
	Impact AQM			Impact AQM		
22-Dec	23-Dec	24-Dec		Public Holiday 26-Dec	27-Dec	
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
29-Dec	30-Dec					
		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 - January 2020

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

Sunday Monday Tuesday Public Holiday O1-Jan O2-Jan O3-Jan O4-Jan O	, and a second	JIIS. AGICT, AGICG, AGICG, AG					
Public Holiday							
1-hour TSP - 3 times	Sunday	Monday	Tuesday	Wednesday			
24-hour TSP - 1 time				Public Holiday 01-Jan	02-Jan	03-Jan	04-Jan
Marcia AQM Mar						1-hour TSP - 3 times	
1-hour TSP - 3 times 1-hour TSP - 1 time 1-hour TSP - 3 times 24-hour TSP - 1 time 1-hour TSP - 3 times 24-hour TSP - 1 time 1-hour TSP - 3 times 24-hour TSP - 1 time 1-hour TSP - 3 times 24-hour TSP - 1 time 1-hour TSP - 3 times 24-hour TSP - 1 time 1-hour TSP - 3 times						24-hour TSP - 1 time	
1-hour TSP - 3 times 1-hour TSP - 1 time 1-hour TSP - 3 times 24-hour TSP - 1 time 1-hour TSP - 3 times 24-hour TSP - 1 time 1-hour TSP - 3 times 24-hour TSP - 1 time 1-hour TSP - 3 times 24-hour TSP - 1 time 1-hour TSP - 3 times 24-hour TSP - 1 time 1-hour TSP - 3 times							
1-hour TSP - 3 times 1-hour TSP - 1 time 1-hour TSP - 3 times 24-hour TSP - 1 time 1-hour TSP - 3 times 24-hour TSP - 1 time 1-hour TSP - 3 times 24-hour TSP - 1 time 1-hour TSP - 3 times 24-hour TSP - 1 time 1-hour TSP - 3 times 24-hour TSP - 1 time 1-hour TSP - 3 times							
1-hour TSP - 3 times 24-hour TSP - 1 time Impact AQM Impact AQ							
A-hour TSP - 1 time	05-Jan		07-Jan	08-Jan		10-Jan	11-Jan
Impact AQM							
12-Jan 13-Jan 14-Jan 15-Jan 16-Jan 16-Jan 17-Jan 18-Jan 1		24-hour TSP - 1 time			24-hour TSP - 1 time		
12-Jan 13-Jan 14-Jan 15-Jan 16-Jan 17-Jan 18-Jan 1							
12-Jan 13-Jan 14-Jan 15-Jan 16-Jan 16-Jan 17-Jan 18-Jan 1							
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Impact AQM					Impact AOM		

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

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

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
01-Dec			04-Dec		06-Dec	07-Dec
08-Dec	09-Dec	10-Dec Impact Dolphin Monitoring		12-Dec Impact Dolphin Monitoring	13-Dec	14-Dec
15-Dec	16-Dec Impact Dolphin Monitoring	17-Dec	18-Dec	19-Dec	20-Dec	21-Dec
22-Dec	23-Dec	24-Dec	Public holiday 25-Dec	Public holiday 26-Dec	27-Dec	28-Dec
29-Dec	30-Dec	31-Dec				

HY/2012/08 - Tuen Mun - Chek Lap Kok Link Northern Connection Sub-sea Tunnel Section Tentative Impact Dolphin Monitoring Survey Monitoring Schedule - January 2020

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

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

HY/2012/08 - Tuen Mun - Chek Lap Kok Link - Northern Landfall Impact Marine Water Quality Monitoring (WQM) Schedule (December 2019)

Sunday			Wednesday			Saturday
1-Dec		3-Dec			6-Dec	7-Dec
	ebb tide 2:35 - 6:05 flood tide 14:54 - 17:23		ebb tide 5:23 - 7:36 flood tide 12:59 - 16:29		ebb tide 6:16 - 9:46 flood tide 13:57 - 17:27	
8-Dec	9-Dec	10-Dec	11-Dec	12-Dec	13-Dec	14-Dec
	ebb tide 9:09 - 12:39 flood tide 15:09 - 18:39		ebb tide 10:33 - 14:03 flood tide 16:01 - 19:15		ebb tide 11:57 - 15:27 flood tide 7:15 - 10:11	
15-Dec	16-Dec	17-Dec	18-Dec	19-Dec	20-Dec	21-Dec
	ebb tide 14:15 - 17:45 flood tide 9:07 - 12:37		ebb tide 16:20 - 18:35 flood tide 10:59 - 14:29		ebb tide 6:35 - 8:51 flood tide 12:50 - 16:20	
22-Dec	23-Dec	24-Dec	Public Holiday 25-Dec	Public Holiday 26-Dec	27-Dec	28-Dec
	ebb tide 9:08 - 12:38 flood tide 14:48 - 18:18				ebb tide 12:13 - 15:43 flood tide 7:29 - 10:30	
29-Dec	30-Dec	31-Dec				
	ebb tide 14:09 - 17:39 flood tide 9:01 - 12:31					

Appendix G

Impact Air Quality Monitoring Results

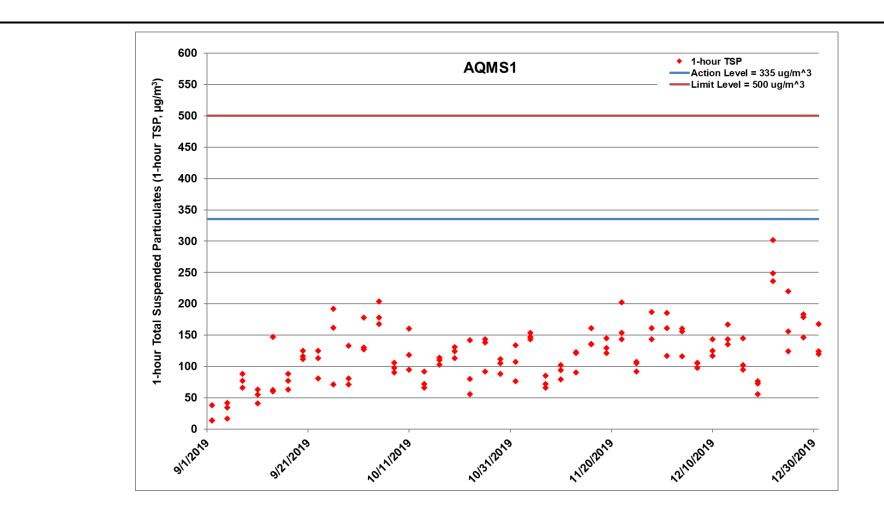


Figure G.1 Impact Monitoring – 1-hour Total Suspended Particulates (μg/m³) at AQMS1 between 1 September 2019 and 31 December 2019 during impact monitoring period. The weather conditions during the monitoring period varied from sunny to cloudy. Major land-based construction activities included: Road & Drainage Works (1/9/2019 – 31/12/2019)



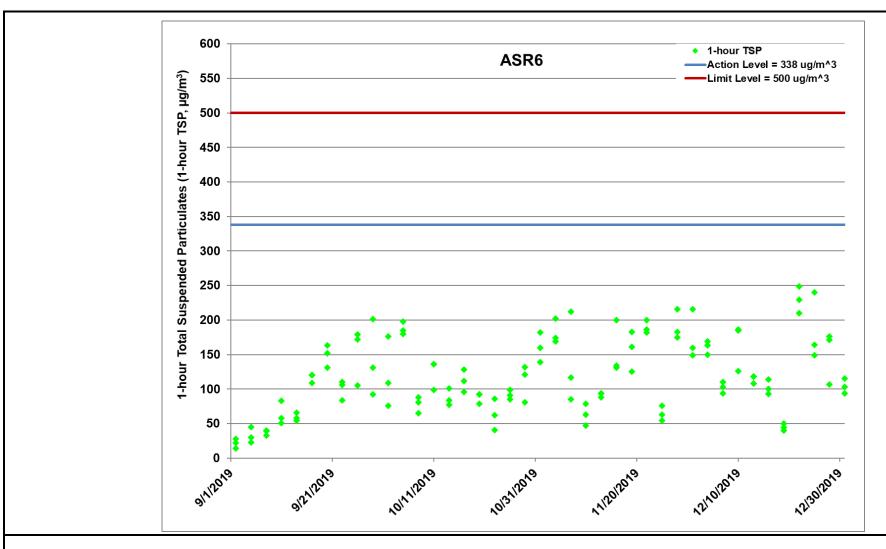


Figure G.2 Impact Monitoring – 1-hour Total Suspended Particulates (μg/m³) at ASR6 between 1 September 2019 and 31 December 2019 during impact monitoring period. The weather conditions during the monitoring period varied from sunny to cloudy. Major land-based construction activities included: Road & Drainage Works (1/9/2019 – 31/12/2019)



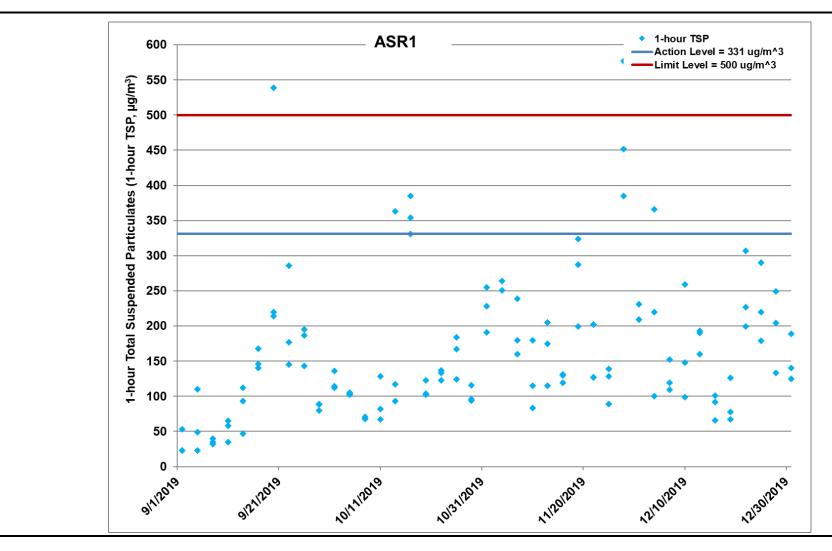


Figure G.3 Impact Monitoring – 1-hour Total Suspended Particulates (μg/m³) at ASR1 between 1 September 2019 and 31 December 2019 during impact monitoring period. The weather conditions during the monitoring period varied from sunny to cloudy. Major land-based construction activities included: Road & Drainage Works (1/9/2019 – 31/12/2019)



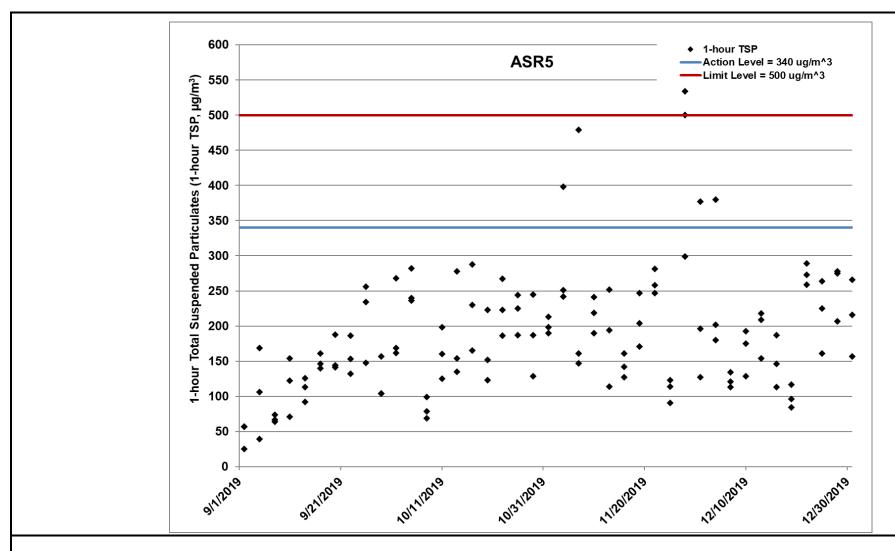


Figure G.4 Impact Monitoring – 1-hour Total Suspended Particulates (μg/m³) at ASR5 between 1 September 2019 and 31 December 2019 during impact monitoring period. The weather conditions during the monitoring period varied from sunny to cloudy. Major land-based construction activities included: Road & Drainage Works (1/9/2019 – 31/12/2019)



Ref: 0212330_Impact AQM graphs_December 2019_REV a.xlsx

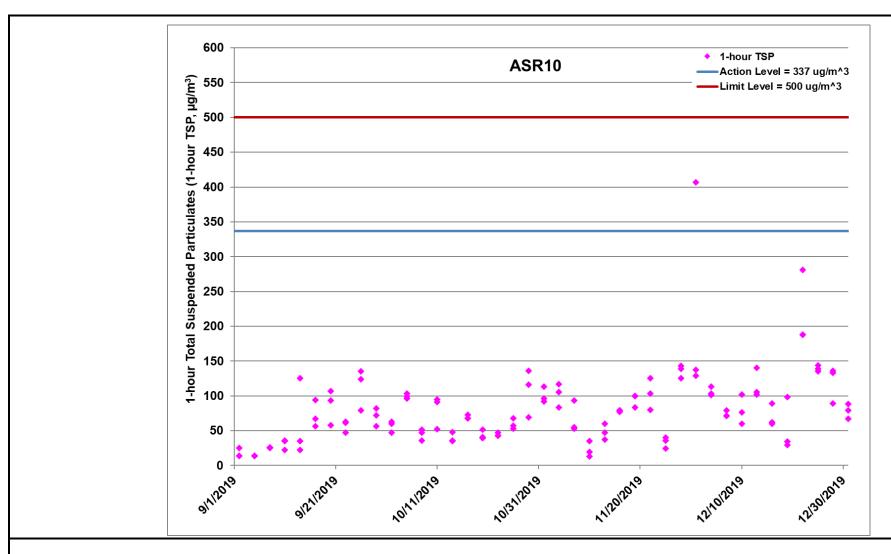


Figure G.5 Impact Monitoring – 1-hour Total Suspended Particulates (μ g/m³) at ASR10 between 1 September 2019 and 31 December 2019 during impact monitoring period. The weather conditions during the monitoring period varied from sunny to cloudy. Major land-based construction activities included: Road & Drainage Works (1/9/2019 – 31/12/2019)



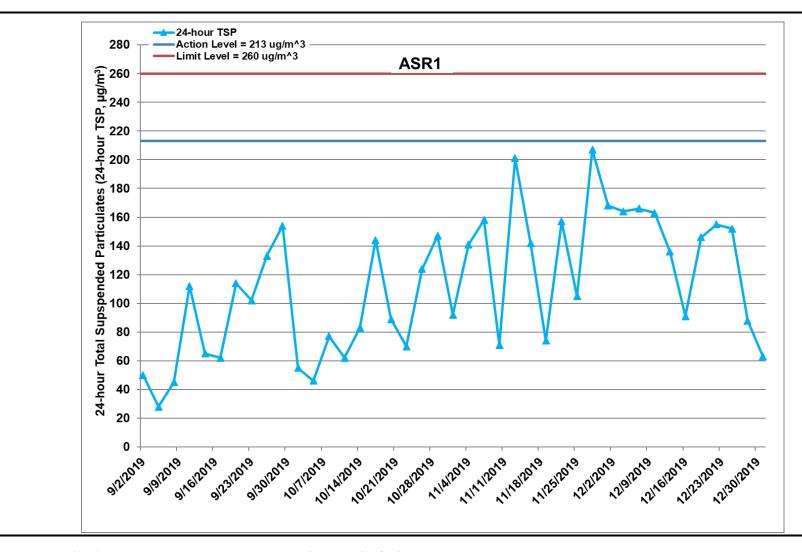


Figure G.6 Impact Monitoring – 24-hour Total Suspended Particulates (μ g/m³) at ASR1 between 1 September 2019 and 31 December 2019 during impact monitoring period. The weather conditions during the monitoring period varied from sunny to cloudy. Major land-based construction activities included: Road & Drainage Works (1/9/2019 – 31/12/2019)



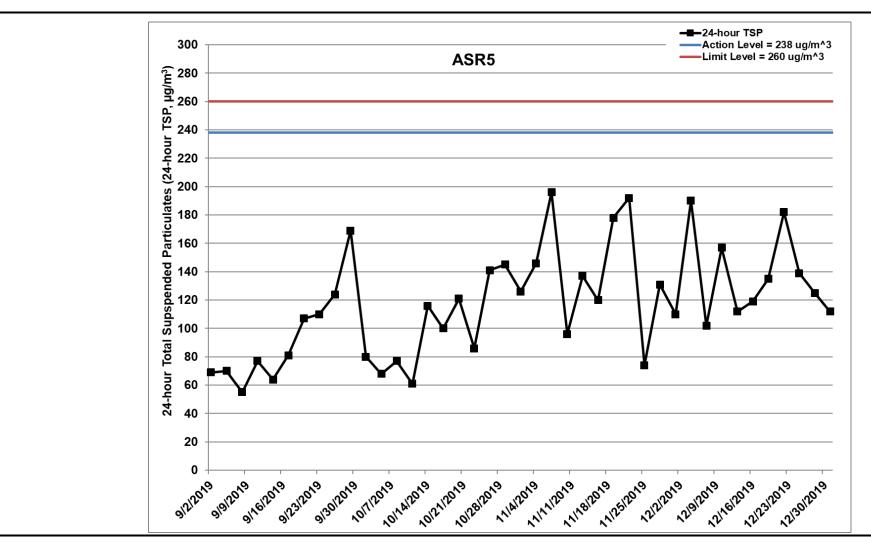


Figure G.7 Impact Monitoring – 24-hour Total Suspended Particulates (μ g/m³) at ASR5 between 1 September 2019 and 31 December 2019 during impact monitoring period. The weather conditions during the monitoring period varied from sunny to cloudy. Major land-based construction activities included: Road & Drainage Works (1/9/2019 – 31/12/2019)



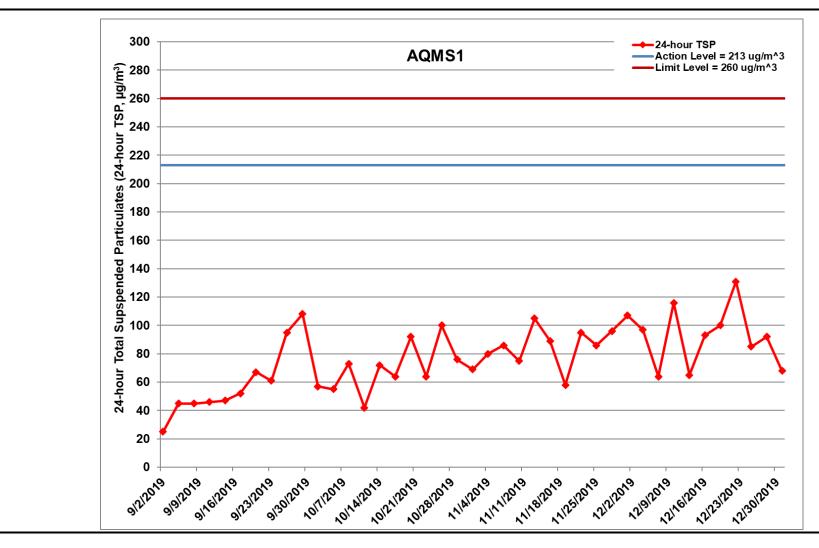


Figure G.8 Impact Monitoring – 24-hour Total Suspended Particulates ($\mu g/m^3$) at AQMS1 between 1 September 2019 and 31 December 2019 during impact monitoring period. The weather conditions during the monitoring period varied from sunny to cloudy. Major land-based construction activities included: Road & Drainage Works (1/9/2019 - 31/12/2019)



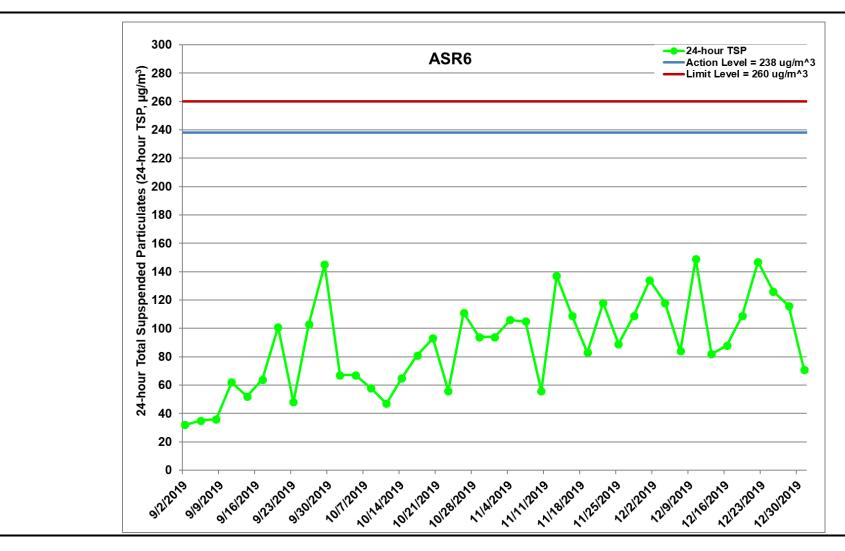


Figure G.9 Impact Monitoring – 24-hour Total Suspended Particulates (μ g/m³) at ASR6 between 1 September 2019 and 31 December 2019 during impact monitoring period. The weather conditions during the monitoring period varied from sunny to cloudy. Major land-based construction activities included: Road & Drainage Works (1/9/2019 – 31/12/2019)



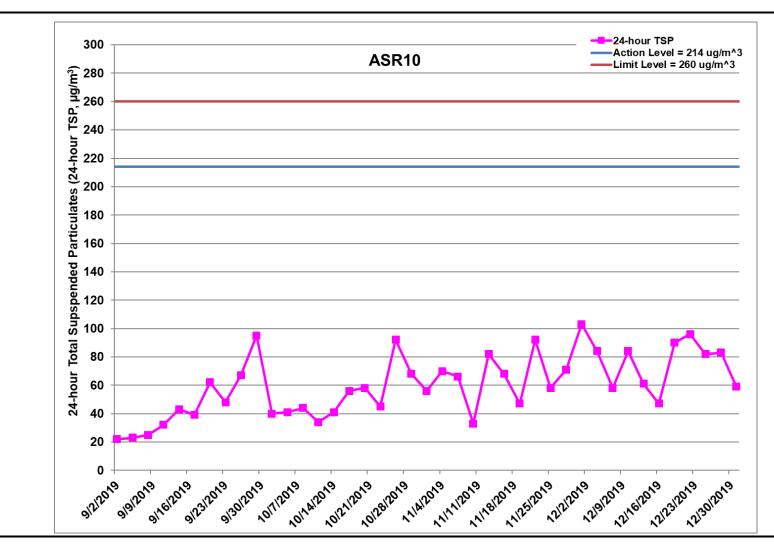


Figure G.10 Impact Monitoring – 24-hour Total Suspended Particulates (μ g/m³) at ASR10 between 1 September 2019 and 31 December 2019 during impact monitoring period. The weather conditions during the monitoring period varied from sunny to cloudy. Major land-based construction activities included: Road & Drainage Works (1/9/2019 - 31/12/2019)



Project	Contract	Date	Station	Weather	Start time	Parameters	Results	units
TMCLKL	HY/2012/08	2019-12-01	AQMS1	Sunny	17:04	24-hour TSP	107	ug/m3
TMCLKL	HY/2012/08	2019-12-01	ASR1	Sunny	16:53	24-hour TSP	168	ug/m3
TMCLKL	HY/2012/08	2019-12-01	ASR10	Sunny	16:17	24-hour TSP	103	ug/m3
TMCLKL	HY/2012/08	2019-12-01	ASR5	Sunny	16:42	24-hour TSP	110	ug/m3
TMCLKL	HY/2012/08	2019-12-01	ASR6	Sunny	16:29	24-hour TSP	134	ug/m3
TMCLKL	HY/2012/08	2019-12-04	AQMS1	Sunny	11:55	24-hour TSP	97	ug/m3
TMCLKL	HY/2012/08	2019-12-04	ASR1	Sunny	11:43	24-hour TSP	164	ug/m3
TMCLKL	HY/2012/08	2019-12-04	ASR10	Sunny	11:08	24-hour TSP	84	ug/m3
TMCLKL	HY/2012/08	2019-12-04	ASR5	Sunny	11:31	24-hour TSP	190	ug/m3
TMCLKL	HY/2012/08	2019-12-04	ASR6	Sunny	11:19	24-hour TSP	118	ug/m3
TMCLKL	HY/2012/08	2019-12-07	AQMS1	Sunny	12:12	24-hour TSP	64	ug/m3
TMCLKL	HY/2012/08	2019-12-07	ASR1	Sunny	12:01	24-hour TSP	166	ug/m3
TMCLKL	HY/2012/08	2019-12-07	ASR10	Sunny	11:27	24-hour TSP	58	ug/m3
TMCLKL	HY/2012/08	2019-12-07	ASR5	Sunny	11:49	24-hour TSP	102	ug/m3
TMCLKL	HY/2012/08	2019-12-07	ASR6	Sunny	11:37	24-hour TSP	84	ug/m3
TMCLKL	HY/2012/08	2019-12-10	AQMS1	Sunny	11:55	24-hour TSP	116	ug/m3
TMCLKL	HY/2012/08	2019-12-10	ASR1	Sunny	11:43	24-hour TSP	163	ug/m3
TMCLKL	HY/2012/08	2019-12-10	ASR10	Sunny	11:10	24-hour TSP	84	ug/m3
TMCLKL	HY/2012/08	2019-12-10	ASR5	Sunny	11:32	24-hour TSP	157	ug/m3
TMCLKL	HY/2012/08	2019-12-10	ASR6	Sunny	11:21	24-hour TSP	149	ug/m3
TMCLKL	HY/2012/08	2019-12-13	AQMS1	Sunny	12:09	24-hour TSP	65	ug/m3
TMCLKL	HY/2012/08	2019-12-13	ASR1	Sunny	11:58	24-hour TSP	136	ug/m3
TMCLKL	HY/2012/08	2019-12-13	ASR10	Sunny	11:26	24-hour TSP	61	ug/m3
TMCLKL	HY/2012/08	2019-12-13	ASR5	Sunny	11:47	24-hour TSP	112	ug/m3
TMCLKL	HY/2012/08	2019-12-13	ASR6	Sunny	11:36	24-hour TSP	82	ug/m3
TMCLKL	HY/2012/08	2019-12-16	AQMS1	Sunny	16:53	24-hour TSP	93	ug/m3
TMCLKL	HY/2012/08	2019-12-16	ASR1	Sunny	16:42	24-hour TSP	91	ug/m3
TMCLKL	HY/2012/08	2019-12-16	ASR10	Sunny	16:07	24-hour TSP	47	ug/m3
TMCLKL	HY/2012/08	2019-12-16	ASR5	Sunny	16:30	24-hour TSP	119	ug/m3
TMCLKL	HY/2012/08	2019-12-16	ASR6	Sunny	16:18	24-hour TSP	88	ug/m3

Project	Contract	Date	Station	Weather	Start time	Parameters	Results	units
TMCLKL	HY/2012/08	2019-12-19	AQMS1	Sunny	11:55	24-hour TSP	100	ug/m3
TMCLKL	HY/2012/08	2019-12-19	ASR1	Sunny	11:43	24-hour TSP	146	ug/m3
TMCLKL	HY/2012/08	2019-12-19	ASR10	Sunny	11:10	24-hour TSP	90	ug/m3
TMCLKL	HY/2012/08	2019-12-19	ASR5	Sunny	11:32	24-hour TSP	135	ug/m3
TMCLKL	HY/2012/08	2019-12-19	ASR6	Sunny	11:20	24-hour TSP	109	ug/m3
TMCLKL	HY/2012/08	2019-12-22	AQMS1	Sunny	12:06	24-hour TSP	131	ug/m3
TMCLKL	HY/2012/08	2019-12-22	ASR1	Sunny	11:54	24-hour TSP	155	ug/m3
TMCLKL	HY/2012/08	2019-12-22	ASR10	Sunny	11:19	24-hour TSP	96	ug/m3
TMCLKL	HY/2012/08	2019-12-22	ASR5	Sunny	11:41	24-hour TSP	182	ug/m3
TMCLKL	HY/2012/08	2019-12-22	ASR6	Sunny	11:29	24-hour TSP	147	ug/m3
TMCLKL	HY/2012/08	2019-12-25	AQMS1	Sunny	16:53	24-hour TSP	85	ug/m3
TMCLKL	HY/2012/08	2019-12-25	ASR1	Sunny	16:41	24-hour TSP	152	ug/m3
TMCLKL	HY/2012/08	2019-12-25	ASR10	Sunny	16:06	24-hour TSP	82	ug/m3
TMCLKL	HY/2012/08	2019-12-25	ASR5	Sunny	16:30	24-hour TSP	139	ug/m3
TMCLKL	HY/2012/08	2019-12-25	ASR6	Sunny	16:18	24-hour TSP	126	ug/m3
TMCLKL	HY/2012/08	2019-12-28	AQMS1	Sunny	13:53	1-hour TSP	179	ug/m3
TMCLKL	HY/2012/08	2019-12-28	AQMS1	Sunny	14:55	1-hour TSP	183	ug/m3
TMCLKL	HY/2012/08	2019-12-28	AQMS1	Sunny	15:57	1-hour TSP	146	ug/m3
TMCLKL	HY/2012/08	2019-12-28	ASR1	Sunny	13:41	1-hour TSP	249	ug/m3
TMCLKL	HY/2012/08	2019-12-28	ASR1	Sunny	14:43	1-hour TSP	204	ug/m3
TMCLKL	HY/2012/08	2019-12-28	ASR1	Sunny	15:45	1-hour TSP	133	ug/m3
TMCLKL	HY/2012/08	2019-12-28	ASR10	Sunny	13:06	1-hour TSP	136	ug/m3
TMCLKL	HY/2012/08	2019-12-28	ASR10	Sunny	14:08	1-hour TSP	133	ug/m3
TMCLKL	HY/2012/08	2019-12-28	ASR10	Sunny	15:10	1-hour TSP	89	ug/m3
TMCLKL	HY/2012/08	2019-12-28	ASR5	Sunny	13:29	1-hour TSP	275	ug/m3
TMCLKL	HY/2012/08	2019-12-28	ASR5	Sunny	14:31	1-hour TSP	278	ug/m3
TMCLKL	HY/2012/08	2019-12-28	ASR5	Sunny	15:33	1-hour TSP	207	ug/m3
TMCLKL	HY/2012/08	2019-12-28	ASR6	Sunny	13:17	1-hour TSP	176	ug/m3
TMCLKL	HY/2012/08	2019-12-28	ASR6	Sunny	14:19	1-hour TSP	171	ug/m3
TMCLKL	HY/2012/08	2019-12-28	ASR6	Sunny	15:21	1-hour TSP	107	ug/m3

Project	Contract	Date	Station	Weather	Start time	Parameters	Results	units
TMCLKL	HY/2012/08	2019-12-31	AQMS1	Sunny	13:47	1-hour TSP	120	ug/m3
TMCLKL	HY/2012/08	2019-12-31	AQMS1	Sunny	14:49	1-hour TSP	124	ug/m3
TMCLKL	HY/2012/08	2019-12-31	AQMS1	Sunny	15:51	1-hour TSP	168	ug/m3
TMCLKL	HY/2012/08	2019-12-31	ASR1	Sunny	13:35	1-hour TSP	125	ug/m3
TMCLKL	HY/2012/08	2019-12-31	ASR1	Sunny	14:37	1-hour TSP	189	ug/m3
TMCLKL	HY/2012/08	2019-12-31	ASR1	Sunny	15:39	1-hour TSP	140	ug/m3
TMCLKL	HY/2012/08	2019-12-31	ASR10	Sunny	13:00	1-hour TSP	79	ug/m3
TMCLKL	HY/2012/08	2019-12-31	ASR10	Sunny	14:02	1-hour TSP	67	ug/m3
TMCLKL	HY/2012/08	2019-12-31	ASR10	Sunny	15:04	1-hour TSP	88	ug/m3
TMCLKL	HY/2012/08	2019-12-31	ASR5	Sunny	13:24	1-hour TSP	266	ug/m3
TMCLKL	HY/2012/08	2019-12-31	ASR5	Sunny	14:26	1-hour TSP	157	ug/m3
TMCLKL	HY/2012/08	2019-12-31	ASR5	Sunny	15:28	1-hour TSP	216	ug/m3
TMCLKL	HY/2012/08	2019-12-31	ASR6	Sunny	13:13	1-hour TSP	94	ug/m3
TMCLKL	HY/2012/08	2019-12-31	ASR6	Sunny	14:15	1-hour TSP	103	ug/m3
TMCLKL	HY/2012/08	2019-12-31	ASR6	Sunny	15:17	1-hour TSP	115	ug/m3
TMCLKL	HY/2012/08	2019-12-01	AQMS1	Sunny	17:04	24-hour TSP	107	ug/m3
TMCLKL	HY/2012/08	2019-12-01	ASR1	Sunny	16:53	24-hour TSP	168	ug/m3
TMCLKL	HY/2012/08	2019-12-01	ASR10	Sunny	16:17	24-hour TSP	103	ug/m3
TMCLKL	HY/2012/08	2019-12-01	ASR5	Sunny	16:42	24-hour TSP	110	ug/m3
TMCLKL	HY/2012/08	2019-12-01	ASR6	Sunny	16:29	24-hour TSP	134	ug/m3
TMCLKL	HY/2012/08	2019-12-04	AQMS1	Sunny	11:55	24-hour TSP	97	ug/m3
TMCLKL	HY/2012/08	2019-12-04	ASR1	Sunny	11:43	24-hour TSP	164	ug/m3
TMCLKL	HY/2012/08	2019-12-04	ASR10	Sunny	11:08	24-hour TSP	84	ug/m3
TMCLKL	HY/2012/08	2019-12-04	ASR5	Sunny	11:31	24-hour TSP	190	ug/m3
TMCLKL	HY/2012/08	2019-12-04	ASR6	Sunny	11:19	24-hour TSP	118	ug/m3
TMCLKL	HY/2012/08	2019-12-07	AQMS1	Sunny	12:12	24-hour TSP	64	ug/m3
TMCLKL	HY/2012/08	2019-12-07	ASR1	Sunny	12:01	24-hour TSP	166	ug/m3
TMCLKL	HY/2012/08	2019-12-07	ASR10	Sunny	11:27	24-hour TSP	58	ug/m3
TMCLKL	HY/2012/08	2019-12-07	ASR5	Sunny	11:49	24-hour TSP	102	ug/m3
TMCLKL	HY/2012/08	2019-12-07	ASR6	Sunny	11:37	24-hour TSP	84	ug/m3

Project	Contract	Date	Station	Weather	Start time	Parameters	Results	units
TMCLKL	HY/2012/08	2019-12-10	AQMS1	Sunny	11:55	24-hour TSP	116	ug/m3
TMCLKL	HY/2012/08	2019-12-10	ASR1	Sunny	11:43	24-hour TSP	163	ug/m3
TMCLKL	HY/2012/08	2019-12-10	ASR10	Sunny	11:10	24-hour TSP	84	ug/m3
TMCLKL	HY/2012/08	2019-12-10	ASR5	Sunny	11:32	24-hour TSP	157	ug/m3
TMCLKL	HY/2012/08	2019-12-10	ASR6	Sunny	11:21	24-hour TSP	149	ug/m3
TMCLKL	HY/2012/08	2019-12-13	AQMS1	Sunny	12:09	24-hour TSP	65	ug/m3
TMCLKL	HY/2012/08	2019-12-13	ASR1	Sunny	11:58	24-hour TSP	136	ug/m3
TMCLKL	HY/2012/08	2019-12-13	ASR10	Sunny	11:26	24-hour TSP	61	ug/m3
TMCLKL	HY/2012/08	2019-12-13	ASR5	Sunny	11:47	24-hour TSP	112	ug/m3
TMCLKL	HY/2012/08	2019-12-13	ASR6	Sunny	11:36	24-hour TSP	82	ug/m3
TMCLKL	HY/2012/08	2019-12-16	AQMS1	Sunny	16:53	24-hour TSP	93	ug/m3
TMCLKL	HY/2012/08	2019-12-16	ASR1	Sunny	16:42	24-hour TSP	91	ug/m3
TMCLKL	HY/2012/08	2019-12-16	ASR10	Sunny	16:07	24-hour TSP	47	ug/m3
TMCLKL	HY/2012/08	2019-12-16	ASR5	Sunny	16:30	24-hour TSP	119	ug/m3
TMCLKL	HY/2012/08	2019-12-16	ASR6	Sunny	16:18	24-hour TSP	88	ug/m3
TMCLKL	HY/2012/08	2019-12-19	AQMS1	Sunny	11:55	24-hour TSP	100	ug/m3
TMCLKL	HY/2012/08	2019-12-19	ASR1	Sunny	11:43	24-hour TSP	146	ug/m3
TMCLKL	HY/2012/08	2019-12-19	ASR10	Sunny	11:10	24-hour TSP	90	ug/m3
TMCLKL	HY/2012/08	2019-12-19	ASR5	Sunny	11:32	24-hour TSP	135	ug/m3
TMCLKL	HY/2012/08	2019-12-19	ASR6	Sunny	11:20	24-hour TSP	109	ug/m3
TMCLKL	HY/2012/08	2019-12-22	AQMS1	Sunny	12:06	24-hour TSP	131	ug/m3
TMCLKL	HY/2012/08	2019-12-22	ASR1	Sunny	11:54	24-hour TSP	155	ug/m3
TMCLKL	HY/2012/08	2019-12-22	ASR10	Sunny	11:19	24-hour TSP	96	ug/m3
TMCLKL	HY/2012/08	2019-12-22	ASR5	Sunny	11:41	24-hour TSP	182	ug/m3
TMCLKL	HY/2012/08	2019-12-22	ASR6	Sunny	11:29	24-hour TSP	147	ug/m3
TMCLKL	HY/2012/08	2019-12-25	AQMS1	Sunny	16:53	24-hour TSP	85	ug/m3
TMCLKL	HY/2012/08	2019-12-25	ASR1	Sunny	16:41	24-hour TSP	152	ug/m3
TMCLKL	HY/2012/08	2019-12-25	ASR10	Sunny	16:06	24-hour TSP	82	ug/m3
TMCLKL	HY/2012/08	2019-12-25	ASR5	Sunny	16:30	24-hour TSP	139	ug/m3
TMCLKL	HY/2012/08	2019-12-25	ASR6	Sunny	16:18	24-hour TSP	126	ug/m3

Project	Contract	Date	Station	Weather	Start time	Parameters	Results	units
TMCLKL	HY/2012/08	2019-12-28	AQMS1	Sunny	16:59	24-hour TSP	92	ug/m3
TMCLKL	HY/2012/08	2019-12-28	ASR1	Sunny	16:47	24-hour TSP	88	ug/m3
TMCLKL	HY/2012/08	2019-12-28	ASR10	Sunny	16:12	24-hour TSP	83	ug/m3
TMCLKL	HY/2012/08	2019-12-28	ASR5	Sunny	16:35	24-hour TSP	125	ug/m3
TMCLKL	HY/2012/08	2019-12-28	ASR6	Sunny	16:23	24-hour TSP	116	ug/m3
TMCLKL	HY/2012/08	2019-12-31	AQMS1	Sunny	16:53	24-hour TSP	68	ug/m3
TMCLKL	HY/2012/08	2019-12-31	ASR1	Sunny	16:41	24-hour TSP	63	ug/m3
TMCLKL	HY/2012/08	2019-12-31	ASR10	Sunny	16:06	24-hour TSP	59	ug/m3
TMCLKL	HY/2012/08	2019-12-31	ASR5	Sunny	16:30	24-hour TSP	112	ug/m3
TMCLKL	HY/2012/08	2019-12-31	ASR6	Sunny	16:19	24-hour TSP	71	ug/m3

Appendix H

Meteorological Data

	<u>Mete</u>	orological Data for Impact Monitoring in	
Date (yy-mm-dd)	Time (24hrs)	Average of Wind Speed (m/s)	Average of Wind Direction(degree)
19/12/01	1:00	1.3	304
19/12/01	2:00	1.3	319
19/12/01	3:00	0.9	303
19/12/01	4:00	0.4	290
19/12/01	5:00	0.4	339
19/12/01	6:00	0	-
19/12/01	7:00	0	-
19/12/01	8:00	1.3	28
19/12/01	9:00	1.3	28
19/12/01	10:00	1.8	207
19/12/01	11:00	1.3	210
19/12/01	12:00	1.8	309
19/12/01	13:00	2.7	273
19/12/01	14:00	2.2	288
19/12/01	15:00	1.8	272
19/12/01	16:00	0.9	302
19/12/01	17:00	0.9	319
19/12/01	18:00	0.9	288
19/12/01	19:00	1.3	289
19/12/01	20:00	1.3	315
19/12/01	21:00	2.2	309
19/12/01	22:00	1.8	311
19/12/01	23:00	1.3	318
19/12/02	0:00	1.8	313
19/12/02	1:00	1.3	303
19/12/02	2:00	1.3	312
19/12/02	3:00	1.3	299
19/12/02	4:00	0.9	284
19/12/02	5:00	1.3	283
19/12/02	6:00	1.3	297
19/12/02	7:00	1.3	17
19/12/02	8:00	1.8	354
19/12/02	9:00	2.2	333
19/12/02	10:00	3.6	318
19/12/02	11:00	4	305
19/12/02	12:00	3.6	325
19/12/02	13:00	3.1	342
19/12/02	14:00	3.1	304
		3.1	310
19/12/02	15:00	2.2	
19/12/02	16:00		335
19/12/02	17:00	2.7	326
19/12/02	18:00	3.1	326
19/12/02	19:00	2.7	330
19/12/02	20:00	3.1	327
19/12/02	21:00	4.5	326
19/12/02	22:00	4.5	14
19/12/02	23:00	4	29
19/12/04	0:00	1.8	328
19/12/04	1:00	2.7	30
19/12/04	2:00	2.2	25
19/12/04	3:00	1.8	13
19/12/04	4:00	1.8	19
19/12/04	5:00	2.7	355
19/12/04	6:00	1.8	339
19/12/04	7:00	1.8	339
19/12/04	8:00	3.1	356
19/12/04	9:00	2.7	14
19/12/04	10:00	2.2	28

	Mete	eorological 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)
19/12/04	11:00	2.2	16
19/12/04	12:00	1.8	31
19/12/04	13:00	1.8	31
19/12/04	14:00	1.3	306
19/12/04	15:00	2.2	325
19/12/04	16:00	1.8	345
19/12/04	17:00	1.8	341
19/12/04	18:00	0.9	306
19/12/04	19:00	0.4	292
19/12/04	20:00	0.4	311
19/12/04	21:00	1.3	14
19/12/04	22:00	1.3	56
19/12/04	23:00	1.8	28
19/12/05	0:00	2.7	16
19/12/05	1:00	2.7	4
19/12/05	2:00	1.8	2
19/12/05	3:00	2.2	334
19/12/05	4:00	2.7	337
19/12/05	5:00	0.9	330
19/12/05	6:00	0.9	358
19/12/05	7:00	1.3	24
19/12/05	8:00	1.3	24
19/12/05	9:00	1.8	27
19/12/05	10:00	2.2	92
19/12/05	11:00	1.3	19
19/12/05	12:00	1.3	33
19/12/05	13:00	1.3	28
19/12/05	14:00	1.3	24
			341
19/12/05	15:00	1.3	
19/12/05	16:00	0.9	334
19/12/05	17:00	1.3	330
19/12/05	18:00	1.8	344
19/12/05	19:00	1.8	326
19/12/05	20:00	1.8	6
19/12/05	21:00	1.8	12
19/12/05	22:00	2.2	3
19/12/05	23:00	2.2	13
19/12/07	1:00	4.5	340
19/12/07	2:00	4.5	354
19/12/07	3:00	4.5	351
19/12/07	4:00	4	342
19/12/07	5:00	1.8	330
19/12/07	6:00	2.7	328
19/12/07	7:00	3.1	340
19/12/07	8:00	4	27
19/12/07	9:00	4.9	29
19/12/07	10:00	4.9	15
19/12/07	11:00	4.5	16
19/12/07	12:00	2.7	33
19/12/07	13:00	3.1	23
19/12/07	14:00	3.6	29
19/12/07	15:00	4	21
19/12/07	16:00	2.7	337
19/12/07	17:00	2.7	329
19/12/07	18:00	3.6	334
19/12/07	19:00	2.2	327
19/12/07	20:00	0.4	14
19/12/07	21:00	0.9	358

	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)
19/12/07	22:00	0.9	356
19/12/07	23:00	1.3	355
19/12/08	0:00	2.2	2
19/12/08	1:00	3.1	339
19/12/08	2:00	2.2	5
19/12/08	3:00	2.7	3
19/12/08	4:00	2.2	4
19/12/08	5:00	1.8	16
19/12/08	6:00	1.8	35
19/12/08	7:00	2.2	24
19/12/08	8:00	2.7	15
19/12/08	9:00	3.6	15
19/12/08	10:00	2.2	25
19/12/08	11:00	1.8	21
19/12/08	12:00	1.8	20
19/12/08	13:00	1.3	28
19/12/08	14:00	1.3	15
19/12/08	15:00	1.3	22
19/12/08	16:00	1.3	4
19/12/08	17:00	1.3	121
19/12/08	18:00	0.4	1
19/12/08	19:00	0.4	1
19/12/08	20:00	0.9	324
19/12/08	21:00	0.9	320
	22:00	0.9	304
19/12/08			
19/12/08	23:00	0.9	312
19/12/10	0:00	0	-
19/12/10	1:00	0.4	78
19/12/10	2:00	0	-
19/12/10	3:00	0.4	300
19/12/10	4:00	0.9	339
19/12/10	5:00	0.9	327
19/12/10	6:00	0.4	345
19/12/10	7:00	0	-
19/12/10	8:00	0.4	79
19/12/10	9:00	0.9	88
19/12/10	10:00	0.9	122
19/12/10	11:00	0.9	171
19/12/10	12:00	0.9	195
19/12/10	13:00	0.9	259
19/12/10	14:00	1.3	225
19/12/10	15:00	0.9	261
19/12/10	16:00	0.4	209
19/12/10	17:00	0.4	278
19/12/10	18:00	0.9	308
19/12/10	19:00	0.4	308
19/12/10	20:00	0.9	314
19/12/10	21:00	1.8	312
19/12/10	22:00	0.9	321
19/12/10	23:00	0.9	311
19/12/11	0:00	0.4	313
19/12/11	1:00	0.4	321
19/12/11	2:00	0.9	322
19/12/11	3:00	0.9	306
19/12/11	4:00	0.4	315
19/12/11	5:00	0.4	326
19/12/11	6:00	0.9	310
19/12/11	7:00	0.4	94

	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)
19/12/11	8:00	0.9	193
19/12/11	9:00	1.3	12
19/12/11	10:00	1.3	157
19/12/11	11:00	1.3	196
19/12/11	12:00	0.9	202
19/12/11	13:00	1.8	195
19/12/11	14:00	1.3	199
19/12/11	15:00	0.9	265
19/12/11	16:00	0.9	191
	17:00	0.9	
19/12/11 19/12/11	18:00	0.9	77 52
19/12/11	19:00	0.9	39
19/12/11	20:00	0	-
19/12/11	21:00	0.4	55
19/12/11	22:00	0.4	45
19/12/11	23:00	0.9	77
19/12/13	0:00	1.8	57
19/12/13	1:00	2.2	56
19/12/13	2:00	1.3	70
19/12/13 19/12/13	3:00	0.9	69 69
19/12/13	4:00	0.9	48
19/12/13	5:00	1.3	54
19/12/13	6:00 7:00	1.3	68
19/12/13	8:00	1.3	58
19/12/13	9:00	2.2	89
19/12/13	10:00	2.2	95
19/12/13	11:00	2.2	96
19/12/13	12:00	2.2	140
19/12/13	13:00	1.3	96
19/12/13	14:00	1.3	96
19/12/13	15:00	0.9	59
19/12/13	16:00	0.9	91
19/12/13	17:00	0	-
19/12/13	18:00	0	-
19/12/13	19:00	0	-
19/12/13	20:00	0	-
19/12/13	21:00	0	-
19/12/13	22:00	0	-
19/12/13	23:00	0.4	42
19/12/14	0:00	0.9	20
19/12/14	1:00	0.9	31
19/12/14	2:00	0.4	46
19/12/14	3:00	0	-
19/12/14	4:00	0	-
19/12/14	5:00	0	-
19/12/14	6:00	0	-
19/12/14	7:00	0	-
19/12/14	8:00	0.4	92
19/12/14	9:00	1.3	142
19/12/14	10:00	0.9	135
19/12/14	11:00	1.3	125
19/12/14	12:00	1.3	127
19/12/14	13:00	1.3	144
19/12/14	14:00	1.3	208
19/12/14	15:00	0.9	248
19/12/14	16:00	0.4	231
19/12/14	17:00	0.4	123
19/12/14	18:00	0.9	79
19/12/14	19:00	1.8	60
19/12/14	20:00	1.8	96

	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)
19/12/14	21:00	0.9	45
19/12/14	22:00	1.3	72
19/12/14	23:00	1.3	78
19/12/16	0:00	1.8	56
19/12/16	1:00	2.7	89
19/12/16	2:00	2.7	88
19/12/16	3:00	1.3	36
19/12/16	4:00	1.3	29
19/12/16	5:00	2.2	77
19/12/16	6:00	2.2	74
19/12/16	7:00	1.8	87
19/12/16	8:00	1.8	81
19/12/16	9:00	1.8	68
19/12/16	10:00	0.9	74
19/12/16	11:00	0.9	45
19/12/16	12:00	0.9	103
19/12/16	13:00	0.4	117
19/12/16	14:00	0.4	208
19/12/16	15:00	0.4	
19/12/16	16:00	0.4	194
19/12/16		0.4	174
19/12/16 19/12/16	17:00	0.9	- 79
	18:00		77
19/12/16	19:00	1.3	
19/12/16	20:00	1.3	55
19/12/16	21:00	1.3	50
19/12/16	22:00	0.9	35
19/12/16	23:00	0.4	85
19/12/17	0:00	0.4	42
19/12/17	1:00	0.4	57
19/12/17	2:00	0.4	72
19/12/17	3:00	0.4	63
19/12/17	4:00	0.9	59
19/12/17	5:00	0.9	55
19/12/17	6:00	0.4	32
19/12/17	7:00	0	-
19/12/17	8:00	0	-
19/12/17	9:00	0	-
19/12/17	10:00	0.4	127
19/12/17	11:00	0.9	129
19/12/17	12:00	1.3	199
19/12/17	13:00	1.3	210
19/12/17	14:00	1.8	191
19/12/17	15:00	1.3	214
19/12/17	16:00	1.3	201
19/12/17	17:00	0.4	192
19/12/17	18:00	0	-
19/12/17	19:00	0.9	56
19/12/17	20:00	0.4	47
19/12/17	21:00	0.4	35
19/12/17	22:00	0.4	53
19/12/17	23:00	0.4	40
19/12/19	0:00	3.1	87
19/12/19	1:00	2.7	101
19/12/19	2:00	2.7	101
19/12/19	3:00	2.7	98
19/12/19	4:00	2.7	100
19/12/19	5:00	2.7	87
19/12/19	6:00	2.2	84
19/12/19		1.8	93
	7:00		
19/12/19	8:00	1.8	112
19/12/19	9:00	1.3	133
19/12/19	10:00	1.8	97
19/12/19	11:00	2.2	84

	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)
19/12/19	12:00	1.3	133
19/12/19	13:00	2.7	293
19/12/19	14:00	3.6	319
19/12/19	15:00	2.7	309
19/12/19	16:00	3.1	312
19/12/19	17:00	0.9	281
19/12/19	18:00	1.3	300
19/12/19	19:00	0.9	303
19/12/19	20:00	0.9	316
19/12/19	21:00	1.3	12
19/12/19	22:00	1.3	358
19/12/19	23:00	0.9	347
19/12/20	0:00	1.3	11
19/12/20	1:00	1.8	3
19/12/20	2:00	1.8	15
19/12/20	3:00	1.8	30
19/12/20	4:00	1.3	329
19/12/20	5:00	1.8	5
19/12/20	6:00	1.8	27
19/12/20	7:00	2.2	12
19/12/20		1.8	
19/12/20 19/12/20	8:00	0.9	32
	9:00		
19/12/20	10:00	0.9	98
19/12/20	11:00	0.9	129
19/12/20	12:00	1.3	137
19/12/20	13:00	2.2	261
19/12/20	14:00	2.7	262
19/12/20	15:00	2.7	292
19/12/20	16:00	1.8	294
19/12/20	17:00	0.4	134
19/12/20	18:00	1.3	128
19/12/20	19:00	1.3	126
19/12/20	20:00	0.9	101
19/12/20	21:00	0.9	99
19/12/20	22:00	0.9	31
19/12/20	23:00	0.9	22
19/12/22	0:00	0	-
19/12/22	1:00	0	-
19/12/22	2:00	0	-
19/12/22	3:00	0	-
19/12/22	4:00	0	-
19/12/22	5:00	0	-
19/12/22	6:00	0	-
19/12/22	7:00	0	-
19/12/22	8:00	0.4	199
19/12/22	9:00	0.9	123
19/12/22	10:00	2.2	281
19/12/22	11:00	1.8	282
19/12/22	12:00	1.3	287
19/12/22	13:00	1.8	259
19/12/22	14:00	1.3	268
19/12/22	15:00	0.4	275
19/12/22	16:00	1.3	301
19/12/22	17:00	0.9	301
19/12/22	18:00	0.4	340
19/12/22	19:00	0.4	52
19/12/22	20:00	0.4	309
19/12/22		0.4	
19/12/22	21:00	0.4	328
19/12/22	22:00	0.4	310
	23:00		
19/12/23	0:00	1.3	285
19/12/23	1:00	0.9	309
19/12/23	2:00	0	-

Time (24hrs) 3:00 4:00 5:00	Average of Wind Speed (m/s) 0	Average of Wind Direction(degree)
4:00		-
5.00	0	-
	0	-
6:00	0.4	61
7:00	0.9	39
8:00	2.2	84
9:00	2.7	99
		100
		90
		101
		101
		90
		99
		96
<u> </u>		82
		81
19:00		86
20:00		82
21:00	2.7	91
22:00	2.7	68
23:00	3.1	85
0:00	1.3	94
1:00	0.9	34
2:00	0.4	31
3:00	0.9	77
4:00	0.9	63
5:00	1.3	74
6:00	0.9	93
7:00	0.9	58
8:00	2.2	87
9:00	1.3	56
10:00	2.2	88
11:00	2.2	136
12:00	1.8	138
13:00	1.8	108
14:00	2.2	142
15:00	1.3	140
16:00	1.3	145
17:00	0.9	92
	0	-
19:00	0.4	6
20:00	0	-
21:00	0	-
22:00	0.4	355
23:00	0.9	312
0:00	0	-
1:00	0	-
2:00	0	-
3:00	0	-
4:00	0	-
5:00	0	-
		285
<u> </u>		298
		119
		149
		315
		302
		271
		277
		308
		320
		312
17:00	1.8	266
	20:00 21:00 21:00 22:00 23:00 0:00 1:00 2:00 3:00 4:00 5:00 6:00 7:00 8:00 9:00 10:00 11:00 12:00 13:00 14:00 15:00 16:00 17:00 18:00 19:00 20:00 21:00 22:00 23:00 0:00 1:00 4:00	11:00 2.7 13:00 3.1 14:00 3.1 14:00 3.1 14:00 3.1 14:00 2.7 17:00 2.2 18:00 2.7 17:00 2.2 18:00 2.7 19:00 3.1 20:00 3.1

	Mete	orological Data for Impact Monitoring in	n the reporting period			
Date (yy-mm-dd)	nte (yy-mm-dd) Time (24hrs) Average of Wind Spe		Average of Wind Direction(degree)			
19/12/26	18:00	2.2	330			
19/12/26	19:00	1.3	317			
19/12/26	20:00	1.3	311			
19/12/26	21:00	2.7	326			
19/12/26	22:00	0.9	347			
19/12/26	23:00	1.3	314			
19/12/28	0:00	1.3	352			
19/12/28	1:00	0.9	342			
19/12/28	2:00	1.3	355			
19/12/28	3:00	1.3	19			
19/12/28	4:00	1.3	19			
19/12/28	5:00	0.9	34			
19/12/28	6:00	1.3	31			
19/12/28	7:00	1.3	23			
19/12/28	8:00	1.3	21			
19/12/28	9:00	1.3	41			
19/12/28	_	1.3	93			
19/12/28	10:00	1.3	103			
	11:00	1.3				
19/12/28	12:00		196			
19/12/28	13:00	1.8	263			
19/12/28	14:00	1.3	294			
19/12/28	15:00	1.3	293			
19/12/28	16:00	1.3	283			
19/12/28	17:00	1.3	321			
19/12/28	18:00	1.3	323			
19/12/28	19:00	1.3	307			
19/12/28	20:00	0.4	322			
19/12/28	21:00	0	-			
19/12/28	22:00	0	-			
19/12/28	23:00	0	-			
19/12/29	0:00	0.4	93			
19/12/29	1:00	0.4	351			
19/12/29	2:00	0.4	23			
19/12/29	3:00	0.9	359			
19/12/29	4:00	0.9	354			
19/12/29	5:00	0.4	29			
19/12/29	6:00	1.3	85			
19/12/29	7:00	1.3	98			
19/12/29	8:00	0.9	91			
19/12/29	9:00	0.4	36			
19/12/29	10:00	0.4	53			
19/12/29	11:00	0.9	29			
19/12/29	12:00	0.4	172			
19/12/29	13:00	0	-			
19/12/29	14:00	0.4	255			
19/12/29	15:00	0	-			
19/12/29	16:00	0.4	140			
19/12/29	17:00	0.4	91			
19/12/29	18:00	0.4	64			
19/12/29	19:00	0.4	19			
19/12/29	20:00	0.9	14			
19/12/29	21:00	0.4	50			
19/12/29	22:00	0.9	61			
19/12/29	23:00	0.4	87			
19/12/29	0:00	0.4	74			
19/12/31	1:00	0.4	72			
		1.3	89			
19/12/31	2:00					
19/12/31	3:00	0.9	73			
19/12/31	4:00	0.4	72			
19/12/31	5:00	0	-			
19/12/31	6:00	0	-			
19/12/31	7:00	0.4	24			
19/12/31	8:00	0.9	86			

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)				
19/12/31	9:00	0.9	115				
19/12/31	10:00	1.8	99				
19/12/31	11:00	1.3	67				
19/12/31	12:00	1.3	66				
19/12/31	13:00	1.8	69				
19/12/31	14:00	1.8	90				
19/12/31	15:00	0.9	90				
19/12/31	16:00	1.8	92				
19/12/31	17:00	1.8	93				
19/12/31	18:00	1.8	98				
19/12/31	19:00	2.7	90				
19/12/31	20:00	2.2	75				
19/12/31	21:00	2.2	56				
19/12/31	22:00	1.3	45				
19/12/31	23:00	1.3	63				

Appendix I

Impact Dolphin Monitoring Survey

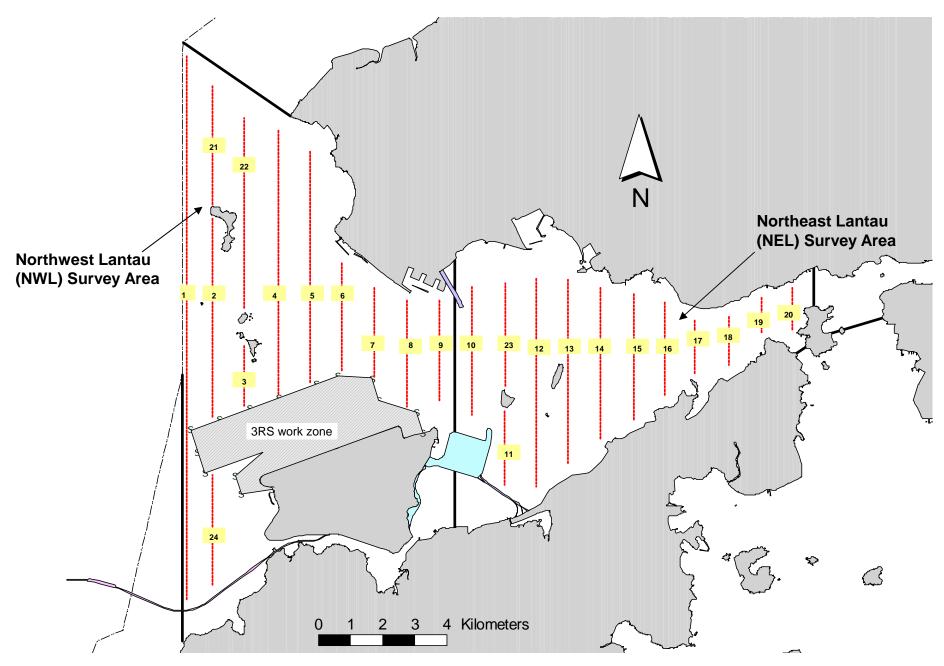


Figure 1. Transect Line Layout in Northwest and Northeast Lantau Survey Areas

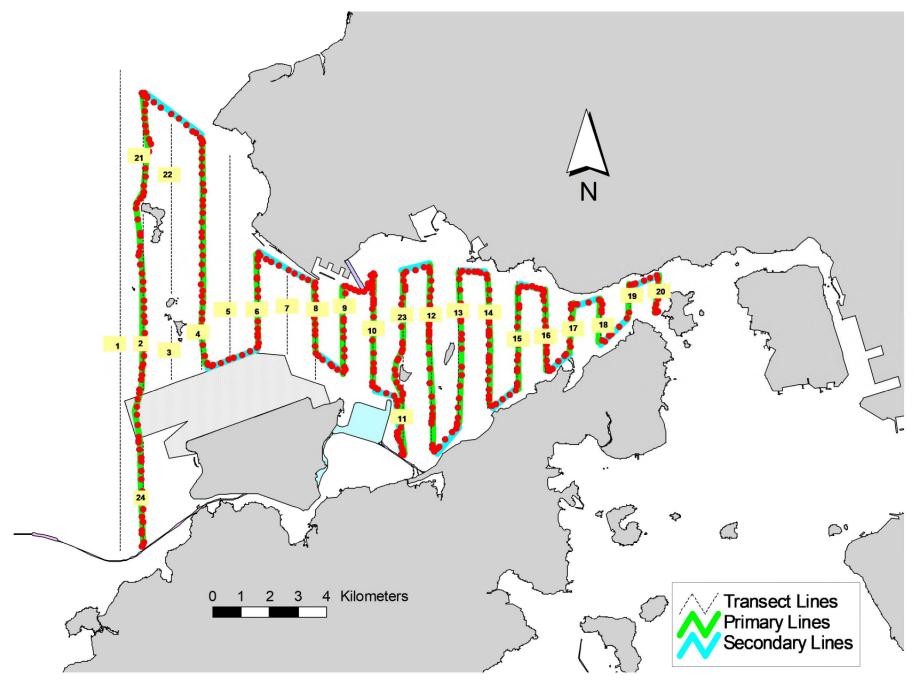


Figure 2. Survey Route on December 3rd, 2019

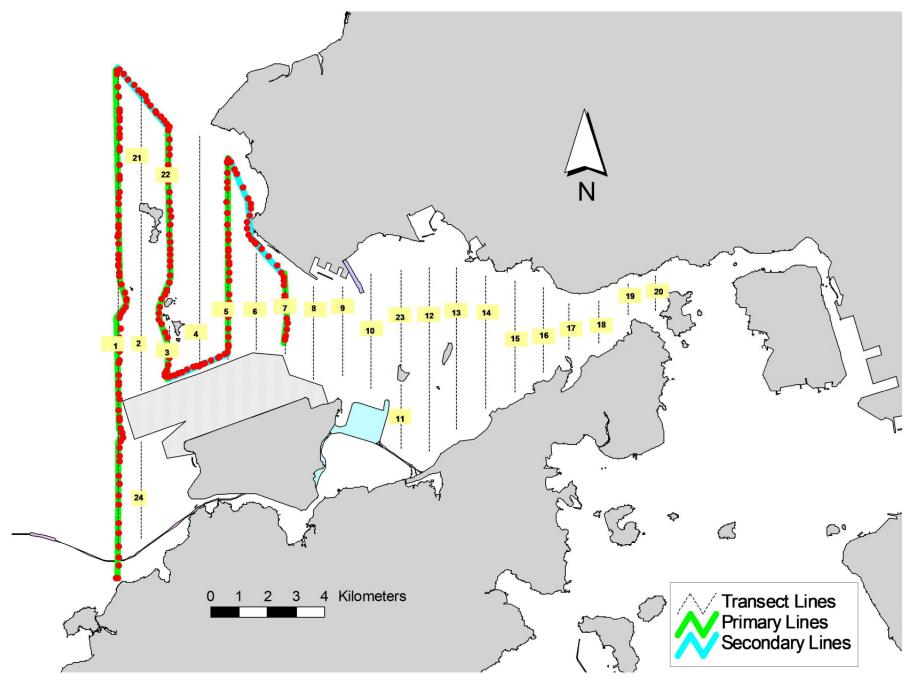


Figure 3. Survey Route on December 10th, 2019

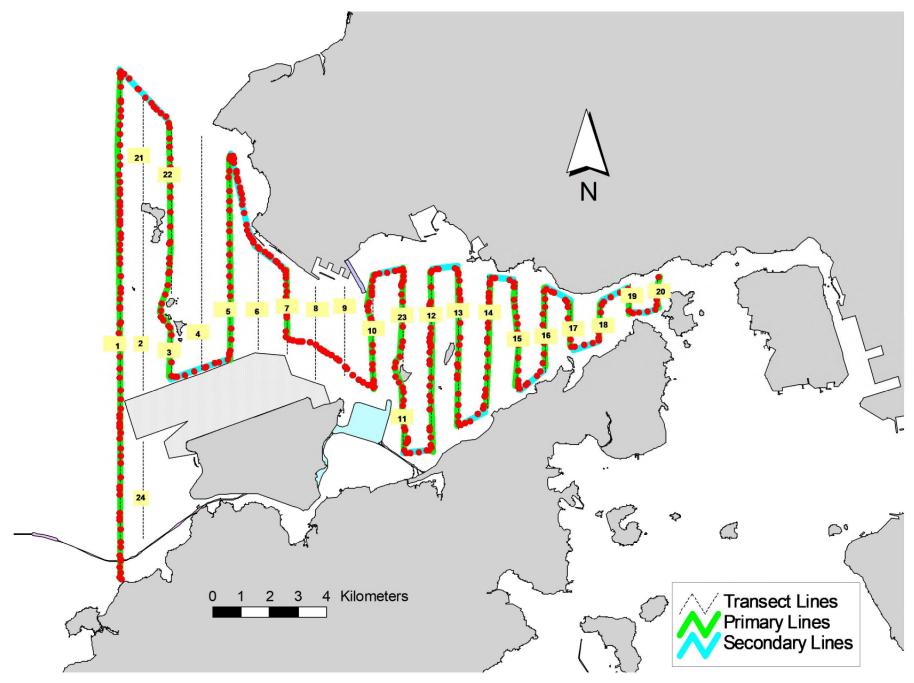


Figure 4. Survey Route on December 12th, 2019

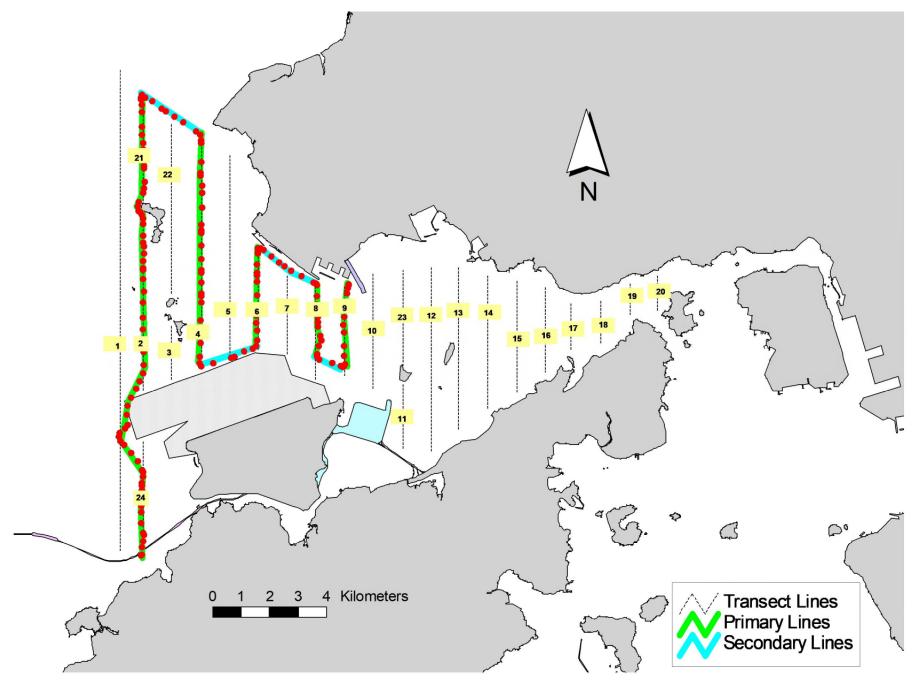


Figure 5. Survey Route on December 16th, 2019

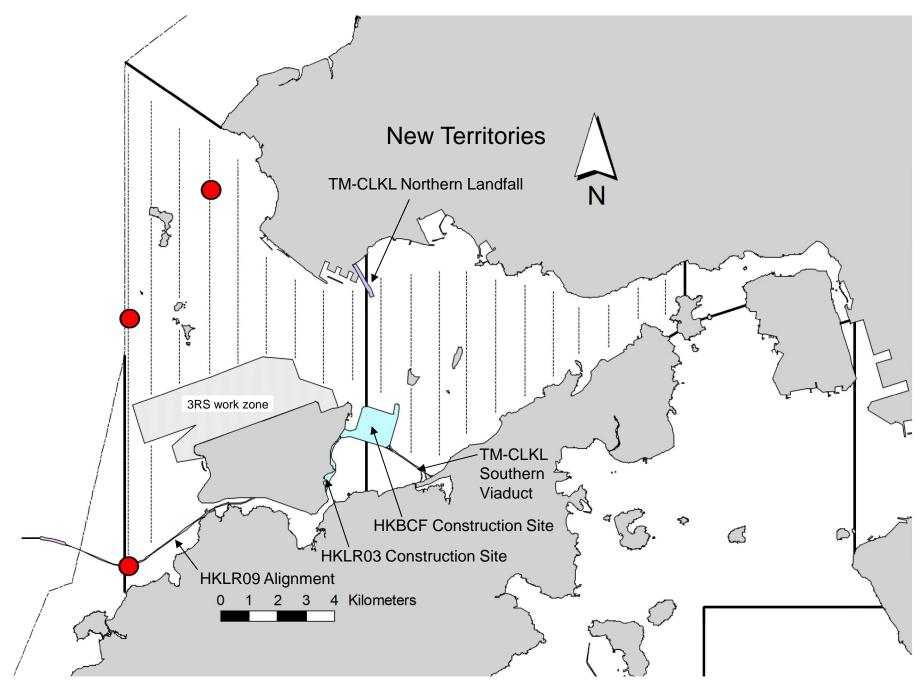


Figure 6. Distribution of Chinese White Dolphin Sightings during December 2019 Monitoring Surveys

Appendix I. TMCLKL Survey Effort Database (December 2019)

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

DATE	AREA	BEAU	EFFORT	SEASON	VESSEL	TYPE	P/S
3-Dec-19	NW LANTAU	2	12.20	WINTER	STANDARD36826	TMCLKL	Р
3-Dec-19	NW LANTAU	3	14.35	WINTER	STANDARD36826	TMCLKL	Р
3-Dec-19	NW LANTAU	2	2.10	WINTER	STANDARD36826	TMCLKL	S
3-Dec-19	NW LANTAU	3	10.85	WINTER	STANDARD36826	TMCLKL	S
3-Dec-19	NE LANTAU	2	35.34	WINTER	STANDARD36826	TMCLKL	Р
3-Dec-19	NE LANTAU	2	13.06	WINTER	STANDARD36826	TMCLKL	S
3-Dec-19	NE LANTAU	3	1.20	WINTER	STANDARD36826	TMCLKL	S
10-Dec-19	NW LANTAU	1	2.21	WINTER	STANDARD36826	TMCLKL	Р
10-Dec-19	NW LANTAU	2	30.56	WINTER	STANDARD36826	TMCLKL	Р
10-Dec-19	NW LANTAU	1	1.72	WINTER	STANDARD36826	TMCLKL	S
10-Dec-19	NW LANTAU	2	9.41	WINTER	STANDARD36826	TMCLKL	S
12-Dec-19	NW LANTAU	1	1.88	WINTER	STANDARD36826	TMCLKL	Р
12-Dec-19	NW LANTAU	2	20.64	WINTER	STANDARD36826	TMCLKL	Р
12-Dec-19	NW LANTAU	3	9.32	WINTER	STANDARD36826	TMCLKL	Р
12-Dec-19	NW LANTAU	2	9.59	WINTER	STANDARD36826	TMCLKL	S
12-Dec-19	NW LANTAU	3	1.29	WINTER	STANDARD36826	TMCLKL	S
12-Dec-19	NE LANTAU	2	35.13	WINTER	STANDARD36826	TMCLKL	Р
12-Dec-19	NE LANTAU	2	11.07	WINTER	STANDARD36826	TMCLKL	S
16-Dec-19	NW LANTAU	0	1.25	WINTER	STANDARD36826	TMCLKL	Р
16-Dec-19	NW LANTAU	1	7.14	WINTER	STANDARD36826	TMCLKL	Р
16-Dec-19	NW LANTAU	2	19.38	WINTER	STANDARD36826	TMCLKL	Р
16-Dec-19	NW LANTAU	1	1.60	WINTER	STANDARD36826	TMCLKL	S
16-Dec-19	NW LANTAU	2	10.73	WINTER	STANDARD36826	TMCLKL	S

Appendix II. TMCLKL Chinese White Dolphin Sighting Database (December 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
12-Dec-19	1	1016	11	NW LANTAU	2	55	ON	TMCLKL	815115	804650	WINTER	NONE	Р
12-Dec-19	2	1112	1	NW LANTAU	3	36	ON	TMCLKL	823299	804678	WINTER	NONE	Р
16-Dec-19	1	1126	1	NW LANTAU	2	674	ON	TMCLKL	827556	807529	WINTER	NONE	Р

Appendix III. Individual dolphins identified during TMCLKL monitoring surveys in (December 2019)

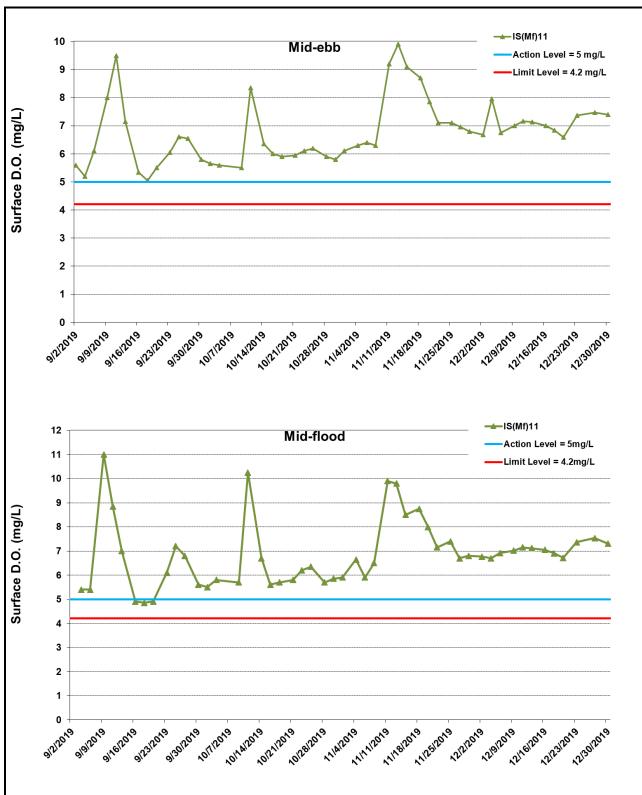
ID#	DATE	STG#	AREA
CH108	12/12/19	1	NW LANTAU
NL33	12/12/19	1	NW LANTAU
NL120	12/12/19	1	NW LANTAU
NL123	16/12/19	1	NW LANTAU
WL100	12/12/19	1	NW LANTAU
WL145	12/12/19	1	NW LANTAU
WL214	12/12/19	1	NW LANTAU
WL268	12/12/19	2	NW LANTAU
WL284	12/12/19	1	NW LANTAU



Appendix IV. Photographs of Identified Individual Dolphins in December 2019 (TMCLKL)

Appendix J

Impact Water Quality Monitoring Results

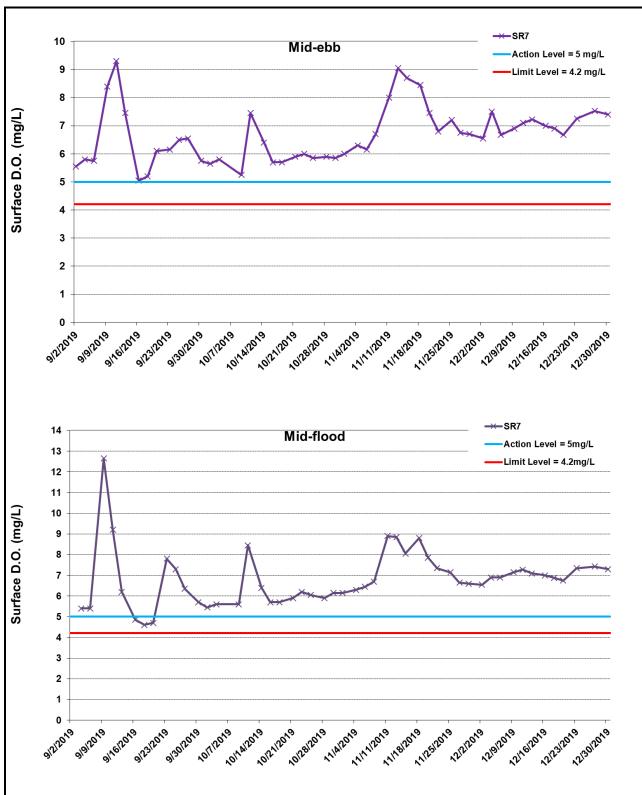


^{*} The AL/LL for WQM stations, IS(Mf)11, IS17 and SR7, are adopted from HZMB HKBCF project.

Figure J1 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in surface waters between 1 September 2019 and 31 December 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 (1/9/2019 – 31/12/2019).



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

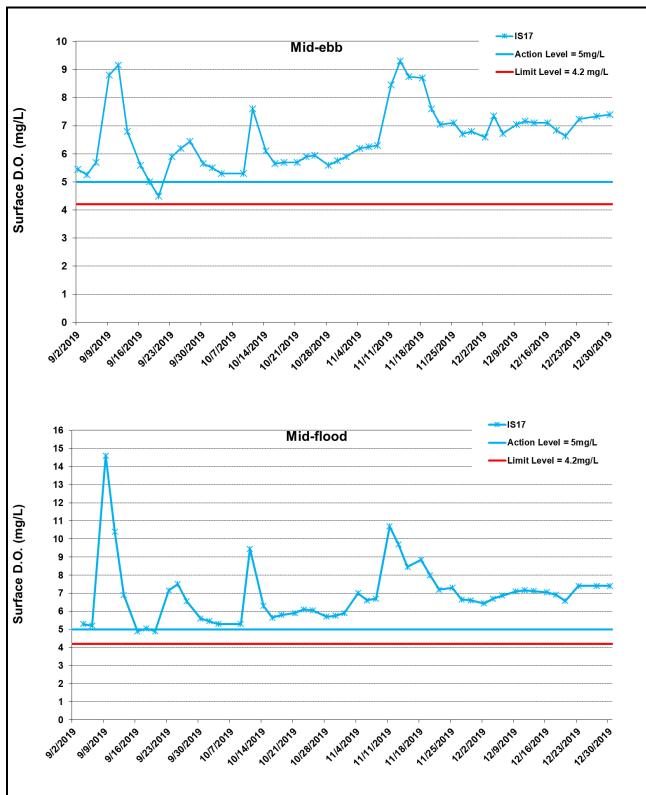


^{*} The AL/LL for WQM stations, IS(Mf)11, IS17 and SR7, are adopted from HZMB HKBCF project.

Figure J2 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in surface waters between 1 September 2019 and 31 December 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 (1/9/2019 – 31/12/2019).



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

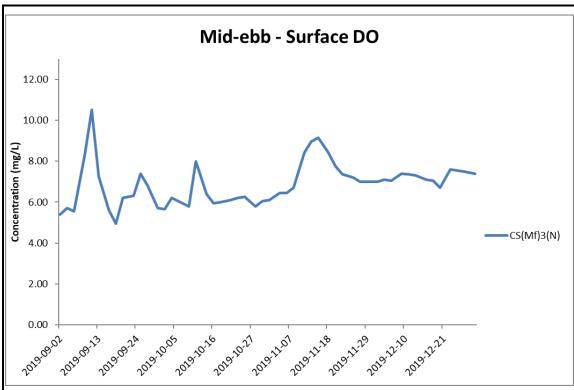


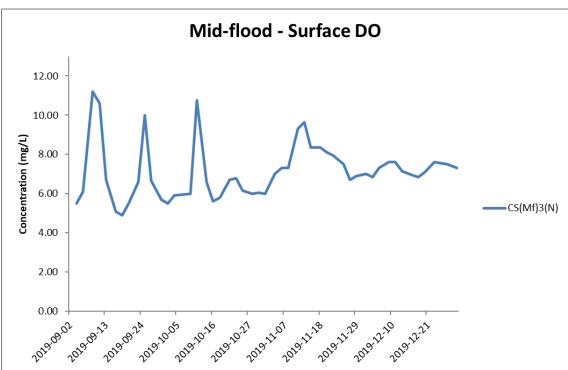
^{*} The AL/LL for WQM stations, IS(Mf)11, IS17 and SR7, are adopted from HZMB HKBCF project.

Figure J3 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in surface waters between 1 September 2019 and 31 December 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 (1/9/2019 – 31/12/2019).



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

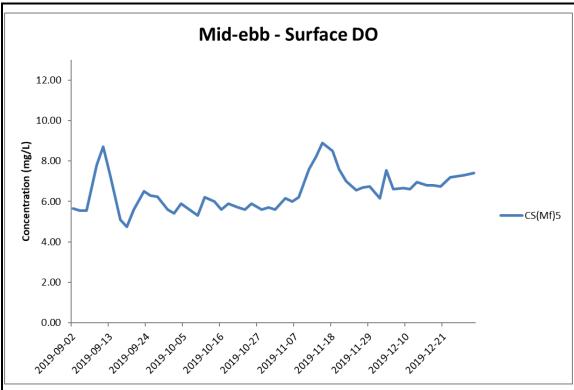


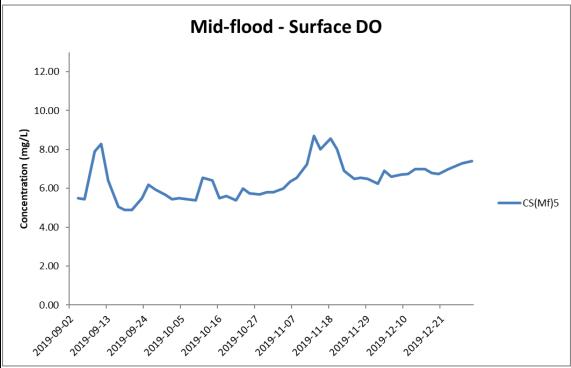


^{*}Exceedances of Dissolved oxygen level are calculated based on average value of data from both Surface and Middle level, and bottom level separately.

Figure J4 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in surface waters between 1 September 2019 and 31 December 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 (1/9/2019 - 31/12/2019).



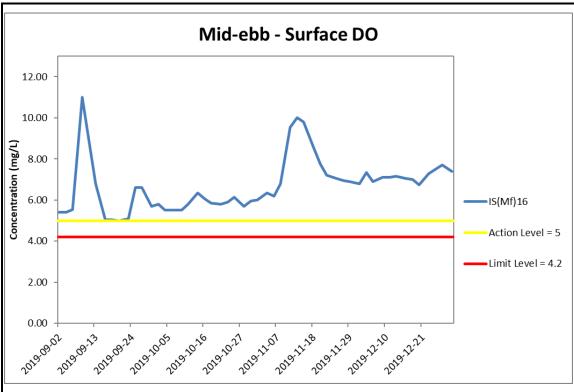


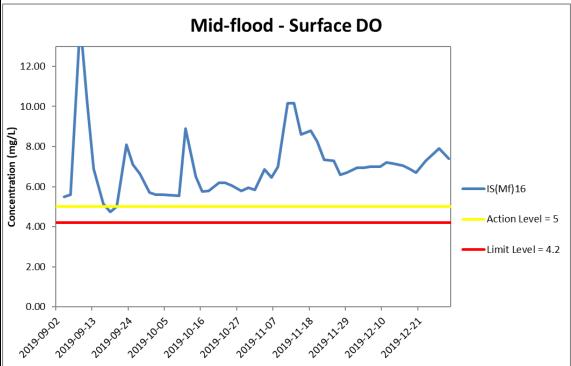


^{*}Exceedances of Dissolved oxygen level are calculated based on average value of data from both Surface and Middle level, and bottom level separately.

Figure J5 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in surface waters between 1 September 2019 and 31 December 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 (1/9/2019 – 31/12/2019).



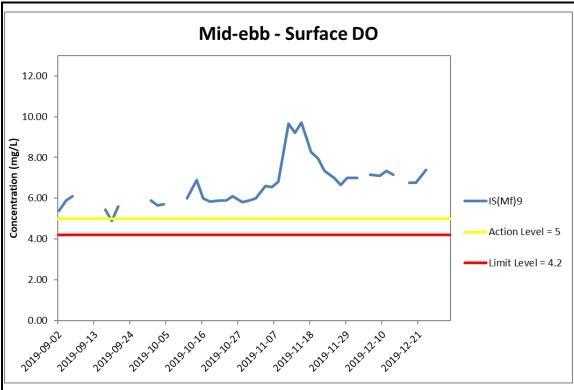


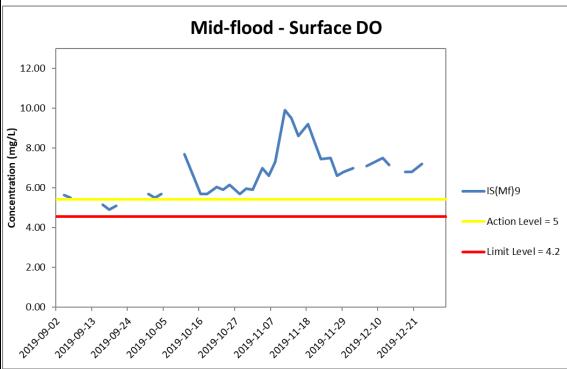


^{*}Exceedances of Dissolved oxygen level are calculated based on average value of data from both Surface and Middle level, and bottom level separately.

Figure J6 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in surface waters between 1 September 2019 and 31 December 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 (1/9/2019 - 31/12/2019).



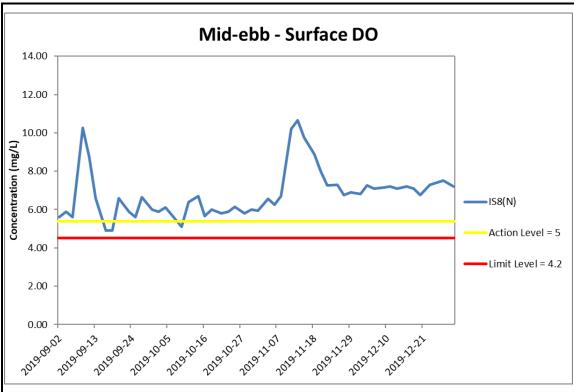


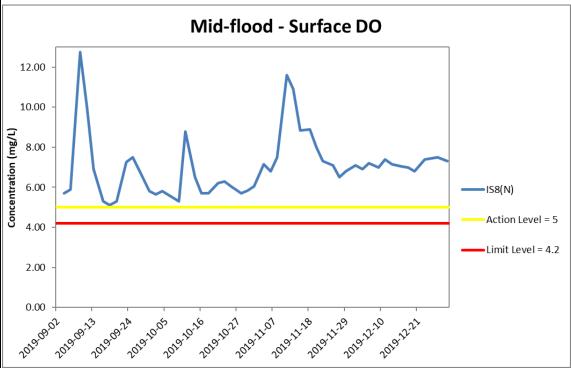


^{*}Exceedances of Dissolved oxygen level are calculated based on average value of data from both Surface and Middle level, and bottom level separately.

Figure J7 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in surface waters between 1 September 2019 and 31 December 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 (1/9/2019 - 31/12/2019).



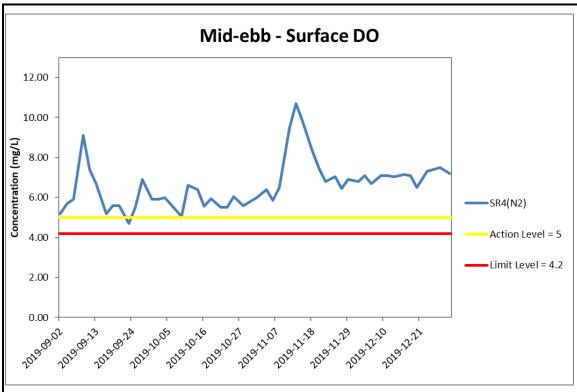


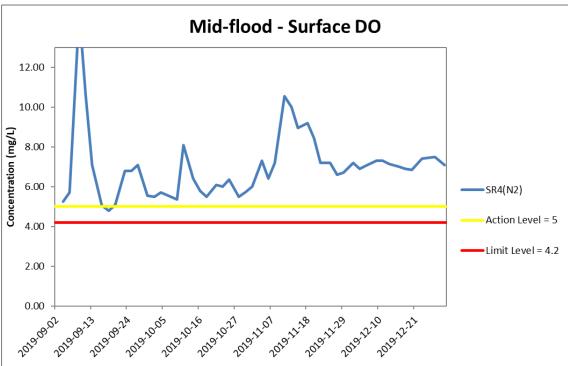


^{*}Exceedances of Dissolved oxygen level are calculated based on average value of data from both Surface and Middle level, and bottom level separately.

Figure J8 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in surface waters between 1 September 2019 and 31 December 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 (1/9/2019 – 31/12/2019).



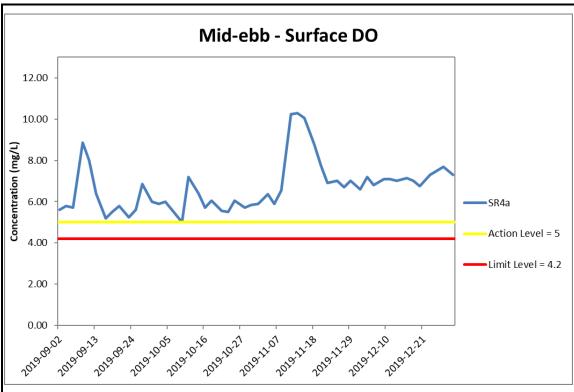


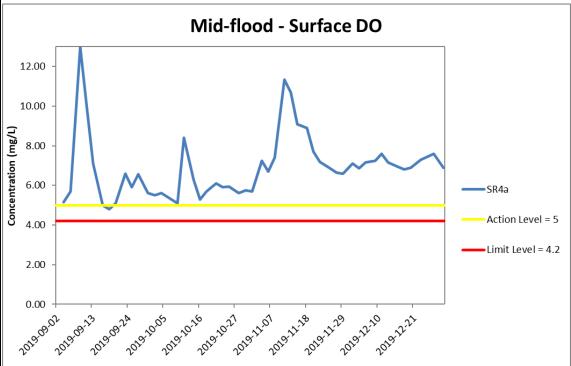


^{*}Exceedances of Dissolved oxygen level are calculated based on average value of data from both Surface and Middle level, and bottom level separately.

Figure J9 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in surface waters between 1 September 2019 and 31 December 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 (1/9/2019 – 31/12/2019).



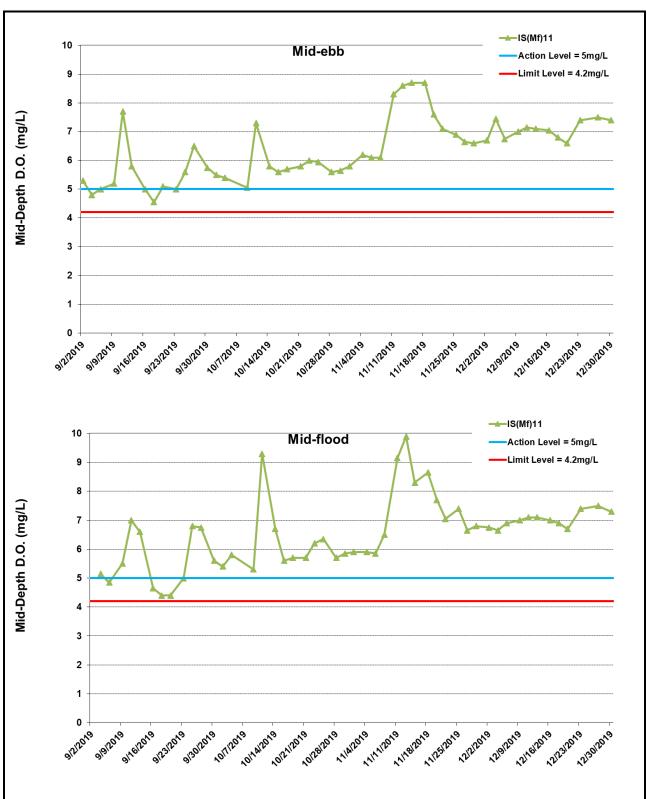




*Exceedances of Dissolved oxygen level are calculated based on average value of data from both Surface and Middle level, and bottom level separately.

Figure J10 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in surface waters between 1 September 2019 and 31 December 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 (1/9/2019 – 31/12/2019).





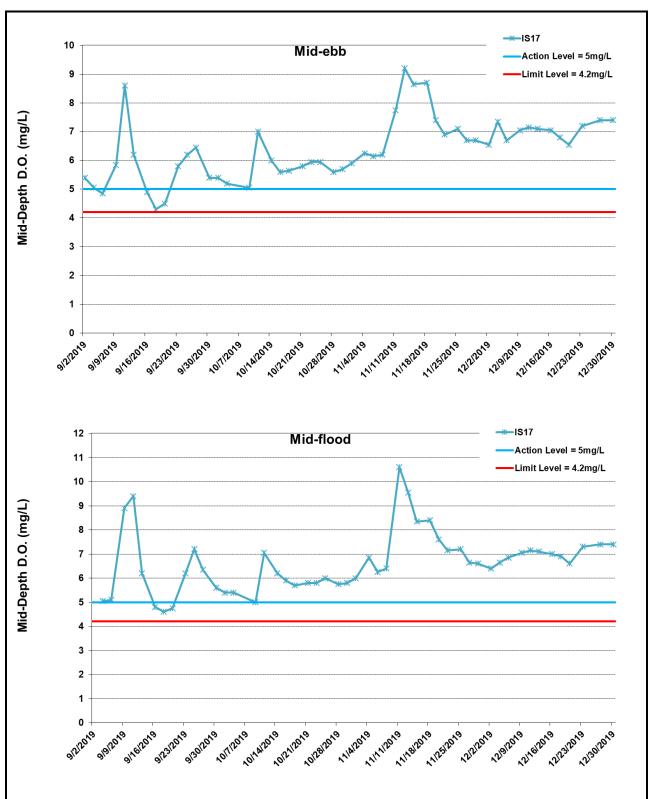
^{*} The AL/LL for WQM stations, IS(Mf)11, IS17 and SR7, are adopted from HZMB HKBCF project.

Figure J11 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in middepth waters between 1 September 2019 and 31 December 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 (1/9/2019 - 31/12/2019).



^{*}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.



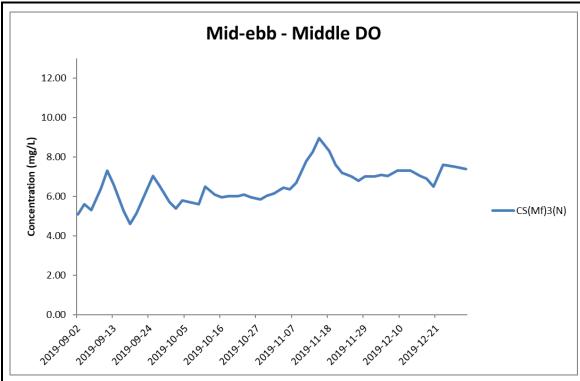
^{*} The AL/LL for WQM stations, IS(Mf)11, IS17 and SR7, are adopted from HZMB HKBCF project.

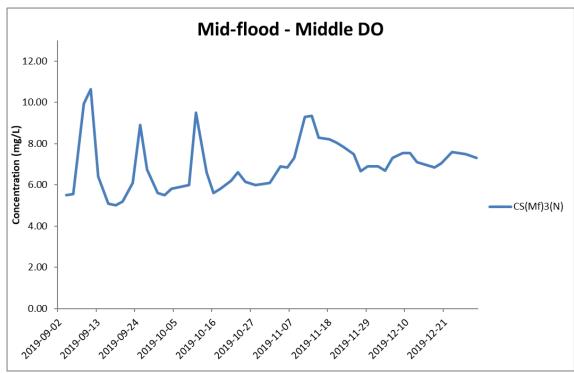
Figure J12 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in middepth waters between 1 September 2019 and 31 December 2019 at IS17. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/9/2019 - 31/12/2019).



^{*}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.

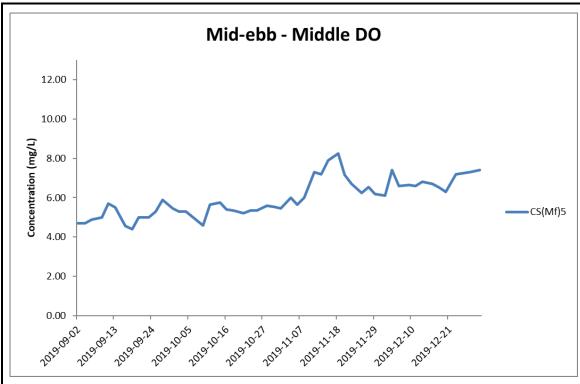


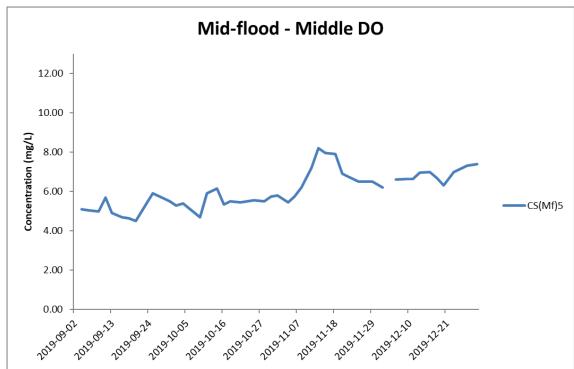


^{*}Exceedances of Dissolved oxygen level are calculated based on average value of data from both Surface and Middle level, and bottom level separately.

Figure J13 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in middepth waters between 1 September 2019 and 31 December 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 (1/9/2019 - 31/12/2019).



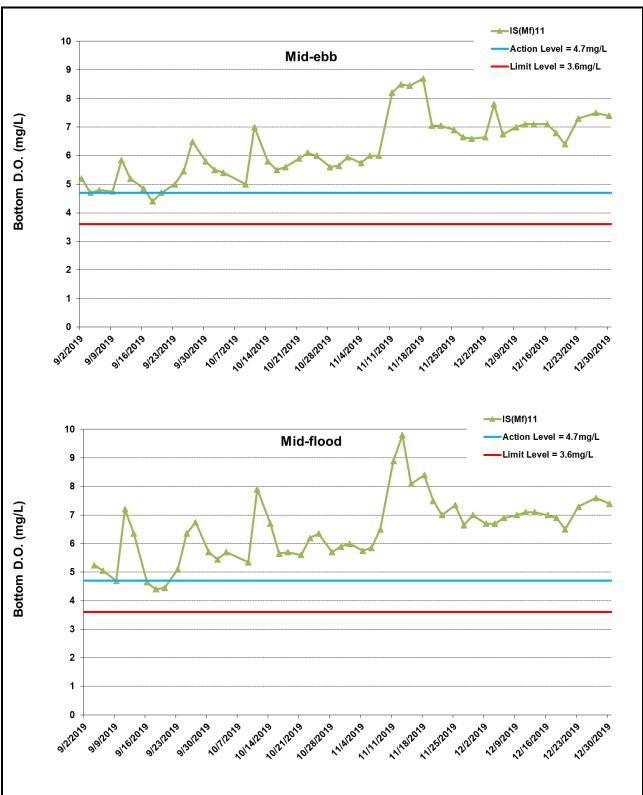




^{*}Exceedances of Dissolved oxygen level are calculated based on average value of data from both Surface and Middle level, and bottom level separately.

Figure J14 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in middepth waters between 1 September 2019 and 31 December 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 (1/9/2019 – 31/12/2019).



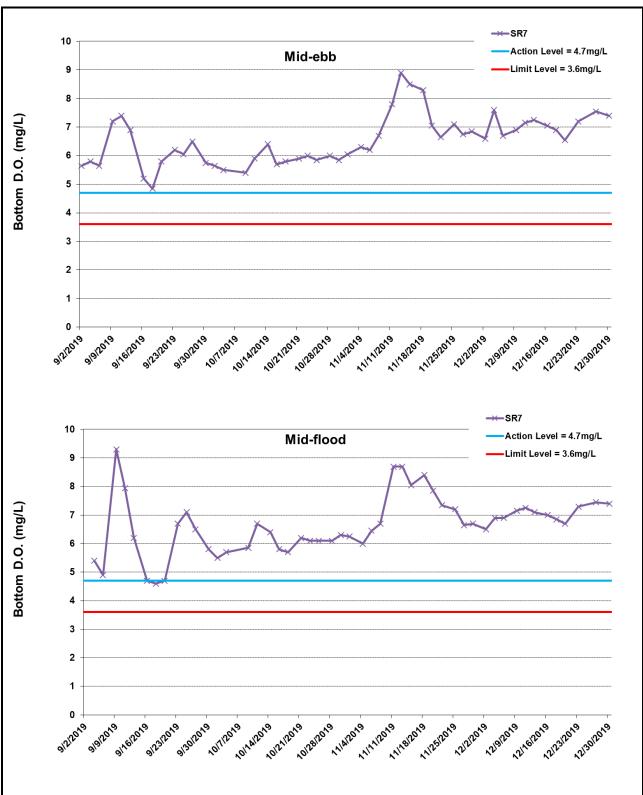


^{*} The AL/LL for WQM stations, IS(Mf)11, IS17 and SR7, are adopted from HZMB HKBCF project.

Figure J15 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in bottom water between 1 September 2019 and 31 December 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 (1/9/2019 - 31/12/2019).



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

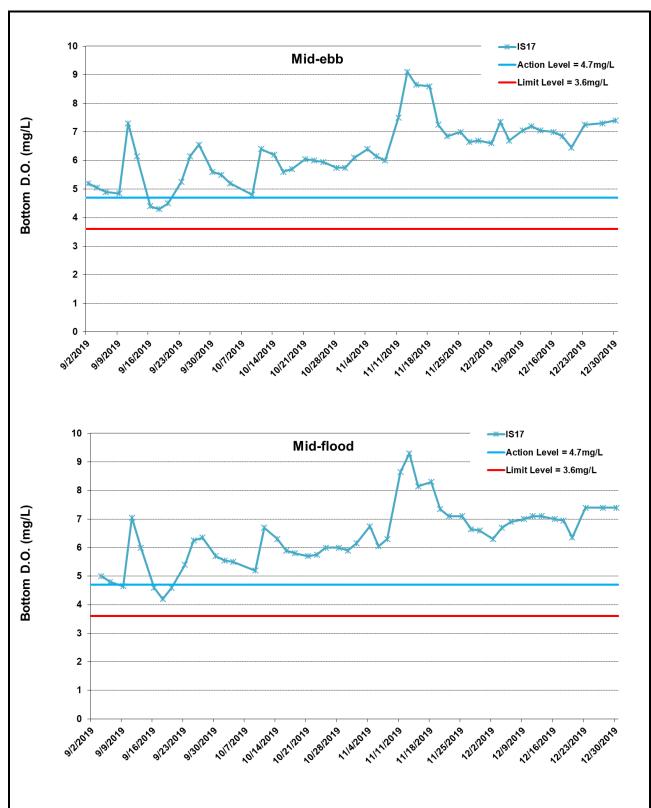


^{*} The AL/LL for WQM stations, IS(Mf)11, IS17 and SR7, are adopted from HZMB HKBCF project.

Figure J16 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in bottom water between 1 September 2019 and 31 December 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 (1/9/2019 - 31/12/2019).



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

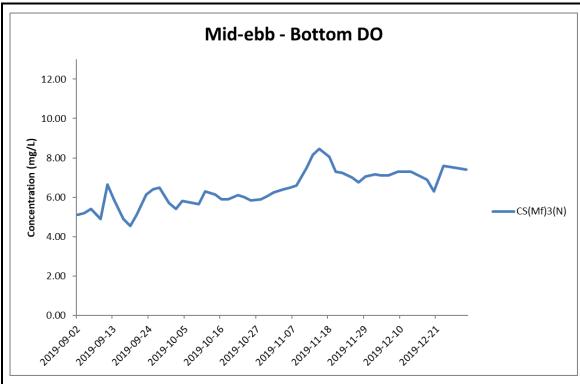


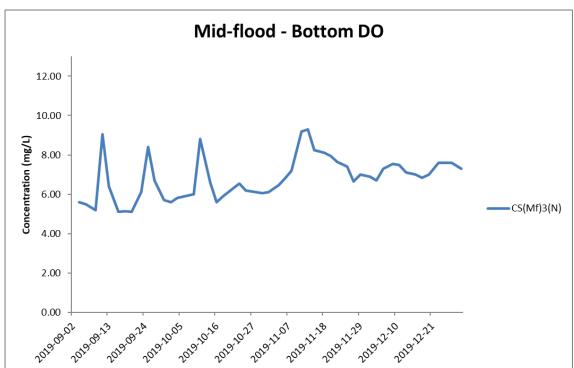
^{*} The AL/LL for WQM stations, IS(Mf)11, IS17 and SR7, are adopted from HZMB HKBCF project.

Figure J17 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in bottom water between 1 September 2019 and 31 December 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 (1/9/2019 – 31/12/2019).



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

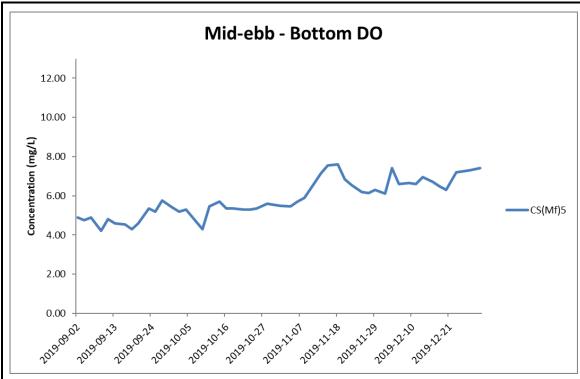


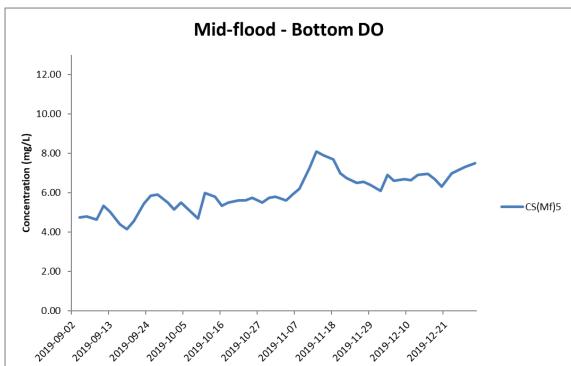


^{*}Exceedances of Dissolved oxygen level are calculated based on average value of data from both Surface and Middle level, and bottom level separately.

Figure J18 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in bottom water between 1 September 2019 and 31 December 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 (1/9/2019 - 31/12/2019).



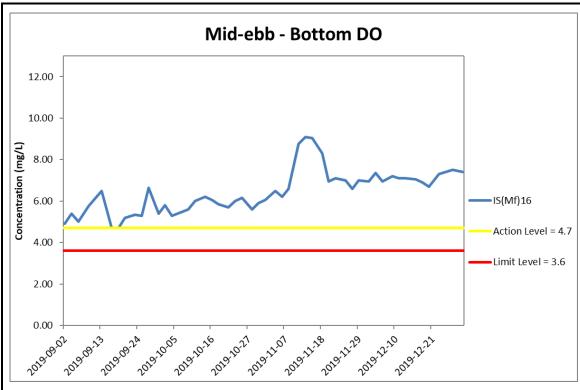


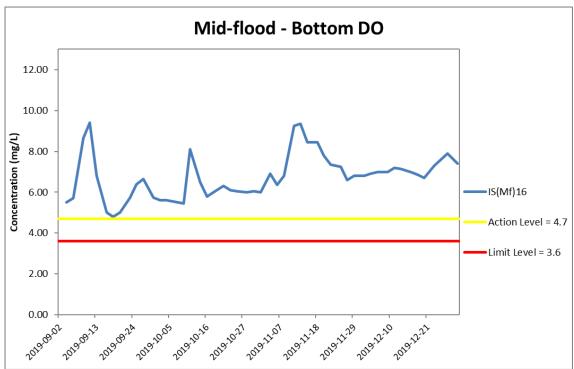


^{*}Exceedances of Dissolved oxygen level are calculated based on average value of data from both Surface and Middle level, and bottom level separately.

Figure J19 Impact Monitoring – Mean Level of Dissolved Oxygen (mg/L) in bottom water between 1 September 2019 and 31 December 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 (1/9/2019 – 31/12/2019).



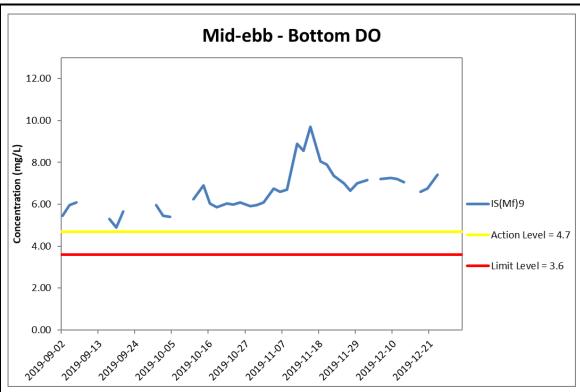


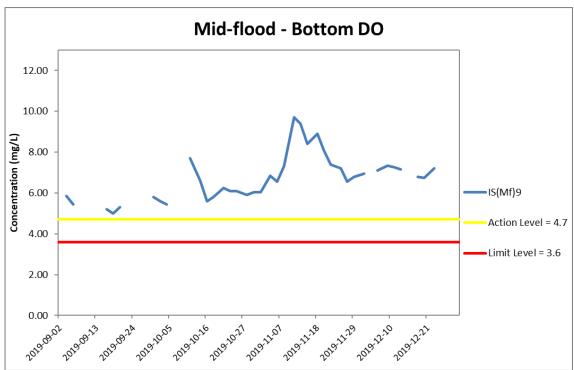


*Exceedances of Dissolved oxygen level are calculated based on average value of data from both Surface and Middle level, and bottom level separately.

Figure J20 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in bottom water between 1 September 2019 and 31 December 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 (1/9/2019 - 31/12/2019).



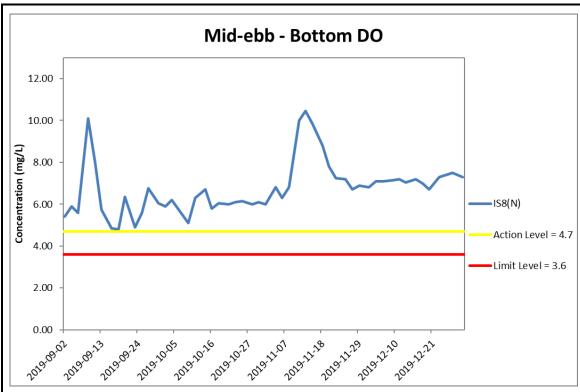


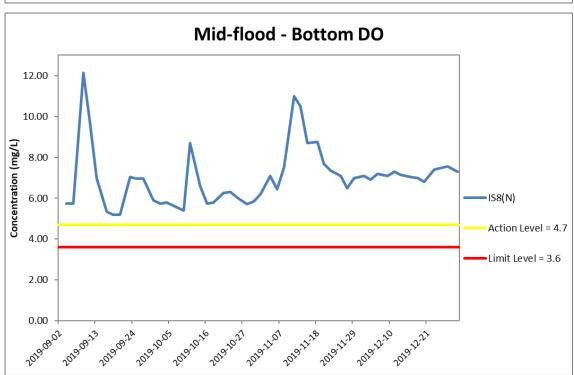


^{*}Exceedances of Dissolved oxygen level are calculated based on average value of data from both Surface and Middle level, and bottom level separately.

Figure J21 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in bottom water between 1 September 2019 and 31 December 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 (1/9/2019 - 31/12/2019).



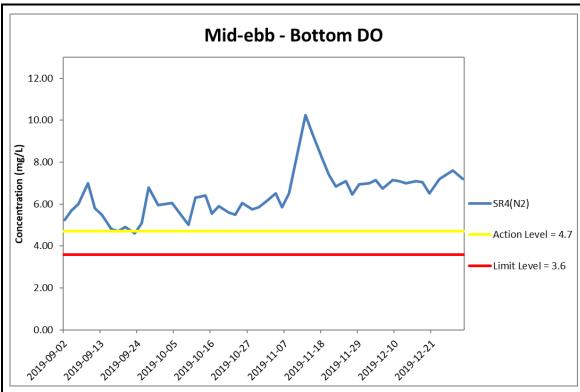


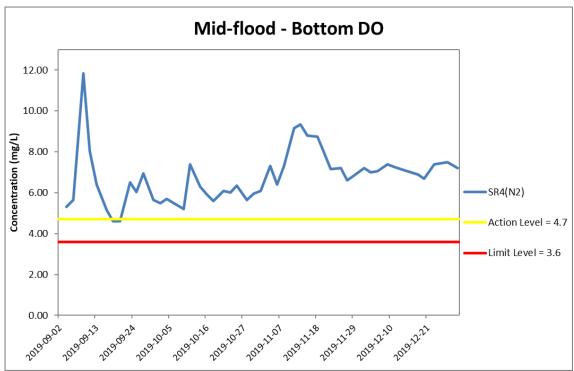


^{*}Exceedances of Dissolved oxygen level are calculated based on average value of data from both Surface and Middle level, and bottom level separately.

Figure J22 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in bottom water between 1 September 2019 and 31 December 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 (1/9/2019 - 31/12/2019).



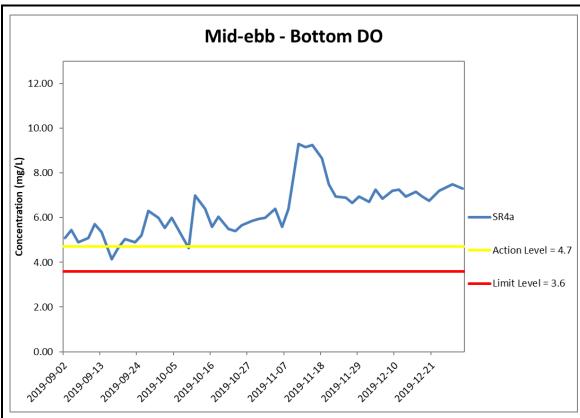


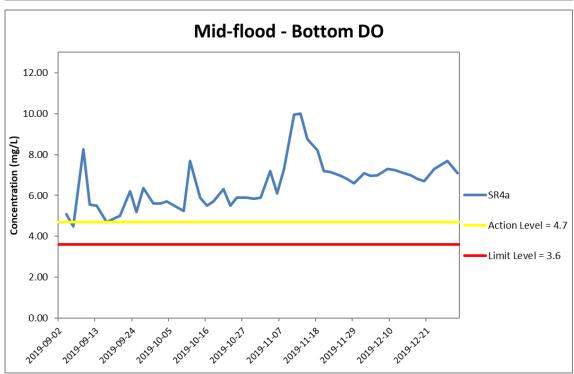


*Exceedances of Dissolved oxygen level are calculated based on average value of data from both Surface and Middle level, and bottom level separately.

Figure J23 Impact Monitoring - Mean Level of Dissolved Oxygen (mg/L) in bottom water between 1 September 2019 and 31 December 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 (1/9/2019 - 31/12/2019).







^{*}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 September 2019 and 31 December 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 (1/9/2019 - 31/12/2019).



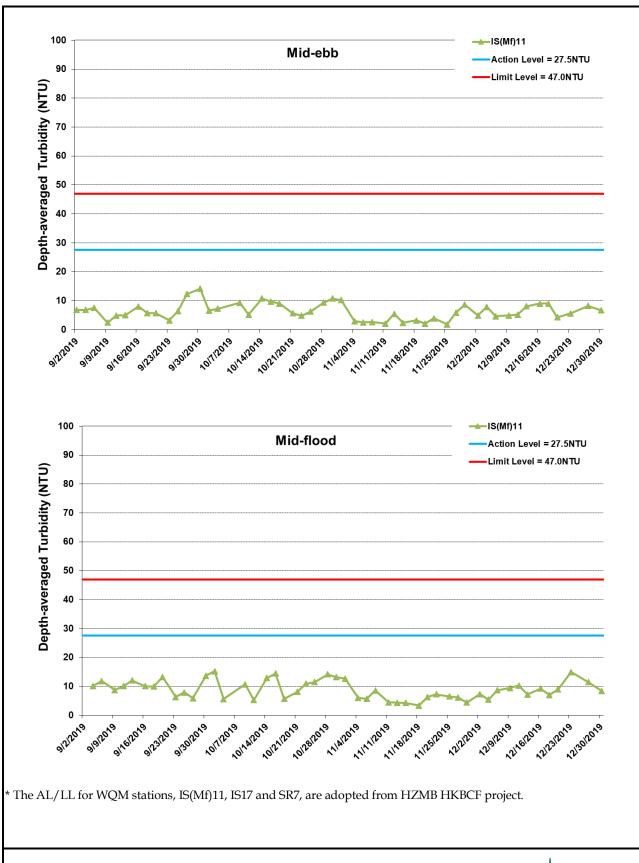
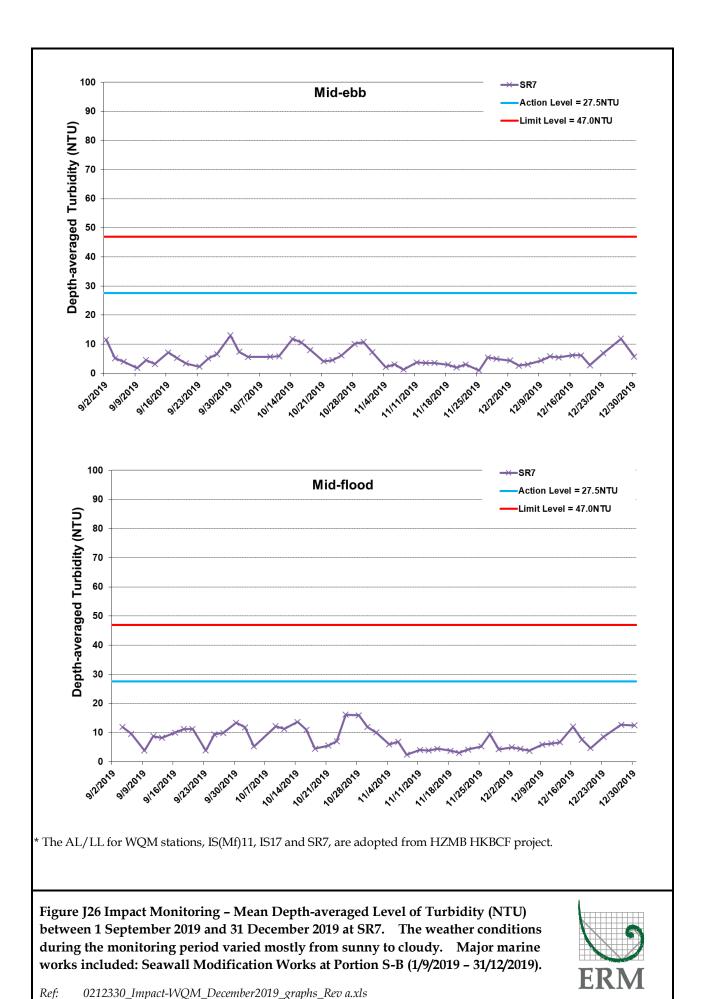


Figure J25 Impact Monitoring – Mean Depth-averaged Level of Turbidity (NTU) between 1 September 2019 and 31 December 2019 at IS(Mf)11. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/9/2019 – 31/12/2019).





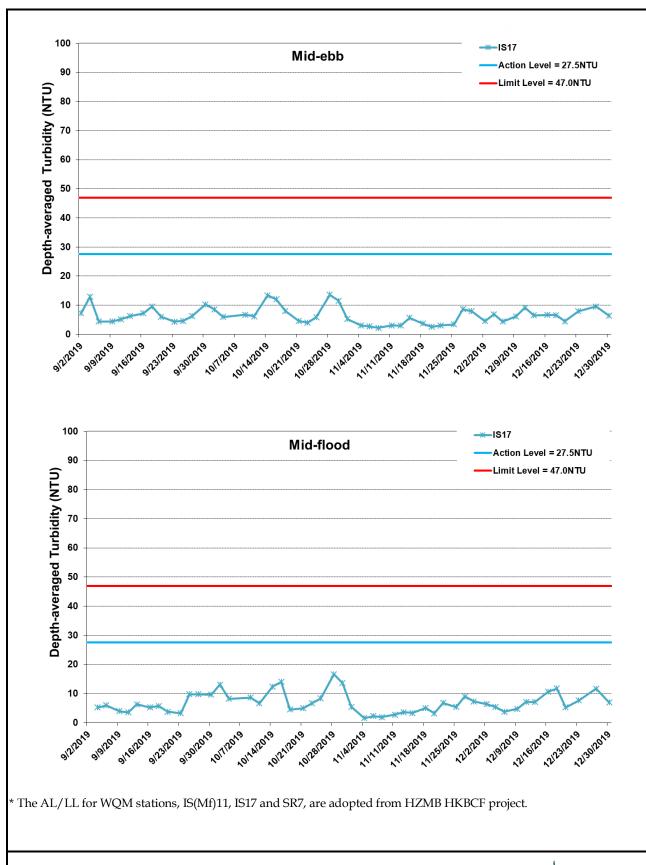
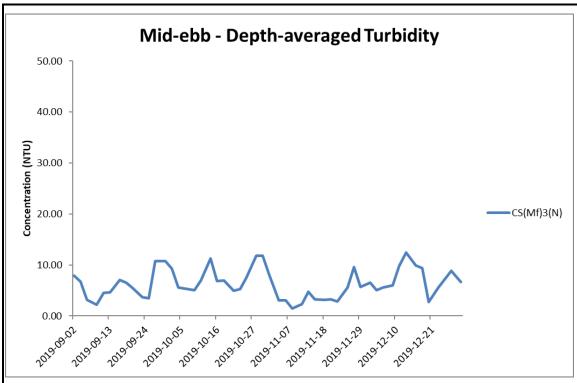


Figure J27 Impact Monitoring - Mean Depth-averaged Level of Turbidity (NTU) between 1 September 2019 and 31 December 2019 at IS17. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/9/2019 - 31/12/2019).





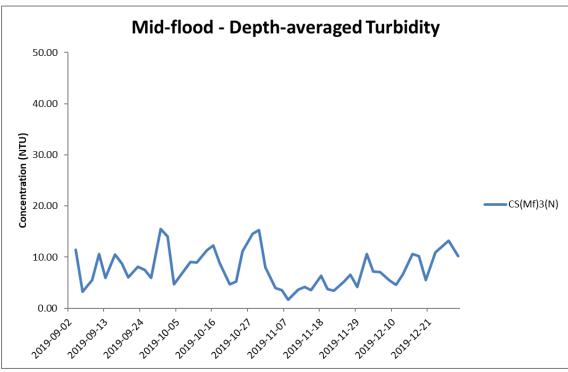
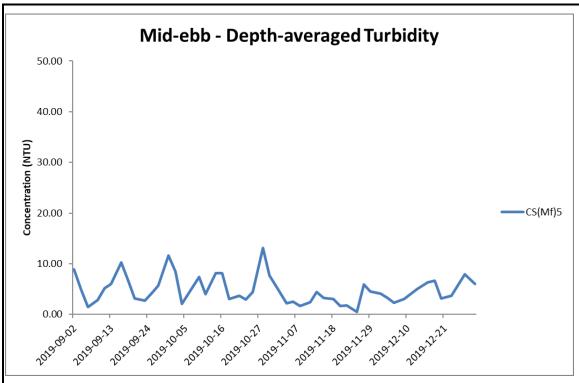


Figure J28 Impact Monitoring - Mean Depth-averaged Level of Turbidity (NTU) between 1 September 2019 and 31 December 2019 at CS(Mf)3(N). The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/9/2019 - 31/12/2019).





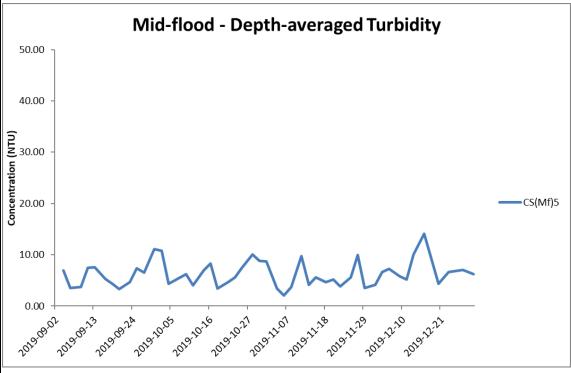
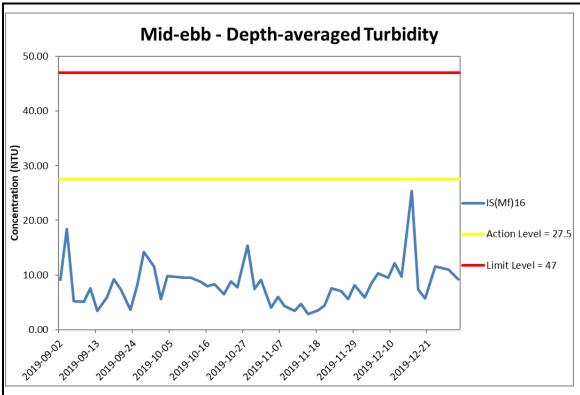


Figure J29 Impact Monitoring - Mean Depth-averaged Level of Turbidity (NTU) between 1 September 2019 and 31 December 2019 at CS(Mf)5. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/9/2019 - 31/12/2019).





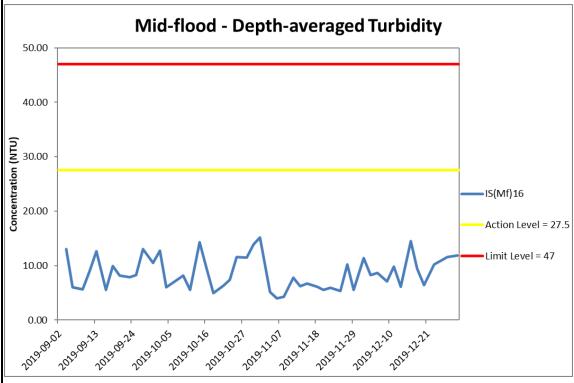
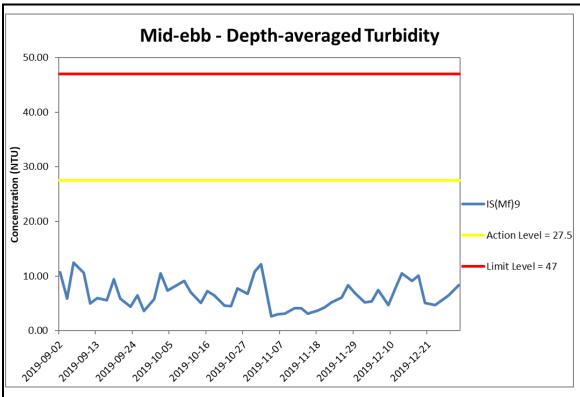


Figure J30 Impact Monitoring - Mean Depth-averaged Level of Turbidity (NTU) between 1 September 2019 and 31 December 2019 at IS(Mf)16. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/9/2019 - 31/12/2019).





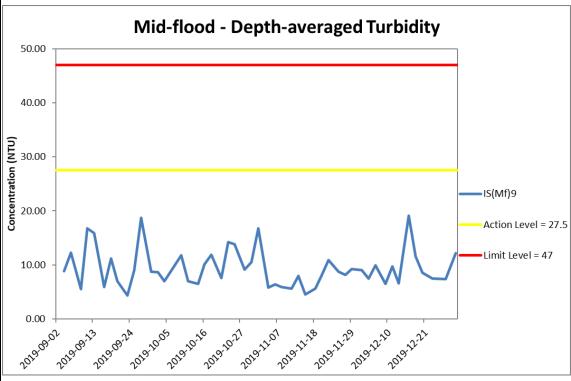
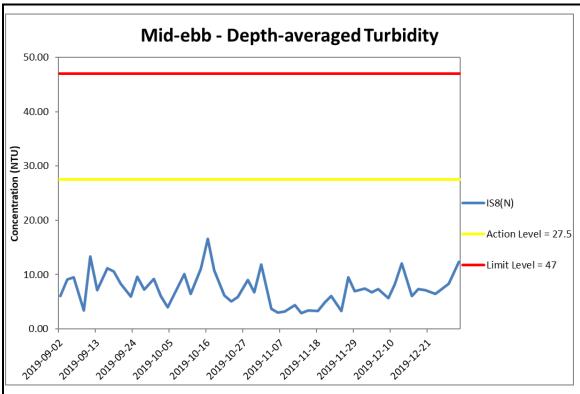


Figure J31 Impact Monitoring - Mean Depth-averaged Level of Turbidity (NTU) between 1 September 2019 and 31 December 2019 at IS(Mf)9. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/9/2019 - 31/12/2019).





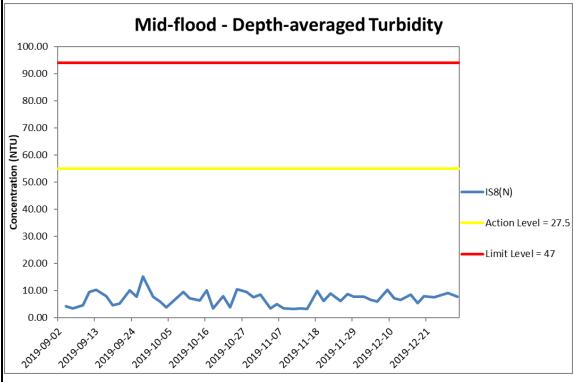
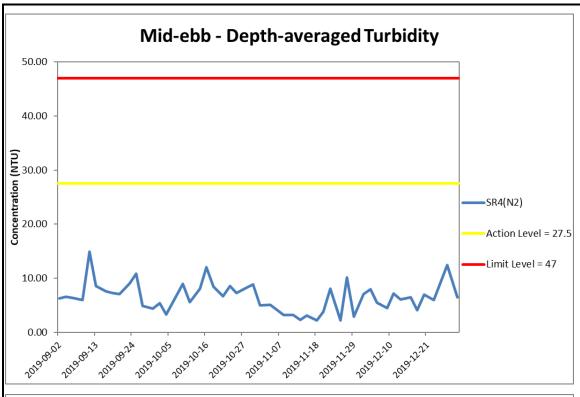


Figure J32 Impact Monitoring - Mean Depth-averaged Level of Turbidity (NTU) between 1 September 2019 and 31 December 2019 at IS8(N). The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/9/2019 - 31/12/2019).





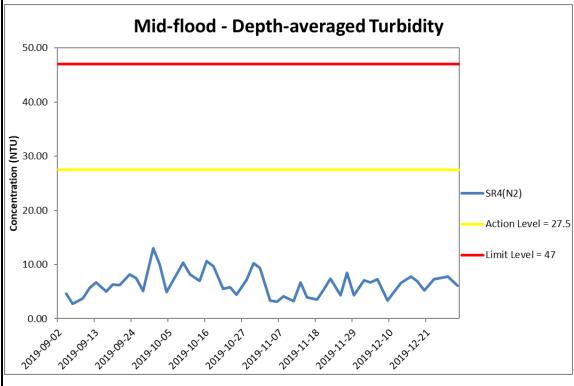
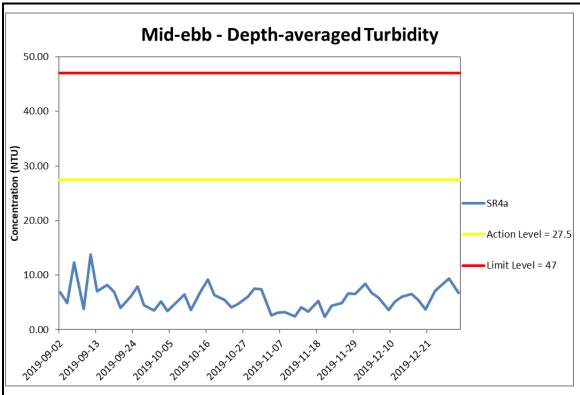


Figure J33 Impact Monitoring - Mean Depth-averaged Level of Turbidity (NTU) between 1 September 2019 and 31 December 2019 at SR4(N2). The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/9/2019 - 31/12/2019).





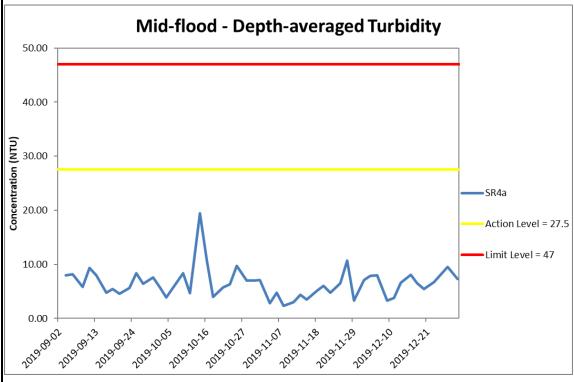


Figure J34 Impact Monitoring - Mean Depth-averaged Level of Turbidity (NTU) between 1 September 2019 and 31 December 2019 at SR4a. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/9/2019 - 31/12/2019).



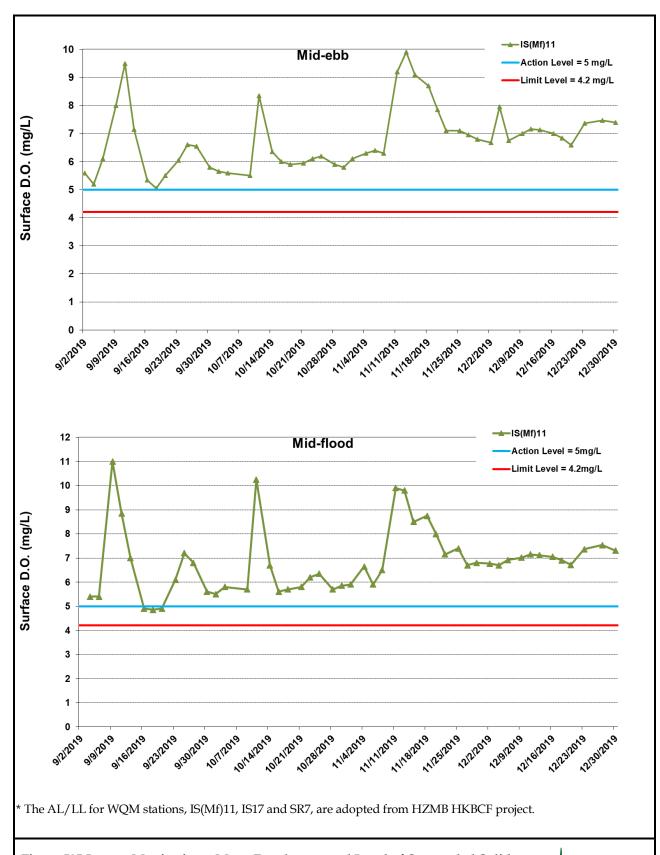


Figure J35 Impact Monitoring - Mean Depth-averaged Level of Suspended Solids (mg/L) between 1 September 2019 and 31 December 2019 at IS(Mf)11. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/9/2019 - 31/12/2019).



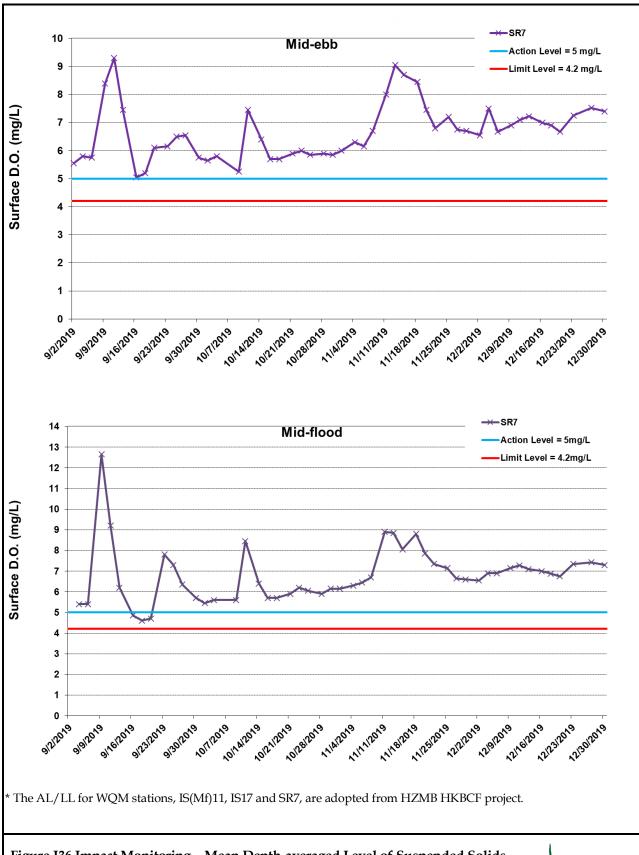
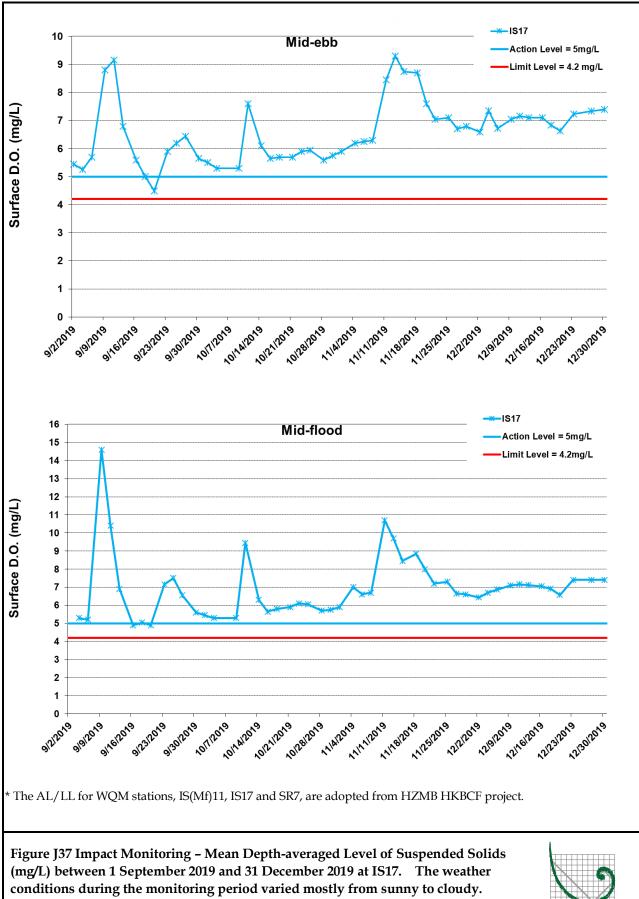


Figure J36 Impact Monitoring – Mean Depth-averaged Level of Suspended Solids (mg/L) between 1 September 2019 and 31 December 2019 at SR7. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/9/2019 – 31/12/2019).

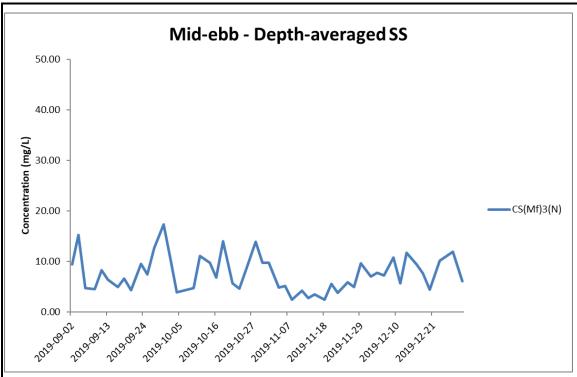




Major marine works included: Seawall Modification Works at Portion S-B (1/9/2019 - 31/12/2019).



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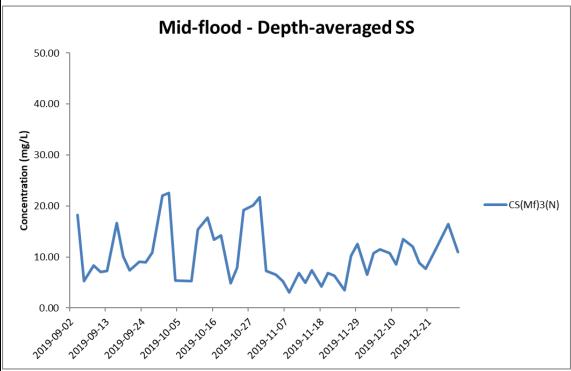
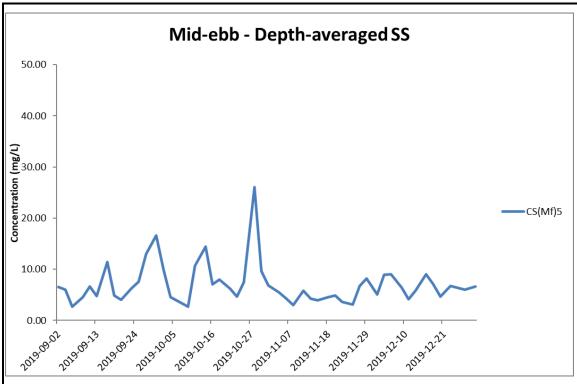


Figure J38 Impact Monitoring – Mean Depth-averaged Level of Suspended Solids (mg/L) between 1 September 2019 and 31 December 2019 at CS(Mf)3(N). The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/9/2019 – 31/12/2019).





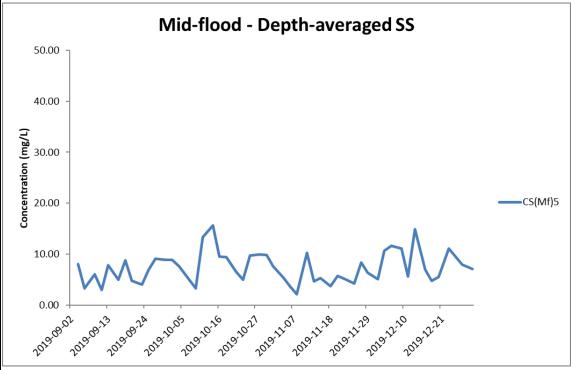
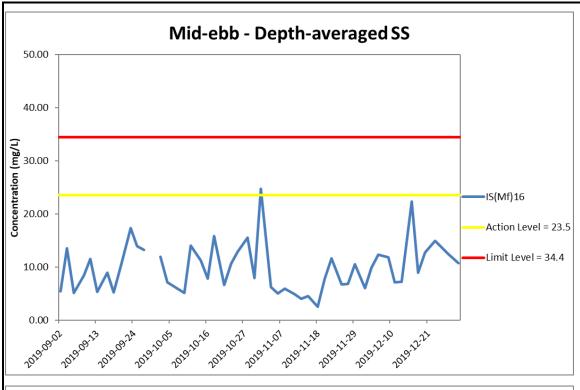


Figure J39 Impact Monitoring – Mean Depth-averaged Level of Suspended Solids (mg/L) between 1 September 2019 and 31 December 2019 at CS(Mf)5. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/9/2019 – 31/12/2019).





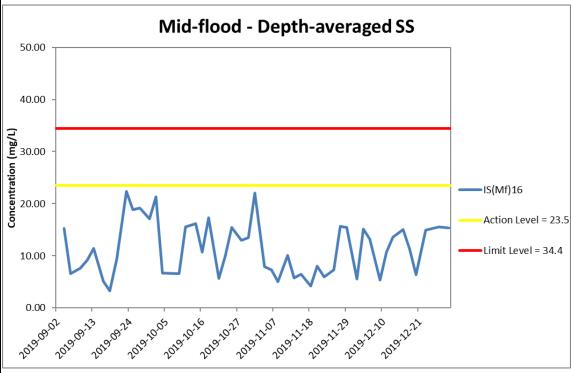
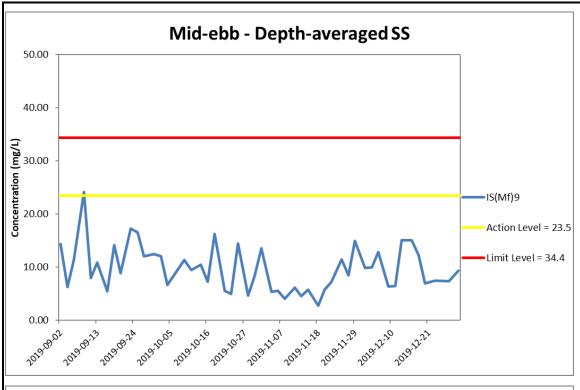


Figure J40 Impact Monitoring – Mean Depth-averaged Level of Suspended Solids (mg/L) between 1 September 2019 and 31 December 2019 at IS(Mf)16. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/9/2019 – 31/12/2019).





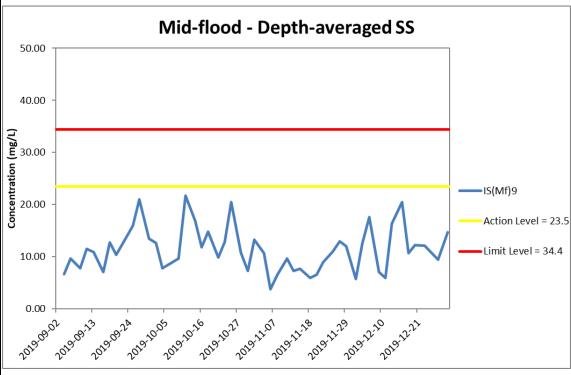
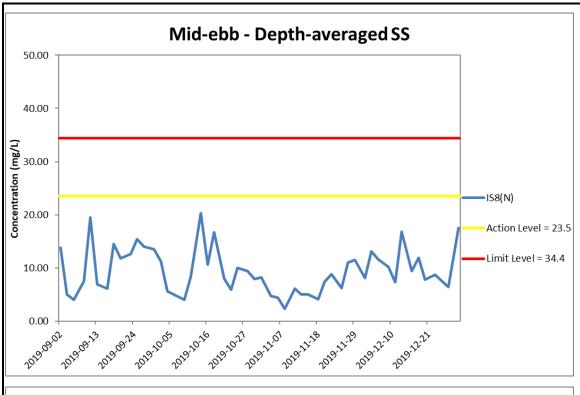


Figure J41 Impact Monitoring – Mean Depth-averaged Level of Suspended Solids (mg/L) between 1 September 2019 and 31 December 2019 at IS(Mf)9. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/9/2019 – 31/12/2019).





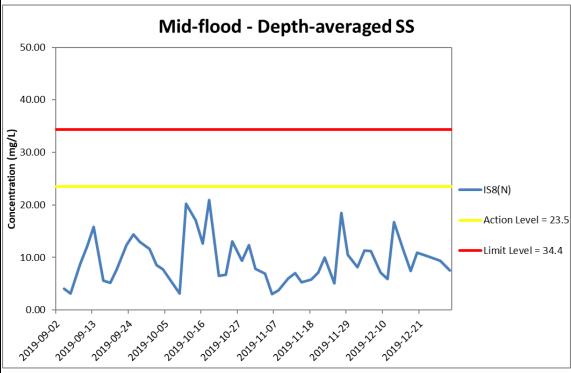
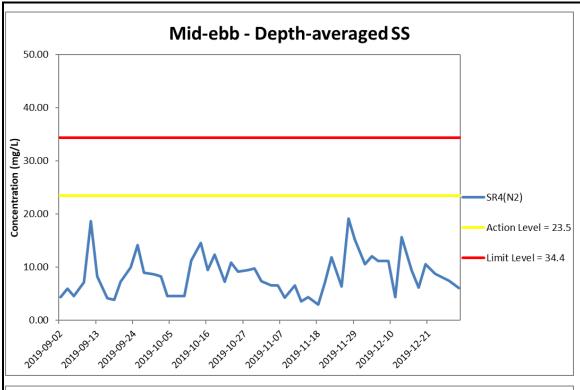


Figure J42 Impact Monitoring – Mean Depth-averaged Level of Suspended Solids (mg/L) between 1 September 2019 and 31 December 2019 at IS8(N). The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/9/2019 – 31/12/2019).





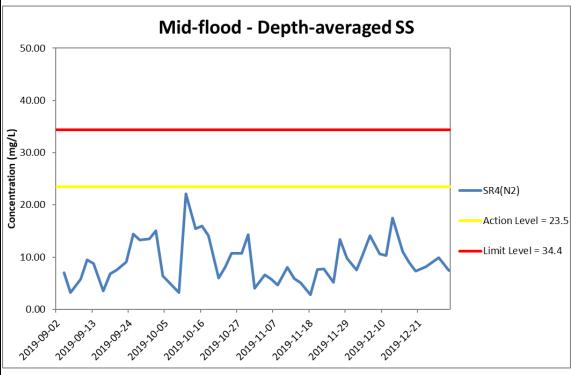
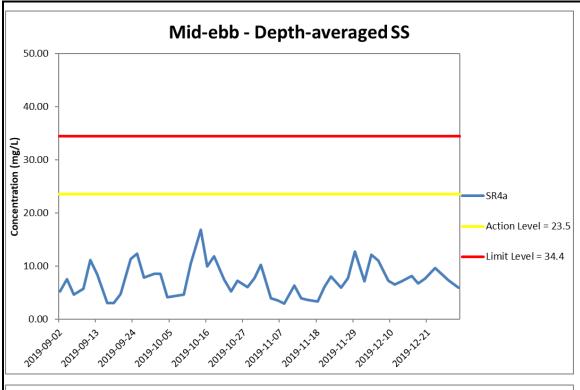


Figure J43 Impact Monitoring – Mean Depth-averaged Level of Suspended Solids (mg/L) between 1 September 2019 and 31 December 2019 at SR4(N2). The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/9/2019 – 31/12/2019).





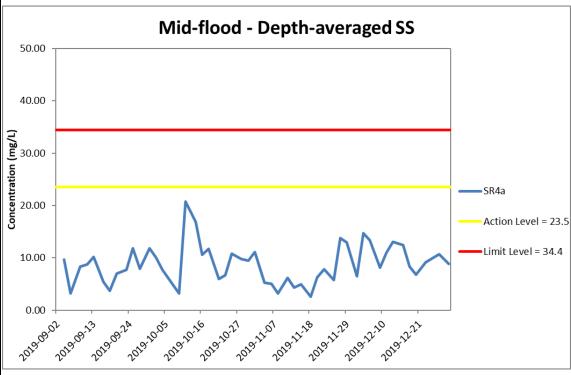


Figure J44 Impact Monitoring – Mean Depth-averaged Level of Suspended Solids (mg/L) between 1 September 2019 and 31 December 2019 at SR4a. The weather conditions during the monitoring period varied mostly from sunny to cloudy. Major marine works included: Seawall Modification Works at Portion S-B (1/9/2019 – 31/12/2019).



	T	T			T	Sea	T	Water	<u> </u>			T	$\overline{}$		T	T	\top
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	2019-12-02	Mid-Ebb	CS(Mf)5	Fine	Moderate	02:47	12.5	Surface	1	1	23.4	8.1	32.5	6.1	3.5	4.6
TMCLKL	HY/2012/08	2019-12-02	Mid-Ebb	CS(Mf)5	Fine	Moderate	02:47	12.5	Surface	1	2	23.4	8.1	32.4	6.2	3.5	5.1
TMCLKL	HY/2012/08	2019-12-02	Mid-Ebb	CS(Mf)5	Fine	Moderate	02:47	12.5	Middle	2	1	23.5	8.1	32.6	6.1	3.9	5
TMCLKL	HY/2012/08	2019-12-02	Mid-Ebb	CS(Mf)5	Fine	Moderate	02:47	12.5	Middle	2	2	23.5	8.1	32.6	6.1	3.6	4.2
TMCLKL	HY/2012/08	2019-12-02	Mid-Ebb	CS(Mf)5	Fine	Moderate	02:47	12.5	Bottom	3	1	23.6	8.1	32.7	6.1	5.1	5.4
TMCLKL	HY/2012/08	2019-12-02	Mid-Ebb	CS(Mf)5	Fine	Moderate	02:47	12.5	Bottom	3	2	23.6	8.1	32.7	6.1	5.2	6.4
TMCLKL	HY/2012/08	2019-12-02	Mid-Ebb	CS(Mf)3(N)	Fine	Moderate	03:52	7.2	Surface	1	1	22.6	8.2	30.9	7	6	4.5
TMCLKL	HY/2012/08	2019-12-02	Mid-Ebb	CS(Mf)3(N)	Fine	Moderate	03:52	7.2	Surface	1	2	22.6	8.2	30.8	7	5.9	5.8
TMCLKL	HY/2012/08	2019-12-02	Mid-Ebb	CS(Mf)3(N)	Fine	Moderate	03:52	7.2	Middle	2	1	22.7	8.2	31.1	7	6.7	8.4
TMCLKL	HY/2012/08	2019-12-02	Mid-Ebb	· , , , , , ,	Fine	Moderate	03:52	7.2	Middle	2	2	22.7	8.2	31	7	6.4	7.4
TMCLKL	HY/2012/08	2019-12-02	Mid-Ebb	· , , , , , ,	Fine	Moderate		7.2	Bottom	3	1	22.7	8.2	31.3	7.2	7.2	8.6
TMCLKL	HY/2012/08	2019-12-02	Mid-Ebb	CS(Mf)3(N)	Fine	Moderate	03:52	7.2	Bottom	3	2	22.8	8.2	31.3	7.1	7.1	7.7
TMCLKL	HY/2012/08	2019-12-02	Mid-Ebb	IS(Mf)16	Fine	Rough	04:36	5.5	Surface	1	1	22.7	8.2	31.9	6.8	5.8	5.2
TMCLKL	HY/2012/08	2019-12-02	Mid-Ebb	IS(Mf)16	Fine	Rough	_	5.5	Surface	1	2	22.7	8.2	31.9	6.8	5.7	5
TMCLKL	HY/2012/08	2019-12-02	Mid-Ebb	IS(Mf)16	Fine	Rough		5.5	Middle	2	1						
TMCLKL	HY/2012/08	2019-12-02	Mid-Ebb	IS(Mf)16	Fine	Rough		5.5	Middle	2	2						
TMCLKL	HY/2012/08	2019-12-02	Mid-Ebb	IS(Mf)16	Fine	Rough		5.5	Bottom	3	1	22.7	8.2	31.9	7	6.2	6.5
TMCLKL	HY/2012/08	2019-12-02	Mid-Ebb	IS(Mf)16	Fine	Rough		5.5	Bottom	3	2	22.7	8.2	31.9	6.9	6	7.5
TMCLKL	HY/2012/08	2019-12-02	Mid-Ebb	SR4a	Fine	Calm		4.7	Surface	1	1	22.9	8.3	31.9	6.6	7.4	8.2
TMCLKL	HY/2012/08	2019-12-02	Mid-Ebb	SR4a	Fine	Calm	_	4.7	Surface	1	2	22.9	8.3	31.9	6.6	7.5	7.2
TMCLKL	HY/2012/08	2019-12-02	Mid-Ebb	SR4a	Fine	Calm		4.7	Middle	2	1		1		1		1
TMCLKL	HY/2012/08	2019-12-02	Mid-Ebb	SR4a	Fine	Calm	04:49	4.7	Middle	2	2						
TMCLKL	HY/2012/08	2019-12-02	Mid-Ebb	SR4a	Fine	Calm		4.7	Bottom	3	1	22.9	8.3	31.9	6.7	9.9	6.4
TMCLKL	HY/2012/08	2019-12-02	Mid-Ebb	SR4a	Fine	Calm		4.7	Bottom	3	2	22.9	8.3	31.9	6.7	8.8	6.6
TMCLKL	HY/2012/08	2019-12-02	Mid-Ebb	SR4(N2)	Fine	Calm		3.2	Surface	1	1	22.8	8.3	31.9	6.8	6.9	8.3
TMCLKL	HY/2012/08	2019-12-02	Mid-Ebb	SR4(N2)	Fine	Calm		3.2	Surface	1	2	22.9	8.3	31.9	6.8	6.7	7.9
TMCLKL	HY/2012/08	2019-12-02	Mid-Ebb	SR4(N2)	Fine	Calm	_	3.2	Middle	2	1	122.0	0.0	01.0	0.0	0.1	7.0
TMCLKL	HY/2012/08	2019-12-02	Mid-Ebb	SR4(N2)	Fine	Calm	_	3.2	Middle	2	2	1					
TMCLKL	HY/2012/08	2019-12-02	Mid-Ebb	SR4(N2)	Fine	Calm		3.2	Bottom	3	1	22.8	8.3	31.8	7	7.3	13.8
TMCLKL	HY/2012/08	2019-12-02	Mid-Ebb	SR4(N2)	Fine	Calm		3.2	Bottom	3	2	22.8	8.3	31.8	7	7.3	12.4
TMCLKL	HY/2012/08	2019-12-02	Mid-Ebb	IS8(N)	Fine	Calm		3.8	Surface	1	1	22.8	8.3	31.9	6.8	7.2	7.6
TMCLKL	HY/2012/08	2019-12-02	Mid-Ebb	IS8(N)	Fine	Calm		3.8	Surface	1	2	22.8	8.3	31.9	6.8	7.2	7.8
TMCLKL	HY/2012/08	2019-12-02	Mid-Ebb	IS8(N)	Fine	Calm		3.8	Middle	2	1	22.0	0.5	01.0	0.0	1.2	7.0
TMCLKL	HY/2012/08	2019-12-02	Mid-Ebb	IS8(N)	Fine	Calm		3.8	Middle	2	2	+	+		+		
TMCLKL	HY/2012/08	2019-12-02	Mid-Ebb	IS8(N)	Fine	Calm		3.8	Bottom	2	1	22.8	8.3	31.9	6.8	7.7	8.6
TMCLKL	HY/2012/08	2019-12-02	Mid-Ebb	IS8(N)	Fine	Calm		3.8	Bottom	3	2	22.8	8.3	31.9	6.8	7.5	8.6
TMCLKL	HY/2012/08	2019-12-02	Mid-Ebb	IS(Mf)9	Fine	Calm	05:09	3.0	Surface	1	1	22.5	8.3	32	7	5.2	9.2
TMCLKL	HY/2012/08	2019-12-02	Mid-Ebb	IS(Mf)9	Fine	Calm	05:17	2	Surface	1	2	22.5	8.3	32	7	5.1	10.1
TMCLKL	HY/2012/08	2019-12-02	Mid-Ebb	IS(Mf)9	Fine	Calm		3	Middle	2	1	22.5	0.3	32	<u>'</u>	J. I	10.1
TMCLKL	HY/2012/08	2019-12-02	Mid-Ebb	IS(Mf)9	Fine	Calm	05:17	2	Middle	2	2	+			+		
								2		2	1	22.5	0.2	22	7.0	5.2	
TMCLKL TMCLKL	HY/2012/08 HY/2012/08	2019-12-02	Mid-Ebb Mid-Ebb	IS(Mf)9 IS(Mf)9	Fine Fine	Calm Calm	05:17 05:17	3	Bottom Bottom	3	2	22.5 22.5	8.3 8.3	32	7.2 7.1	5.3 5.3	9.9
TMCLKL	HY/2012/08 HY/2012/08	2019-12-02	Mid-Ebb	IS(Mf)11	Fine	Rough	04:20	11.2	Surface	1	1	23	8.2	31.4	6.7	4.4	_
TMCLKL	HY/2012/08	2019-12-02	Mid-Ebb	IS(Mf)11	Fine	Rough	04:20	11.2	Surface	1	2	23	8.2	31.4	6.7	4.3	5.5 5.7
TMCLKL	HY/2012/08	2019-12-02	Mid-Ebb	IS(Mf)11	Fine	Rough	04:20	11.2	Middle	2	1	23	8.2	31.7	6.7	5.3	7.1
TMCLKL	HY/2012/08	2019-12-02	Mid-Ebb	IS(Mf)11	Fine	Rough	04:20	11.2	Middle	2	2	23	8.2	31.6	6.7	5.3	6.8
TMCLKL	HY/2012/08	2019-12-02	Mid-Ebb	IS(Mf)11	Fine	Rough	04:20	11.2	Bottom	3	1	23.2	8.2	32	6.7	5.5	8.3
TMCLKL	HY/2012/08	2019-12-02	Mid-Ebb	IS(Mf)11	Fine	Rough		11.2	Bottom	3	2	23.2	8.2	32	6.6	5.1	7 7
TMCLKL	HY/2012/08	2019-12-02	Mid-Ebb	SR7	Fine	Calm		4.3	Surface	1	1	23.1	8.2	32.2	6.5	4.2	4.1
TMCLKL	HY/2012/08	2019-12-02	Mid-Ebb	SR7	Fine	Calm		4.3	Surface	1	2	23.1	8.2	32.2	6.5	4.2	3.2
	HY/2012/08 HY/2012/08		Mid-Ebb	SR7	Fine	Calm			Middle	2	1	23.1	0.2	JZ.Z	0.5	4.4	3.2
TMCLKL TMCLKL	HY/2012/08 HY/2012/08	2019-12-02 2019-12-02	Mid-Ebb	SR7	Fine	Calm	_	4.3	Middle	2	2	+	+		-	+	+
TMCLKL	HY/2012/08		Mid-Ebb	SR7	Fine	Calm	03:18		Bottom	2	1	23.1	8.2	32.2	6.6	14.6	5.5
		2019-12-02		SR7	Fine	Calm	03:18	4.3		2	2	23.1	8.2		6.6	4.6	5.5
TMCLKL	HY/2012/08	2019-12-02	Mid-Ebb					4.3	Bottom	1	1	_		32.2	6.6	4.6	4.8
TMCLKL	HY/2012/08	2019-12-02	Mid-Ebb	IS17	Fine	Rough	04:30	11	Surface	1	2	22.9	8.3	31.7	6.6	4.1	0.1 6 F
TMCLKL	HY/2012/08	2019-12-02	Mid-Ebb	IS17	Fine	Rough	04:30	11	Surface	2	1	22.9	8.3	31.7	6.6	4 15	6.5
TMCLKL	HY/2012/08	2019-12-02	Mid-Ebb	IS17	Fine	Rough	04:30	11	Middle	2	2	23.1	8.3	31.9	6.5	4.5	5.9
TMCLKL	HY/2012/08	2019-12-02	Mid-Ebb Mid-Ebb	IS17 IS17	Fine Fine	Rough	04:30	11	Middle	2	1	23.1 23.1	8.3	31.9	6.6 6.6	4.5 5.1	6.6 6.3
	HY/2012/08					Rough	04:30	11	Bottom	2	12			 -			
TMCLKL	HY/2012/08	2019-12-02	Mid-Ebb	IS17	Fine	Rough		11	Bottom	1	1	23.1	8.3	32	6.6	5.2	5.4
TMCLKL	HY/2012/08	2019-12-02	Mid-Flood	CS(Mf)5	Fine	Rough	17:10	12.4	Surface	[1	[1	23.4	8	33.8	6.2	2.7	6.2

		1	T	T		Sea	T	Water	Τ	Ţ			Τ		T		
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	2019-12-02	Mid-Flood	CS(Mf)5	Fine	Rough	17:10	12.4	Surface	1	2	23.3	8.2	32.9	6.3	2.8	5.8
TMCLKL	HY/2012/08	2019-12-02	Mid-Flood	CS(Mf)5	Fine	Rough	17:10	12.4	Middle	2	1	23.4	8	33.9	6.2	3	4.3
TMCLKL	HY/2012/08	2019-12-02	Mid-Flood	CS(Mf)5	Fine	Rough	17:10	12.4	Middle	2	2	23.3	8.2	32.9	6.2	3.2	5.1
TMCLKL	HY/2012/08	2019-12-02	Mid-Flood	CS(Mf)5	Fine	Rough	17:10	12.4	Bottom	3	1	23.5	8	34	6.1	6.6	4.5
TMCLKL	HY/2012/08	2019-12-02	Mid-Flood	CS(Mf)5	Fine	Rough	17:10	12.4	Bottom	3	2		8.2	33	6.1	6.7	4.7
TMCLKL	HY/2012/08	2019-12-02	Mid-Flood	\ / \ /	Fine	Rough	16:13	7.2	Surface	1	1	22.8	8	32.4	7	10.6	6.4
TMCLKL	HY/2012/08	2019-12-02	Mid-Flood	\ / \ /	Fine	Rough	16:13	7.2	Surface	1	2		8.2	31.5	7	11.3	7.4
TMCLKL	HY/2012/08	2019-12-02	Mid-Flood		Fine	Rough	16:13	7.2	Middle	2	1	22.8	8	32.4	6.9	10.7	6.9
TMCLKL	HY/2012/08	2019-12-02	Mid-Flood		Fine	Rough	16:13	7.2	Middle	2	2		8.2	31.5	6.9	11.5	5.9
TMCLKL	HY/2012/08	2019-12-02	Mid-Flood		Fine	Rough	16:13	7.2	Bottom	3	1	22.8	8	32.4	6.9	9.5	6.7
TMCLKL	HY/2012/08	2019-12-02	Mid-Flood		Fine	Rough	16:13	7.2	Bottom	3	2	22.7	8.2	31.5	6.9	10.1	5.7
TMCLKL	HY/2012/08	2019-12-02	Mid-Flood	IS(Mf)16	Fine	Moderate		5.7	Surface	11	1		8	32.5	6.9	8	5.9
TMCLKL	HY/2012/08	2019-12-02	Mid-Flood	IS(Mf)16	Fine	Moderate	15:27	5.7	Surface	1	2	22.7	8.2	31.6	7	8.7	6
TMCLKL	HY/2012/08	2019-12-02	Mid-Flood	IS(Mf)16	Fine	Moderate		5.7	Middle	2	1	+	+		+		
TMCLKL	HY/2012/08	2019-12-02	Mid-Flood	IS(Mf)16	Fine	Moderate	15:27	5.7	Middle	2	2	100.0	 	00.0			5.0
TMCLKL	HY/2012/08	2019-12-02	Mid-Flood	IS(Mf)16	Fine	Moderate		5.7	Bottom	3	1	22.8	8	32.6	6.8	14	5.6
TMCLKL	HY/2012/08	2019-12-02	Mid-Flood	IS(Mf)16	Fine	Moderate		5.7	Bottom	3	2		8.2	31.7	6.8	14.8	4.7
TMCLKL	HY/2012/08	2019-12-02	Mid-Flood	SR4a	Fine	Calm		4.3	Surface	1	1	22.7	8	32.8	7.1	6.5	6.7
TMCLKL	HY/2012/08	2019-12-02	Mid-Flood	SR4a	Fine	Calm		4.3	Surface	12	1	22.6	8.2	31.8	7.1	6.9	7.1
TMCLKL	HY/2012/08	2019-12-02	Mid-Flood	SR4a	Fine	Calm		4.3	Middle	2	17		+	 			
TMCLKL	HY/2012/08	2019-12-02	Mid-Flood	SR4a	Fine	Calm		4.3	Middle	2	2	100.7	 	20.0	7.4	7.0	
TMCLKL	HY/2012/08 HY/2012/08	2019-12-02	Mid-Flood	SR4a SR4a	Fine	Calm Calm	15:14	4.3	Bottom	3	17		8.2	32.8	7.1	7.2	5.5
TMCLKL		2019-12-02	Mid-Flood		Fine		15:14	4.3	Bottom	3	1		8	31.8	7.1	7.8	6.5
TMCLKL TMCLKL	HY/2012/08	2019-12-02	Mid-Flood	SR4(N2)	Fine	Calm Calm	15:07 15:07	4	Surface Surface	11	12	22.8 22.8	8.2	32.8 31.9	7.2	6.3 6.7	/
TMCLKL	HY/2012/08 HY/2012/08	2019-12-02	Mid-Flood	SR4(N2) SR4(N2)	Fine Fine	Calm	15:07	4	Middle	12	1	22.0	0.2	31.9	7.2	0.7	0
TMCLKL	HY/2012/08	2019-12-02	Mid-Flood Mid-Flood	SR4(N2)	Fine	Calm	15:07	4	Middle	2	12	+	+	 	+	+	+
TMCLKL	HY/2012/08	2019-12-02	Mid-Flood	SR4(N2)	Fine	Calm	15:07	4	Bottom	2	1	22.8	8	32.8	7.2	7.5	7.2
TMCLKL	HY/2012/08	2019-12-02	Mid-Flood	SR4(N2)	Fine	Calm	15:07	4	Bottom	3	12		8.2	31.9	7.2	Q Q	Q 1
TMCLKL	HY/2012/08	2019-12-02	Mid-Flood	IS8(N)	Fine	Calm		3.7	Surface	1	1	22.9	8	32.7	7.1	6.8	9.1
TMCLKL	HY/2012/08	2019-12-02	Mid-Flood	IS8(N)	Fine	Calm		3.7	Surface	1	12		8.2	31.7	7.1	7	0.1
TMCLKL	HY/2012/08	2019-12-02	Mid-Flood	IS8(N)	Fine	Calm	_	3.7	Middle	12	1	22.0	10.2	51.7	1.1		3.1
TMCLKL	HY/2012/08	2019-12-02	Mid-Flood	IS8(N)	Fine	Calm		3.7	Middle	2	2	+	+-	 	+	+	+
TMCLKL	HY/2012/08	2019-12-02	Mid-Flood	IS8(N)	Fine	Calm		3.7	Bottom	3	1	22.9	8	32.7	7.1	8.3	7.9
TMCLKL	HY/2012/08	2019-12-02	Mid-Flood	IS8(N)	Fine	Calm		3.7	Bottom	3	2		8.2	31.8	7.1	8.8	7.3
TMCLKL	HY/2012/08	2019-12-02	Mid-Flood	IS(Mf)9	Fine	Calm		3.2	Surface	1	1	22.8	8	32.7	7	8.5	6.7
TMCLKL	HY/2012/08	2019-12-02	Mid-Flood	IS(Mf)9	Fine	Calm		3.2	Surface	1	2		8.2	31.7	7	9.3	6.3
TMCLKL	HY/2012/08	2019-12-02	Mid-Flood	IS(Mf)9	Fine	Calm	14:54	3.2	Middle	2	1	1	1 -		+		1000
TMCLKL	HY/2012/08	2019-12-02	Mid-Flood	IS(Mf)9	Fine	Calm		3.2	Middle	2	2		t				
TMCLKL	HY/2012/08	2019-12-02	Mid-Flood	IS(Mf)9	Fine	Calm		3.2	Bottom	3	1	22.8	8	32.7	6.9	9	4.4
TMCLKL	HY/2012/08	2019-12-02	Mid-Flood	IS(Mf)9	Fine	Calm		3.2	Bottom	3	2		8.2	31.8	7	9.3	5.3
TMCLKL	HY/2012/08	2019-12-02	Mid-Flood	IS(Mf)11	Fine	Rough		11.1	Surface	1	1	22.8	8	32.6	6.8	5.5	5.7
TMCLKL	HY/2012/08	2019-12-02	Mid-Flood	IS(Mf)11	Fine	Rough	15:44	11.1	Surface	1	2		8.2	31.6	6.9	5.7	5.6
TMCLKL	HY/2012/08	2019-12-02	Mid-Flood	IS(Mf)11	Fine	Rough	15:44	11.1	Middle	2	1	22.9	8	32.6	6.7	6.4	5.2
TMCLKL	HY/2012/08	2019-12-02	Mid-Flood	IS(Mf)11	Fine	Rough	15:44	11.1	Middle	2	2	22.8	8.2	31.7	6.8	6.4	6.2
TMCLKL	HY/2012/08	2019-12-02	Mid-Flood	IS(Mf)11	Fine	Rough	15:44	11.1	Bottom	3	1	22.9	8	32.7	6.7	9.3	7
TMCLKL	HY/2012/08	2019-12-02	Mid-Flood	IS(Mf)11	Fine	Rough	15:44	11.1	Bottom	3	2		8.2	31.7	6.7	10.3	6
TMCLKL	HY/2012/08	2019-12-02	Mid-Flood	SR7	Fine	Rough	_	4.1	Surface	1	1	23	8	33	6.6	4.2	7.4
TMCLKL	HY/2012/08	2019-12-02	Mid-Flood	SR7	Fine	Rough		4.1	Surface	1	2	22.9	8.2	32.1	6.6	4.8	6.4
TMCLKL	HY/2012/08	2019-12-02	Mid-Flood	SR7	Fine	Rough		4.1	Middle	2	1						
TMCLKL	HY/2012/08	2019-12-02	Mid-Flood	SR7	Fine	Rough		4.1	Middle	2	2		1				
TMCLKL	HY/2012/08	2019-12-02	Mid-Flood	SR7	Fine	Rough	16:47	4.1	Bottom	3	11	23.1	8	33.1	6.5	5.3	7.3
TMCLKL	HY/2012/08	2019-12-02	Mid-Flood	SR7	Fine	Rough	16:47	4.1	Bottom	3	2		8.2	32.2	6.5	5.6	8.2
TMCLKL	HY/2012/08	2019-12-02	Mid-Flood	IS17	Fine	Rough	15:35	10.8	Surface	11	11	23.1	8	33	6.6	4.3	6
TMCLKL	HY/2012/08	2019-12-02	Mid-Flood	IS17	Fine	Rough	15:35	10.8	Surface	11	2		8.2	32	6.6	4.6	5.7
TMCLKL	HY/2012/08	2019-12-02	Mid-Flood	IS17	Fine	Rough	15:35	10.8	Middle	12	11	23.2	8	33.1	6.4	5.5	6.2
TMCLKL	HY/2012/08	2019-12-02	Mid-Flood	IS17	Fine	Rough	15:35	10.8	Middle	12	2	_	8.2	32.1	6.4	5.8	5.4
TMCLKL	HY/2012/08	2019-12-02	Mid-Flood	IS17	Fine	Rough	15:35	10.8	Bottom	3	11		8	33.3	6.3	8.6	5.2
N/// 'L IZ I	HY/2012/08	2019-12-02	Mid-Flood	IS17	Fine	Rough	15:35	10.8	Bottom	[3	2	23.2	8.2	32.3	6.3	9.6	5.8
			N 4: 1 =: :	00/140 =		N.A	0 = 0 -	400	<u> </u>	4	14	45.0		00.7	7.0	10.4	la -
TMCLKL	HY/2012/08 HY/2012/08	2019-12-04 2019-12-04	Mid-Ebb Mid-Ebb	CS(Mf)5 CS(Mf)5	Cloudy Cloudy	Moderate Moderate	05:23 05:23	12.2 12.2	Surface Surface		2			33.7 34.7	7.6 7.5	3.1 2.6	9.7 9.5

Figure Commiss Commi						<u> </u>	Sea	l	Water	<u> </u>		I	T	1	1	T	T	
TRICKE, M. PROZEGO 20 19-16-204 MoS-De C. SCHIST COLLEY MoScienter (S. 22) 122 MoSte 2 1 17.1 S. 2 33.2 7.4 3.3 8.4 7.4 1.2 7.4 1.1 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2	Project	Contract	Date	Tide	Stat	Weather		Time		Level	Lev_Cod	Replicate	Temp(°C)	рН	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
TRICKE, PRIZE 200 2019-12-00 Mode Cab Confess Colony Mode and Colony Mod	TMCLIZI	111//2012/00	2010 12 01	Mid Ebb	CC/Mt\E	Claudy				Middle	0	4	17.1	0.0	22.2	7.4	10.0	0.4
TRICHAL PRO2012-09 2019-12-04 Mod-Elbe CSMMS Colordy Moderate R622 12.2 Series 0.1 1. 16.3 3.2 7.4 3.5 8.1					`						2	1		_				
TRICLE 1/2012/03 2019-12-26 Mod-Cib CSMM/SM Cloudy Moderate 65.23 12.2 80 trum 3 2 16.4 32 7.4 4 12.7 7.5 1.					· · ·						2	2		+				_
THELLE I INFORMATION CONTRACTOR OF THE CONTRACTO			_	-	`						3	1		_				_
Mickel M					\ /						3	2		-		+		12.7
Michael Mich				-						.	1	1		8.2		_		7.7
Triggraph Trig				+		_				-	1	2		8		+		7
MicCle M				+	_ ` / ` /	_					2	1						_
TRICKLE, 17/2012/08 2019-12-04 Mid-Ebb SMM-300 Cloudy Moderate 0-19 6-19 6-19 6-19 6-10		+		+	· / / /						2	2						
THICLE, My/201208 2019-12-04 Mid-Ebb SMM16 Cooky Moderate O'700 5.8 Surface 1 19.6 82 32.5 7.4 12.1 9.2		+								-	3	1	+	8.2		7.1		
TRICUE, TriC	TMCLKL	HY/2012/08	2019-12-04	Mid-Ebb	CS(Mf)3(N)	Cloudy	Moderate		6.7	Bottom	3	2	20.9	8		7.1		
TRICKER PRIVATE 1979 1	TMCLKL	HY/2012/08	2019-12-04	Mid-Ebb	IS(Mf)16	Cloudy	Moderate	07:00	5.8	Surface	1	1	19.6	8.2	32.5	7.4	12.1	9.2
TRICKER TV2911208 2919-1204 Mol-Ebb SkMilf County Moderate 07:00 5.8 Molse 2 2	TMCLKL	HY/2012/08	2019-12-04	Mid-Ebb	IS(Mf)16	Cloudy	Moderate	07:00	5.8	Surface	1	2	19.7	8	33.4	7.3	10.9	10.1
TMCLIG. My291208 2919-1204 Mof-Ebb SMM16 Cloudy Moderate 07:00 6.8 Bottom 8 1 19.4 8.2 92.2 7.4 6.1 0.5	TMCLKL	HY/2012/08	2019-12-04	Mid-Ebb	IS(Mf)16	Cloudy	Moderate	07:00	5.8	Middle	2	1						
TRICKLK PRY201298 2019-12-04 Mol-Ebib SRF4a Cloudy Moderate 07:09 6.8 Surface 1 1 20.2 8.2 32.2 7.2 6.3 15.3	TMCLKL	HY/2012/08	2019-12-04	Mid-Ebb	IS(Mf)16	Cloudy	Moderate	07:00	5.8	Middle	2	2						
MICKLE, MY201208 2019-12-04 Mid-Ebb SR4a Cloudy Moderate 07.07 4.5 Surface 1 1 20.2 8.2 32.1 7.2 6.3 15.3	TMCLKL	HY/2012/08	2019-12-04	Mid-Ebb	IS(Mf)16	Cloudy	Moderate	07:00	5.8	Bottom	3	1	19.4	8.2	32.2	7.4	6.1	9.5
MICKLE, MY201208 2019-12-04 Mid-Ebb SR4a Cloudy Moderate 07.07 4.5 Surface 1 1 20.2 8.2 32.1 7.2 6.3 15.3	TMCLKL	HY/2012/08	2019-12-04	Mid-Ebb	IS(Mf)16	Cloudy	Moderate	07:00	5.8	Bottom	3	2	19.5	8	33.1	7.3	5.2	10.7
TRICKLK MY201208 201912-04 Mole-Bib SR4a Cloudy Moderate 0707 4.5 Surface 1 2 20.2 8 33.1 7.2 6.1 14.3	TMCLKL										1	1		8.2				15.3
TRICKLK MY201208 2919-12-04 Mol-Ebb SR4a Coucky Moderate 07.07 4.5 Middle 2 1											1	2		8				
MICAULA MY201208 2019-12-04 Mole Ebb SR4a Cloudy Moderate 07.07 4.5 Models 2 2 5 5 5 5 5 5 5 5									 		2	1		Ť		1	1	1
Mickel My201208 2019-12-04 Mid-Ebb SR4a Cloudy Moderate 07.07 4.5 Botton 3 1 18.9 8.2 32.4 7.3 7.6 9.1									 		2	2	1			1	1	1
MCKUKL MY201208 2019-12-04 Mol-Ebb SR41N2 Cloudy Moderate 07-07 4.5 Bottom 3 2 19 8 33.3 7.2 7.1 10 MKKUKL MY201208 2019-12-04 Mol-Ebb SR41N2 Cloudy Moderate 07-11 3.8 Surface 1 2 20.5 8 33.2 7.1 7.6 12.9 MKKUKL MY201208 2019-12-04 Mol-Ebb SR41N2 Cloudy Moderate 07-11 3.8 Surface 1 2 20.5 8 33.2 7.1 7.6 12.9 MKKUKL MY201208 2019-12-04 Mol-Ebb SR41N2 Cloudy Moderate 07-11 3.8 Middle 2 1											3	1	18.0	8 2	32.4	7 3	7.6	0 1
MCLKL MY201208 2019-12-04 Mol-Ebb SR4N(N) Cloudy Moderate 07.11 3.8 Surface 1 20.4 8.2 8.2 7.1 8.1 12.8											3	2		ρ.∠				
MCKLK MY201208 2019-12-04 Mole-Ebb SR4(N2) Cloudy Moderate O7:11 3.8 Surface 1 2 2.05 8 33.2 7.1 7.6 12.9											1	1		0 2				
TMCKLK H7/201208 2019-12-04 Mid-Ebb SR4(N2) Cloudy Moderate 07:11 3.8 Middle 2 2 1					\ /	_					1	1		0.2		+		
MCKLK H7/2012/08 2019-12-04 Mid-Ebb SR4/N2 Cloudy Moderate O7-11 3.8 Middle 2 2 2 5 5 10.8 Mid-Reb Cloudy Moderate O7-12 3.8 Surface 1 1.9 1.9 1.9 1.9 1.9 1.1 1.1 1.9 1.1					\ /						1	2	20.5	8	33.2	7.1	7.0	12.9
Micked My201208 2019-12-04 Mid-Ebb SR4N(N2) Cloudy Moderate O7-11 3.8 Bottom 3 1 20.5 8.2 32.1 7.2 8.5 10.8					\ /	_					2	1		1		-		
TMCLKL H7/2012/08 2019-12-04 Mid-Ebb SR(N) Cloudy Moderate 07:16 3.6 Surface 1 1 19.1 8.2 32.3 7.3 7.1 7.9 11.9					\ /	_					2	2		-		<u> </u>		1
TMCLIK. HY/201208 2019-12-04 Mid-Ebb IS8N) Cloudy Moderate 07:16 3.6 Surface 1 1 19.1 8.2 32.3 7.3 7.1 10.4					\ /	,					3	1		8.2				
TMCLIK HY/201208 2019-12-04 Mid-Ebb IS8(N) Cloudy Moderate 07:16 3.6 Surface 1 2 19.1 8 33.3 7.2 6.1 9.7						_					3	2		8				
TMCLIK. HY/2012/08 2019-12-04 Mid-Ebb SS(N) Cloudy Moderate 07:16 3.6 Middle 2 1						_					1	1						_
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TMCLKL HY/2012/08 2019-12-04 Mid-Ebb IS(Mif)9 Cloudy Moderate 07:23 2.8 Bottom 3 2	TMCLKL	HY/2012/08	2019-12-04		IS(Mf)9		Moderate			Middle	2	2	20.1	8		7	5	
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TMCLKL HY/2012/08 2019-12-04 Mid-Ebb IS17 Cloudy Moderate 06:54 7.9 Bottom 3 1 18.9 8.2 32.2 7.4 7.2 9.9 TMCLKL HY/2012/08 2019-12-04 Mid-Ebb IS17 Cloudy Moderate 06:54 7.9 Bottom 3 2 19 8 33.3 7.3 8.1 9.2 TMCLKL HY/2012/08 2019-12-04 Mid-Flood CS(Mf)5 Cloudy Moderate 15:12 12.4 Surface 1 1 21.5 8.1 32.5 6.9 7 12.1 TMCLKL HY/2012/08 2019-12-04 Mid-Flood CS(Mf)5 Cloudy Moderate 15:12 12.4 Surface 1 2 21.6 7.9 33.5 6.9 6.4 11.2	TMCLKL				+			•			2	1		_		+		_
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TMCLKL HY/2012/08 2019-12-04 Mid-Flood CS(Mf)5 Cloudy Moderate 15:12 12.4 Surface 1 1 21.5 8.1 32.5 6.9 7 12.1 TMCLKL HY/2012/08 2019-12-04 Mid-Flood CS(Mf)5 Cloudy Moderate 15:12 12.4 Surface 1 2 21.6 7.9 33.5 6.9 6.4 11.2	TMCLKL		2019-12-04	Mid-Ebb		Cloudy	Moderate		7.9	Bottom	3	1	18.9	8.2		7.4		
TMCLKL HY/2012/08 2019-12-04 Mid-Flood CS(Mf)5 Cloudy Moderate 15:12 12.4 Surface 1 1 21.5 8.1 32.5 6.9 7 12.1 TMCLKL HY/2012/08 2019-12-04 Mid-Flood CS(Mf)5 Cloudy Moderate 15:12 12.4 Surface 1 2 21.6 7.9 33.5 6.9 6.4 11.2	TMCLKL	HY/2012/08	2019-12-04	Mid-Ebb	IS17	Cloudy	Moderate	06:54	7.9	Bottom	3	2	19	8	33.3	7.3	8.1	9.2
TMCLKL HY/2012/08 2019-12-04 Mid-Flood CS(Mf)5 Cloudy Moderate 15:12 12.4 Surface 1 2 21.6 7.9 33.5 6.9 6.4 11.2	TMCLKL	HY/2012/08	2019-12-04	Mid-Flood	CS(Mf)5	Cloudy	Moderate		12.4	Surface	1	1	21.5	8.1	32.5	6.9	7	12.1
	TMCLKL	HY/2012/08	2019-12-04	Mid-Flood			Moderate	15:12	12.4	Surface	1	2	21.6	7.9	33.5	6.9	6.4	11.2
				Mid-Flood	CS(Mf)5		Moderate				2	1						10.7

		T	T	T	Ī	Sea		Water		T	T	1	Т		Ī		
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	2019-12-04	Mid-Flood	CS(Mf)5	Cloudy	Moderate	15:12	12.4	Middle	2	2		+				9.7
TMCLKL	HY/2012/08	2019-12-04	Mid-Flood	CS(Mf)5	Cloudy	Moderate	15:12	12.4	Bottom	3	1	21.5	8.1	32.6	6.9	6.9	9.9
TMCLKL	HY/2012/08	2019-12-04	Mid-Flood	CS(Mf)5	Cloudy	Moderate	15:12	12.4	Bottom	3	2	21.6	7.9	33.6	6.9	6.3	10.4
TMCLKL	HY/2012/08	2019-12-04	Mid-Flood	CS(Mf)3(N)	Cloudy	Moderate	13:47	7.6	Surface	1	1	21.7	8 1	32.7	6.9	5.5	12.3
TMCLKL	HY/2012/08	2019-12-04	Mid-Flood	CS(Mf)3(N)	Cloudy	Moderate	13:47	7.6	Surface	1	2	21.8	8	33.6	6.8	5.1	10.7
TMCLKL	HY/2012/08	2019-12-04	Mid-Flood	CS(Mf)3(N)	Cloudy	Moderate	13:47	7.6	Middle	2	1	21.8	8.1	32.8	6.7	6.9	11.9
TMCLKL	HY/2012/08	2019-12-04	Mid-Flood	CS(Mf)3(N)	Cloudy	Moderate	13:47	7.6	Middle	2	2	21.8	8	33.7	6.7	6.4	10.5
TMCLKL	HY/2012/08	2019-12-04	Mid-Flood	CS(Mf)3(N)	Cloudy	Moderate	13:47	7.6	Bottom	3	1	21.8	8.1	32.8	6.7	9.7	9.2
TMCLKL	HY/2012/08	2019-12-04	Mid-Flood	CS(Mf)3(N)	Cloudy	Moderate	13:47	7.6	Bottom	3	2	21.9	8	33.8	6.7	9.5	9.7
TMCLKL	HY/2012/08	2019-12-04	Mid-Flood	IS(Mf)16	Cloudy	Moderate	13:30	5.8	Surface	1	1	21.7	8.1	32.5	7	9.1	13.6
TMCLKL	HY/2012/08	2019-12-04	Mid-Flood	IS(Mf)16	Cloudy	Moderate	13:30	5.8	Surface	1	2	21.7	8	33.5	6.9	9.2	14.9
TMCLKL	HY/2012/08	2019-12-04	Mid-Flood	IS(Mf)16	Cloudy	Moderate	13:30	5.8	Middle	2	1						
TMCLKL	HY/2012/08	2019-12-04	Mid-Flood	IS(Mf)16	Cloudy	Moderate	13:30	5.8	Middle	2	2						
TMCLKL	HY/2012/08	2019-12-04	Mid-Flood	IS(Mf)16	Cloudy	Moderate	13:30	5.8	Bottom	3	1	21.8	8.1	32.8	6.9	7.6	15.1
TMCLKL	HY/2012/08	2019-12-04	Mid-Flood	IS(Mf)16	Cloudy	Moderate	13:30	5.8	Bottom	3	2	21.9	8	33.8	6.9	7.2	17
TMCLKL	HY/2012/08	2019-12-04	Mid-Flood	SR4a	Cloudy	Moderate	13:18	4.6	Surface	1	1	21.4	8.1	32.4	6.9	7.6	15.1
TMCLKL	HY/2012/08	2019-12-04	Mid-Flood	SR4a	Cloudy	Moderate	13:18	4.6	Surface	1	2	21.5	7.9	33.4	6.8	7	14.6
TMCLKL	HY/2012/08	2019-12-04	Mid-Flood	SR4a	Cloudy	Moderate	13:18	4.6	Middle	2	1						
TMCLKL	HY/2012/08	2019-12-04	Mid-Flood	SR4a	Cloudy	Moderate	13:18	4.6	Middle	2	2						
TMCLKL	HY/2012/08	2019-12-04	Mid-Flood	SR4a	Cloudy	Moderate	13:18	4.6	Bottom	3	1	21.5	8.1	32.6	7	8.4	15.2
TMCLKL	HY/2012/08	2019-12-04	Mid-Flood	SR4a	Cloudy	Moderate	13:18	4.6	Bottom	3	2	21.6	7.9	33.6	6.9	8.6	13.9
TMCLKL	HY/2012/08	2019-12-04	Mid-Flood	SR4(N2)	Cloudy	Moderate	13:14	3.5	Surface	1	1	21.2	8.1	32.3	6.9	6.6	12.5
TMCLKL	HY/2012/08	2019-12-04	Mid-Flood	SR4(N2)	Cloudy	Moderate	13:14	3.5	Surface	1	2	21.3	7.9	33.3	6.9	5.9	11.1
TMCLKL	HY/2012/08	2019-12-04	Mid-Flood	SR4(N2)	Cloudy	Moderate	13:14	3.5	Middle	2	1						
TMCLKL	HY/2012/08	2019-12-04	Mid-Flood	SR4(N2)	Cloudy	Moderate	13:14	3.5	Middle	2	2						
TMCLKL	HY/2012/08	2019-12-04	Mid-Flood	SR4(N2)	Cloudy	Moderate	13:14	3.5	Bottom	3	1	21.2	8	32.3	7	7.2	10
TMCLKL	HY/2012/08	2019-12-04	Mid-Flood	SR4(N2)	Cloudy	Moderate	13:14	3.5	Bottom	3	2	21.3	7.9	33.3	7	7.1	9
TMCLKL	HY/2012/08	2019-12-04	Mid-Flood	IS8(N)	Cloudy	Moderate	13:07	3.7	Surface	1	1	21.5	8.1	32.5	6.9	7	9.7
TMCLKL	HY/2012/08	2019-12-04	Mid-Flood	IS8(N)	Cloudy	Moderate	13:07	3.7	Surface	1	2	21.6	7.9	33.5	6.9	6.4	10.8
TMCLKL	HY/2012/08	2019-12-04	Mid-Flood	IS8(N)	Cloudy	Moderate	13:07	3.7	Middle	2	1						
TMCLKL	HY/2012/08	2019-12-04	Mid-Flood	IS8(N)	Cloudy	Moderate	13:07	3.7	Middle	2	2						
TMCLKL	HY/2012/08	2019-12-04	Mid-Flood	IS8(N)	Cloudy	Moderate	13:07	3.7	Bottom	3	1	21.5	8.1	32.6	6.9	6.9	12.4
TMCLKL	HY/2012/08	2019-12-04	Mid-Flood	IS8(N)	Cloudy	Moderate	13:07	3.7	Bottom	3	2	21.6	7.9	33.6	6.9	6.3	12.4
TMCLKL	HY/2012/08	2019-12-04	Mid-Flood	IS(Mf)9	Cloudy	Moderate	13:00	2.8	Surface	1	1						
TMCLKL	HY/2012/08	2019-12-04	Mid-Flood	IS(Mf)9	Cloudy	Moderate	13:00	2.8	Surface	1	2						
TMCLKL	HY/2012/08	2019-12-04	Mid-Flood	IS(Mf)9	Cloudy	Moderate	13:00	2.8	Middle	2	1	21.8	8	32.8	6.9	7.8	13.1
TMCLKL	HY/2012/08	2019-12-04	Mid-Flood	IS(Mf)9	Cloudy	Moderate	13:00	2.8	Middle	2	2	21.8	7.9	33.7	6.9	7.2	11.9
TMCLKL	HY/2012/08	2019-12-04	Mid-Flood	IS(Mf)9	Cloudy	Moderate	13:00	2.8	Bottom	3	1						
TMCLKL	HY/2012/08	2019-12-04	Mid-Flood	IS(Mf)9	Cloudy	Moderate	13:00	2.8	Bottom	3	2		4				
TMCLKL	HY/2012/08	2019-12-04	Mid-Flood	IS(Mf)11	Cloudy	Moderate	13:40	11.1	Surface	1	1	21.8	8.1	32.8	6.7	4.4	11.7
TMCLKL	HY/2012/08	2019-12-04	Mid-Flood	IS(Mf)11	Cloudy	Moderate	13:40	11.1	Surface	1	2	21.9	8	33.7	6.7	4.2	12.6
TMCLKL	HY/2012/08	2019-12-04	Mid-Flood	IS(Mf)11	Cloudy	Moderate	13:40	11.1	Middle	2	1	21.8	8.1	32.8	6.7	5.2	11.8
TMCLKL	HY/2012/08	2019-12-04	Mid-Flood	IS(Mf)11	Cloudy	Moderate	13:40	11.1	Middle	2	2	21.8	8	33.8	6.6	5.7	13.9
TMCLKL	HY/2012/08	2019-12-04	Mid-Flood	IS(Mf)11	Cloudy	Moderate	13:40	11.1	Bottom	3	1	21.8	8.1 c	32.8	6.7	6.6	15.5
TMCLKL	HY/2012/08	2019-12-04	Mid-Flood	IS(Mf)11	Cloudy	Moderate	13:40	11.1	Bottom	3	2	21.8	8 0.4	33.8	6.7	δ	15.4
TMCLKL	HY/2012/08	2019-12-04	Mid-Flood	SR7	Cloudy	Moderate	14:47	4.6	Surface	1 a	1	21.9	8.1 c	32.9	6.9	4.3	10.3
TMCLKL	HY/2012/08	2019-12-04	Mid-Flood	SR7	Cloudy	Moderate	14:47	4.6	Surface	11		21.9	Ιğ	33.9	6.9	4.1	9.8
TMCLKL	HY/2012/08	2019-12-04	Mid-Flood	SR7	Cloudy	Moderate	14:47	4.6	Middle	2	12	+	+	 			+
TMCLKL	HY/2012/08	2019-12-04	Mid-Flood	SR7	Cloudy	Moderate	14:47	4.6	Middle	2		24.0	0.4	22.0	6.0	4.5	10.7
TMCLKL	HY/2012/08	2019-12-04	Mid-Flood	SR7	Cloudy	Moderate	14:47	4.6	Bottom	ا اه	12	21.9	0.1	32.9	6.9	4.5	10.7
TMCLKL	HY/2012/08	2019-12-04	Mid-Flood	SR7 IS17	Cloudy	Moderate	14:47	4.6	Bottom	14	1	21.9	0 1	33.9	6.9	4.7	10 /
TMCLKL	HY/2012/08	2019-12-04	Mid-Flood		Cloudy	Moderate	13:39 13:39	7.6	Surface	11	12	21.8	0.1	32.8 33.7	6.7	4.4	18.4
TMCLKL	HY/2012/08	2019-12-04	Mid-Flood	IS17	Cloudy Cloudy	Moderate	13:39	7.6	Surface Middle	12	1	21.9	0 1		6.7		16.9 10.4
TMCLKL	HY/2012/08 HY/2012/08	2019-12-04	Mid-Flood	IS17 IS17	Cloudy	Moderate		7.6	Middle	2	12	21.8 21.8	0.1	32.8	6.6	5.2 5.7	11.8
TMCLKL		2019-12-04	Mid-Flood	IS17	Cloudy	Moderate	13:39	7.6	+	2	1	21.8	0	33.8 32.8	6.7	6.6	10.7
TMCLKL	HY/2012/08 HY/2012/08	2019-12-04 2019-12-04	Mid-Flood Mid-Flood	IS17	'	Moderate	13:39 13:39	7.6	Bottom	2	12	21.8	0	33.8	6.7	6	9.2
TMCLKL				CS(Mf)5	Cloudy	Moderate Moderate		7.6	Bottom	14	1		0 1	33.6			10.9
TMCLKL TMCLKL	HY/2012/08 HY/2012/08	2019-12-06 2019-12-06	Mid-Ebb Mid-Ebb	\ /	Cloudy Cloudy	Moderate Moderate	06:53 06:53	12.6 12.6	Surface Surface	11	12	21.8 21.8	0.1	34.6	6.6	2.5	11.2
TMCLKL	HY/2012/08 HY/2012/08	2019-12-06	Mid-Ebb	CS(Mf)5 CS(Mf)5	Cloudy	Moderate	06:53	12.6	Middle	12	1	21.8	8.1	33.6	6.6	2.4	8.4
TMCLKL	HY/2012/08 HY/2012/08		Mid-Ebb	CS(Mf)5	Cloudy		-	12.6		2	2	21.8			6.6	2.2	8.3
LIVICLAL	111/2012/00	12019-12-00	וויווע-בטט	TCO(IVII)O	Joioudy	Moderate	06:53	12.0	Middle	4	اِ	121.0	7.9	34.6	JO.0	L ''O	Jo.3

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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	2019-12-06	Mid-Ebb	CS(Mf)5	Cloudy	Moderate	06:53	12.6	Bottom	3	1	21.7	8.1	33.6	6.6	2.3	7.2
TMCLKL	HY/2012/08	2019-12-06	Mid-Ebb	CS(Mf)5	Cloudy	Moderate	06:53	12.6	Bottom	3	2	21.8	7.9	34.6	6.6	2.2	7.9
TMCLKL	HY/2012/08	2019-12-06	Mid-Ebb	CS(Mf)3(N)	Cloudy	Rough	_	7.1	Surface	1	1	20.1	8.1	33.1	7.1	5.6	8.4
TMCLKL	HY/2012/08	2019-12-06	Mid-Ebb	CS(Mf)3(N)	Cloudy	Rough	07:50	7.1	Surface	1	2	20.1	8.1	34.1	7	5.2	8.5
TMCLKL	HY/2012/08	2019-12-06	Mid-Ebb	CS(Mf)3(N)	Cloudy	Rough	07:50	7.1	Middle	2	1	20.1	8.1	33.1	7.1	5.6	7.2
TMCLKL	HY/2012/08	2019-12-06	Mid-Ebb	CS(Mf)3(N)	Cloudy	Rough	07:50	7.1	Middle	2	2	20.1	8.1	34.1	7	5.2	7.2
TMCLKL	HY/2012/08	2019-12-06	Mid-Ebb	CS(Mf)3(N)	Cloudy	Rough	07:50	7.1	Bottom	3	1	19.9	8.1	33.1	7.1	6.1	6.2
TMCLKL	HY/2012/08	2019-12-06	Mid-Ebb	CS(Mf)3(N)	Cloudy	Rough	07:50	7.1	Bottom	3	2	20	8	34.1	7.1	5.7	5.9
TMCLKL	HY/2012/08	2019-12-06	Mid-Ebb	IS(Mf)16	Fine	Moderate	08:38	5.4	Surface	1	1	20.1	8.1	33.1	6.9	8.3	11.3
TMCLKL	HY/2012/08	2019-12-06	Mid-Ebb	IS(Mf)16	Fine	Moderate	08:38	5.4	Surface	1	2	20.2	8	34.1	6.9	7.5	11.1
TMCLKL	HY/2012/08	2019-12-06	Mid-Ebb	IS(Mf)16	Fine	Moderate	08:38	5.4	Middle	2	1						
TMCLKL	HY/2012/08	2019-12-06	Mid-Ebb	IS(Mf)16	Fine	Moderate	08:38	5.4	Middle	2	2						
TMCLKL	HY/2012/08	2019-12-06	Mid-Ebb	IS(Mf)16	Fine	Moderate	08:38	5.4	Bottom	3	1	20.1	8.1	33.1	7	12.7	13.8
TMCLKL	HY/2012/08	2019-12-06	Mid-Ebb	IS(Mf)16	Fine	Moderate	08:38	5.4	Bottom	3	2	20.2	8	34.1	6.9	12.8	13.3
TMCLKL	HY/2012/08	2019-12-06	Mid-Ebb	SR4a	Fine	Calm	08:50	4.3	Surface	1	1	19.9	8.1	33	6.8	6.3	8.3
TMCLKL	HY/2012/08	2019-12-06	Mid-Ebb	SR4a	Fine	Calm	08:50	4.3	Surface	1	2	20	8	34	6.8	5.7	8.9
TMCLKL	HY/2012/08	2019-12-06	Mid-Ebb	SR4a	Fine	Calm	_	4.3	Middle	2	1						
TMCLKL	HY/2012/08	2019-12-06	Mid-Ebb	SR4a	Fine	Calm	08:50	4.3	Middle	2	2						
TMCLKL	HY/2012/08	2019-12-06	Mid-Ebb	SR4a	Fine	Calm		4.3	Bottom	3	1	19.9	8.1	33	6.9	5.8	13.5
TMCLKL	HY/2012/08	2019-12-06	Mid-Ebb	SR4a	Fine	Calm	08:50	4.3	Bottom	3	2	20	8	34	6.8	5.5	13.3
TMCLKL	HY/2012/08	2019-12-06	Mid-Ebb	SR4(N2)	Fine	Calm	08:56	4	Surface	1	1	19.4	8.1	32.4	6.7	5.9	11.4
TMCLKL	HY/2012/08	2019-12-06	Mid-Ebb	SR4(N2)	Fine	Calm	08:56	4	Surface	1	2	19.5	8	33.4	6.7	5.2	11.8
TMCLKL	HY/2012/08	2019-12-06	Mid-Ebb	SR4(N2)	Fine	Calm	08:56	4	Middle	2	1						
TMCLKL	HY/2012/08	2019-12-06	Mid-Ebb	SR4(N2)	Fine	Calm	08:56	4	Middle	2	2						
TMCLKL	HY/2012/08	2019-12-06	Mid-Ebb	SR4(N2)	Fine	Calm	08:56	4	Bottom	3	1	19.7	8.1	32.6	6.8	5.6	10.7
TMCLKL	HY/2012/08	2019-12-06	Mid-Ebb	SR4(N2)	Fine	Calm	08:56	4	Bottom	3	2	19.7	8	33.6	6.7	5.4	10.9
TMCLKL	HY/2012/08	2019-12-06	Mid-Ebb	IS8(N)	Fine	Calm	09:06	3.7	Surface	1	1	19.3	8.2	32.5	7.1	7.2	11.8
TMCLKL	HY/2012/08	2019-12-06	Mid-Ebb	IS8(N)	Fine	Calm	09:06	3.7	Surface	1	2	19.4	8.1	33.5	7.1	6.6	12.1
TMCLKL	HY/2012/08	2019-12-06	Mid-Ebb	IS8(N)	Fine	Calm	09:06	3.7	Middle	2	1						
TMCLKL	HY/2012/08	2019-12-06	Mid-Ebb	IS8(N)	Fine	Calm	09:06	3.7	Middle	2	2						
TMCLKL	HY/2012/08	2019-12-06	Mid-Ebb	IS8(N)	Fine	Calm	09:06	3.7	Bottom	3	1	19.4	8.2	32.5	7.1	8.3	10.9
TMCLKL	HY/2012/08	2019-12-06	Mid-Ebb	IS8(N)	Fine	Calm	09:06	3.7	Bottom	3	2	19.5	8.1	33.5	7.1	7.1	11.5
TMCLKL	HY/2012/08	2019-12-06	Mid-Ebb	IS(Mf)9	Fine	Calm	09:16	3.2	Surface	1	1	19.5	8.1	32.5	7.2	8	11.7
TMCLKL	HY/2012/08	2019-12-06	Mid-Ebb	IS(Mf)9	Fine	Calm	09:16	3.2	Surface	1	2	19.6	8.1	33.5	7.1	7.6	12.2
TMCLKL	HY/2012/08	2019-12-06	Mid-Ebb	IS(Mf)9	Fine	Calm	09:16	3.2	Middle	2	1						
TMCLKL	HY/2012/08	2019-12-06	Mid-Ebb	IS(Mf)9	Fine	Calm	09:16	3.2	Middle	2	2						
TMCLKL	HY/2012/08	2019-12-06	Mid-Ebb	IS(Mf)9	Fine	Calm	09:16	3.2	Bottom	3	1	19.5	8.1	32.5	7.2	7.4	13.6
TMCLKL	HY/2012/08	2019-12-06	Mid-Ebb	IS(Mf)9	Fine	Calm	09:16	3.2	Bottom	3	2	19.5	8	33.5	7.2	6.9	13.8
TMCLKL	HY/2012/08	2019-12-06	Mid-Ebb	IS(Mf)11	Cloudy	Rough	08:19	10.8	Surface	1	1	20.8	8.1	33.3	6.8	4.6	7.5
TMCLKL	HY/2012/08	2019-12-06	Mid-Ebb	IS(Mf)11	Cloudy	Rough	08:19	10.8	Surface	1	2	20.9	8.1	34.3	6.7	4.4	7.1
TMCLKL	HY/2012/08	2019-12-06	Mid-Ebb	IS(Mf)11	Cloudy	Rough	08:19	10.8	Middle	2	1	20.8	8.1	33.3	6.8	4.9	8.6
TMCLKL	HY/2012/08	2019-12-06	Mid-Ebb	IS(Mf)11	Cloudy	Rough	08:19	10.8	Middle	2	2	20.9	8.1	34.3	6.7	4.4	9
TMCLKL	HY/2012/08	2019-12-06	Mid-Ebb	IS(Mf)11	Cloudy	Rough	08:19	10.8	Bottom	3	1	20.8	8.1	33.3	6.8	4.8	9.6
TMCLKL	HY/2012/08	2019-12-06	Mid-Ebb	IS(Mf)11	Cloudy	Rough	08:19	10.8	Bottom	3	2	20.9	8	34.3	6.7	4.4	9.4
TMCLKL	HY/2012/08	2019-12-06	Mid-Ebb	SR7	Cloudy	Rough	07:20	4.5	Surface	1	1	21.3	8.1	33.5	6.7	3	6.7
TMCLKL	HY/2012/08	2019-12-06	Mid-Ebb	SR7	Cloudy	Rough	07:20	4.5	Surface	1	2	21.4	8	34.5	6.6	3	6.8
TMCLKL	HY/2012/08	2019-12-06	Mid-Ebb	SR7	Cloudy	Rough	_	4.5	Middle	2	1						
TMCLKL	HY/2012/08	2019-12-06	Mid-Ebb	SR7	Cloudy	Rough		4.5	Middle	2	2						
TMCLKL	HY/2012/08	2019-12-06	Mid-Ebb	SR7	Cloudy	Rough	_	4.5	Bottom	3	1	21.3	8.1	33.5	6.7	3.3	8.8
TMCLKL	HY/2012/08	2019-12-06	Mid-Ebb	SR7	Cloudy	Rough	_	4.5	Bottom	3	2	21.4	8	34.6	6.7	3	8.5
TMCLKL	HY/2012/08	2019-12-06	Mid-Ebb	IS17	Cloudy	Moderate	08:30	10.6	Surface	1	1	21	8.1	33.4	6.8	4.1	7.9
TMCLKL	HY/2012/08	2019-12-06	Mid-Ebb	IS17	Cloudy	Moderate	08:30	10.6	Surface	1	2	21	8	34.4	6.7	3.8	7.8
TMCLKL	HY/2012/08	2019-12-06	Mid-Ebb	IS17	Cloudy	Moderate	08:30	10.6	Middle	2	1	21	8.1	33.4	6.7	4.4	8
TMCLKL	HY/2012/08	2019-12-06	Mid-Ebb	IS17	Cloudy	Moderate	08:30	10.6	Middle	2	2	21.1	8	34.4	6.7	4.1	8.6
TMCLKL	HY/2012/08	2019-12-06	Mid-Ebb	IS17	Cloudy	Moderate	08:30	10.6	Bottom	3	1	21	8.1	33.4	6.7	5	9
TMCLKL	HY/2012/08	2019-12-06	Mid-Ebb	IS17	Cloudy	Moderate	08:30	10.6	Bottom	3	2	21.1	8	34.4	6.7	4.8	9.3
TMCLKL	HY/2012/08	2019-12-06	Mid-Flood	CS(Mf)5	Fine	Moderate	16:16	12.5	Surface	1	1	21.7	8.1	33.6	6.6	6.7	11.3
TMCLKL	HY/2012/08	2019-12-06	Mid-Flood	CS(Mf)5	Fine	Moderate	16:16	12.5	Surface	1	2	21.8	8	34.5	6.6	6.1	11.6
TMCLKL	HY/2012/08	2019-12-06	Mid-Flood	CS(Mf)5	Fine	Moderate	16:16	12.5	Middle	2	1	21.7	8.1	33.6	6.6	6.2	11.4
TMCLKL	HY/2012/08	2019-12-06	Mid-Flood	CS(Mf)5	Fine	Moderate	16:16	12.5	Middle	2	2	21.8	8	34.5	6.6	5.7	11.3
TMCLKL	HY/2012/08	2019-12-06	Mid-Flood	CS(Mf)5	Fine	Moderate	16:16	12.5	Bottom	3	1	21.7	8.1	33.6	6.6	9.6	11.9
		-		, ,			-										-

		T	T		<u> </u>	Sea		Water	Π	T	<u> </u>	T	Т	1	T	1	T
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	2019-12-06	Mid-Flood	CS(Mf)5	Fine		16:16	12.5	Bottom	2	2	21.8	8	34.5	6.6	9.4	12.4
		_		· · ·				7		3	4			33.2	6.6	7.2	
TMCLKL	HY/2012/08	2019-12-06	Mid-Flood	CS(Mf)3(N)			15:17	7	Surface	1	2	20.2	8.1		7.3		14.1
TMCLKL	HY/2012/08	2019-12-06	Mid-Flood	CS(Mf)3(N)			15:17	7	Surface	1	2	20.2	8.1	34.2	7.3	6.2	14.3
TMCLKL	HY/2012/08	2019-12-06	Mid-Flood	CS(Mf)3(N)	Fine		15:17	7	Middle	2	1	20.2	8.1	33.2	7.3	7.3	111
TMCLKL	HY/2012/08	2019-12-06	Mid-Flood	CS(Mf)3(N)			15:17	/	Middle	2	2	20.2	8	34.2	7.3	6.6	10.9
TMCLKL	HY/2012/08	2019-12-06	Mid-Flood	CS(Mf)3(N)	Fine		15:17	7	Bottom	3	1	20.1	8.1	33.2	7.3	8	9.5
TMCLKL	HY/2012/08	2019-12-06	Mid-Flood	CS(Mf)3(N)			15:17	7	Bottom	3	2	20.1	8	34.2	7.3	7.4	9
TMCLKL	HY/2012/08	2019-12-06	Mid-Flood	IS(Mf)16				5.7	Surface	1	1	20.9	8.1	33.4	7	5.6	11.6
TMCLKL	HY/2012/08	2019-12-06	Mid-Flood	IS(Mf)16	Fine	Moderate		5.7	Surface	1	2	21	8	34.4	7	5.2	12.4
TMCLKL	HY/2012/08	2019-12-06	Mid-Flood	IS(Mf)16	Fine	Moderate	14:33	5.7	Middle	2	1						
TMCLKL	HY/2012/08	2019-12-06	Mid-Flood	IS(Mf)16	Fine	Moderate	14:33	5.7	Middle	2	2						
TMCLKL	HY/2012/08	2019-12-06	Mid-Flood	IS(Mf)16	Fine	Moderate	14:33	5.7	Bottom	3	1	20.9	8.1	33.4	7	12.2	13.9
TMCLKL	HY/2012/08	2019-12-06	Mid-Flood	IS(Mf)16		Moderate		5.7	Bottom	3	2	21	8	34.4	7	11.5	14.9
TMCLKL	HY/2012/08	2019-12-06	Mid-Flood	SR4a		Calm		4.4	Surface	1	1	20	8.1	32.9	7.2	8.6	14
TMCLKL	HY/2012/08	2019-12-06	Mid-Flood	SR4a			14:21	4.4	Surface	1	2	20.1	8	33.9	7.1	8.1	14.6
TMCLKL	HY/2012/08	2019-12-06	Mid-Flood	SR4a				4.4	Middle	2	1	2011	Ť	00.0	1		1
TMCLKL	HY/2012/08	2019-12-06	Mid-Flood	SR4a				4.4	Middle	2	2		1		<u> </u>		
TMCLKL	HY/2012/08	2019-12-06	Mid-Flood	SR4a	Fine			4.4	Bottom	2	1	20	8.1	33	7	7.6	12.4
TMCLKL	HY/2012/08	2019-12-06	Mid-Flood	SR4a		Calm			Bottom	2	2	20.1	8	34	7	7.4	12.4
								4.4		3	4	+	-		7.4		_
TMCLKL	HY/2012/08	2019-12-06	Mid-Flood	SR4(N2)			14:14	4.1	Surface	1	1	19.9	8.1	32.6	7.1	6.5	12.4
TMCLKL	HY/2012/08	2019-12-06	Mid-Flood	SR4(N2)			14:14	4.1	Surface	1	2	19.9	8	33.6	/	6	12.6
TMCLKL	HY/2012/08	2019-12-06	Mid-Flood	SR4(N2)			14:14	4.1	Middle	2	1		↓		ļ		
TMCLKL	HY/2012/08	2019-12-06	Mid-Flood	SR4(N2)			14:14	4.1	Middle	2	2						
TMCLKL	HY/2012/08	2019-12-06	Mid-Flood	SR4(N2)	Fine		14:14	4.1	Bottom	3	1	20	8.1	33	7.1	8.5	15.5
TMCLKL	HY/2012/08	2019-12-06	Mid-Flood	SR4(N2)	Fine	Calm	14:14	4.1	Bottom	3	2	20	8	34	7	8	16.1
TMCLKL	HY/2012/08	2019-12-06	Mid-Flood	IS8(N)	Fine	Calm	14:06	3.6	Surface	1	1	20	8.1	32.9	7.2	5.6	10.6
TMCLKL	HY/2012/08	2019-12-06	Mid-Flood	IS8(N)	Fine	Calm	14:06	3.6	Surface	1	2	20	8	33.9	7.2	5.1	10.8
TMCLKL	HY/2012/08	2019-12-06	Mid-Flood	IS8(N)	Fine	Calm	14:06	3.6	Middle	2	1						
TMCLKL	HY/2012/08	2019-12-06	Mid-Flood	IS8(N)	Fine	Calm	14:06	3.6	Middle	2	2						
TMCLKL	HY/2012/08	2019-12-06	Mid-Flood	IS8(N)	Fine			3.6	Bottom	3	1	20	8.1	33	7.2	6.7	12
TMCLKL	HY/2012/08	2019-12-06	Mid-Flood	IS8(N)	Fine		14:06	3.6	Bottom	3	2	20.1	8	34	7.2	6.4	11.4
TMCLKL	HY/2012/08	2019-12-06	Mid-Flood	IS(Mf)9				3.3	Surface	1	1	20	8.1	32.9	7.1	10	16.6
TMCLKL	HY/2012/08	2019-12-06	Mid-Flood	IS(Mf)9	Fine			3.3	Surface	1	2	20	8	33.8	7.1	9.4	16.8
TMCLKL	HY/2012/08	2019-12-06	Mid-Flood	IS(Mf)9	Fine			3.3	Middle	2	1	20	۳	00.0	17.1	JT	10.0
TMCLKL	HY/2012/08	2019-12-06	Mid-Flood	IS(Mf)9					Middle	2	2		+		+		
				- 	Fine	Calm		3.3		2	4	10.0	0.4	20.0	7.4	40.7	10.0
TMCLKL	HY/2012/08	2019-12-06	Mid-Flood	IS(Mf)9	Fine	Calm		3.3	Bottom	3	1	19.9	8.1	32.8	7.1	10.7	18.8
TMCLKL	HY/2012/08	2019-12-06	Mid-Flood	IS(Mf)9	Fine			3.3	Bottom	3	2	20	8	33.9	7.1	9.7	18.3
TMCLKL	HY/2012/08	2019-12-06	Mid-Flood	IS(Mf)11	Fine		14:51	11.1	Surface	1	1	20.7	8.1	33.3	7	7.8	17
TMCLKL	HY/2012/08	2019-12-06	Mid-Flood	IS(Mf)11	Fine		14:51	11.1	Surface	1	2	20.7	8	34.2	6.9	7.2	16.6
TMCLKL	HY/2012/08	2019-12-06	Mid-Flood	IS(Mf)11	Fine		14:51	11.1	Middle	2	1	20.7	8.1	33.3	6.9	9.4	14.2
TMCLKL	HY/2012/08	2019-12-06	Mid-Flood	IS(Mf)11	Fine			11.1	Middle	2	2	20.7	8	34.3	6.9	8.7	14.7
TMCLKL	HY/2012/08	2019-12-06	Mid-Flood	IS(Mf)11	Fine			11.1	Bottom	3	1	20.6	8.1	33.2	6.9	9.7	12.9
TMCLKL	HY/2012/08	2019-12-06	Mid-Flood	IS(Mf)11	Fine	Rough	14:51	11.1	Bottom	3	2	20.6	8	34.2	6.9	9.1	12.3
TMCLKL	HY/2012/08	2019-12-06	Mid-Flood	SR7	Fine	Rough	15:51	4.5	Surface	1	1	21.5	8.1	33.6	6.9	3.6	12.6
TMCLKL	HY/2012/08	2019-12-06	Mid-Flood	SR7	Fine		15:51	4.5	Surface	1	2	21.5	8	34.6	6.9	3.5	12.2
TMCLKL	HY/2012/08	2019-12-06	Mid-Flood	SR7	Fine			4.5	Middle	2	1		1		1		
TMCLKL	HY/2012/08	2019-12-06	Mid-Flood	SR7	Fine			4.5	Middle	2	2		1		1		1
TMCLKL	HY/2012/08	2019-12-06	Mid-Flood	SR7	Fine			4.5	Bottom	3	1	21.5	8.1	33.6	6.9	4.1	11.5
TMCLKL	HY/2012/08	2019-12-06	Mid-Flood	SR7	Fine			4.5	Bottom	3	2	21.5	18	34.6	6.9	3.8	11.1
TMCLKL	HY/2012/08	2019-12-06	Mid-Flood	IS17	Fine	Moderate	14:42	10.9	Surface	1	1	21.5	8.1	33.5	6.9	2.7	13.5
TMCLKL	HY/2012/08	2019-12-06	Mid-Flood	IS17		Moderate	14:42	10.9	Surface	1	2	21.5	Ω. 1	34.5	6.8	2.6	13.7
				IS17						2	1		0 1				
TMCLKL	HY/2012/08	2019-12-06	Mid-Flood			Moderate Moderate	14:42	10.9	Middle	2	1	21.4	8.1	33.5	6.9	3.6	12.2
TMCLKL	HY/2012/08	2019-12-06	Mid-Flood	IS17	Fine	Moderate	14:42	10.9	Middle	2	4	21.4	8	34.5	6.8	3.4	11.6
TMCLKL	HY/2012/08	2019-12-06	Mid-Flood	IS17	Fine		14:42	10.9	Bottom	3	1	21.2	8.1	33.5	6.9	5.2	13.7
TMCLKL	HY/2012/08	2019-12-06	Mid-Flood	IS17		Moderate	14:42	10.9	Bottom	3	2	21.2	8	34.5	6.9	4.9	14
TMCLKL	HY/2012/08	2019-12-09	Mid-Ebb	CS(Mf)5	Sunny		09:34	12.5	Surface	1	1	20.7	8	34.6	6.6	2.8	5.9
TMCLKL	HY/2012/08	2019-12-09	Mid-Ebb	CS(Mf)5	Sunny		09:34	12.5	Surface	1	2	20.7	8.2	33.6	6.7	3	6.2
TMCLKL	HY/2012/08	2019-12-09	Mid-Ebb	CS(Mf)5	Sunny	Moderate	09:34	12.5	Middle	2	1	20.7	8	34.6	6.6	3	6.8
TMCLKL	HY/2012/08	2019-12-09	Mid-Ebb	CS(Mf)5	Sunny			12.5	Middle	2	2	20.6	8.2	33.6	6.7	3.2	6.6
TMCLKL	HY/2012/08	2019-12-09	Mid-Ebb	CS(Mf)5	_			12.5		3	1	20.7	8	34.6	6.6	2.8	6.4
	HY/2012/08		Mid-Ebb	` '			09:34		Bottom		2	20.6	8.2	33.6	6.7	3.3	7
LOLIVE	1.1.72012/00	1-010 12 00	1.1.10 = 00	100(1111)0	100		J J J J J		120110111	1~	ı-	1-0.0	10.2	100.0	10	10.0	1.

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TRICKLE, INVESTIGABLE STATE OF THE STATE OF THE STATE OF THE STATE IN THE STATE OF	roject	Contract	Date	Tide	Stat	Weather		Time	1	Level	Lev_Cod	Replicate	Temp(°C)	рН	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
FRACIAL VYSPICION 2019-1-2-01 Med-Ebb Sphingson Clouder Rough 103-4 73 Surface 1 2 19.2 8.2 8.6 7.4 7.7 1.0	MCLKI	UV/2012/09	2010 12 00	Mid Ebb	CC(Mf)2(NI)	Claudy		10.24	1	Surface	1	1	10.2	0	246	7.4	5.2	12.4
FREALE, 1700									1		1	2						
TRACKE, PY2012-208. 07912-09 Mid-Ebb CS64694N Danley Rough 1034 7.3 Middle 2 2 19.2 8.2 316 7.3 8.2 7.3 8.3 7.3 8.3 7.3 7.3 8.3 7.3 7.3 8.3 7.3 7.3 8.3 7.3 7.3 8.3 7.3 7.3 8.3 7.3 7.3 8.3 7.									1		1	4		0.2	+			11.3
MCALK 17/2012/08 2019-12-09 Mod-Ebb CSIM/Shift County Rough 10/34 7.3 Berton 3 1 19.2 8 34.6 7.3 7.7 2 1 1 1 1 1 1 1 1 1									1		2	1	+	8	+			10.3
MACKE, MYSELDE 1917-209 Mol-Ebb CSIMFSMN Courby Courb 11.15 6.4 Surface 1 1.0 8.6 8.4 7.1 6.5 1.0 1.									+		2	2		-				10.7
TRICKICA HY201209 2019 12-09 Mod-Ebb											3	1				+		9.8
TRUCKER MY2072098 2019-12-09 Mod-Ebb SSMM16 Surray Calm 11-12 0.4 Models 2 19.7 8.2 83.4 7.1 8.4 1 1 1 1 1 1 1 1 1					\				+	! 	3	2				+		10
TRCKER PY201208 20191-200 Mol-Ebb SMIP16 Summy Calm 11-12 6.4 Models 2 1			+		` ′	-			+		1	1						11.7
TRUCK, NY, 1970, 208 2014-1209 Mol-Seb S(M)ff Sunny Calm 11-12 old Models 2 2 8 9.44 72 10-6 10-6 10-7 10-7 10-					` ′				+		1	2	19.7	8.2	33.4	7.1	8.4	10.3
THICKLE, HY201208 20191-200 Mic-Ebo SMM16 Surroy Calm 11:12 6.4 Bettom 3 1 1 19.8 8 34.4 7.2 10.6 1 THICKLE, HY201208 20191-200 Mic-Ebo SK40 Surroy, Calm 11:12 6.4 Bettom 3 2 19.7 8.2 33.4 7.2 10.1 1 THICKLE, HY201208 20191-200 Mic-Ebo SK40 Surroy, Calm 11:21 4.4 Surface 1 1.2 20.1 8 2 35.5 7.1 3.3 6 THICKLE, HY201208 20191-200 Mic-Ebo SK40 Surroy, Calm 11:21 4.4 Micds 2 1 THICKLE, HY201208 20191-200 Mic-Ebo SK40 Surroy, Calm 11:21 4.4 Micds 2 1 THICKLE, HY201208 20191-200 Mic-Ebo SK40 Surroy, Calm 11:21 4.4 Micds 2 1 THICKLE, HY201208 20191-200 Mic-Ebo SK40 Surroy, Calm 11:21 4.4 Micds 2 1 THICKLE, HY201208 20191-200 Mic-Ebo SK40 Surroy, Calm 11:21 4.4 Micds 2 1 THICKLE, HY201208 20191-200 Mic-Ebo SK40 Surroy, Calm 11:21 4.4 Bettom 3 1 19.9 8 34.5 7.2 3.6 7 THICKLE, HY201208 20191-200 Mic-Ebo SK40 Surroy, Calm 11:21 4.4 Bettom 3 1 2 19.9 8 34.5 7.2 3.6 7 THICKLE, HY201208 20191-200 Mic-Ebo SK40 Surroy, Calm 11:21 4.4 Bettom 3 1 2 19.9 8 34.5 7.2 3.6 7 THICKLE, HY201208 20191-200 Mic-Ebo SK40 Surroy, Calm 11:21 3.3 Micds 2 1 THICKLE, HY201208 20191-200 Mic-Ebo SK40 Surroy, Calm 11:27 3.3 Micds 2 1 THICKLE, HY201208 20191-200 Mic-Ebo SK40 Surroy, Calm 11:27 3.3 Micds 2 1 THICKLE, HY201208 20191-200 Mic-Ebo SK40 Surroy, Calm 11:27 3.3 Micds 2 1 THICKLE, HY201208 20191-200 Mic-Ebo SK40 Surroy, Calm 11:27 3.3 Micds 2 1 THICKLE, HY201208 20191-200 Mic-Ebo SK40 Surroy, Calm 11:27 3.3 Micds 2 1 THICKLE, HY201208 20191-200 Mic-Ebo SK40 Surroy, Calm 11:27 3.3 Micds 2 1 THICKLE, HY201208 20191-200 Mic-Ebo SK40 Surroy, Calm 11:27 3.3 Micds 2 1 THICKLE, HY201208 20191-200 Mic-Ebo SK40 Surroy, Calm 11:27 3.3 Micds 2 1 THICKLE, HY201208 20191-200 Mic-Ebo SK40 Surroy, Calm 11:33 4 Micds 2 1 THICKLE, HY201208 20191-200 Mic-Ebo SK40 Surroy, Calm 11:33 4 Micds 2 1 THICKLE, HY201208 20191-200 Mic-Ebo SK40 Surroy, Calm 11:33 4 Micds 2 1 THICKLE, HY201208 20191-200 Mic-Ebo SK40 Surroy, Calm 11:33 4 Micds 2 1 THICKLE, HY201208 20191-200 Mic-Ebo SK40 Surroy, Calm 11:33 4 Micds 2 1 THICKLE, HY201208 20191-200 Mic-Ebo SK40 Surroy, Calm		HY/2012/08			_ ` ′				5.4		2	1						
TMCKIK, HY201208 2019-12-09 Mile-Ebb SR4da Surray Calm 11:12 4.4 Southeast 1 20.1 8 34.5 7.1 3.3 TMCKIK, HY201208 2019-12-09 Mile-Ebb SR4da Surray Calm 11:21 4.4 Southeast 2 20.1 8.2 33.5 7.1 3.6 7 TMCKIK, HY201208 2019-12-09 Mile-Ebb SR4da Surray Calm 11:21 4.4 Southeast 2 2 2 1 1 1 1 1 1 1	MCLKL	HY/2012/08	2019-12-09	Mid-Ebb	IS(Mf)16	Sunny	Calm	11:12	5.4	Middle	2	2						
FINCLIK, HY201208 2019-12-09 Mole-Ebb SR4da Sumpy Calm 11:21 4.4 Surface 1 20.1 8 34.5 7.1 3.3	MCLKL	HY/2012/08	2019-12-09	Mid-Ebb	IS(Mf)16	Sunny	Calm	11:12	5.4	Bottom	3	1	19.8	8	34.4	7.2	10.6	13.4
TMCKLK HY201208 2019-12-09 Mid-Ebb SR44 Surrey Calm 11:21 4.4 Middle 2 1 1 1 1 1 1 1 1 1	MCLKL	HY/2012/08	2019-12-09	Mid-Ebb	IS(Mf)16	Sunny	Calm	11:12	5.4	Bottom	3	2	19.7	8.2	33.4	7.2	10.1	11.9
TMCLK, HY201208 2019-1209 MeE-bb SR4 Sumy Calm 11:21 4.4 Meddle 2 1	MCLKL	HY/2012/08	2019-12-09	Mid-Ebb	SR4a	Sunny	Calm	11:21	4.4	Surface	1	1	20.1	8	34.5	7.1	3.3	6.3
TMCLK, HY201208 2019-1209 MeE-bb SR4 Sumy Calm 11:21 4.4 Meddle 2 1	MCLKL	HY/2012/08	2019-12-09	Mid-Ebb	SR4a	Sunny	Calm	11:21	4.4	Surface	1	2	20.1	8.2	33.5	7.1	3.6	7.3
										-	2	1						
FMCKIR, HY/2012/08 2019-12-09 Mol-Ebb SR44 Sunny Calm 11:21 4.4 Bottom 3 1 19.9 8. 34.5 7.2 3.6 7 TMCKIR, HY/2012/08 2019-12-09 Mol-Ebb SR44N2 Sunny Calm 11:27 3.3 Surface 1 1 19.6 8. 34.2 7.1 4.7 6 TMCKIR, HY/2012/08 2019-12-09 Mol-Ebb SR44N2 Sunny Calm 11:27 3.3 Surface 1 1 19.6 8. 34.2 7.1 4.7 6 TMCKIR, HY/2012/08 2019-12-09 Mol-Ebb SR44N2 Sunny Calm 11:27 3.3 Surface 1 1 19.6 8. 34.2 7.1 4.7 6 TMCKIR, HY/2012/08 2019-12-09 Mol-Ebb SR44N2 Sunny Calm 11:27 3.3 Surface 1 1 19.6 8. 34.2 7.1 4.7 4.											2	2						+
TMCKLK H7/2012/08 2019-12-09 Mid-Ebb SR44M Sunny Calm 1121 4.4 Settlem 3 2 19.9 8.2 33.4 7.2 4.7 S.									+		3	1	19.9	8	34.5	7.2	3.6	7.2
TMCKIK H7/2012/08 2019-12-09 Mid-Ebb SR4HV 2 Sunny Calm 1127 3.3 Surface 1 1 19.6 8 34.2 7.1 4.7 TMCKIK H7/2012/08 2019-12-09 Mid-Ebb SR4HV 2 Sunny Calm 1127 3.3 Surface 1 1 2 19.6 8.2 33.2 7.1 5.1 STANLOW STANLO						· · · · · · · · · · · · · · · · · · ·			+		3	2	+	_				8
TMCLICH HY201208 2019-12-09 Mid-Ebb SR4(N2) Sunny Calm 11:27 3.3 Middle 2 1									+		1	1	+	_				9.6
TMCLEL HY201208 2019-12-09 Mod-Ebb SR4(N2) Sunny Calm 11:27 3.3 Miodel 2 2 1					<u> </u>						1	2		<u> </u>	+			9.8
TMCLICA HY201208 07914209 Mid-Ebb SR4(N2) Summy Calm 11:27 3.3 Bottom 3 1 19.7 8 34.3 7.1 4 1 1 1 1 1 1 1 1										-	2	1	19.0	0.2	JJ.Z	1.1	J. I	9.3
TMCLKL HY201208 2019-12-09 Mid-Ebb SR4(N2) Summy Calm 11-27 3.3 Bottom 3 2 19.7 8 34.3 7.1 4 1 1 1 1 1 1 1 1					<u> </u>						2	1		-				+
TMCLKL HY201208 2019-12-09 Mid-Ebb S8(N) Sunny Calm 11-27 3.4 Sufface 1 19-9 8.2 33.3 7.2 4.3 1 TMCLKL HY201208 2019-12-09 Mid-Ebb S8(N) Sunny Calm 11-33 4 Sufface 1 19-9 8.3 34.5 7.1 5.1 5.6 1 TMCLKL HY201208 2019-12-09 Mid-Ebb S8(N) Sunny Calm 11-33 4 Middle 2 1 1 1 1 1 1 1 1 1											2	2	40.7		0.4.0	7.4		10.0
TMCLKL HY2012098 2019-12-09 Mid-Ebb IS8KN Sunny Calm 11-33 4 Surface 1 1 19-9 8 34.5 7.1 5.1 E TMCLKL HY2012098 2019-12-09 Mid-Ebb IS8KN Sunny Calm 11-33 4 Middle 2 1					\ /	,					3	1					4	13.3
TMCLKL HY/201208 2019-12-09 Mid-Ebb IS8(N) Sunny Calm 11:33 4 Middle 2 1 1 1 1 1 1 1 1 1					\ /				3.3		3	2	+	_				12.5
TMCLKL HY/201208 2019-12-09 Mid-Ebb SSIN) Sumy Calm 11:33 4 Middle 2 1						,			4		1	1						8.2
TMCLKL HY/201208 2019-12-09 Mid-Ebb S8(N) Sunny Calm 11:33 4 Middle 2 2 5 5 1 1 1 1 1 1 1 1						,			4		1	2	19.8	8.2	33.5	7.2	5.6	10.4
TMCLKL HY/2012/08 2019-12-09 Mid-Ebb IS8(N) Sunny Calm 11:33 4 Bottom 3 2 19.7 8.2 33.4 7.1 5.7 1 TMCLKL HY/2012/08 2019-12-09 Mid-Ebb IS(M) Sunny Calm 11:43 1.1 Surface 1 1 19.8 8 34.4 7.1 4.4 8 TMCLKL HY/2012/08 2019-12-09 Mid-Ebb IS(M) Sunny Calm 11:41 3.1 Surface 1 1 19.8 8 34.4 7.1 4.4 8 TMCLKL HY/2012/08 2019-12-09 Mid-Ebb IS(M) Sunny Calm 11:41 3.1 Surface 1 2 19.7 8.2 33.4 7.1 4.9 8 TMCLKL HY/2012/08 2019-12-09 Mid-Ebb IS(M) Sunny Calm 11:41 3.1 Middle 2 1 TMCLKL HY/2012/08 2019-12-09 Mid-Ebb IS(M) Sunny Calm 11:41 3.1 Middle 2 2 TMCLKL HY/2012/08 2019-12-09 Mid-Ebb IS(M) Sunny Calm 11:41 3.1 Bottom 3 1 19.6 8 34.4 7.2 4.5	MCLKL I	HY/2012/08	2019-12-09			Sunny	Calm	11:33	4	Middle	2	1						
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TMCLKL HY/2012/08 2019-12-09 Mid-Ebb ISIM19 Sunny Calm 11:41 3.1 Surface 1 2 19.7 8.2 33.4 7.1 4.9 ISIM19 TMCLKL HY/2012/08 2019-12-09 Mid-Ebb ISIM19 Sunny Calm 11:41 3.1 Middle 2 2	MCLKL	HY/2012/08	2019-12-09	Mid-Ebb	IS8(N)	Sunny	Calm	11:33	4	Bottom	3	2	19.7	8.2	33.4	7.2	6.4	11
TMCLKL HY/2012/08 2019-12-09 Mid-Ebb ISIM19 Sunny Calm 11:41 3.1 Surface 1 2 19.7 8.2 33.4 7.1 4.9 ISIM19 TMCLKL HY/2012/08 2019-12-09 Mid-Ebb ISIM19 Sunny Calm 11:41 3.1 Middle 2 2	MCLKL	HY/2012/08	2019-12-09	Mid-Ebb	IS(Mf)9	Sunny	Calm	11:41	3.1	Surface	1	1	19.8	8	34.4	7.1	4.4	8.4
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TMCLKL HY/2012/08 2019-12-09 Mid-Ebb IS(M)11 Cloudy Rough 10:58 11.2 Surface 1 2 20.3 8.2 34.6 7 3.2 E TMCLKL HY/2012/08 2019-12-09 Mid-Ebb IS(M)11 Cloudy Rough 10:58 11.2 Middle 2 1 20 8 34.6 7 3.2 E TMCLKL HY/2012/08 2019-12-09 Mid-Ebb IS(M)11 Cloudy Rough 10:58 11.2 Middle 2 1 20 8 34.6 7 5.5 1 TMCLKL HY/2012/08 2019-12-09 Mid-Ebb IS(M)11 Cloudy Rough 10:58 11.2 Middle 2 2 20 8.2 33.6 7 5.2 1 TMCLKL HY/2012/08 2019-12-09 Mid-Ebb IS(M)11 Cloudy Rough 10:58 11.2 Middle 2 2 20 8.2 33.6 7 5.2 1 TMCLKL HY/2012/08 2019-12-09 Mid-Ebb IS(M)11 Cloudy Rough 10:58 11.2 Bottom 3 1 19.9 8 34.6 7 5.9 1 TMCLKL HY/2012/08 2019-12-09 Mid-Ebb IS(M)11 Cloudy Rough 10:58 11.2 Bottom 3 2 19.8 8.2 33.5 7 6.8 11 TMCLKL HY/2012/08 2019-12-09 Mid-Ebb SR7 Cloudy Rough 10:01 4.5 Surface 1 20.1 8 34.5 6.9 4.4 15 TMCLKL HY/2012/08 2019-12-09 Mid-Ebb SR7 Cloudy Rough 10:01 4.5 Middle 2 2 20.1 8.2 33.5 6.9 4.4 E TMCLKL HY/2012/08 2019-12-09 Mid-Ebb SR7 Cloudy Rough 10:01 4.5 Middle 2 2 20.1 8.2 33.5 6.9 4.4 E TMCLKL HY/2012/08 2019-12-09 Mid-Ebb SR7 Cloudy Rough 10:01 4.5 Middle 2 2 2 2 2 2 2 2 2						_			+		3	2		8 2				3.9
TMCLKL HY/2012/08 2019-12-09 Mid-Ebb ISIMI)11 Cloudy Rough 10:58 11.2 Middle 2 1 20 8 33.6 7 3.2 E TMCLKL HY/2012/08 2019-12-09 Mid-Ebb ISIMI)11 Cloudy Rough 10:58 11.2 Middle 2 2 20 8.2 33.6 7 5.2 1 TMCLKL HY/2012/08 2019-12-09 Mid-Ebb ISIMI)11 Cloudy Rough 10:58 11.2 Middle 2 2 20 8.2 33.6 7 5.2 1 TMCLKL HY/2012/08 2019-12-09 Mid-Ebb ISIMI)11 Cloudy Rough 10:58 11.2 Bottom 3 1 19.9 8 34.6 7 5.9 1 TMCLKL HY/2012/08 2019-12-09 Mid-Ebb SR7 Cloudy Rough 10:58 11.2 Bottom 3 2 19.8 8.2 33.5 7 5.9 1 TMCLKL HY/2012/08 2019-12-09 Mid-Ebb SR7 Cloudy Rough 10:01 4.5 Surface 1 20.1 8 34.5 6.9 4.1 EB TMCLKL HY/2012/08 2019-12-09 Mid-Ebb SR7 Cloudy Rough 10:01 4.5 Surface 1 2 2 20.1 8.2 33.5 6.9 4.4 STMCLKL HY/2012/08 2019-12-09 Mid-Ebb SR7 Cloudy Rough 10:01 4.5 Middle 2 1 EB TMCLKL HY/2012/08 2019-12-09 Mid-Ebb SR7 Cloudy Rough 10:01 4.5 Middle 2 1 EB TMCLKL HY/2012/08 2019-12-09 Mid-Ebb SR7 Cloudy Rough 10:01 4.5 Middle 2 1 EB TMCLKL HY/2012/08 2019-12-09 Mid-Ebb SR7 Cloudy Rough 10:01 4.5 Middle 2 2 EB TMCLKL HY/2012/08 2019-12-09 Mid-Ebb SR7 Cloudy Rough 10:01 4.5 Bottom 3 2 20.1 8.2 33.5 6.9 4.4 5 EB TMCLKL HY/2012/08 2019-12-09 Mid-Ebb SR7 Cloudy Rough 10:01 4.5 Bottom 3 2 20.1 8.2 33.5 6.9 4.8 EB TMCLKL HY/2012/08 2019-12-09 Mid-Ebb SR7 Cloudy Rough 10:01 4.5 Bottom 3 2 20.1 8.2 33.5 6.9 4.8 EB TMCLKL HY/2012/08 2019-12-09 Mid-Ebb SR7 Cloudy Rough 10:01 4.5 Bottom 3 2 20.1 8.2 33.5 6.9 4.8 EB TMCLKL HY/2012/08 2019-12-09 Mid-Ebb SR7 Cloudy Rough 10:01 4.5 Bottom 3 2 20.1 8.2 33.5 6.9 4.8 E											1	1				7.3		6.3
TMCLKL HY/2012/08 2019-12-09 Mid-Ebb IS(Mf)11 Cloudy Rough 10:58 11.2 Middle 2 1 20 8 34.6 7 5.2 1 TMCLKL HY/2012/08 2019-12-09 Mid-Ebb IS(Mf)11 Cloudy Rough 10:58 11.2 Middle 2 2 20 8.2 33.6 7 5.2 1 TMCLKL HY/2012/08 2019-12-09 Mid-Ebb IS(Mf)11 Cloudy Rough 10:58 11.2 Bottom 3 1 19.9 8 34.6 7 5.9 1 TMCLKL HY/2012/08 2019-12-09 Mid-Ebb IS(Mf)11 Cloudy Rough 10:58 11.2 Bottom 3 2 19.8 8.2 33.5 7 6.8 1 1 1 1 1 1 1 1 1											1	2		_		7		_
TMCLKL HY/2012/08 2019-12-09 Mid-Ebb IS(Mf)11 Cloudy Rough 10:58 11.2 Middle 2 2 20 8.2 33.6 7 5.2 1 TMCLKL HY/2012/08 2019-12-09 Mid-Ebb IS(Mf)11 Cloudy Rough 10:58 11.2 Bottom 3 2 19.8 8.2 33.5 7 6.8 1 TMCLKL HY/2012/08 2019-12-09 Mid-Ebb SR7 Cloudy Rough 10:58 11.2 Bottom 3 2 19.8 8.2 33.5 7 6.8 1 TMCLKL HY/2012/08 2019-12-09 Mid-Ebb SR7 Cloudy Rough 10:01 4.5 Surface 1 1 20.1 8 34.5 6.9 4.1 EMPTON SURFACE TMCLKL HY/2012/08 2019-12-09 Mid-Ebb SR7 Cloudy Rough 10:01 4.5 Surface 1 2 2 2 2 2 2 2 2 2											1	2		+	_	7		6.4
TMCLKL HY/2012/08 2019-12-09 Mid-Ebb IS(Mf)11 Cloudy Rough 10:58 11.2 Bottom 3 2 19.8 8.3 34.6 7 5.9 1					· '				+		2	1		-	_	/ -		10.4
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TMCLKL HY/2012/08 2019-12-09 Mid-Ebb SR7 Cloudy Rough 10:01 4.5 Surface 1 1 20.1 8 34.5 6.9 4.1 STMCLK HY/2012/08 2019-12-09 Mid-Ebb SR7 Cloudy Rough 10:01 4.5 Surface 1 2 2 20.1 8.2 33.5 6.9 4.4 STMCLK HY/2012/08 2019-12-09 Mid-Ebb SR7 Cloudy Rough 10:01 4.5 Middle 2 1 TMCLK HY/2012/08 2019-12-09 Mid-Ebb SR7 Cloudy Rough 10:01 4.5 Middle 2 2 TMCLK HY/2012/08 2019-12-09 Mid-Ebb SR7 Cloudy Rough 10:01 4.5 Middle 2 2 TMCLK HY/2012/08 2019-12-09 Mid-Ebb SR7 Cloudy Rough 10:01 4.5 Bottom 3 1 20.1 8 34.6 6.9 4.4 STMCLK HY/2012/08 2019-12-09 Mid-Ebb SR7 Cloudy Rough 10:01 4.5 Bottom 3 1 20.1 8 34.6 6.9 4.8 4.											3	1				<u> 7</u>		10.1
TMCLKL HY/2012/08 2019-12-09 Mid-Ebb SR7 Cloudy Rough 10:01 4.5 Surface 1 2 20.1 8.2 33.5 6.9 4.4 Starting SR7 Sunny Sunny Sunny Moderate 11:05 10.1 Surface 1 2 20.1 8.2 33.5 6.9 4.4 Starting SR7 Sunny Sunny Moderate 11:05 10.1 Middle 2 2 Sunface 1 2 20.1 8.2 33.5 6.9 4.4 Starting SR7 Sunny Sunn											3	2		8.2		7		11
TMCLKL HY/2012/08 2019-12-09 Mid-Ebb SR7 Cloudy Rough 10:01 4.5 Middle 2 1						_					1	1		8				8.4
TMCLKL HY/2012/08 2019-12-09 Mid-Ebb SR7 Cloudy Rough 10:01 4.5 Middle 2 2 TMCLKL HY/2012/08 2019-12-09 Mid-Ebb SR7 Cloudy Rough 10:01 4.5 Bottom 3 1 2.0.1 8 34.6 6.9 4.4 5 TMCLKL HY/2012/08 2019-12-09 Mid-Ebb SR7 Cloudy Rough 10:01 4.5 Bottom 3 1 2.0.1 8.2 33.5 6.9 4.4 5 TMCLKL HY/2012/08 2019-12-09 Mid-Ebb IS17 Sunny Moderate 11:05 10.1 Surface 1 2 2.0.1 8.2 33.5 7 4.1 5 TMCLKL HY/2012/08 2019-12-09 Mid-Ebb IS17 Sunny Moderate 11:05 10.1 Surface 1 2 2.0.1 8.2 33.5 7.1 4.8 6 TMCLKL						,					1	2	20.1	8.2	33.5	6.9	4.4	9.4
TMCLKL HY/2012/08 2019-12-09 Mid-Ebb SR7 Cloudy Rough 10:01 4.5 Bottom 3 1 20.1 8 34.6 6.9 4.4 5 TMCLKL HY/2012/08 2019-12-09 Mid-Ebb SR7 Cloudy Rough 10:01 4.5 Bottom 3 2 20.1 8.2 33.5 6.9 4.8 TMCLKL HY/2012/08 2019-12-09 Mid-Ebb IS17 Sunny Moderate 11:05 10.1 Surface 1 2 20.1 8.2 33.5 7.1 4.8 6.9 TMCLKL HY/2012/08 2019-12-09 Mid-Ebb IS17 Sunny Moderate 11:05 10.1 Midele 2 20.1 8.2 33.5 7.1 4.8 6 TMCLKL HY/2012/08 2019-12-09 Mid-Ebb IS17 Sunny Moderate 11:05 10.1 Midele 2 1 19.8 8.2 33.5 7.1						,					2	1						
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TMCLKL HY/2012/08 2019-12-09 Mid-Ebb IS17 Sunny Moderate 11:05 10.1 Surface 1 1 20.2 8 34.5 7 4.1 5 TMCLKL HY/2012/08 2019-12-09 Mid-Ebb IS17 Sunny Moderate 11:05 10.1 Surface 1 2 20.1 8.2 33.5 7.1 4.8 6 TMCLKL HY/2012/08 2019-12-09 Mid-Ebb IS17 Sunny Moderate 11:05 10.1 Middle 2 1 19.8 8 34.5 7 5.9 5 9 TMCLKL HY/2012/08 2019-12-09 Mid-Ebb IS17 Sunny Moderate 11:05 10.1 Middle 2 2 19.8 8.2 33.5 7.1 6.7 6.7 TMCLKL HY/2012/08 2019-12-09 Mid-Ebb IS17 Sunny Moderate 11:05 10.1 Bottom 3 1 19.8	MCLKL	HY/2012/08	2019-12-09	Mid-Ebb	SR7	Cloudy	Rough	10:01	4.5	Bottom	3	2	20.1	8.2	33.5	6.9	4.8	4.4
TMCLKL HY/2012/08 2019-12-09 Mid-Ebb IS17 Sunny Moderate 11:05 10.1 Surface 1 2 20.1 8.2 33.5 7.1 4.8 6 TMCLKL HY/2012/08 2019-12-09 Mid-Ebb IS17 Sunny Moderate 11:05 10.1 Middle 2 1 19.8 8 34.5 7 5.9 9 TMCLKL HY/2012/08 2019-12-09 Mid-Ebb IS17 Sunny Moderate 11:05 10.1 Middle 2 1 19.8 8 34.5 7 5.9 9 TMCLKL HY/2012/08 2019-12-09 Mid-Ebb IS17 Sunny Moderate 11:05 10.1 Bottom 3 1 19.8 8 34.5 7 7.6 8 TMCLKL HY/2012/08 2019-12-09 Mid-Ebb IS17 Sunny Moderate 11:05 10.1 Bottom 3 2 19.7 8.2											1	1		8		7		5.4
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TMCLKL HY/2012/08 2019-12-09 Mid-Flood CS(Mf)5 Fine Moderate 17:09 12.5 Surface 1 2 20.8 8 34.5 6.7 5.3 1 TMCLKL HY/2012/08 2019-12-09 Mid-Flood CS(Mf)5 Fine Moderate 17:09 12.5 Middle 2 1 20.7 8.2 33.6 6.7 6 1 TMCLKL HY/2012/08 2019-12-09 Mid-Flood CS(Mf)5 Fine Moderate 17:09 12.5 Bottom 3 1 20.7 8 34.6 6.6 5.2 1 TMCLKL HY/2012/08 2019-12-09 Mid-Flood CS(Mf)5 Fine Moderate 17:09 12.5 Bottom 3 1 20.7 8 34.6 6.7 6.9 1 TMCLKL HY/2012/08 2019-12-09 Mid-Flood CS(Mf)5 Fine Moderate 17:09 12.5 Bottom 3 2 20.7						-			+		1	1			+			12.3
TMCLKL HY/2012/08 2019-12-09 Mid-Flood CS(Mf)5 Fine Moderate 17:09 12.5 Middle 2 1 20.7 8.2 33.6 6.7 6 1 TMCLKL HY/2012/08 2019-12-09 Mid-Flood CS(Mf)5 Fine Moderate 17:09 12.5 Middle 2 2 20.7 8 34.6 6.6 5.2 1 TMCLKL HY/2012/08 2019-12-09 Mid-Flood CS(Mf)5 Fine Moderate 17:09 12.5 Bottom 3 1 20.7 8 34.6 6.7 6.9 1 TMCLKL HY/2012/08 2019-12-09 Mid-Flood CS(Mf)5 Fine Moderate 17:09 12.5 Bottom 3 2 20.7 8 34.6 6.7 6.1 TMCLKL HY/2012/08 2019-12-09 Mid-Flood CS(Mf)5 Fine Moderate 17:09 12.5 Bottom 3 2 20.7 8					· · · ·				+		1	2		+		<u> </u>		
TMCLKL HY/2012/08 2019-12-09 Mid-Flood CS(Mf)5 Fine Moderate 17:09 12.5 Middle 2 2 20.7 8 34.6 6.6 5.2 1 TMCLKL HY/2012/08 2019-12-09 Mid-Flood CS(Mf)5 Fine Moderate 17:09 12.5 Bottom 3 1 20.7 8 34.6 6.7 6.9 1 TMCLKL HY/2012/08 2019-12-09 Mid-Flood CS(Mf)5 Fine Moderate 17:09 12.5 Bottom 3 2 20.7 8 34.6 6.7 6.1 1					` '				+	 	1		+		+	+		12.5
TMCLKL HY/2012/08 2019-12-09 Mid-Flood CS(Mf)5 Fine Moderate 17:09 12.5 Bottom 3 1 20.7 8.2 33.6 6.7 6.9 1 TMCLKL HY/2012/08 2019-12-09 Mid-Flood CS(Mf)5 Fine Moderate 17:09 12.5 Bottom 3 2 20.7 8 34.6 6.7 6.1 1									+		2	1	+	8.2	+			10.1
TMCLKL HY/2012/08 2019-12-09 Mid-Flood CS(Mf)5 Fine Moderate 17:09 12.5 Bottom 3 2 20.7 8 34.6 6.7 6.1 1					· · · ·				+		2	2		8				10.9
											3	1		8.2		•	0.0	10.1
									12.5	Bottom	3	2		8				11
TMCLKL HY/2012/08 2019-12-09 Mid-Flood CS(Mf)3(N) Fine Moderate 16:11 7 Surface 1 1 19.6 8.2 33.5 7.6 6	MCLKL	HY/2012/08	2019-12-09	Mid-Flood	CS(Mf)3(N)	Fine	Moderate	16:11	7	Surface	1	1	19.6	8.2	33.5	7.6	6	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)
TMCLKL	HY/2012/08	2019-12-09	Mid-Flood	CS(Mf)3(N)	Fine	Moderate	16:11	7	Surface	1	2	19.7	8	34.5	7.6	5.2	12.3
TMCLKL	HY/2012/08	2019-12-09	Mid-Flood	CS(Mf)3(N)	Fine	Moderate	16:11	7	Middle	2	1	19.6	8.2	33.5	7.6	6	10.8
TMCLKL	HY/2012/08	2019-12-09	Mid-Flood	CS(Mf)3(N)	Fine	Moderate	16:11	7	Middle	2	2	19.7	8	34.5	7.5	5.2	10.5
TMCLKL	HY/2012/08	2019-12-09	Mid-Flood	CS(Mf)3(N)	Fine	Moderate	16:11	7	Bottom	3	1	19.6	8.2	33.5	7.6	5.5	8.9
TMCLKL	HY/2012/08	2019-12-09	Mid-Flood	CS(Mf)3(N)	Fine	Moderate	16:11	7	Bottom	3	2	19.7	8	34.6	7.5	4.9	9.9
TMCLKL	HY/2012/08	2019-12-09	Mid-Flood	IS(Mf)16	Fine	Moderate	15:35	5.3	Surface	1	1	20.4	8.2	33.5	7	6.5	5.2
TMCLKL	HY/2012/08	2019-12-09	Mid-Flood	IS(Mf)16	Fine	Moderate	15:35	5.3	Surface	1	2	20.5	8	34.5	7	6	5.3
TMCLKL	HY/2012/08	2019-12-09	Mid-Flood	IS(Mf)16	Fine	Moderate	15:35	5.3	Middle	2	1		 				
TMCLKL	HY/2012/08	2019-12-09	Mid-Flood	IS(Mf)16	Fine	Moderate	15:35	5.3	Middle	2	2			00.5			_
TMCLKL	HY/2012/08	2019-12-09	Mid-Flood	IS(Mf)16	Fine	Moderate	15:35	5.3	Bottom	3	1	20.4	8.2	33.5	7	8.3	5
TMCLKL	HY/2012/08	2019-12-09	Mid-Flood	IS(Mf)16	Fine	Moderate	15:35	5.3	Bottom	3	2	20.4	8	34.6	7.0	7.7	6
TMCLKL	HY/2012/08	2019-12-09	Mid-Flood	SR4a	Fine	Calm	15:25	4.2	Surface	1	1	20.6	8.2	33.4	7.3	3	0.7
TMCLKL	HY/2012/08	2019-12-09	Mid-Flood	SR4a SR4a	Fine Fine	Calm Calm	15:25	4.2	Surface	2	1	20.6	8	34.4	7.2	2.9	0.1
TMCLKL TMCLKL	HY/2012/08 HY/2012/08	2019-12-09	Mid-Flood Mid-Flood	SR4a	Fine	Calm	15:25 15:25	4.2	Middle Middle	2	2		+				+
TMCLKL	HY/2012/08	2019-12-09	Mid-Flood	SR4a	Fine	Calm	15:25	4.2	Bottom	2	1	20.2	8.2	33.4	7.3	3.6	9.5
TMCLKL	HY/2012/08	2019-12-09	Mid-Flood	SR4a	Fine	Calm	15:25	4.2	Bottom	3	2	20.2	8	34.5	7.3	3.5	10.3
TMCLKL	HY/2012/08	2019-12-09	Mid-Flood	SR4(N2)	Fine	Calm	15:21	3.2	Surface	1	1	20.1	8.2	33.4	7.3	3.5	9.9
TMCLKL	HY/2012/08	2019-12-09	Mid-Flood	SR4(N2)	Fine	Calm		3.2	Surface	1	2	20.1	8	34.4	7.3	3.4	8.9
TMCLKL	HY/2012/08	2019-12-09	Mid-Flood	SR4(N2)	Fine	Calm	15:21	3.2	Middle	2	1		 	J-1T	1.5	J1	
TMCLKL	HY/2012/08	2019-12-09	Mid-Flood	SR4(N2)	Fine	Calm		3.2	Middle	2	2	1	1		1	1	+
TMCLKL	HY/2012/08	2019-12-09	Mid-Flood	SR4(N2)	Fine	Calm		3.2	Bottom	3	1	20.1	8.2	33.5	7.4	3.4	11.1
TMCLKL	HY/2012/08	2019-12-09	Mid-Flood	SR4(N2)	Fine	Calm		3.2	Bottom	3	2	20.2	8	34.5	7.4	3.3	12.7
TMCLKL	HY/2012/08	2019-12-09	Mid-Flood	IS8(N)	Fine	Calm		3.7	Surface	1	1	20.2	8.2	33.5	7	11	5.3
TMCLKL	HY/2012/08	2019-12-09	Mid-Flood	IS8(N)	Fine	Calm		3.7	Surface	1	2	20.3	8	34.5	7	10	6.2
TMCLKL	HY/2012/08	2019-12-09	Mid-Flood	IS8(N)	Fine	Calm	15:15	3.7	Middle	2	1						
TMCLKL	HY/2012/08	2019-12-09	Mid-Flood	IS8(N)	Fine	Calm	15:15	3.7	Middle	2	2						
TMCLKL	HY/2012/08	2019-12-09	Mid-Flood	IS8(N)	Fine	Calm	15:15	3.7	Bottom	3	1	20.2	8.2	33.5	7.1	10.3	8.2
TMCLKL	HY/2012/08	2019-12-09	Mid-Flood	IS8(N)	Fine	Calm	15:15	3.7	Bottom	3	2	20.3	8	34.5	7.1	9.5	8.8
TMCLKL	HY/2012/08	2019-12-09	Mid-Flood	IS(Mf)9	Fine	Calm	15:10	3	Surface	1	1	19.7	8.2	33.3	7.4	6.6	8.3
TMCLKL	HY/2012/08	2019-12-09	Mid-Flood	IS(Mf)9	Fine	Calm	15:10	3	Surface	1	2	19.8	8	34.3	7.3	6	8.3
TMCLKL	HY/2012/08	2019-12-09	Mid-Flood	IS(Mf)9	Fine	Calm	15:10	3	Middle	2	1						
TMCLKL	HY/2012/08	2019-12-09	Mid-Flood	IS(Mf)9	Fine	Calm	15:10	3	Middle	2	2						
TMCLKL	HY/2012/08	2019-12-09	Mid-Flood	IS(Mf)9	Fine	Calm	15:10	3	Bottom	3	1	19.7	8.2	33.3	7.4	7	5.4
TMCLKL	HY/2012/08	2019-12-09	Mid-Flood	IS(Mf)9	Fine	Calm	15:10	3	Bottom	3	2	19.8	8	34.3	7.3	6.2	6.4
TMCLKL	HY/2012/08	2019-12-09	Mid-Flood	IS(Mf)11	Fine	Moderate	15:48	11	Surface	1	1	20.2	8.2	33.5	7.1	9.9	9.6
TMCLKL	HY/2012/08	2019-12-09	Mid-Flood	IS(Mf)11	Fine	Moderate	15:48	11	Surface	1	2	20.2	8	34.5	7	8.6	8.7
TMCLKL	HY/2012/08	2019-12-09	Mid-Flood	IS(Mf)11	Fine	Moderate	15:48	111	Middle	2	1	20.2	8.2	33.5	7	9.9	18.4
TMCLKL	HY/2012/08	2019-12-09	Mid-Flood	IS(Mf)11	Fine	Moderate	15:48	111	Middle	2	2	20.2	8	34.5	7	9.2	17
TMCLKL	HY/2012/08	2019-12-09	Mid-Flood	IS(Mf)11	Fine	Moderate	15:48	11	Bottom	3	1	20.1	8.2	33.5	7	10	14.9
TMCLKL TMCLKL	HY/2012/08 HY/2012/08	2019-12-09 2019-12-09	Mid-Flood Mid-Flood	IS(Mf)11 SR7	Fine Fine	Moderate Moderate	15:48 16:45	4.3	Bottom Surface	3	1	20.2	8.2	34.5 33.6	7 1	6.3	14.2 11.3
TMCLKL	HY/2012/08	2019-12-09	Mid-Flood	SR7	Fine	Moderate		4.3	Surface	1	2	20.4	8	34.5	7.1	5.5	10.2
TMCLKL	HY/2012/08	2019-12-09	Mid-Flood	SR7	Fine	Moderate	16:45	4.3	Middle	2	1	20.4		J-1.J	1.2	0.0	10.2
TMCLKL	HY/2012/08	2019-12-09	Mid-Flood	SR7	Fine	Moderate	16:45	4.3	Middle	2	2	+			+	+	
TMCLKL	HY/2012/08	2019-12-09	Mid-Flood	SR7	Fine	Moderate		4.3	Bottom	3	1	20.4	8.2	33.6	7.1	6	11.5
TMCLKL	HY/2012/08	2019-12-09	Mid-Flood	SR7	Fine	Moderate		4.3	Bottom	3	2	20.4	8	34.5	7.2	5.6	12
TMCLKL	HY/2012/08	2019-12-09	Mid-Flood	IS17	Fine	Moderate		9.9	Surface	1	1	20.3	8.2	33.6	7.3	2.9	7.1
TMCLKL	HY/2012/08	2019-12-09	Mid-Flood	IS17	Fine	Moderate	15:42	9.9	Surface	1	2	20.4	8	34.6	7.2	2.8	6.5
TMCLKL	HY/2012/08	2019-12-09	Mid-Flood	IS17	Fine	Moderate	15:42	9.9	Middle	2	1	20.1	8.2	33.5	7.1	5.7	7.3
TMCLKL	HY/2012/08	2019-12-09	Mid-Flood	IS17	Fine	Moderate	15:42	9.9	Middle	2	2	20.2	8	34.5	7	5.1	7.5
TMCLKL	HY/2012/08	2019-12-09	Mid-Flood	IS17	Fine	Moderate	15:42	9.9	Bottom	3	1	20.1	8.2	33.5	7	6.2	7.4
TMCLKL	HY/2012/08	2019-12-09	Mid-Flood	IS17	Fine	Moderate	15:42	9.9	Bottom	3	2	20.2	8	34.5	7	5.9	6.6
TMCLKL	HY/2012/08	2019-12-11	Mid-Ebb	CS(Mf)5	Sunny	Calm	10:55	14.2	Surface	1	1	20.5	8.2	33.6	6.6	3.4	4
TMCLKL	HY/2012/08	2019-12-11	Mid-Ebb	CS(Mf)5	Sunny	Calm	10:55	14.2	Surface	1	2	20.5	8.1	34.6	6.6	3.4	3.8
TMCLKL	HY/2012/08	2019-12-11	Mid-Ebb	CS(Mf)5	Sunny	Calm	10:55	14.2	Middle	2	1	20.4	8.2	33.5	6.6	4.4	3.6
TMCLKL	HY/2012/08	2019-12-11	Mid-Ebb	CS(Mf)5	Sunny	Calm	10:55	14.2	Middle	2	2	20.4	8	34.6	6.6	4.3	4.5
TMCLKL	HY/2012/08	2019-12-11	Mid-Ebb	CS(Mf)5	Sunny	Calm	10:55	14.2	Bottom	3	1	20.3	8.2	33.5	6.6	4.6	4.6
	HY/2012/08	2019-12-11	Mid-Ebb	CS(Mf)5		Calm	10:55	14.2	Bottom		2	20.4		34.6	6.6	4.5	4.4
	HY/2012/08	2019-12-11	Mid-Ebb	CS(Mf)3(N)		Calm	11:51	7	Surface		1	19.7	8.2	33.1	7.4	5.9	4.9
TMCLKL	HY/2012/08	2019-12-11	Mid-Ebb	CS(Mf)3(N)	Sunny	Calm	11:51	/	Surface	[1	2	19.8	8	34.1	7.3	5.9	[5

Project Contract Date Stat Weather Condition Time Dopph Level Leve	U) SS(mg/L)
TRICKLE, HY201208 2019-12-11 Mo-Ebb CSM/19/N Sunny Calm 11-51 7 Morbin 2 2 19-8 8 44.5 7.3 9.3 TRICKLE, HY201208 2019-12-11 Mo-Ebb CSM/19/N Sunny Calm 11-51 7 Bottom 3 2 11-5 8.2 33.5 7.3 14.1 TRICKLE, HY201208 2019-12-11 Mo-Ebb CSM/19/N Sunny Calm 11-51 7 Bottom 3 2 11-5 8.2 33.5 7.3 14.1 TRICKLE, HY201208 2019-12-11 Mo-Ebb CSM/19/N Sunny Calm 11-51 7 Bottom 3 2 11-5 8.2 33.5 7.1 11.8 TRICKLE, HY201208 2019-12-11 Mo-Ebb CSM/19/N Sunny Calm 12-30 14.8 Morbin CSM/19/N Sunny	0) 33(IIIg/L)
TRUCKUR MY201208 2019-12-11 Mol-Ebb CSMM31N Sunny Calm 11-51 7 Bottom 3 1 10.5 8.2 33.5 7.3 14.1	6.4
TROLICE, PY201208 2019-1211 Mole Bub CS(MI) Sunny Calm 11-51 7 Bottom 3 2 10-5 6 34-5 7.3 14	5.8
TRICKLK H7/201208 2019-12-11 Mod-Ebb Shifffie Sumy Calm 12-30 4-6 Surface 1 20 8-2 33.5 7.1 11.8	6.5
TMCLK, HY201208	5.5
TMCLIK, HY201208	7.4
TRUCKUR H7/2012/08 2019-12-11 Mid-Ebb ISIMIPI Sumry Calm 12:30 4.6 Bottom 3 1 20 6.2 33.5 7.1 12.6	6.4
FMCKLK, HY/2012/08 2019-12-11 Mol-Ebb IS/MI)16 Surray Calm 12:30 4.6 Bottom 3 1 20 8.2 33.5 7.1 12.6	
FMCKIK, HY201208 2019-12-11 Mid-Ebb SR4M Sunny Calm 12-30 4.6 Bottom 3 2 20 8 34.5 7.1 12.6	
TMCLIK, HY201208	7.9
TMCLK HY201208	6.9
TMCLIK HY901208 2019-12-11 Mid-Ebb SR4a Sunny Calm 12-41 4.3 Middle 2 1	7.4
TMCLIK HY201208 2019-12-11 Mid-Ebb SR44 Sunny Calm 12-41 4.3 Bottom 3 1 20.5 8.2 33.5 7.3 3.5 S.	6.4
TMCLIG. HY/201208 2019-12-11 ModeBb SR44 Sunny Calm 12-41 4.3 Bottom 3 1 20.5 8.2 33.5 7.3 3.5	
TMCLKL HY/2012/08 2019+12-11 Mid-Ebb SRA(NZ) Sunny Calm 12-48 3.5 Surface 1 1 20 8.2 33.5 7.1 6.7	
TMCLKL HY/201208 2019-12-11 Mid-Ebb SR4(N2) Sunny Calm 12-48 3.5 Surface 1 1 20 8.2 33.5 7.1 6.7	6
TMCLKL HY/201208 2019-12-11 Mid-Ebb SR4(NZ) Sunny Calm 12-48 3.5 Surface 1 2 20 8 34.4 7.1 6.7	6.4
TMCLKL HY/201208 2019-12-11 Mid-Ebb SR4(NZ) Sunny Calm 12:48 3.5 Middle Z 2 2 2 3.5 7.1 7.6 TMCLKL HY/201208 2019-12-11 Mid-Ebb SR4(NZ) Sunny Calm 12:48 3.5 Middle Z 2 2 2 3.5 7.1 7.6 TMCLKL HY/201208 2019-12-11 Mid-Ebb SR4(NZ) Sunny Calm 12:48 3.5 Bottom 3 1 2.0 8.2 33.5 7.1 7.6 TMCLKL HY/201208 2019-12-11 Mid-Ebb SR4(NZ) Sunny Calm 12:48 3.5 Bottom 3 2 2.0 8 24.5 7.1 7.7 TMCLKL HY/201208 2019-12-11 Mid-Ebb SR4(NZ) Sunny Calm 12:48 3.6 Bottom 3 2 2.0 8 2.3 3.4 7.2 8.8 TMCLKL HY/201208 2019-12-11 Mid-Ebb SR4(NZ) Sunny Calm 12:54 3.6 Surface 1 1 2.0 1 8.2 33.4 7.2 8.8 TMCLKL HY/201208 2019-12-11 Mid-Ebb SR4(NZ) Sunny Calm 12:54 3.6 Surface 1 2 2.0 1 8.2 33.4 7.2 8.8 TMCLKL HY/201208 2019-12-11 Mid-Ebb SR4(NZ) Sunny Calm 12:54 3.6 Middle 2 1 TMCLKL HY/201208 2019-12-11 Mid-Ebb SR4(NZ) Sunny Calm 12:54 3.6 Middle 2 2 2	4.2
TMCLKL HY/2012/08 2019-12-11 Mid-Ebb SR4(N2) Sunny Calm 12-48 3.5 Middle 2 2	5
TMCLKL HY/2012/08 2019+12+1 Mid-Ebb SR4(N2) Sunny Calm 12-48 3.5 Bottom 3 1 20 8.2 33.5 7.1 7.6	
TMCLKL HY/2012/08 2019-12-11 Mid-Ebb SR4(N2) Sunny Calm 12-54 3.5 Bottom 3 2 20 8 34.5 7.1 7.7	
TMCLKL HY/2012/08 2019-12-11 Mid-Ebb ISR(N) Sunny Calm 12:54 3.6 Surface 1 2 2.0.1 8.1 33.4 7.2 8.8 Mid-Ebb ISR(N) Sunny Calm 12:54 3.6 Surface 1 2 2.0.1 8.1 34.4 7.2 8.1 Mid-Ebb ISR(N) Sunny Calm 12:54 3.6 Middle 2 1	4
TMCLKL HY/2012/08 2019-12-11 Mid-Ebb IS8(N) Sunny Calm 12:54 3.6 Surface 1 2 2 2.1 S.1 34.4 7.2 8 S.1 TMCLKL HY/2012/08 2019-12-11 Mid-Ebb IS8(N) Sunny Calm 12:54 3.6 Middle 2 2 S.1 S.1	4.5
TMCLKL HY/2012/08 2019-12-11 Mid-Ebb IS8(N) Sunny Calm 12:54 3.6 Middle 2 1	4.2
TMCLKL HY/2012/08 2019-12:11 Mid-Ebb IS8(N) Sunny Calm 12:54 3.6 Middle 2 2	12.4
TMCLKL HY/2012/08 2019-12-11 Mid-Ebb IS8(N) Sunny Calm 12-54 3.6 Bottom 3 1 20 8.2 33.5 7.2 8.1	
TMCLKL HY/2012/08 2019-12-11 Mid-Ebb IS(M) Sunny Calm 12-54 3.6 Bottom 3 2 20.1 8 34.4 7.2 8.1 TMCLKL HY/2012/08 2019-12-11 Mid-Ebb IS(M) Sunny Calm 13:03 3.4 Surface 1 20.1 8.2 33.5 7.4 5.6 TMCLKL HY/2012/08 2019-12-11 Mid-Ebb IS(M) Sunny Calm 13:03 3.4 Surface 1 2 20.2 8 34.4 7.3 5.5 TMCLKL HY/2012/08 2019-12-11 Mid-Ebb IS(M) Sunny Calm 13:03 3.4 Middle 2 1	
TMCLKL HY/2012/08 2019-12-11 Mid-Ebb IS(Mf) 9 Sunny Calm 13:03 3.4 Surface 1 1 20.1 8.2 33.5 7.4 5.6	6.5
TMCLKL HY/2012/08 2019-12-11 Mid-Ebb IS(Mf)9 Sunny Calm 13:03 3.4 Surface 1 2 20.2 8 34.4 7.3 5.5	6.3
TMCLKL HY/2012/08 2019-12-11 Mid-Ebb IS(Mf)9 Sunny Calm 13:03 3.4 Middle 2 1	6.3
TMCLKL HY/2012/08 2019-12-11 Mid-Ebb IS(Mf)9 Sunny Calm 13:03 3.4 Middle 2 2 2	5.7
TMCLKL HY/2012/08 2019-12-11 Mid-Ebb IS(Mf)9 Sunny Calm 13:03 3.4 Bottom 3 1 19.7 8.2 33.4 7.2 9.6	
TMCLKL HY/2012/08 2019-12-11 Mid-Ebb IS(Mf)9 Sunny Calm 13:03 3.4 Bottom 3 2 19.7 8 34.4 7.2 9.5	
TMCLKL HY/2012/08 2019-12-11 Mid-Ebb IS(Mf)11 Sunny Calm 12:15 12.3 Surface 1 1 20.1 8.2 33.6 7.3 3.7	6.9
TMCLKL HY/2012/08 2019-12-11 Mid-Ebb IS(Mf)11 Sunny Calm 12:15 12:3 Surface 1 2 20.2 8 34.6 7.2 3.8	6.9
TMCLKL HY/2012/08 2019-12-11 Mid-Ebb IS(Mf)11 Sunny Calm 12:15 12.3 Middle 2 1 19.8 8.2 33.6 7.2 4.6 TMCLKL HY/2012/08 2019-12-11 Mid-Ebb IS(Mf)11 Sunny Calm 12:15 12.3 Middle 2 2 19.9 8 34.6 7.1 4.6 TMCLKL HY/2012/08 2019-12-11 Mid-Ebb IS(Mf)11 Sunny Calm 12:15 12.3 Bottom 3 1 19.7 8.2 33.6 7.1 7.1 TMCLKL HY/2012/08 2019-12-11 Mid-Ebb IS(Mf)11 Sunny Calm 11:18 4.8 Surface 1 1 19.9 8.2 33.6 7.1 7.1 TMCLKL HY/2012/08 2019-12-11 Mid-Ebb SR7 Sunny Calm 11:18 4.8 Surface 1 1 19.9 8.2 33.6 7.1 5.5 <t< td=""><td>6</td></t<>	6
TMCLKL HY/2012/08 2019-12-11 Mid-Ebb IS(Mf)11 Sunny Calm 12:15 12.3 Middle 2 2 19.9 8 34.6 7.1 4.6 TMCLKL HY/2012/08 2019-12-11 Mid-Ebb IS(Mf)11 Sunny Calm 12:15 12.3 Bottom 3 1 19.7 8.2 33.6 7.1 7.1 TMCLKL HY/2012/08 2019-12-11 Mid-Ebb IS(Mf)11 Sunny Calm 12:15 12.3 Bottom 3 1 19.7 8.2 33.6 7.1 7.1 TMCLKL HY/2012/08 2019-12-11 Mid-Ebb SR7 Sunny Calm 11:18 4.8 Surface 1 1 19.9 8.2 33.6 7.1 5.6 TMCLKL HY/2012/08 2019-12-11 Mid-Ebb SR7 Sunny Calm 11:18 4.8 Surface 1 2 20 8 34.6 7 5.5	7
TMCLKL HY/2012/08 2019-12-11 Mid-Ebb IS(Mf)11 Sunny Calm 12:15 12.3 Bottom 3 1 19.7 8.2 33.6 7.1 7.1 TMCLKL HY/2012/08 2019-12-11 Mid-Ebb IS(Mf)11 Sunny Calm 12:15 12.3 Bottom 3 2 19.8 8 34.6 7.1 7.1 TMCLKL HY/2012/08 2019-12-11 Mid-Ebb SR7 Sunny Calm 11:18 4.8 Surface 1 1 19.9 8.2 33.6 7.1 5.6 TMCLKL HY/2012/08 2019-12-11 Mid-Ebb SR7 Sunny Calm 11:18 4.8 Surface 1 2 20 8 34.6 7 5.5 TMCLKL HY/2012/08 2019-12-11 Mid-Ebb SR7 Sunny Calm 11:18 4.8 Middle 2 2	6.2
TMCLKL HY/2012/08 2019-12-11 Mid-Ebb IS(Mf)11 Sunny Calm 12:15 12.3 Bottom 3 2 19.8 8 34.6 7.1 7.1 TMCLKL HY/2012/08 2019-12-11 Mid-Ebb SR7 Sunny Calm 11:18 4.8 Surface 1 1 19.9 8.2 33.6 7.1 5.6 TMCLKL HY/2012/08 2019-12-11 Mid-Ebb SR7 Sunny Calm 11:18 4.8 Surface 1 2 20 8 34.6 7 5.5 TMCLKL HY/2012/08 2019-12-11 Mid-Ebb SR7 Sunny Calm 11:18 4.8 Middle 2 2 0 8 34.6 7 5.5 TMCLKL HY/2012/08 2019-12-11 Mid-Ebb SR7 Sunny Calm 11:18 4.8 Bottom 3 1 19.7 8.2 33.6 7.2 6.1 TMCLKL	5.4
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TMCLKL HY/2012/08 2019-12-11 Mid-Ebb IS17 Sunny Calm 12:24 7.5 Surface 1 2 19.9 8 34.5 7.1 8.1 TMCLKL HY/2012/08 2019-12-11 Mid-Ebb IS17 Sunny Calm 12:24 7.5 Middle 2 1 19.8 8.2 33.5 7.2 8.2 TMCLKL HY/2012/08 2019-12-11 Mid-Ebb IS17 Sunny Calm 12:24 7.5 Middle 2 2 19.9 8 34.5 7.1 8.2 TMCLKL HY/2012/08 2019-12-11 Mid-Ebb IS17 Sunny Calm 12:24 7.5 Bottom 3 1 19.8 8.2 33.5 7.2 11 TMCLKL HY/2012/08 2019-12-11 Mid-Ebb IS17 Sunny Calm 12:24 7.5 Bottom 3 1 19.8 8.2 33.5 7.2 11	6.3
TMCLKL HY/2012/08 2019-12-11 Mid-Ebb IS17 Sunny Calm 12:24 7.5 Middle 2 1 19.8 8.2 33.5 7.2 8.2 TMCLKL HY/2012/08 2019-12-11 Mid-Ebb IS17 Sunny Calm 12:24 7.5 Middle 2 2 19.9 8 34.5 7.1 8.2 TMCLKL HY/2012/08 2019-12-11 Mid-Ebb IS17 Sunny Calm 12:24 7.5 Bottom 3 1 19.8 8.2 33.5 7.2 11	8.5
TMCLKL HY/2012/08 2019-12-11 Mid-Ebb IS17 Sunny Calm 12:24 7.5 Middle 2 2 19.9 8 34.5 7.1 8.2 TMCLKL HY/2012/08 2019-12-11 Mid-Ebb IS17 Sunny Calm 12:24 7.5 Bottom 3 1 19.8 8.2 33.5 7.2 11	7.6
TMCLKL HY/2012/08 2019-12-11 Mid-Ebb IS17 Sunny Calm 12:24 7.5 Bottom 3 1 19.8 8.2 33.5 7.2 11	6
	6.7
TMCLKL HY/2012/08 2019-12-11 Mid-Ebb IS17 Sunny Calm 12:24 7.5 Bottom 3 2 19.9 8 34.6 7.2 11	5.5
	6.5
TMCLKL HY/2012/08 2019-12-11 Mid-Flood CS(Mf)5 Sunny Calm 18:14 14.2 Surface 1 1 20.7 8.2 33.5 6.8 2.1	5.6
TMCLKL HY/2012/08 2019-12-11 Mid-Flood CS(Mf)5 Sunny Calm 18:14 14.2 Surface 1 2 20.7 8.2 34.5 6.7 2.2	4.8
TMCLKL HY/2012/08 2019-12-11 Mid-Flood CS(Mf)5 Sunny Calm 18:14 14.2 Middle 2 1 20.5 8.2 33.5 6.7 4	5.3
TMCLKL HY/2012/08 2019-12-11 Mid-Flood CS(Mf)5 Sunny Calm 18:14 14.2 Middle 2 2 20.5 8.1 34.5 6.6 3.9	5.7
TMCLKL HY/2012/08 2019-12-11 Mid-Flood CS(Mf)5 Sunny Calm 18:14 14.2 Bottom 3 1 20.4 8.2 33.5 6.7 9.6	6.7
TMCLKL HY/2012/08 2019-12-11 Mid-Flood CS(Mf)5 Sunny Calm 18:14 14.2 Bottom 3 2 20.4 8.1 34.5 6.6 9	5.8
TMCLKL HY/2012/08 2019-12-11 Mid-Flood CS(Mf)3(N) Sunny Calm 17:15 7.1 Surface 1 1 19.8 8.2 33.1 7.6 4.6	11.1
TMCLKL HY/2012/08 2019-12-11 Mid-Flood CS(Mf)3(N) Sunny Calm 17:15 7.1 Surface 1 2 19.9 8 34.1 7.6 4.6	11.5
TMCLKL HY/2012/08 2019-12-11 Mid-Flood CS(Mf)3(N) Sunny Calm 17:15 7.1 Middle 2 1 1 19.8 8.2 33.1 7.6 4.6	7.1

	1_					Sea		Water	<u> </u>	<u> </u>	Ī		Τ	<u>.</u>	<u></u>		T
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	2019-12-11	Mid-Flood	CS(Mf)3(N)	Sunny	Calm	17:15	7.1	Middle	2	2	19.9	8	34.1	7.5	4.5	8.1
TMCLKL	HY/2012/08	2019-12-11		CS(Mf)3(N)	Sunny	Calm		7.1	Bottom	3	1	19.8	8.2	33.2	7.5	5	7
TMCLKL	HY/2012/08			CS(Mf)3(N)	Sunny	Calm		7.1	Bottom	3	2	19.9	8	34.1	7.5	4.6	6.6
TMCLKL	HY/2012/08	2019-12-11		IS(Mf)16	Sunny	Calm		5.5	Surface	1	1	20.1	8.2	33.5	7.2	6.1	11.5
TMCLKL	HY/2012/08	2019-12-11		IS(Mf)16	Sunny	Calm			Surface	1	2	20.2	8	34.5	7.2	6.2	10.1
TMCLKL	HY/2012/08	2019-12-11	Mid-Flood	IS(Mf)16	Sunny	Calm	16:36	5.5	Middle	2	1						
TMCLKL	HY/2012/08	2019-12-11	Mid-Flood	IS(Mf)16	Sunny	Calm	16:36	5.5	Middle	2	2						
TMCLKL	HY/2012/08	2019-12-11	Mid-Flood	IS(Mf)16	Sunny	Calm	16:36	5.5	Bottom	3	1	20.1	8.2	33.5	7.2	13.4	11.2
TMCLKL	HY/2012/08	2019-12-11	Mid-Flood	IS(Mf)16	Sunny	Calm	16:36	5.5	Bottom	3	2	20.2	8	34.5	7.2	13.4	10
TMCLKL	HY/2012/08	2019-12-11		SR4a	Sunny	Calm	16:26	3.5	Surface	1	1	20.7	8.2	33.5	7.6	3.3	10.9
TMCLKL	HY/2012/08	2019-12-11		SR4a	Sunny	Calm		3.5	Surface	1	2	20.7	8	34.5	7.6	3.3	11.2
TMCLKL	HY/2012/08	2019-12-11		SR4a	Sunny	Calm		3.5	Middle	2	1						
TMCLKL	HY/2012/08	2019-12-11		SR4a	Sunny	Calm		3.5	Middle	2	2						
TMCLKL	HY/2012/08	2019-12-11		SR4a	Sunny	Calm		3.5	Bottom	3	1	20.2	8.2	33.5	7.3	4.2	11.8
TMCLKL	HY/2012/08			SR4a	Sunny	Calm		3.5	Bottom	3	2	20.3	8	34.5	7.2	4.2	10.2
TMCLKL	HY/2012/08	2019-12-11		SR4(N2)	Sunny	Calm	16:21	4	Surface	1	1	20.3	8.2	33.4	7.3	4.4	8
TMCLKL	HY/2012/08			SR4(N2)	Sunny	Calm	16:21	4	Surface	1	2	20.4	8	34.4	7.3	4.4	9
TMCLKL	HY/2012/08	2019-12-11		SR4(N2)	Sunny	Calm	16:21	4	Middle	2	1				1		
TMCLKL	HY/2012/08	2019-12-11		SR4(N2)	Sunny	Calm	16:21	4	Middle	2	2	00.0		00.5	17.0	 	14.0
TMCLKL	HY/2012/08	2019-12-11		SR4(N2)	Sunny	Calm	16:21	4	Bottom	3	1	20.2	8.2	33.5	7.3	5.5	11.2
TMCLKL	HY/2012/08	2019-12-11			Sunny	Calm	16:21	4	Bottom	3	2	20.2	8	34.5	7.2	5.4	12.9
TMCLKL	HY/2012/08	2019-12-11		IS8(N)	Sunny	Calm	16:13		Surface	1	1	20.3	8.1	33.5	7.4	6.7	4.3
TMCLKL	HY/2012/08	2019-12-11		IS8(N)	Sunny	Calm		4.4	Surface	1	2	20.4	8	34.5	7.4	6.7	5.3
TMCLKL	HY/2012/08			IS8(N)	Sunny	Calm			Middle	2	1		+				
TMCLKL	HY/2012/08	2019-12-11		IS8(N)	Sunny	Calm		4.4	Middle	2	2	20.2	0.4	22.5	7.0	7.0	7.4
TMCLKL	HY/2012/08			IS8(N)	Sunny	Calm		4.4	Bottom	3	1	20.2	8.1	33.5	7.3	7.6	7.4
TMCLKL TMCLKL	HY/2012/08 HY/2012/08	2019-12-11	Mid-Flood	IS8(N) IS(Mf)9	Sunny	Calm Calm		4.4 3.9	Bottom Surface	3	1	20.2	8.1 8.2	34.5 33.4	7.3 7.5	7.6 6.6	6.5 6.1
	HY/2012/08			IS(Mf)9	Sunny Sunny	Calm		3.9	Surface	1	1	20.3	0.2	34.4	7.5	6.5	6.4
	HY/2012/08			IS(Mf)9	Sunny	Calm		3.9	Middle	2	1	20.3	0	34.4	7.5	0.5	0.4
	HY/2012/08			IS(Mf)9	Sunny	Calm			Middle	2	2		+				+
	HY/2012/08			IS(Mf)9	Sunny	Calm		3.9	Bottom	3	1	19.8	8.2	33.4	7.3	13	5.2
	HY/2012/08			IS(Mf)9	Sunny	Calm		3.9	Bottom	3	2	19.8	8	34.4	7.2	12.9	5.9
	HY/2012/08	2019-12-11		IS(Mf)11	Sunny	Calm		11.3	Surface	1	1	20	8.2	33.5	7.3	7.1	7.2
	HY/2012/08			IS(Mf)11	Sunny	Calm		11.3	Surface	1	2	20.1	8	34.5	7.2	7.1	7.2
	HY/2012/08	2019-12-11		IS(Mf)11	Sunny	Calm		11.3	Middle	2	1	20	8.2	33.5	7.1	10.6	7
	HY/2012/08	2019-12-11		IS(Mf)11	Sunny	Calm		11.3	Middle	2	2	20	8	34.5	7.1	10.6	6.8
TMCLKL	HY/2012/08			IS(Mf)11	Sunny	Calm		11.3	Bottom	3	1	20	8.2	33.5	7.1	13.6	7.1
	HY/2012/08			IS(Mf)11	Sunny	Calm		11.3	Bottom	3	2	20	8	34.5	7.1	12.5	6.6
TMCLKL	HY/2012/08	2019-12-11	Mid-Flood	SR7	Sunny	Calm	17:50	4.3	Surface	1	1	19.9	8.2	33.5	7.3	5.8	5.6
TMCLKL	HY/2012/08	2019-12-11	Mid-Flood	SR7	Sunny	Calm	17:50	4.3	Surface	1	2	20	8	34.5	7.3	5.8	6.5
TMCLKL	HY/2012/08	2019-12-11	Mid-Flood	SR7	Sunny	Calm	17:50	4.3	Middle	2	1						
TMCLKL	HY/2012/08	2019-12-11		SR7	Sunny	Calm		4.3	Middle	2	2						
	HY/2012/08			SR7	Sunny	Calm		4.3	Bottom	3	1	19.9	8.2	33.5	7.3	6.7	6.6
	HY/2012/08			SR7	Sunny	Calm		4.3	Bottom	3	2	20	8	34.5	7.2	6.6	6.1
	HY/2012/08	_		IS17	Sunny	Calm		11.9	Surface	1	1	20.1	8.2	33.5	7.3	8.1	11.9
	HY/2012/08			IS17	Sunny	Calm		11.9	Surface	1	2	20.2	8	34.5	7.2	8.2	12.6
	HY/2012/08			IS17	Sunny	Calm		11.9	Middle	2	1	19.9	8.2	33.6	7.2	6.7	9.5
	HY/2012/08	_		IS17	Sunny	Calm			Middle	2	2	20	8	34.6	7.1	6.7	9.6
	HY/2012/08	_		IS17	Sunny	Calm		11.9	Bottom	3	1	19.9	8.2	33.6	7.1	6.7	9
	HY/2012/08			IS17	Sunny	Calm		11.9	Bottom	3	2	19.9	8	34.6	7.1	6.5	9.8
	HY/2012/08	2019-12-13		CS(Mf)5	Sunny	Calm		14.2	Surface	11	1	20.3	8	34.3	6.9	4.2	5.5
	HY/2012/08	2019-12-13		CS(Mf)5	Sunny	Calm		14.2	Surface	1	2	20.2	8.2	33.3	/	4.6	5.9
	HY/2012/08	2019-12-13		CS(Mf)5	Sunny	Calm		14.2	Middle	2	1	20.2	8	34.3	6.8	4.7	5
	HY/2012/08			CS(Mf)5	Sunny	Calm		14.2	Middle	2	4	20.2	8.2	33.4	6.8	4.8	5.9
-	HY/2012/08			CS(Mf)5	Sunny	Calm		14.2	Bottom	3	1	20.2	8	34.4	6.9	5.8	5.8
	HY/2012/08	2019-12-13		CS(Mf)5	Sunny	Calm		14.2	Bottom	1	1	20.2	8.2	33.4	7.2	0 2	6.8
	HY/2012/08	2019-12-13		CS(Mf)3(N)	Sunny	Calm Calm	13:08	7.2	Surface	1	2	19.8 19.8	8.2	33.8 32.9	7.3 7.3	9.3 10.1	10.3
	HY/2012/08		Mid Ehh		Sunny		. 0.00	<u> </u>	Surface	2	1		8.2				
	HY/2012/08			CS(Mf)3(N)		Calm		7.2	Middle	2	2	19.6		33.9	7.3 7.3	14	11.5
LIVICLKL	HY/2012/08	2019-12-13	Mid-Ebb	CS(Mf)3(N)	Journal	Calm	13:08	7.2	Middle		2	19.6	8.2	32.9	1.3	13.9	13.2

Project	Contract	Data	Tide	Stat	Weather	Sea	Time	Water	Lovel	Lay Cad	Poplicate	Tomp(°C)	nu	Solinity/nnt)	DO(mg/L)	Turbidity/NTU)	SS(mg/L)
Project	Contract	Date	lide	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	2019-12-13	Mid-Ebb	CS(Mf)3(N)	Sunny	Calm	13:08	7.2	Bottom	3	1	19.6	8	33.9	7.3	13.7	13.5
TMCLKL	HY/2012/08	2019-12-13	Mid-Ebb	CS(Mf)3(N)	Sunny	Calm	13:08	7.2	Bottom	3	2	19.6	8.2	32.9	7.3	13.8	11.4
TMCLKL	HY/2012/08	2019-12-13	Mid-Ebb	IS(Mf)16	Sunny	Calm	12:28	5.5	Surface	1	1	19.8	8	34.1	7.1	8.3	7
TMCLKL	HY/2012/08	2019-12-13	Mid-Ebb	IS(Mf)16	Sunny	Calm	12:28	5.5	Surface	1	2	19.7	8.2	33.2	7.2	9.1	8
TMCLKL	HY/2012/08	2019-12-13	Mid-Ebb	IS(Mf)16	Sunny	Calm		5.5	Middle	2	1						
TMCLKL	HY/2012/08	2019-12-13	Mid-Ebb	IS(Mf)16	Sunny	Calm		5.5	Middle	2	2						
TMCLKL	HY/2012/08	2019-12-13	Mid-Ebb	IS(Mf)16	Sunny	Calm		5.5	Bottom	3	1	19.7	8	34.1	7.1	10.3	6.7
TMCLKL	HY/2012/08	2019-12-13	Mid-Ebb	IS(Mf)16	Sunny	Calm	12:28	5.5	Bottom	3	2	19.6	8.2	33.2	7.1	11.3	7.2
TMCLKL	HY/2012/08	2019-12-13	Mid-Ebb	SR4a	Sunny	Calm	12:19	4.4	Surface	1	1	19.9	8	34.3	7	5.6	7.4
TMCLKL	HY/2012/08	2019-12-13	Mid-Ebb	SR4a	Sunny	Calm	12:19	4.4	Surface	1	2	19.8	8.2	33.4	7	5.9	6.9
TMCLKL	HY/2012/08	2019-12-13	Mid-Ebb	SR4a	Sunny	Calm		4.4	Middle	2	1		1				
TMCLKL	HY/2012/08	2019-12-13	Mid-Ebb	SR4a	Sunny	Calm		4.4	Middle	2	2	110.0	<u> </u>	0.1.0			
TMCLKL	HY/2012/08	2019-12-13	Mid-Ebb	SR4a	Sunny	Calm	12:19	4.4	Bottom	3	1	19.8	8	34.3	6.9	6.1	6.6
TMCLKL	HY/2012/08	2019-12-13	Mid-Ebb	SR4a	Sunny	Calm	12:19	4.4	Bottom	3	2	19.8	8.2	33.4	7	6.8	7.6
TMCLKL	HY/2012/08	2019-12-13	Mid-Ebb	SR4(N2)	Sunny	Calm	12:15	3.3	Surface	1	1	19.9	8	34.3	7	5.7	16.1
TMCLKL	HY/2012/08	2019-12-13	Mid-Ebb	SR4(N2)	Sunny	Calm		3.3	Surface	1	2	19.8	8.2	33.3	7.1	6.1	17.5
TMCLKL	HY/2012/08	2019-12-13	Mid-Ebb	SR4(N2)	Sunny	Calm		3.3	Middle	2	11		1				
TMCLKL	HY/2012/08	2019-12-13	Mid-Ebb	SR4(N2)	Sunny	Calm		3.3	Middle	2	2	10.0		04.0		0.4	40.0
TMCLKL	HY/2012/08	2019-12-13	Mid-Ebb	SR4(N2)	Sunny	Calm		3.3	Bottom	3	1	19.8	8	34.3	17	6.1	13.8
TMCLKL	HY/2012/08	2019-12-13	Mid-Ebb	SR4(N2)	Sunny	Calm		3.3	Bottom	3	2	19.8	8.2	33.3	7	6.6	15.2
TMCLKL	HY/2012/08	2019-12-13	Mid-Ebb	IS8(N)	Sunny	Calm		3.7	Surface	1	17	19.8	8	34.3	7.1	11.1	17.4
TMCLKL	HY/2012/08	2019-12-13	Mid-Ebb	IS8(N)	Sunny	Calm		3.7	Surface	1	2	19.7	8.2	33.3	7.1	12.2	17.4
TMCLKL	HY/2012/08	2019-12-13	Mid-Ebb	IS8(N)	Sunny	Calm		3.7	Middle	2	1		1				
TMCLKL	HY/2012/08	2019-12-13	Mid-Ebb	IS8(N)	Sunny	Calm		3.7	Middle	2	2	40.0	 	24.2	17	40.0	45.7
TMCLKL	HY/2012/08	2019-12-13	Mid-Ebb	IS8(N)	Sunny	Calm		3.7	Bottom	3	1	19.8	8	34.3	7.4	12.3	15.7
TMCLKL	HY/2012/08	2019-12-13	Mid-Ebb	IS8(N)	Sunny	Calm		3.7	Bottom	3	2	19.7	8.2	33.3	7.1	12.7	16.6
TMCLKL	HY/2012/08	2019-12-13	Mid-Ebb	IS(Mf)9	Sunny	Calm	12:00	3	Surface	1	1	19.8	8.2	34.3	7.1	9.6	14
TMCLKL	HY/2012/08	2019-12-13	Mid-Ebb	IS(Mf)9	Sunny	Calm	12:00	3	Surface	1	2	19.7	8.2	33.4	7.2	10.3	14.7
TMCLKL	HY/2012/08	2019-12-13	Mid-Ebb	IS(Mf)9	Sunny	Calm	12:00	3	Middle	2	10		1				
TMCLKL	HY/2012/08	2019-12-13	Mid-Ebb	IS(Mf)9	Sunny	Calm	12:00	3	Middle	2	2	40.7	0.0	24.4	7	40.7	1110
TMCLKL	HY/2012/08	2019-12-13	Mid-Ebb	IS(Mf)9	Sunny	Calm	12:00	3	Bottom	3	12	19.7	8.2	34.4	7 1	10.7	14.9
TMCLKL	HY/2012/08	2019-12-13	Mid-Ebb	IS(Mf)9	Sunny	Calm Calm	12:00 12:42	3	Bottom Surface	3	1	19.7 19.8	8	33.4 34.1	7.1	11.3	16.8 15.6
TMCLKL TMCLKL	HY/2012/08 HY/2012/08	2019-12-13	Mid-Ebb Mid-Ebb	IS(Mf)11 IS(Mf)11	Sunny Sunny	Calm	12:42	11	Surface	1	12	19.6	8.2	33.2	7.2 7.2	5.5 5.8	15.3
TMCLKL	HY/2012/08	2019-12-13 2019-12-13	Mid-Ebb	IS(Mf)11	Sunny	Calm	12:42	111	Middle	2	1	19.7	8	34.1	7.1	8.1	14.6
TMCLKL	HY/2012/08	2019-12-13	Mid-Ebb	IS(Mf)11	Sunny	Calm	12:42	111	Middle	2	12	19.7	8.2	33.2	7.1	8.3	15.8
TMCLKL	HY/2012/08	2019-12-13	Mid-Ebb	IS(Mf)11	Sunny	Calm	12:42	111	Bottom	2	1	19.7	8	34.1	7.1	9.9	0
TMCLKL	HY/2012/08	2019-12-13	Mid-Ebb	IS(Mf)11	Sunny	Calm	12:42	11	Bottom	2	2	19.7	8.2	33.2	7.1	11	8.9
TMCLKL	HY/2012/08	2019-12-13	Mid-Ebb	SR7	Sunny	Calm		4.3	Surface	1	1	19.7	8.1	34.1	7.1	5.1	13.9
TMCLKL	HY/2012/08	2019-12-13	Mid-Ebb	SR7	Sunny	Calm		4.3	Surface	1	2	19.7	8.2	33.1	7.2	5.5	12.9
TMCLKL	HY/2012/08	2019-12-13	Mid-Ebb	SR7	Sunny	Calm		4.3	Middle	2	1	19.7	0.2	33.1	1.2	J.J	12.9
TMCLKL	HY/2012/08	2019-12-13	Mid-Ebb	SR7	Sunny	Calm		4.3	Middle	2	2		1				
TMCLKL	HY/2012/08	2019-12-13	Mid-Ebb	SR7	Sunny	Calm		4.3	Bottom	3	1	19.7	8.1	34.1	7.3	5.3	12.5
TMCLKL	HY/2012/08	2019-12-13	Mid-Ebb	SR7	Sunny	Calm		4.3	Bottom	3	2	19.7	8.2	33.1	7.2	5.8	12.2
TMCLKL	HY/2012/08	2019-12-13	Mid-Ebb	IS17	Sunny	Rough	12:34	11.5	Surface	1	1	19.9	8	34.1	7.1	5.2	11.9
TMCLKL	HY/2012/08	2019-12-13	Mid-Ebb	IS17	Sunny	Rough		11.5	Surface	1	2	19.8	8.2	33.2	7.2	5.7	10.8
TMCLKL	HY/2012/08	2019-12-13	Mid-Ebb	IS17	Sunny	Rough		11.5	Middle	2	1	19.7	8	34.1	7.1	6.4	14.4
TMCLKL	HY/2012/08	2019-12-13	Mid-Ebb	IS17	Sunny	Rough		11.5	Middle	2	2	19.7	8.2	33.2	7.1	7	13.2
TMCLKL	HY/2012/08	2019-12-13	Mid-Ebb	IS17	Sunny	Rough		11.5	Bottom	3	1	19.7	8	34.1	7	7.1	16.5
TMCLKL	HY/2012/08	2019-12-13	Mid-Ebb	IS17	Sunny	Rough		11.5	Bottom	3	2	19.7	8.2	33.2	7.1	7.7	15.5
TMCLKL	HY/2012/08	2019-12-13	Mid-Flood	CS(Mf)5	Cloudy	Moderate	08:11	12.2	Surface	1	1	19.8	8.2	33.2	7	6.9	14.7
TMCLKL	HY/2012/08	2019-12-13	Mid-Flood	CS(Mf)5	Cloudy	Moderate	08:11	12.2	Surface	1	2	19.9	8	34.2	7	6.6	13.4
TMCLKL	HY/2012/08	2019-12-13	Mid-Flood	CS(Mf)5	Cloudy	Moderate	08:11	12.2	Middle	2	1	19.8	8.2	33.3	7	10.4	13.1
TMCLKL	HY/2012/08	2019-12-13	Mid-Flood	CS(Mf)5	Cloudy	Moderate	08:11	12.2	Middle	2	2	19.9	8	34.2	6.9	9.9	14.2
TMCLKL	HY/2012/08	2019-12-13	Mid-Flood	CS(Mf)5	Cloudy	Moderate	08:11	12.2	Bottom	3	1 -	19.8	8.2	33.3	6.9	13.8	16.2
TMCLKL	HY/2012/08	2019-12-13	Mid-Flood	CS(Mf)5	Cloudy	Moderate	08:11	12.2	Bottom	3	2	19.9	8	34.2	6.9	12.5	17.9
TMCLKL	HY/2012/08	2019-12-13	Mid-Flood	CS(Mf)3(N)	Cloudy	Moderate	08:56	7	Surface	1	11	19.4	8.2	33.3	7.2	6.6	12.4
TMCLKL	HY/2012/08	2019-12-13	Mid-Flood	CS(Mf)3(N)	Cloudy	Moderate	08:56	7	Surface	1	2	19.5	8	34.3	7.1	6.1	13.1
	HY/2012/08	2019-12-13	Mid-Flood			Moderate	08:56	7	Middle	2	1 -	19.4	8.2	33.3	7.1	7	13.2
TMCLKL	HY/2012/08	2019-12-13	Mid-Flood	CS(Mf)3(N)	Cloudy	Moderate	08:56	7	Middle	2	2	19.4	8	34.3	7.1	6.5	12.4
	HY/2012/08	2019-12-13	Mid-Flood	CS(Mf)3(N)		Moderate	08:56	7	Bottom	3	1	19.4		33.3	7.1	7.2	14.7
	1, 23 12, 00	1-0.0 12 10	1	1 () - (1 1)	12.2447	1	155.55	1.	1- 3	1-	1.	1.5	12	150.0	1		

			<u></u>	<u></u>		Sea	<u>L.</u>	Water	l	I		_ (0.0)	Τ				
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	2019-12-13	Mid-Flood	CS(Mf)3(N)	Cloudy	Moderate	08:56	7	Bottom	3	2	19.5	8	34.3	7.1	6.8	14.9
TMCLKL	HY/2012/08	2019-12-13	Mid-Flood	IS(Mf)16				5	Surface	1	1	19.4	8.2	33.3	7.2	6.1	15.9
TMCLKL	HY/2012/08	2019-12-13	Mid-Flood	IS(Mf)16	_	Calm	09:32	5	Surface	1	2	19.5	8	34.3	7.1	5.8	13.7
TMCLKL	HY/2012/08	2019-12-13	Mid-Flood	IS(Mf)16	Sunny	Calm	09:32	5	Middle	2	1						
TMCLKL	HY/2012/08	2019-12-13	Mid-Flood	IS(Mf)16	Sunny	Calm	09:32	5	Middle	2	2						
TMCLKL	HY/2012/08	2019-12-13	Mid-Flood	IS(Mf)16	Sunny	Calm	09:32	5	Bottom	3	1	19.4	8.2	33.3	7.2	6.4	12.7
TMCLKL	HY/2012/08	2019-12-13	Mid-Flood	IS(Mf)16	Sunny	Calm	09:32	5	Bottom	3	2	19.5	8	34.3	7.1	6.2	12.2
TMCLKL	HY/2012/08	2019-12-13	Mid-Flood	SR4a	Sunny	Calm	09:41	4.7	Surface	1	1	19.4	8.2	33.3	7.2	6.5	11.3
TMCLKL	HY/2012/08	2019-12-13	Mid-Flood	SR4a	Sunny	Calm	09:41	4.7	Surface	1	2	19.5	8	34.3	7.1	6	13.5
TMCLKL	HY/2012/08	2019-12-13	Mid-Flood	SR4a	Sunny	Calm	09:41	4.7	Middle	2	1						
TMCLKL	HY/2012/08	2019-12-13	Mid-Flood	SR4a	,			4.7	Middle	2	2						
TMCLKL	HY/2012/08	2019-12-13	Mid-Flood	SR4a	,	Calm	-	4.7	Bottom	3	1	19.4	8.2	33.3	7.2	7.2	12.9
TMCLKL	HY/2012/08	2019-12-13	Mid-Flood	SR4a	,	Calm	09:41	4.7	Bottom	3	2	19.5	8	34.3	7.1	6.6	14.4
TMCLKL	HY/2012/08	2019-12-13	Mid-Flood	SR4(N2)	•		09:46	3.1	Surface	1	1	19.4	8.2	33.3	7.2	6.9	23.2
TMCLKL	HY/2012/08	2019-12-13	Mid-Flood	SR4(N2)	_		09:46	3.1	Surface	1	2	19.5	8	34.3	7.1	6.6	21.2
TMCLKL	HY/2012/08	2019-12-13	Mid-Flood	SR4(N2)	*	Calm		3.1	Middle	2	1	1					
TMCLKL	HY/2012/08	2019-12-13	Mid-Flood	SR4(N2)				3.1	Middle	2	2	ļ. <u>.</u>			<u> </u>	1	
TMCLKL	HY/2012/08	2019-12-13	Mid-Flood	SR4(N2)	Sunny	Calm	-	3.1	Bottom	3	1	19.4	8.2	33.3	7.2	6.8	6.5
TMCLKL	HY/2012/08	2019-12-13	Mid-Flood	SR4(N2)	_	Calm	09:46	3.1	Bottom	3	2	19.5	8	34.3	7.1	6.3	19.1
TMCLKL	HY/2012/08	2019-12-13	Mid-Flood	IS8(N)	_	Calm		3.8	Surface	1	1	19.4	8.2	33.3	7.2	6.7	17.3
TMCLKL	HY/2012/08	2019-12-13	Mid-Flood	IS8(N)	_			3.8	Surface	1	2	19.5	8	34.3	7.1	6	19.6
TMCLKL	HY/2012/08	2019-12-13	Mid-Flood	IS8(N)	*			3.8	Middle	2	1	-			1	1	+
TMCLKL	HY/2012/08	2019-12-13	Mid-Flood	IS8(N)	•			3.8	Middle	2	2	10.1		00.0	7.0	7.4	45.5
TMCLKL	HY/2012/08	2019-12-13	Mid-Flood	IS8(N)	_			3.8	Bottom	3	1	19.4	8.2	33.3	7.2	7.1	15.5
TMCLKL	HY/2012/08	2019-12-13	Mid-Flood	IS8(N)	-	Calm		3.8	Bottom	3	2	19.5	8	34.3	7.1	6.4	14.4
TMCLKL	HY/2012/08	2019-12-13	Mid-Flood	IS(Mf)9	_		09:57	3	Surface	1	2	19.4	8.2	33.3	7.2	6.9	16.7
TMCLKL	HY/2012/08	2019-12-13	Mid-Flood	IS(Mf)9	,	Calm	09:57	3	Surface	1	2	19.5	8.2	34.3	7.1	6.3	18.8
TMCLKL	HY/2012/08	2019-12-13	Mid-Flood	IS(Mf)9	,	Calm	09:57	3	Middle	2	1		 		1		
TMCLKL	HY/2012/08	2019-12-13	Mid-Flood	IS(Mf)9	_		09:57	3	Middle	2	2	10.4	0.2	22.2	7.0	6.0	15.7
TMCLKL TMCLKL	HY/2012/08 HY/2012/08	2019-12-13	Mid-Flood Mid-Flood	IS(Mf)9 IS(Mf)9	,		09:57 09:57	2	Bottom	3	2	19.4 19.5	8.2	33.3 34.3	7.2 7.1	6.9	15.7 14.3
TMCLKL	HY/2012/08	2019-12-13	Mid-Flood	IS(Mf)11	Sunny Cloudy	Moderate		11.4	Bottom Surface	3	1	19.4	8.2	33.3	7.2	6.6	10.4
TMCLKL	HY/2012/08	2019-12-13	Mid-Flood	IS(Mf)11	_			11.4	Surface	1	2	19.4	Ω.2	34.2	7.2	6.1	11.3
TMCLKL	HY/2012/08	2019-12-13	Mid-Flood	IS(Mf)11	Cloudy	Moderate		11.4	Middle	2	1	19.4	8.2	33.3	7.1	7.8	11.5
TMCLKL	HY/2012/08	2019-12-13	Mid-Flood	IS(Mf)11	,	Moderate	09:21	11.4	Middle	2	2	19.4	Ω.2	34.3	7.1	6.5	12.3
TMCLKL	HY/2012/08	2019-12-13	Mid-Flood	IS(Mf)11	Cloudy	Moderate	09:21	11.4	Bottom	3	1	19.4	8.2	33.3	7.1	8	13.9
TMCLKL	HY/2012/08	2019-12-13	Mid-Flood	IS(Mf)11	Cloudy	Moderate	09:21	11.4	Bottom	3	2	19.4	8	34.3	7.1	7.8	14.9
TMCLKL	HY/2012/08	2019-12-13	Mid-Flood	SR7	Cloudy			4.3	Surface	1	1	19.4	8.2	33.3	7.1	6.8	10.7
TMCLKL	HY/2012/08	2019-12-13	Mid-Flood	SR7	_			4.3	Surface	1	2	19.5	8.1	34.3	7.1	6.3	10
TMCLKL	HY/2012/08	2019-12-13	Mid-Flood	SR7				4.3	Middle	2	1	10.0	10.1	0 1.0	7	0.0	
TMCLKL	HY/2012/08	2019-12-13	Mid-Flood	SR7	Cloudy			4.3	Middle	2	2		1				+
TMCLKL	HY/2012/08	2019-12-13	Mid-Flood	SR7				4.3	Bottom	3	1	19.4	8.2	33.3	7.1	7	13.8
TMCLKL	HY/2012/08	2019-12-13	Mid-Flood	SR7	Cloudy	Calm		4.3	Bottom	3	2	19.5	8.1	34.3	7.1	6.6	13.1
TMCLKL	HY/2012/08	2019-12-13	Mid-Flood	IS17	Cloudy		09:26	9.1	Surface	1	1	19.4	8.2	33.3	7.2	6.6	15.9
TMCLKL	HY/2012/08	2019-12-13	Mid-Flood	IS17	Cloudy	Moderate		9.1	Surface	1	2	19.5	8	34.3	7.1	6	14.8
TMCLKL	HY/2012/08	2019-12-13	Mid-Flood	IS17	Cloudy	Moderate		9.1	Middle	2	1	19.4	8.2	33.3	7.1	7.1	15.3
TMCLKL	HY/2012/08	2019-12-13	Mid-Flood	IS17	Cloudy	Moderate	09:26	9.1	Middle	2	2	19.5	8	34.3	7.1	6.5	15.1
TMCLKL	HY/2012/08	2019-12-13	Mid-Flood	IS17	Cloudy	Moderate		9.1	Bottom	3	1	19.4	8.2	33.3	7.1	7.2	13
TMCLKL	HY/2012/08	2019-12-13	Mid-Flood	IS17	Cloudy	Moderate		9.1	Bottom	3	2	19.5	8	34.3	7.1	9	12.2
TMCLKL	HY/2012/08	2019-12-16	Mid-Ebb	CS(Mf)5	Cloudy	Moderate		12.9	Surface	1	1	20.2	8	33.4	6.8	3.9	7.3
TMCLKL	HY/2012/08	2019-12-16	Mid-Ebb	CS(Mf)5	_	Moderate		12.9	Surface	1	2	20.1	8.2	32.4	6.8	4.3	7.4
TMCLKL	HY/2012/08	2019-12-16	Mid-Ebb	CS(Mf)5	_	Moderate	16:23	12.9	Middle	2	1	20.1	8	33.6	6.7	5	9.5
TMCLKL	HY/2012/08	2019-12-16	Mid-Ebb	CS(Mf)5	Cloudy	Moderate	16:23	12.9	Middle	2	2	20.1	8.2	32.6	6.7	5.7	9.1
TMCLKL	HY/2012/08	2019-12-16	Mid-Ebb	CS(Mf)5	Cloudy	Moderate	16:23	12.9	Bottom	3	1	20.1	8	33.8	6.7	9.2	10.2
TMCLKL	HY/2012/08	2019-12-16	Mid-Ebb	CS(Mf)5	Cloudy	Moderate		12.9	Bottom	3	2	20.1	8.2	32.9	6.7	10.1	10.6
TMCLKL	HY/2012/08	2019-12-16	Mid-Ebb		Cloudy	Moderate		7.4	Surface	1	1	20.1	8	32.6	7.1	7.8	11
TMCLKL	HY/2012/08	2019-12-16	Mid-Ebb	CS(Mf)3(N)	Cloudy	Moderate		7.4	Surface	1	2	20.1	8.2	31.7	7.1	8.3	11.1
TMCLKL	HY/2012/08	2019-12-16	Mid-Ebb	CS(Mf)3(N)	Cloudy	Moderate		7.4	Middle	2	1	20	8	32.9	7	9.9	9.2
	HY/2012/08		Mid-Ebb		,			7.4	Middle	2	2	20	8.2	32	7.1	9.8	8.7
	HY/2012/08		Mid-Ebb			Moderate		7.4		3	1	20	8	33.1	7	11.5	8.1
LIMCLKL	HY/2012/08	2019-12-16	Mid-Ebb	CS(Mf)3(N)	Cloudy	Moderate	15:41	7.4	Bottom	<u> </u> 3	2	20	8.2	32.1	7.1	12.4	8.4

						Sea		Water									
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	2019-12-16	Mid-Ebb	IS(Mf)16	Cloudy		14:42	5.7	Surface	1	1	20.1	8	33.1	7	18.1	17.6
TMCLKL	HY/2012/08	2019-12-16	Mid-Ebb	IS(Mf)16	Cloudy		14:42	5.7	Surface	1	2	20.1	8.2	32.2	7.1	20.1	18.3
TMCLKL	HY/2012/08	2019-12-16	Mid-Ebb	IS(Mf)16	Cloudy		14:42	5.7	Middle	2	1	20.1	10.2	02.2	1,.,	20.1	10.0
TMCLKL	HY/2012/08	2019-12-16	Mid-Ebb	IS(Mf)16	Cloudy	Calm	14:42	5.7	Middle	2	2		+				
TMCLKL	HY/2012/08	2019-12-16	Mid-Ebb	IS(Mf)16	Cloudy			5.7	Bottom	3	1	20.1	8	33.1	7	28.9	26
TMCLKL	HY/2012/08	2019-12-16	Mid-Ebb	IS(Mf)16	Cloudy		14:42	5.7	Bottom	3	2	20	8.2	32.2	7.1	34.5	27.4
TMCLKL	HY/2012/08	2019-12-16	Mid-Ebb	SR4a	Cloudy		14:33	4.4	Surface	1	1	20.1	8	33.3	7.1	5.9	7.5
TMCLKL	HY/2012/08	2019-12-16	Mid-Ebb	SR4a	Cloudy		14:33	4.4	Surface	1	2	20.1	8.2	32.4	7.2	6.8	7.9
TMCLKL	HY/2012/08	2019-12-16	Mid-Ebb	SR4a	Cloudy		14:33	4.4	Middle	2	1	20.1	0.2	32.4	1.2	0.0	7.9
TMCLKL	HY/2012/08	2019-12-16	Mid-Ebb	SR4a	Cloudy		14:33	+	Middle	2	2		+				
								4.4	+	2	1	20.1	8	33.3	7.1	6.6	0.5
TMCLKL	HY/2012/08	2019-12-16	Mid-Ebb	SR4a SR4a	Cloudy	Calm Calm	14:33	4.4	Bottom	3	1	20.1	8.2		7.1	6.6 6.9	8.5 8.6
TMCLKL	HY/2012/08	2019-12-16	Mid-Ebb		Cloudy		14:33	4.4	Bottom	3	4	20.1		32.4	7.2		
TMCLKL	HY/2012/08	2019-12-16	Mid-Ebb	SR4(N2)	Cloudy		14:29	4	Surface	1	2	20.2	8	33.3	7.1	5.7	10.5
TMCLKL	HY/2012/08	2019-12-16	Mid-Ebb	SR4(N2)	Cloudy		14:29	4	Surface	1	2	20.2	8.2	32.3	7.2	6.1	10.2
TMCLKL	HY/2012/08	2019-12-16	Mid-Ebb	SR4(N2)	Cloudy		14:29	4	Middle	2	2						
TMCLKL	HY/2012/08	2019-12-16	Mid-Ebb	SR4(N2)	Cloudy		14:29	4	Middle	2	2	00.4	-	00.4	7.4	0.7	0.4
TMCLKL	HY/2012/08	2019-12-16	Mid-Ebb	SR4(N2)	Cloudy		14:29	4	Bottom	3	1	20.1	8	33.4	7.1	6.7	8.1
TMCLKL	HY/2012/08	2019-12-16	Mid-Ebb	SR4(N2)	Cloudy		14:29	4	Bottom	3	2	20.1	8.2	32.4	7.1	7.4	8.6
TMCLKL	HY/2012/08	2019-12-16	Mid-Ebb	IS8(N)	Cloudy	Calm	14:24	3.7	Surface	11	11	20.2	8	33.3	7.2	5.7	9.9
TMCLKL	HY/2012/08	2019-12-16	Mid-Ebb	IS8(N)	Cloudy	Calm	14:24	3.7	Surface	1	2	20.2	8.2	32.4	7.2	6.4	9.9
TMCLKL	HY/2012/08	2019-12-16	Mid-Ebb	IS8(N)	Cloudy		14:24	3.7	Middle	2	1	ļ	1				
TMCLKL	HY/2012/08	2019-12-16	Mid-Ebb	IS8(N)	Cloudy		14:24	3.7	Middle	2	2		-			<u> </u>	1
TMCLKL	HY/2012/08	2019-12-16	Mid-Ebb	IS8(N)	Cloudy		14:24	3.7	Bottom	3	1	20.2	8	33.3	7.2	5.8	8.8
TMCLKL	HY/2012/08	2019-12-16	Mid-Ebb	IS8(N)	Cloudy		14:24	3.7	Bottom	3	2	20.2	8.2	32.4	7.2	6.4	8.9
TMCLKL	HY/2012/08	2019-12-16	Mid-Ebb	IS(Mf)9	Cloudy		14:16	2.9	Surface	1	1						
TMCLKL	HY/2012/08	2019-12-16	Mid-Ebb	IS(Mf)9	Cloudy		14:16	2.9	Surface	1	2						
TMCLKL	HY/2012/08	2019-12-16	Mid-Ebb	IS(Mf)9	Cloudy	Calm	14:16	2.9	Middle	2	1	20.1	8	33.5	7.1	8.8	15.3
TMCLKL	HY/2012/08	2019-12-16	Mid-Ebb	IS(Mf)9	Cloudy	Calm	14:16	2.9	Middle	2	2	20	8.2	32.5	7.1	9.4	14.9
TMCLKL	HY/2012/08	2019-12-16	Mid-Ebb	IS(Mf)9	Cloudy	Calm	14:16	2.9	Bottom	3	1						
TMCLKL	HY/2012/08	2019-12-16	Mid-Ebb	IS(Mf)9	Cloudy	Calm	14:16	2.9	Bottom	3	2						
TMCLKL	HY/2012/08	2019-12-16	Mid-Ebb	IS(Mf)11	Cloudy	Calm	15:08	11.9	Surface	1	1	20	8	33.1	7	7.5	9.8
TMCLKL	HY/2012/08	2019-12-16	Mid-Ebb	IS(Mf)11	Cloudy	Calm	15:08	11.9	Surface	1	2	20	8.2	32.2	7	8.3	9.9
TMCLKL	HY/2012/08	2019-12-16	Mid-Ebb	IS(Mf)11	Cloudy	Calm	15:08	11.9	Middle	2	1	20	8	33.1	7	8.7	10.2
TMCLKL	HY/2012/08	2019-12-16	Mid-Ebb	IS(Mf)11	Cloudy	Calm	15:08	11.9	Middle	2	2	20	8.2	32.2	7.1	9.4	10.6
TMCLKL	HY/2012/08	2019-12-16	Mid-Ebb	IS(Mf)11	Cloudy	Calm	15:08	11.9	Bottom	3	1	20	8	33.1	7.1	9.6	12.8
TMCLKL	HY/2012/08	2019-12-16	Mid-Ebb	IS(Mf)11	Cloudy	Calm	15:08	11.9	Bottom	3	2	20	8.2	32.2	7.1	10.3	12.8
TMCLKL	HY/2012/08	2019-12-16	Mid-Ebb	SR7	Cloudy	Calm	15:00	4.5	Surface	1	1	20.1	8	33.2	7	5.8	8.5
TMCLKL	HY/2012/08	2019-12-16	Mid-Ebb	SR7	Cloudy		15:00	4.5	Surface	1	2	20	8.2	32.2	7	6	8
TMCLKL	HY/2012/08	2019-12-16	Mid-Ebb	SR7	Cloudy		15:00	4.5	Middle	2	1						
TMCLKL	HY/2012/08	2019-12-16	Mid-Ebb	SR7	Cloudy		15:00	4.5	Middle	2	2						
TMCLKL	HY/2012/08	2019-12-16	Mid-Ebb	SR7	Cloudy		15:00	4.5	Bottom	3	1	20.1	8	33.2	7.1	6.1	10.9
TMCLKL	HY/2012/08	2019-12-16	Mid-Ebb	SR7	Cloudy		15:00	4.5	Bottom	3	2	20	8.2	32.2	7	6.7	11.4
TMCLKL	HY/2012/08	2019-12-16	Mid-Ebb	IS17	Cloudy	Calm	14:50	10.2	Surface	1	1	20.2	8	33.1	7.1	5.6	13
TMCLKL	HY/2012/08	2019-12-16	Mid-Ebb	IS17	Cloudy		14:50	10.2	Surface	1	2	20.1	8.2	32.2	7.1	6	12.8
TMCLKL	HY/2012/08	2019-12-16	Mid-Ebb	IS17	Cloudy		14:50	10.2	Middle	2	1	20	8	33.1	7	6.6	11.3
TMCLKL	HY/2012/08	2019-12-16	Mid-Ebb	IS17	Cloudy		14:50	10.2	Middle	2	2	20	8.2	32.2	7.1	7	11.3
TMCLKL	HY/2012/08	2019-12-16	Mid-Ebb	IS17	Cloudy		14:50	10.2	Bottom	3	1	20	8	33.1	7	7.1	9.6
TMCLKL	HY/2012/08	2019-12-16	Mid-Ebb	IS17	Cloudy		14:50	10.2	Bottom	3	2	19.9	8.2	32.2	7	7.8	8.8
TMCLKL	HY/2012/08	2019-12-16	Mid-Flood	CS(Mf)5	Cloudy		09:29	11.8	Surface	1	1	20	8.1	33.1	7	5.2	6.1
TMCLKL	HY/2012/08	2019-12-16	Mid-Flood	CS(Mf)5	Cloudy		09:29	11.8	Surface	1	2	20	8.2	32.1	7	5.7	6.5
TMCLKL	HY/2012/08	2019-12-16	Mid-Flood	CS(Mf)5	Cloudy		09:29	11.8	Middle	2	 - 1	20	8	33.1	7	6.8	6.5
TMCLKL	HY/2012/08	2019-12-16	Mid-Flood	CS(Mf)5	Cloudy		09:29	11.8	Middle	2	2	19.9	8.2	32.1	7	7.2	7.1
TMCLKL	HY/2012/08	2019-12-16	Mid-Flood	CS(Mf)5	Cloudy		09:29	11.8	Bottom	3	1	19.9	8	33.3	6.9	31.9	8.3
TMCLKL	HY/2012/08	2019-12-16	Mid-Flood	CS(Mf)5	Cloudy		09:29	11.8	Bottom	3	2	19.9	8.2	32.3	7	27.9	7.7
TMCLKL	HY/2012/08	2019-12-16	Mid-Flood	CS(Mf)3(N)	Cloudy		10:18	7.2	Surface	1	1	20.1	8	32.2	6.9	8.8	14.4
TMCLKL	HY/2012/08	2019-12-16	Mid-Flood	· · · · ·	Cloudy		10:18	7.2	Surface	1	2	20.1	8.2	31.3	7	9.6	14.4
TMCLKL	HY/2012/08	2019-12-16	Mid-Flood	CS(Mf)3(N)			10:18	7.2	Middle	2	1	20.1	Ω.∠	32.2	6.0	9.4	12.6
					Cloudy	Moderate	10:18	+		2	2		0 2		6.9		_
TMCLKL	HY/2012/08	2019-12-16	Mid-Flood	CS(Mf)3(N)	Cloudy	Moderate		7.2 7.2	Middle	2	1	20.1	8.2	31.3	7	10	12.1 9.2
TMCLKL	HY/2012/08		Mid-Flood		Cloudy				Bottom	3	1		7.9	32.2	7	12.4	
TMCLKL	HY/2012/08		Mid-Flood	CS(Mf)3(N)	Cloudy			7.2	Bottom	3	2	20	_	31.3	/	13.4	9.4
LIVICLKL	HY/2012/08	2019-12-16	Inia-Flood	IS(Mf)16	Cloudy	Moderate	11:04	5.6	Surface	<u> </u>	[1	20	8	33.1	/	11.6	14.7

Drainat	Contract	Data	Tido	Ctat	Weether	Sea	Time	Water	Lovel	Lay Cad	Danlingto	Tomn(°C)	nu	Solinity/nnt)	DO(ma/L)	Turbidity/NTU	SS/mg/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	2019-12-16	Mid-Flood	IS(Mf)16	Cloudy	Moderate	11:04	5.6	Surface	1	2	19.9	8.2	32.2	7.1	9.5	14
TMCLKL	HY/2012/08	2019-12-16	Mid-Flood	IS(Mf)16	Cloudy	Moderate	11:04	5.6	Middle	2	1						
TMCLKL	HY/2012/08	2019-12-16	Mid-Flood	IS(Mf)16	Cloudy	Moderate	11:04	5.6	Middle	2	2						
TMCLKL	HY/2012/08	2019-12-16	Mid-Flood	IS(Mf)16	Cloudy	Moderate	11:04	5.6	Bottom	3	1	19.9	8	33.3	7	17.4	15.3
TMCLKL	HY/2012/08	2019-12-16	Mid-Flood	IS(Mf)16		Moderate	11:04	5.6	Bottom	3	2	19.9	8.2	32.3	7	19.3	16
TMCLKL	HY/2012/08	2019-12-16	Mid-Flood	SR4a	Cloudy	Calm	11:17	4.3	Surface	1	1	20	8	33.5	6.9	7.6	11.2
TMCLKL	HY/2012/08	2019-12-16	Mid-Flood	SR4a	Cloudy	Calm	11:17	4.3	Surface	1	2	19.9	8.2	32.6	7	8.4	11.7
TMCLKL	HY/2012/08	2019-12-16	Mid-Flood	SR4a	Cloudy	Calm	11:17	4.3	Middle	2	1						
TMCLKL	HY/2012/08	2019-12-16	Mid-Flood	SR4a	Cloudy	Calm	11:17	4.3	Middle	2	2			00.5	_	7.0	100
TMCLKL	HY/2012/08	2019-12-16	Mid-Flood	SR4a	Cloudy	Calm	11:17	4.3	Bottom	3	1	20	8	33.5	7	7.6	13.2
TMCLKL	HY/2012/08	2019-12-16	Mid-Flood	SR4a	Cloudy	Calm	11:17	4.3	Bottom	3	2	19.9	8.2	32.6	7	8.6	13.5
TMCLKL	HY/2012/08	2019-12-16 2019-12-16	Mid-Flood Mid-Flood	SR4(N2) SR4(N2)	Cloudy Cloudy	Calm Calm	11:22 11:22	3.9	Surface	1	2	20 19.9	0 2	33.5 32.6	7	7.3 7.9	11.9 12.3
TMCLKL TMCLKL	HY/2012/08 HY/2012/08	2019-12-16	Mid-Flood	SR4(N2)	Cloudy	Calm	11:22	3.9	Surface Middle	2	1	19.9	8.2	32.0		7.9	12.3
TMCLKL	HY/2012/08	2019-12-16	Mid-Flood	SR4(N2)	Cloudy	Calm	11:22	3.9	Middle	2	2		1				+
TMCLKL	HY/2012/08	2019-12-16	Mid-Flood	SR4(N2)	Cloudy	Calm	11:22	3.9	Bottom	3	1	20	8	33.5	7	7.7	10.2
TMCLKL	HY/2012/08	2019-12-16	Mid-Flood	SR4(N2)	Cloudy	Calm	11:22	3.9	Bottom	3	2	19.9	8.2	32.6	7	8.1	9.9
TMCLKL	HY/2012/08	2019-12-16	Mid-Flood	IS8(N)	Cloudy	Calm	11:29	4.2	Surface	1	1	20	8	33.2	7	7.6	10.6
TMCLKL	HY/2012/08	2019-12-16	Mid-Flood	IS8(N)	Cloudy	Calm	11:29	4.2	Surface	<u> </u>	2	19.9	8.2	32.3	7.1	8.1	10.2
TMCLKL	HY/2012/08	2019-12-16	Mid-Flood	IS8(N)	Cloudy	Calm	11:29	4.2	Middle	2	1	1.0.0	†" -		1	1	1.5.2
TMCLKL	HY/2012/08	2019-12-16	Mid-Flood	IS8(N)	Cloudy	Calm	11:29	4.2	Middle	2	2		1				
TMCLKL	HY/2012/08	2019-12-16	Mid-Flood	IS8(N)	Cloudy	Calm	11:29	4.2	Bottom	3	1	20	8	33.3	7	8.8	12
TMCLKL	HY/2012/08	2019-12-16	Mid-Flood	IS8(N)	Cloudy	Calm	11:29	4.2	Bottom	3	2	19.9	8.2	32.3	7.1	9.5	12.2
TMCLKL	HY/2012/08	2019-12-16	Mid-Flood	IS(Mf)9	Cloudy	Calm	11:34	2.7	Surface	1	1		1				
TMCLKL	HY/2012/08	2019-12-16	Mid-Flood	IS(Mf)9	Cloudy	Calm	11:34	2.7	Surface	1	2						
TMCLKL	HY/2012/08	2019-12-16	Mid-Flood	IS(Mf)9	Cloudy	Calm	11:34	2.7	Middle	2	1	20	8	33.3	7	17.9	20.9
TMCLKL	HY/2012/08	2019-12-16	Mid-Flood	IS(Mf)9	Cloudy	Calm	11:34	2.7	Middle	2	2	19.9	8.2	32.3	7	20.3	20.1
TMCLKL	HY/2012/08	2019-12-16	Mid-Flood	IS(Mf)9	Cloudy	Calm	11:34	2.7	Bottom	3	1						
TMCLKL	HY/2012/08	2019-12-16	Mid-Flood	IS(Mf)9	Cloudy	Calm	11:34	2.7	Bottom	3	2						
TMCLKL	HY/2012/08	2019-12-16	Mid-Flood	IS(Mf)11	Cloudy	Moderate	10:49	11.3	Surface	1	1	20	8	33.1	7	6.2	10.9
TMCLKL	HY/2012/08	2019-12-16	Mid-Flood	IS(Mf)11	Cloudy	Moderate	10:49	11.3	Surface	1	2	19.9	8.2	32.2	7.1	6.3	10.4
TMCLKL	HY/2012/08	2019-12-16	Mid-Flood	IS(Mf)11	Cloudy	Moderate	10:49	11.3	Middle	2	1	19.9	8	33.2	7	9.3	11.9
TMCLKL	HY/2012/08	2019-12-16	Mid-Flood	IS(Mf)11	Cloudy	Moderate	10:49	11.3	Middle	2	2	19.9	8.2	32.2	7	9.8	11.7
TMCLKL	HY/2012/08	2019-12-16	Mid-Flood	IS(Mf)11	Cloudy	Moderate	10:49	11.3	Bottom	3	1	19.9	8	33.3	7	13.2	13.4
TMCLKL	HY/2012/08	2019-12-16	Mid-Flood	IS(Mf)11	Cloudy	Moderate	10:49	11.3	Bottom	3	2	19.9	8.2	32.3	7	10.6	13.7
TMCLKL	HY/2012/08	2019-12-16	Mid-Flood	SR7	Cloudy	Moderate	09:52	4.1	Surface	1	1	19.9	8.1	33.1	7	9.9	12.4
TMCLKL	HY/2012/08	2019-12-16	Mid-Flood	SR7	Cloudy	Moderate	09:52	4.1	Surface	1	4	19.9	8.2	32.1	/	10.7	11.6
TMCLKL TMCLKL	HY/2012/08 HY/2012/08	2019-12-16 2019-12-16	Mid-Flood Mid-Flood	SR7 SR7	Cloudy Cloudy	Moderate	09:52 09:52	4.1	Middle Middle	2	2		+				+
TMCLKL	HY/2012/08	2019-12-16	Mid-Flood	SR7	Cloudy	Moderate Moderate	09:52	4.1	Bottom	2	1	19.9	8.1	33.1	7	13.2	9.9
TMCLKL	HY/2012/08	2019-12-16	Mid-Flood	SR7	Cloudy	Moderate	09:52	1 1	Bottom	3	2	19.9	8.2	32.1	7	14.3	10.1
TMCLKL	HY/2012/08	2019-12-16	Mid-Flood	IS17	Cloudy	Moderate	10:57	9.2	Surface	1	1	19.9	8	33	7	7.2	10.8
TMCLKL	HY/2012/08	2019-12-16	Mid-Flood	IS17	Cloudy	Moderate	10:57	9.2	Surface	11	2	19.8	8.2	32.1	7.1	7.9	11.3
TMCLKL	HY/2012/08	2019-12-16	Mid-Flood	IS17	Cloudy	Moderate	10:57	9.2	Middle	2	1	19.9	8	33.1	7	11.2	13.3
TMCLKL	HY/2012/08	2019-12-16	Mid-Flood	IS17	Cloudy	Moderate	10:57	9.2	Middle	2	2	19.8	8.2	32.1	7	12	13
TMCLKL	HY/2012/08	2019-12-16	Mid-Flood	IS17	Cloudy	Moderate	10:57	9.2	Bottom	3	1	19.9	8	33.1	7	12.2	16.7
TMCLKL	HY/2012/08	2019-12-16	Mid-Flood	IS17	Cloudy	Moderate	10:57	9.2	Bottom	3	2	19.8	8.2	32.1	7	13.2	16.9
TMCLKL	HY/2012/08	2019-12-18	Mid-Ebb	CS(Mf)5	Fine	Moderate	18:28	12.4	Surface	1	1	20.5	8.1	31.3	6.9	5.3	6.8
TMCLKL	HY/2012/08	2019-12-18	Mid-Ebb	CS(Mf)5	Fine	Moderate	18:28	12.4	Surface	1	2	20.5	7.9	32.2	6.7	5	7.4
TMCLKL	HY/2012/08	2019-12-18	Mid-Ebb	CS(Mf)5	Fine	Moderate	18:28	12.4	Middle	2	1	20.3	8.1	32.2	6.5	6.3	6.8
TMCLKL	HY/2012/08	2019-12-18	Mid-Ebb	CS(Mf)5	Fine	Moderate	18:28	12.4	Middle	2	2	20.3	8	33.2	6.5	5.8	7.2
TMCLKL	HY/2012/08	2019-12-18	Mid-Ebb	CS(Mf)5		Moderate	18:28	12.4	Bottom	3	1	20.3	8.1	32.4	6.5	8.9	7.7
TMCLKL	HY/2012/08	2019-12-18	Mid-Ebb	CS(Mf)5	Fine	Moderate	18:28	12.4	Bottom	3	2	20.3	8	33.3	6.5	8.6	7.1
TMCLKL	HY/2012/08	2019-12-18	Mid-Ebb	CS(Mf)3(N)	Fine	Moderate	17:40	7	Surface	1	1	21	8.1	29.8	7.1	5.2	7.2
TMCLKL	HY/2012/08	2019-12-18	Mid-Ebb		Fine	Moderate	17:40	7	Surface	1	2	21	8	30.7	7	4.9	8.1
TMCLKL	HY/2012/08	2019-12-18	Mid-Ebb	$+$ \cdot \cdot \cdot	Fine	Moderate	17:40	7	Middle	2	1	20.5	8.2	30.8	6.9	11.6	7
TMCLKL	HY/2012/08	2019-12-18	Mid-Ebb		Fine	Moderate	17:40	7	Middle	2	2	20.5	8.1	31.7	6.9	10.8	7.9
TMCLKL	HY/2012/08	2019-12-18	Mid-Ebb		Fine	Moderate	17:40	7	Bottom	3	1	20.5	8.2	30.8	6.9	12.2	7.7
TMCLKL	HY/2012/08		Mid-Ebb	CS(Mf)3(N)			17:40	7	Bottom	3	2	20.6	8.1	31.7	6.9	11.7	8
TMCLKL	HY/2012/08		Mid-Ebb	IS(Mf)16	Fine	Moderate	16:53	5.6	Surface	11	11	20.8		31	/	6	8.6
LINICLKL	HY/2012/08	2019-12-18	Mid-Ebb	IS(Mf)16	Fine	Moderate	16:53	5.6	Surface	<u> </u>	2	20.9	8	31.9	[/	6	7.7

			T			Sea	Ι	Water			Ι	1	T			T	T
Project	Contract	Date	Tide	Stat	Weather		Time	1	Level	Lev_Cod	Replicate	Temp(°C)	рН	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
TMOLIC	11)//0040/00	0040 40 40	Mid Eld	10/146)40	Fig. 2	Condition	40.50	Depth	NA: -I -II -	0	4						
TMCLKL	HY/2012/08	2019-12-18	Mid-Ebb	IS(Mf)16	Fine	Moderate	16:53	5.6	Middle	2	1		+		1	-	+
TMCLKL	HY/2012/08	2019-12-18	Mid-Ebb	IS(Mf)16	Fine	Moderate	16:53	5.6	Middle	2	2						1
TMCLKL	HY/2012/08	2019-12-18	Mid-Ebb	IS(Mf)16	Fine	Moderate	16:53	5.6	Bottom	3	1	20.7	8.2	31.3	6.9	9	10
TMCLKL	HY/2012/08	2019-12-18	Mid-Ebb	IS(Mf)16	Fine	Moderate	16:53	5.6	Bottom	3	2	20.7	8	32.2	6.9	8.4	9.5
TMCLKL	HY/2012/08	2019-12-18	Mid-Ebb	SR4a	Fine	Moderate	16:41	4.6	Surface	1	1	21	8.2	31.3	7	5.1	7.9
TMCLKL	HY/2012/08	2019-12-18	Mid-Ebb	SR4a	Fine	Moderate	16:41	4.6	Surface	1	2	21	8	32.2	7	4.8	7
TMCLKL	HY/2012/08	2019-12-18	Mid-Ebb	SR4a	Fine	Moderate	16:41	4.6	Middle	2	1						
TMCLKL	HY/2012/08	2019-12-18	Mid-Ebb	SR4a	Fine	Moderate	16:41	4.6	Middle	2	2						
TMCLKL	HY/2012/08	2019-12-18	Mid-Ebb	SR4a	Fine	Moderate	16:41	4.6	Bottom	3	1	20.9	8.2	31.5	7	5.9	6.2
TMCLKL	HY/2012/08	2019-12-18	Mid-Ebb	SR4a	Fine	Moderate	16:41	4.6	Bottom	3	2	20.9	8	32.5	6.9	5.6	5.8
TMCLKL	HY/2012/08	2019-12-18	Mid-Ebb	SR4(N2)	Fine	Moderate	16:35	3.6	Surface	1	1	21.2	8.2	31.1	7.1	4.2	6.3
TMCLKL	HY/2012/08	2019-12-18	Mid-Ebb	SR4(N2)	Fine	Moderate	16:35	3.6	Surface	1	2	21.2	8	32	7.1	4	5.4
TMCLKL	HY/2012/08	2019-12-18	Mid-Ebb	SR4(N2)	Fine	Moderate	16:35	3.6	Middle	2	1						
TMCLKL	HY/2012/08	2019-12-18	Mid-Ebb	SR4(N2)	Fine	Moderate	16:35	3.6	Middle	2	2						
TMCLKL	HY/2012/08	2019-12-18	Mid-Ebb	SR4(N2)	Fine	Moderate	16:35	3.6	Bottom	3	1	21.1	8.2	31.1	7.1	4.4	6.8
TMCLKL	HY/2012/08	2019-12-18	Mid-Ebb	SR4(N2)	Fine	Moderate	16:35	3.6	Bottom	3	2	21.2	8	32.1	7	4	6.3
TMCLKL	HY/2012/08	2019-12-18	Mid-Ebb	IS8(N)	Fine	Moderate	16:27	3.6	Surface	1	1	21.2	8.2	31.1	7.1	5.6	14.5
TMCLKL	HY/2012/08	2019-12-18	Mid-Ebb	IS8(N)	Fine	Moderate	16:27	3.6	Surface	1	2	21.2	8	31.9	7.1	5.2	13.3
TMCLKL	HY/2012/08	2019-12-18	Mid-Ebb	IS8(N)	Fine	Moderate	16:27	3.6	Middle	2	- 1		 		1		1.5.5
TMCLKL	HY/2012/08	2019-12-18	Mid-Ebb	IS8(N)	Fine	Moderate	16:27	3.6	Middle	2	2	 	+	 		1	1
TMCLKL	HY/2012/08	2019-12-18	Mid-Ebb	IS8(N)	Fine	Moderate	16:27	3.6	Bottom	3	1	21.2	8.2	31.4	7	9.5	9.5
	+								1	2	2		0.2		7		
TMCLKL	HY/2012/08	2019-12-18	Mid-Ebb	IS8(N)	Fine	Moderate Moderate	16:27 16:20	3.6	Bottom	1	1	21.2 20.8	8.2	32.3	6 9	8.9	10.3
TMCLKL	HY/2012/08	2019-12-18	Mid-Ebb	IS(Mf)9	Fine	Moderate		3.2	Surface	1	1		8.2	31.8	6.8	9.1	13.5
TMCLKL	HY/2012/08	2019-12-18	Mid-Ebb	IS(Mf)9		Moderate	16:20	3.2	Surface	1	2	20.8	8	32.7	6.7	8.5	11.8
TMCLKL	HY/2012/08	2019-12-18	Mid-Ebb	IS(Mf)9	Fine	Moderate	16:20	3.2	Middle	2	1						
TMCLKL	HY/2012/08	2019-12-18	Mid-Ebb	IS(Mf)9	Fine	Moderate	16:20	3.2	Middle	2	2					1	1
TMCLKL	HY/2012/08	2019-12-18	Mid-Ebb	IS(Mf)9	Fine	Moderate	16:20	3.2	Bottom	3	1	20.5	8.2	31.9	6.6	11.9	12.6
TMCLKL	HY/2012/08	2019-12-18	Mid-Ebb	IS(Mf)9		Moderate	16:20	3.2	Bottom	3	2	20.6	8	32.8	6.6	11	11.2
TMCLKL	HY/2012/08	2019-12-18	Mid-Ebb	IS(Mf)11	Fine	Moderate	17:11	11.1	Surface	1	1	20.5	8.1	31	6.9	6.5	6.8
TMCLKL	HY/2012/08	2019-12-18	Mid-Ebb	IS(Mf)11	Fine	Moderate	17:11	11.1	Surface	1	2	20.6	8	31.9	6.9	6.3	7.5
TMCLKL	HY/2012/08	2019-12-18	Mid-Ebb	IS(Mf)11	Fine	Moderate	17:11	11.1	Middle	2	1	20.5	8.2	31.1	6.8	9.5	7
TMCLKL	HY/2012/08	2019-12-18	Mid-Ebb	IS(Mf)11	Fine	Moderate	17:11	11.1	Middle	2	2	20.5	8	32.1	6.8	8.6	7.9
TMCLKL	HY/2012/08	2019-12-18	Mid-Ebb	IS(Mf)11	Fine	Moderate	17:11	11.1	Bottom	3	1	20.4	8.2	31.2	6.8	12.1	5.5
TMCLKL	HY/2012/08	2019-12-18	Mid-Ebb	IS(Mf)11	Fine	Moderate	17:11	11.1	Bottom	3	2	20.5	8	32.2	6.8	11.1	6.5
TMCLKL	HY/2012/08	2019-12-18	Mid-Ebb	SR7	Fine	Moderate	18:09	4.3	Surface	1	1	20.5	8.2	31.1	6.9	5.7	7.9
TMCLKL	HY/2012/08	2019-12-18	Mid-Ebb	SR7	Fine	Moderate	18:09	4.3	Surface	1	2	20.6	8	32	6.9	5.5	8.9
TMCLKL	HY/2012/08	2019-12-18	Mid-Ebb	SR7	Fine	Moderate	18:09	4.3	Middle	2	1						
TMCLKL	HY/2012/08	2019-12-18	Mid-Ebb	SR7	Fine	Moderate	18:09	4.3	Middle	2	2						
TMCLKL	HY/2012/08	2019-12-18	Mid-Ebb	SR7	Fine	Moderate	18:09	4.3	Bottom	3	1	20.5	8.2	31.1	6.9	6.7	6.8
TMCLKL	HY/2012/08	2019-12-18	Mid-Ebb	SR7	Fine	Moderate	18:09	4.3	Bottom	3	2	20.6	8	32.1	6.9	6.8	7.6
TMCLKL	HY/2012/08	2019-12-18	Mid-Ebb	IS17	Fine	Moderate	17:01	7.9	Surface	1	1	20.5	8.1	31.1	6.9	6.8	12.7
TMCLKL	HY/2012/08	2019-12-18	Mid-Ebb	IS17	Fine	Moderate	17:01	7.9	Surface	1	2	20.5	8	32	6.8	6.5	11.8
TMCLKL	HY/2012/08	2019-12-18	Mid-Ebb	IS17	Fine	Moderate	17:01	7.9	Middle	2	1	20.5	8 2	31.2	6.8	7	9.1
TMCLKL	HY/2012/08	2019-12-18	Mid-Ebb	IS17	Fine	Moderate	17:01	7.9	Middle	2	2	20.5	8.1	32.2	6.8	6.6	9.8
TMCLKL	HY/2012/08	2019-12-18	Mid-Ebb	IS17	Fine	Moderate	17:01	7.9	Bottom	3	1	20.4	8.2	31.4	6.9	6.2	9.6
TMCLKL	HY/2012/08	2019-12-18	Mid-Ebb	IS17			17:01	7.9		3	2	20.4	8.2	32.3		6.4	10
					Fine	Moderate			Bottom	1	1				6.8		
TMCLKL	HY/2012/08	2019-12-18	Mid-Flood	CS(Mf)5	Fine	Moderate	11:11	12	Surface	1	1	20.3	8.1	31.3	6.8	5.9	4.5
TMCLKL	HY/2012/08	2019-12-18	Mid-Flood	CS(Mf)5	Fine	Moderate	11:11	12	Surface	1	4	20.4	7.9	32.2	6.8	6.4	5.3
TMCLKL	HY/2012/08	2019-12-18	Mid-Flood	CS(Mf)5	Fine	Moderate	11:11	12	Middle	2	1	20.3	8.1	31.5	6.7	9.7	4.2
TMCLKL	HY/2012/08	2019-12-18	Mid-Flood	CS(Mf)5	Fine	Moderate	11:11	12	Middle	2	2	20.3	7.9	32.5	6.7	9.4	5.2
TMCLKL	HY/2012/08	2019-12-18	Mid-Flood	CS(Mf)5	Fine	Moderate	11:11	12	Bottom	3	1	20.3	8.1	31.5	6.7	12.7	4.4
TMCLKL	HY/2012/08	2019-12-18	Mid-Flood	CS(Mf)5	Fine	Moderate	11:11	12	Bottom	3	2	20.3	8	32.5	6.7	12.5	5.4
TMCLKL	HY/2012/08	2019-12-18	Mid-Flood	CS(Mf)3(N)	Fine	Moderate	12:00	6.8	Surface	1	1	20.5	8.1	29.7	6.9	8.7	9.5
TMCLKL	HY/2012/08	2019-12-18	Mid-Flood	CS(Mf)3(N)	Fine	Moderate	12:00	6.8	Surface	1	2	20.5	7.9	30.6	6.8	7.8	10
TMCLKL	HY/2012/08	2019-12-18	Mid-Flood	CS(Mf)3(N)	Fine	Moderate	12:00	6.8	Middle	2	1	20.4	8.1	29.9	6.9	8.5	9
TMCLKL	HY/2012/08	2019-12-18	Mid-Flood	CS(Mf)3(N)	Fine	Moderate	12:00	6.8	Middle	2	2	20.4	7.9	30.8	6.8	8.8	8
TMCLKL	HY/2012/08	2019-12-18	Mid-Flood	CS(Mf)3(N)	Fine	Moderate	12:00	6.8	Bottom	3	1	20.4	8.1	29.9	6.9	13.4	7.8
TMCLKL	HY/2012/08	2019-12-18	Mid-Flood	CS(Mf)3(N)	Fine	Moderate	12:00	6.8	Bottom	3	2	20.4	7.9	30.9	6.8	14	8.7
TMCLKL	HY/2012/08		Mid-Flood	IS(Mf)16	Fine		12:49	5.6	Surface	1	1	20.5	8.2	31	6.9	9.7	12.2
TMCLKL	HY/2012/08		Mid-Flood	IS(Mf)16	Fine	Moderate	12:49	5.6	Surface	1	2	20.5	8	31.9	6.9	9.2	11.9
	HY/2012/08		Mid-Flood	IS(Mf)16	Fine	Moderate		5.6		2	1 <u>-</u> 11		†		1		1
LIVIOLICE	111/2012/00	LO10 12-10	Invita i 100u			Infodulate	12.73	10.0	Imidale	<u> </u>	1'	1			1	1	_1

Drainet	Contract	Dete	Tide	Ctat	Weether	Sea	Time	Water	Laval	Law Cod	Danlingto	Tamp(°C)		Calinity/ppt)	DO(m m/L)	Turkiditu/NITU	SS(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	2019-12-18	Mid-Flood	IS(Mf)16	Fine	Moderate	12:49	5.6	Middle	2	2						
TMCLKL	HY/2012/08	2019-12-18	Mid-Flood	IS(Mf)16	Fine	Moderate	12:49	5.6	Bottom	3	1	20.5	8.2	31.5	6.9	9.7	11
TMCLKL	HY/2012/08	2019-12-18	Mid-Flood	IS(Mf)16	Fine	Moderate	12:49	5.6	Bottom	3	2	20.5	8	32.5	6.8	9.2	10.3
TMCLKL	HY/2012/08	2019-12-18	Mid-Flood	SR4a	Fine	Moderate	13:01	4.3	Surface	1	1	20.6	8.2	31.6	6.8	6.7	7.7
TMCLKL	HY/2012/08	2019-12-18	Mid-Flood	SR4a	Fine	Moderate	13:01	4.3	Surface	1	2	20.7	8	32.5	6.8	6.2	8.6
TMCLKL	HY/2012/08	2019-12-18	Mid-Flood	SR4a	Fine	Moderate	13:01	4.3	Middle	2	1		<u> </u>				
TMCLKL	HY/2012/08	2019-12-18	Mid-Flood	SR4a	Fine	Moderate	13:01	4.3	Middle	2	2	00.5		04.7	0.0	0.0	0.4
TMCLKL	HY/2012/08	2019-12-18	Mid-Flood	SR4a SR4a	Fine	Moderate	13:01	4.3	Bottom	3	1	20.5	8.2	31.7	6.8	6.3	8.4
TMCLKL TMCLKL	HY/2012/08 HY/2012/08	2019-12-18 2019-12-18	Mid-Flood Mid-Flood	SR4(N2)	Fine Fine	Moderate	13:01 13:07	4.3	Bottom Surface	13	1	20.6 20.8	8.2	32.6 31.4	6.8	6.7 7.1	8.5 9.2
TMCLKL	HY/2012/08	2019-12-18	Mid-Flood	SR4(N2)	Fine	Moderate Moderate	13:07	3.5 3.5	Surface	11	2	20.8	8	32.4	6.9 6.9	6.5	8.5
TMCLKL	HY/2012/08	2019-12-18	Mid-Flood	SR4(N2)	Fine	Moderate	13:07	3.5	Middle	2	1	20.0	10	32.4	0.9	0.3	0.5
TMCLKL	HY/2012/08	2019-12-18	Mid-Flood	SR4(N2)	Fine	Moderate	13:07	3.5	Middle	2	2		+				+
TMCLKL	HY/2012/08	2019-12-18	Mid-Flood	SR4(N2)	Fine	Moderate	13:07	3.5	Bottom	3	1	20.8	8.2	31.5	6.9	7.2	9.4
TMCLKL	HY/2012/08	2019-12-18	Mid-Flood	SR4(N2)	Fine	Moderate	13:07	3.5	Bottom	3	2	20.8	8	32.5	6.9	6.9	8.9
TMCLKL	HY/2012/08	2019-12-18	Mid-Flood	IS8(N)	Fine	Moderate		3.3	Surface	1	1	20.7	8.2	31	7	5.6	7
TMCLKL	HY/2012/08	2019-12-18	Mid-Flood	IS8(N)	Fine	Moderate		3.3	Surface	1	2	20.7	8	32	7	5.2	6.8
TMCLKL	HY/2012/08	2019-12-18	Mid-Flood	IS8(N)	Fine	Moderate		3.3	Middle	2	1						
TMCLKL	HY/2012/08	2019-12-18	Mid-Flood	IS8(N)	Fine	Moderate		3.3	Middle	2	2						
TMCLKL	HY/2012/08	2019-12-18	Mid-Flood	IS8(N)	Fine	Moderate		3.3	Bottom	3	1	20.7	8.2	31.1	7	5.7	8
TMCLKL	HY/2012/08	2019-12-18	Mid-Flood	IS8(N)	Fine	Moderate	13:14	3.3	Bottom	3	2	20.7	8	32	7	5.4	7.8
TMCLKL	HY/2012/08	2019-12-18	Mid-Flood	IS(Mf)9	Fine	Moderate	13:22	3.1	Surface	1	1	20.5	8.2	31.5	6.8	11.3	10.6
TMCLKL	HY/2012/08	2019-12-18	Mid-Flood	IS(Mf)9	Fine	Moderate	13:22	3.1	Surface	1	2	20.6	8	32.5	6.8	10.3	9.9
TMCLKL	HY/2012/08	2019-12-18	Mid-Flood	IS(Mf)9	Fine	Moderate	13:22	3.1	Middle	2	1						
TMCLKL	HY/2012/08	2019-12-18	Mid-Flood	IS(Mf)9	Fine	Moderate	13:22	3.1	Middle	2	2						
TMCLKL	HY/2012/08	2019-12-18	Mid-Flood	IS(Mf)9	Fine	Moderate		3.1	Bottom	3	1	20.5	8.2	31.6	6.8	12.7	11.5
TMCLKL	HY/2012/08	2019-12-18	Mid-Flood	IS(Mf)9	Fine	Moderate	13:22	3.1	Bottom	3	2	20.5	8	32.5	6.8	11.9	10.7
TMCLKL	HY/2012/08	2019-12-18	Mid-Flood	IS(Mf)11	Fine	Moderate	12:32	11.8	Surface	1	1	20.4	8.2	30.7	6.9	6.1	5.1
TMCLKL	HY/2012/08	2019-12-18	Mid-Flood	IS(Mf)11	Fine	Moderate	12:32	11.8	Surface	1	2	20.4	8	31.6	6.9	6.6	6
TMCLKL	HY/2012/08	2019-12-18	Mid-Flood	IS(Mf)11	Fine	Moderate	12:32	11.8	Middle	2	1	20.4	8.2	30.8	6.9	7	6.2
TMCLKL	HY/2012/08	2019-12-18	Mid-Flood	IS(Mf)11	Fine	Moderate	12:32	11.8	Middle	2	2	20.4	8	31.8	6.9	6.9	6.7
TMCLKL	HY/2012/08	2019-12-18	Mid-Flood	IS(Mf)11	Fine	Moderate	12:32	11.8	Bottom	3	1	20.4	8.2	30.9	6.9	8.2	8.5
TMCLKL	HY/2012/08	2019-12-18	Mid-Flood	IS(Mf)11	Fine	Moderate	12:32	11.8	Bottom	3	2	20.4	8.1	31.8	6.9	7.3	9.4
TMCLKL	HY/2012/08	2019-12-18	Mid-Flood	SR7 SR7	Fine	Moderate	11:33	4	Surface	1	1	20.4	8.1 7.9	30.8	6.9	7.9	15.7 16.1
TMCLKL TMCLKL	HY/2012/08 HY/2012/08	2019-12-18 2019-12-18	Mid-Flood Mid-Flood	SR7	Fine Fine	Moderate Moderate	11:33 11:33	4	Surface Middle	12	1	20.5	17.9	31.7	6.9	7.4	16.1
TMCLKL	HY/2012/08	2019-12-18	Mid-Flood	SR7	Fine	Moderate	11:33	4	Middle	2	2		+				
TMCLKL	HY/2012/08	2019-12-18	Mid-Flood	SR7	Fine	Moderate	11:33	1	Bottom	3	1	20.4	8.2	31.2	6.9	7.8	12.9
TMCLKL	HY/2012/08	2019-12-18	Mid-Flood	SR7	Fine	Moderate	11:33	4	Bottom	3	2	20.4	7.9	32.1	6.8	7.2	11.7
TMCLKL	HY/2012/08	2019-12-18	Mid-Flood	IS17	Fine	Moderate		8.5	Surface	1	1	20.3	8.2	31.1	6.9	11.7	10.5
TMCLKL	HY/2012/08	2019-12-18	Mid-Flood	IS17	Fine	Moderate		8.5	Surface	1	2	20.3	8	32	6.9	10.6	10.8
TMCLKL	HY/2012/08	2019-12-18	Mid-Flood	IS17	Fine	Moderate	_	8.5	Middle	2	1	20.3	8.2	31.1	6.9	12.6	9.8
TMCLKL	HY/2012/08	2019-12-18	Mid-Flood	IS17	Fine	Moderate		8.5	Middle	2	2	20.3	8	32.1	6.9	11.2	10.2
TMCLKL	HY/2012/08	2019-12-18	Mid-Flood	IS17	Fine	Moderate		8.5	Bottom	3	1	20.3	8.2	31.1	6.9	12.8	13.1
TMCLKL	HY/2012/08	2019-12-18	Mid-Flood	IS17	Fine	Moderate	12:42	8.5	Bottom	3	2	20.3	8	32.1	7	11.8	12
TMCLKL	HY/2012/08	2019-12-20	Mid-Ebb	CS(Mf)5	Cloudy	Moderate	06:35	12.8	Surface	1	1	20.1	8	32.4	6.7	3.1	4.3
TMCLKL	HY/2012/08	2019-12-20	Mid-Ebb	CS(Mf)5	Cloudy	Moderate	06:35	12.8	Surface	1	2	20	8.1	31.5	6.8	3.1	4
TMCLKL	HY/2012/08	2019-12-20	Mid-Ebb	CS(Mf)5	Cloudy	Moderate	06:35	12.8	Middle	2	1	20.4	8	33.4	6.3	2.9	4.7
TMCLKL	HY/2012/08	2019-12-20	Mid-Ebb	CS(Mf)5	Cloudy	Moderate	06:35	12.8	Middle	2	2	20.3	8	32.4	6.3	2.8	4.2
TMCLKL	HY/2012/08	2019-12-20	Mid-Ebb	CS(Mf)5	Cloudy	Moderate	06:35	12.8	Bottom	3	[1	20.4	8	33.5	6.3	3.5	5.7
TMCLKL	HY/2012/08	2019-12-20	Mid-Ebb	CS(Mf)5	Cloudy	Moderate	06:35	12.8	Bottom	3	2	20.4	8	32.5	6.3	3.5	5.4
TMCLKL	HY/2012/08	2019-12-20	Mid-Ebb	CS(Mf)3(N)	Cloudy	Rough	07:26	7.1	Surface	1	1	20	8.1	31.4	6.7	3.6	5.4
TMCLKL	HY/2012/08	2019-12-20	Mid-Ebb	_ ` / ` /	Cloudy	Rough	07:26	17.1	Surface	11	2	20	8	32.3	6.7	3.3	4.9
TMCLKL	HY/2012/08	2019-12-20	Mid-Ebb	_ ` / ` /	Cloudy	Rough	07:26	17.1	Middle	2	17	20.2	8.1	32.2	6.5	2.4	3.8
TMCLKL	HY/2012/08	2019-12-20	Mid-Ebb		Cloudy	Rough	07:26	7.1	Middle	2	2	20.2	8	33.1	6.5	2.3	4.3
TMCLKL	HY/2012/08	2019-12-20	Mid-Ebb		Cloudy	Rough	07:26	7.1	Bottom	3 2	12	20.4	8.1	32.5	6.3	2.3	4
TMCLKL	HY/2012/08	2019-12-20	Mid-Ebb	CS(Mf)3(N)	Cloudy	Rough	07:26	/. 5	Bottom	3 1	1	20.4	8	33.5 32.2	6.3	2.3	4.2 11.6
TMCLKL TMCLKL	HY/2012/08 HY/2012/08	2019-12-20 2019-12-20	Mid-Ebb Mid-Ebb	IS(Mf)16 IS(Mf)16	Cloudy Cloudy	Moderate Moderate	08:02 08:02	5	Surface Surface	11		20.5	8.1	31.3	6.8	4.4	11.6
TMCLKL	HY/2012/08	2019-12-20	Mid-Ebb	IS(Mf)16	Cloudy	Moderate		5	Middle	2	1	20.0	10.1	01.0	0.0		11.3
	HY/2012/08	2019-12-20	Mid-Ebb		Cloudy	Moderate		5	Middle	2	2	+	+	 		+	+
LIVIOLINE	111/2012/00	LU 13" 12" LU	IIVIIU-LDD		Joioday	INIOUEIALE	100.02	اح	Imidale		14	1		<u> </u>	<u> </u>		

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			replicate					, , ,	
TMCLKL	HY/2012/08	2019-12-20	Mid-Ebb	IS(Mf)16	Cloudy	Moderate	08:02	5	Bottom	3	1	20.5	8	32.3	6.7	6.9	14
	HY/2012/08	2019-12-20	Mid-Ebb	IS(Mf)16	Cloudy	Moderate	08:02	5	Bottom	3	2	20.4	8.1	31.4	6.7	7.2	14.2
	HY/2012/08	2019-12-20		SR4a	Cloudy	Calm	-	4.2	Surface	1	1	20.2	8	32	6.7	3.7	6.6
TMCLKL	HY/2012/08	2019-12-20		SR4a	Cloudy	Calm	08:15	4.2	Surface	1	2	20.2	8.1	31.1	6.8	3.7	7
TMCLKL	HY/2012/08	2019-12-20	Mid-Ebb	SR4a	Cloudy	Calm	-	4.2	Middle	2	1		4				
TMCLKL	HY/2012/08	2019-12-20	Mid-Ebb	SR4a	Cloudy	Calm	08:15	4.2	Middle	2	2						
TMCLKL	HY/2012/08	2019-12-20		SR4a	Cloudy	Calm	08:15	4.2	Bottom	3	1	20.2	8	32	6.7	3.7	8.2
	HY/2012/08	2019-12-20	Mid-Ebb	SR4a	Cloudy	Calm	08:15	4.2	Bottom	3	2	20.2	8.1	31.1	6.8	3.9	8.9
	HY/2012/08	2019-12-20	Mid-Ebb	SR4(N2)	Cloudy	Calm		3.9	Surface	1	1	20.4	8	32.1	6.5	6.6	9.5
	HY/2012/08	2019-12-20	Mid-Ebb	SR4(N2)	Cloudy	Calm		3.9	Surface	1	2	20.4	8.1	31.2	6.5	7.3	9.6
TMCLKL	HY/2012/08	2019-12-20	Mid-Ebb	SR4(N2)	Cloudy	Calm		3.9	Middle	2	1	ļ					
	HY/2012/08	2019-12-20	Mid-Ebb	SR4(N2)	Cloudy	Calm		3.9	Middle	2	2	100.4		00.4			
TMCLKL	HY/2012/08	2019-12-20	Mid-Ebb	SR4(N2)	Cloudy	Calm		3.9	Bottom	3	1	20.4	8	32.1	6.5	6.7	11.7
TMCLKL	HY/2012/08	2019-12-20	Mid-Ebb	SR4(N2)	Cloudy	Calm		3.9	Bottom	3	2	20.4	8.1	31.2	6.5	7.4	11.4
TMCLKL	HY/2012/08	2019-12-20	Mid-Ebb	IS8(N)	Cloudy	Calm		3.6	Surface	1	1	20.2	8	31.9	6.7	5.2	7.8
	HY/2012/08	2019-12-20	Mid-Ebb	IS8(N)	Cloudy	Calm		3.6	Surface	1	2	20.2	8.1	31	6.8	5.6	7.8
	HY/2012/08	2019-12-20	Mid-Ebb	IS8(N)	Cloudy	Calm	08:28	3.6	Middle	2	1		+				
TMCLKL	HY/2012/08	2019-12-20	Mid-Ebb	IS8(N)	Cloudy	Calm	08:28	3.6	Middle	2	2	00.4	 	00.4	0.7	0.5	17.0
	HY/2012/08	2019-12-20	Mid-Ebb	IS8(N)	Cloudy	Calm		3.6	Bottom	3	1	20.4	8	32.1	6.7	8.5	7.6
TMCLKL	HY/2012/08	2019-12-20	Mid-Ebb	IS8(N)	Cloudy	Calm	08:28	3.6	Bottom	3	2	20.4	8.2	31.2	6.7	9.1	8
TMCLKL	HY/2012/08	2019-12-20	Mid-Ebb	IS(Mf)9	Cloudy	Calm		3.1	Surface	1	1	20.4	8	32.1	6.7	5	6.7
TMCLKL	HY/2012/08	2019-12-20	Mid-Ebb	IS(Mf)9	Cloudy	Calm			Surface	1	2	20.3	8.1	31.2	6.8	5.2	6.4
	HY/2012/08	2019-12-20	Mid-Ebb	IS(Mf)9	Cloudy	Calm		3.1	Middle	2	1	ļ					
TMCLKL	HY/2012/08	2019-12-20	Mid-Ebb	IS(Mf)9	Cloudy	Calm		3.1	Middle	2	2	00.4		00.4		1.0	
TMCLKL	HY/2012/08	2019-12-20	Mid-Ebb	IS(Mf)9	Cloudy	Calm		3.1	Bottom	3	1	20.4	8	32.1	6.7	4.9	7.3
	HY/2012/08	2019-12-20	Mid-Ebb	IS(Mf)9	Cloudy	Calm		3.1	Bottom	3	2	20.3	8.1	31.2	6.8	5.3	7.3
TMCLKL	HY/2012/08	2019-12-20	Mid-Ebb	IS(Mf)11	Cloudy	Moderate	07:47	11.1	Surface	1	1	20.1	8.1	30.7	6.8	3.3	4.9
	HY/2012/08	2019-12-20	Mid-Ebb	IS(Mf)11	Cloudy	Moderate		11.1	Surface	1	2	20.2	8	31.6	6.7	3.2	4.6
	HY/2012/08	2019-12-20	Mid-Ebb	IS(Mf)11	Cloudy	Moderate		11.1	Middle	2	1	20.3	8.1	31.4	6.6	3.3	5.3
	HY/2012/08	2019-12-20		IS(Mf)11	Cloudy	Moderate		11.1	Middle	2	2	20.4	8	32.3	6.6	3.2	5.7
	HY/2012/08	2019-12-20		IS(Mf)11	Cloudy	Moderate		11.1	Bottom	3	1	20.4	8.1	31.7	6.4	6.6	6.9
	HY/2012/08	2019-12-20		IS(Mf)11	Cloudy	Moderate		11.1	Bottom	3	2	20.5	8	32.6	6.4	6	7.2
	HY/2012/08			SR7	Cloudy	Moderate		4.3	Surface	1	1	20	8.1	31.4	6.8	3.4	5.2
	HY/2012/08	2019-12-20		SR7	Cloudy	Moderate		4.3	Surface	1	2	20	8	32.3	6.8	3.2	4.8
	HY/2012/08	2019-12-20		SR7	Cloudy	Moderate		4.3	Middle	2	1		+				
	HY/2012/08	2019-12-20		SR7	Cloudy	Moderate	06:56	4.3	Middle	2	2	00.0	10.4	00.0	0.0	0.0	0.5
	HY/2012/08	2019-12-20		SR7	Cloudy	Moderate		4.3	Bottom	3	1	20.2	8.1	32.2	6.6	2.2	6.5
	HY/2012/08	2019-12-20		SR7	Cloudy	Moderate	06:56	4.3	Bottom	3	2	20.2	8	33.1	6.5	2.3	6.7
	HY/2012/08	2019-12-20		IS17	Cloudy	Moderate		10.4	Surface	1	1	20.2	8	31.5	6.9	3.2	5.1
	HY/2012/08	2019-12-20		IS17	Cloudy	Moderate		10.4	Surface	1	2	20.1	8.1	30.6	6.9	3.2	4.7
	HY/2012/08	2019-12-20		IS17	Cloudy	Moderate	07:57	10.4	Middle	2	1	20.4	8	32.4	6.5	3.5	4.9
	HY/2012/08			IS17 IS17	Cloudy	Moderate		10.4	Middle	2	1	20.4	8.1	31.5	6.6	3.6	4.4
	HY/2012/08	2019-12-20			Cloudy Cloudy	Moderate	07:57 07:57	10.4	Bottom	2	2	20.5	8	32.6 31.7	6.4	6.6	4.5
	HY/2012/08	2019-12-20			Fine	Moderate Moderate	15:07	10.4	Bottom Surface	1	1	20.4	8.1 8	32.6	6.5 6.7	6.9	4.8
	HY/2012/08	2019-12-20		CS(Mf)5		Moderate Moderate		12.2 12.2		1	2			31.7	6.8		4.8
	HY/2012/08	_		CS(Mf)5	Fine	Moderate Moderate	15:07		Surface	2	1	20.5	8.1			2.4	4.5
	HY/2012/08	2019-12-20	Mid-Flood	CS(Mf)5	Fine	Moderate	15:07	12.2	Middle Middle	2	2	20.4	8	33.4	6.3	3.7	5.7
	HY/2012/08	2019-12-20	Mid-Flood	CS(Mf)5	Fine	Moderate	15:07	12.2		2	1	20.3	8.1	32.5	6.3 6.3	6.6	6.1
	HY/2012/08	2019-12-20	Mid-Flood	CS(Mf)5	Fine Fine	Moderate	15:07 15:07	12.2 12.2	Bottom	2	2	20.4	8.1	33.5	6.3	7.2	5.9
	HY/2012/08 HY/2012/08	2019-12-20	Mid-Flood	CS(Mf)5		Moderate		7	Bottom	1	1	20.3		32.5 31.2			
	HY/2012/08 HY/2012/08	2019-12-20		CS(Mf)3(N) CS(Mf)3(N)	Fine Fine	Rough	14:11 14:11	7	Surface Surface	1	2		8.1	30.3	7.1	5.1 5.2	7.1
	HY/2012/08 HY/2012/08	2019-12-20 2019-12-20		CS(Mf)3(N)		Rough	14:11	7	Middle	2	1	20.4	8.1	31.2	7	5.2 5.1	7.1
	HY/2012/08	2019-12-20	Mid-Flood	CS(Mf)3(N)	Fine Fine	Rough	14:11	7	Middle	2	2	20.4	8.1	30.3	7 1	5.6	7.5
	HY/2012/08	2019-12-20		CS(Mf)3(N)	Fine	Rough	14:11	7	Bottom	2	1	20.4	8	31.2	7	6.1	9.2
	HY/2012/08	2019-12-20	Mid-Flood	CS(Mf)3(N)	Fine	Rough Rough	14:11	7	Bottom	3	2	20.3	8.1	30.3	7	6.4	8.9
-	HY/2012/08	2019-12-20	Mid-Flood	IS(Mf)16	Fine	Moderate	1	5.5	Surface	1	1	20.3	8	32.3	6.7	4.5	6.7
	HY/2012/08	2019-12-20	Mid-Flood	IS(Mf)16	Fine		+	5.5	Surface	1	2	20.6	8.1	31.4	6.7	4.6	6.2
	HY/2012/08				Fine	Moderate Moderate	+	5.5	Middle	2	1	20.0	0.1	J1. 4	0.7	17.0	0.2
	HY/2012/08	2019-12-20		IS(Mf)16	Fine	Moderate		5.5	Middle	2	2	+	+	+	+	+	+
				` '	Fine		+			2	1	20.6	0	32.3	6.7	8.2	6.4
LINICENE	HY/2012/08	2019-12-20	Mid-Flood	IS(Mf)16	h.ine	Moderate	13:26	5.5	Bottom	ြ	[1	20.6	8	JJZ.J	JO.1	J0.2	6.4

Project	Contract	Date	Tide	Stat	Weather	Sea	Time	Water	Lovol	Lev_Cod	Replicate	Temp(°C)	рН	Salinity(nnt)	DO(ma/L)	Turbidity(NTU)	SS(mg/L)
Project	Contract	Date	ride	Stat	vveatrier	Condition	Tille	Depth	Level	Lev_Cou	Replicate	Temp(C)	рп	Salinity(ppt)	DO(mg/L)	Turbidity(NTO)	SS(mg/L)
TMCLKL	HY/2012/08	2019-12-20	Mid-Flood	IS(Mf)16	Fine	Moderate	13:26	5.5	Bottom	3	2	20.6	8.1	31.4	6.7	8.4	6
TMCLKL	HY/2012/08	2019-12-20	Mid-Flood	SR4a	Fine	Calm	13:12	4.4	Surface	1	1	20.8	8	32	6.9	3.8	6.1
TMCLKL	HY/2012/08	2019-12-20	Mid-Flood	SR4a	Fine	Calm	13:12	4.4	Surface	1	2	20.7	8.1	31.1	6.9	4	6.2
TMCLKL	HY/2012/08	2019-12-20	Mid-Flood	SR4a	Fine	Calm	13:12	4.4	Middle	2	1						
TMCLKL	HY/2012/08	2019-12-20	Mid-Flood	SR4a	Fine	Calm	13:12	4.4	Middle	2	2						
TMCLKL	HY/2012/08	2019-12-20	Mid-Flood	SR4a	Fine	Calm	13:12	4.4	Bottom	3	1	20.4	8	32.1	6.7	6.7	7.6
TMCLKL	HY/2012/08	2019-12-20	Mid-Flood	SR4a	Fine	Calm	13:12	4.4	Bottom	3	2	20.3	8.1	31.2	6.7	7.4	7.1
TMCLKL	HY/2012/08	2019-12-20	Mid-Flood	SR4(N2)	Fine	Calm	13:06	4.1	Surface	1	1	20.8	8	32	6.8	4.5	7
TMCLKL	HY/2012/08	2019-12-20	Mid-Flood	SR4(N2)	Fine	Calm	13:06	4.1	Surface	1	2	20.7	8.1	31.1	6.9	4.8	6.6
TMCLKL	HY/2012/08	2019-12-20	Mid-Flood	SR4(N2)	Fine	Calm	13:06	4.1	Middle	2	1		<u> </u>				
TMCLKL	HY/2012/08	2019-12-20	Mid-Flood	SR4(N2)	Fine	Calm	13:06	4.1	Middle	2	2		<u> </u>	00.4			
TMCLKL	HY/2012/08	2019-12-20	Mid-Flood	SR4(N2)	Fine	Calm	13:06	4.1	Bottom	3	1	20.5	8	32.1	6.7	5.5	7.6
TMCLKL	HY/2012/08	2019-12-20	Mid-Flood	SR4(N2)	Fine	Calm	13:06	4.1	Bottom	3	2	20.4	8.1	31.2	6.7	6	8
TMCLKL	HY/2012/08	2019-12-20	Mid-Flood	IS8(N)	Fine	Calm	12:57	3.7	Surface	1	1	20.6	8	32.1	6.8	7.1	9.5
TMCLKL	HY/2012/08	2019-12-20	Mid-Flood	IS8(N)	Fine	Calm	12:57	3.7	Surface	1	2	20.5	8.1	31.2	6.8	7	9.8
TMCLKL	HY/2012/08	2019-12-20	Mid-Flood	IS8(N)	Fine	Calm		3.7	Middle	2	11		1				
TMCLKL	HY/2012/08	2019-12-20	Mid-Flood	IS8(N)	Fine	Calm		3.7	Middle	2	2	00.0		00.4		0.4	10.4
TMCLKL	HY/2012/08	2019-12-20	Mid-Flood	IS8(N)	Fine	Calm		3.7	Bottom	3	1	20.6	8	32.1	6.8	8.1	12.4
TMCLKL	HY/2012/08	2019-12-20	Mid-Flood	IS8(N)	Fine	Calm		3.7	Bottom	3	2	20.5	8.1	31.2	6.8	9.2	12.1
TMCLKL	HY/2012/08	2019-12-20	Mid-Flood	IS(Mf)9	Fine	Calm	12:50	3.2	Surface	1	1	20.7	8	32.2	6.8	7.8	13.5
TMCLKL	HY/2012/08	2019-12-20	Mid-Flood	IS(Mf)9	Fine	Calm	12:50	3.2	Surface	1	2	20.6	8.2	31.3	6.8	8.4	13.3
TMCLKL	HY/2012/08	2019-12-20	Mid-Flood	IS(Mf)9	Fine	Calm	12:50	3.2	Middle	2	1	+		-		1	+
TMCLKL	HY/2012/08	2019-12-20	Mid-Flood	IS(Mf)9	Fine	Calm	12:50	3.2	Middle	2	2	00.0		00.0			1110
TMCLKL	HY/2012/08	2019-12-20	Mid-Flood	IS(Mf)9	Fine	Calm	12:50	3.2	Bottom	3	1	20.6	8.1	32.2	6.7	8.4	11.2
TMCLKL	HY/2012/08	2019-12-20	Mid-Flood	IS(Mf)9	Fine	Calm	12:50	3.2	Bottom	3	2	20.5	8.2	31.3	6.8	9.8	10.9
TMCLKL	HY/2012/08	2019-12-20	Mid-Flood	IS(Mf)11	Fine	Rough	13:44	11.2	Surface	1	1	20.6	8	31.7	6.9	5.5	7.4
TMCLKL	HY/2012/08	2019-12-20	Mid-Flood	IS(Mf)11	Fine	Rough	13:44	11.2	Surface	1	2	20.6	8.1	30.8	/	6.3	7.6
TMCLKL	HY/2012/08	2019-12-20	Mid-Flood	IS(Mf)11	Fine	Rough	13:44	11.2	Middle	2	1	20.5	8	32	6.7	8.3	8
TMCLKL	HY/2012/08	2019-12-20	Mid-Flood	IS(Mf)11	Fine	Rough	13:44	11.2	Middle	2	2	20.5	8.1	31.1	6.7	9.6	7.7
TMCLKL	HY/2012/08	2019-12-20	Mid-Flood	IS(Mf)11	Fine	Rough	13:44	11.2	Bottom	3	1	20.5	8	32.5	6.5	12	8.9
TMCLKL	HY/2012/08	2019-12-20	Mid-Flood	IS(Mf)11	Fine	Rough	13:44	11.2	Bottom	3	2	20.4	8.1	31.5	6.5	12	8.7
TMCLKL	HY/2012/08	2019-12-20	Mid-Flood	SR7	Fine	Rough	14:45	4.1	Surface	1	1	20.6	8	32	6.8	3.8	1.7
TMCLKL	HY/2012/08	2019-12-20	Mid-Flood	SR7	Fine	Rough		4.1	Surface	1	2	20.5	8.1	31.1	6.8	4	8.3
TMCLKL	HY/2012/08	2019-12-20	Mid-Flood	SR7	Fine	Rough		4.1	Middle	2	1		1				
TMCLKL	HY/2012/08	2019-12-20	Mid-Flood	SR7	Fine	Rough		4.1	Middle	2	4	20.5	0	22.2	6.7	F 4	6.2
TMCLKL	HY/2012/08 HY/2012/08	2019-12-20	Mid-Flood Mid-Flood	SR7 SR7	Fine Fine	Rough	14:45 14:45	4.1	Bottom	3	12	20.5	8.1	32.2 31.3	6.7 6.7	5.4	6.2
TMCLKL		2019-12-20	Mid-Flood	IS17		Rough		+	Bottom	3	1	20.5	8	+	6.7	5.6	4 7
TMCLKL	HY/2012/08	2019-12-20			Fine	Rough	13:34	10.8	Surface	1	11		8.1	32	_	3.6	4.7
TMCLKL	HY/2012/08	2019-12-20	Mid-Flood	IS17	Fine	Rough	13:34	10.8	Surface	1	4	20.5		31.1	6.8	3.8	4.4
TMCLKL TMCLKL	HY/2012/08 HY/2012/08	2019-12-20 2019-12-20	Mid-Flood Mid-Flood	IS17 IS17	Fine Fine	Rough Rough	13:34 13:34	10.8	Middle Middle	2	2	20.4	8.1	32.3 31.4	6.6 6.6	4.3	5.9
		_		IS17				+	-	2	1	20.4	8	32.7		7.8	6.2
TMCLKL TMCLKL	HY/2012/08 HY/2012/08	2019-12-20	Mid-Flood Mid-Flood	IS17	Fine Fine	Rough Rough	13:34 13:34	10.8	Bottom Bottom	3	2	20.5	8.1	31.8	6.3 6.4	8	6.2 6.5
TMCLKL	HY/2012/08	2019-12-20	Mid-Flood Mid-Ebb	CS(Mf)5		Moderate	09:28	12.5	Surface	1	1	19.3	8.2	33.5	7.2	3.6	7.6
TMCLKL	HY/2012/08	2019-12-23	Mid-Ebb	CS(Mf)5	Foggy Foggy	Moderate	09:28	12.5	Surface	1	2	19.3	8	33.5	7.2	3.6	7
TMCLKL	HY/2012/08	2019-12-23	Mid-Ebb	CS(Mf)5	Foggy	Moderate	09:28	12.5	Middle	2	1	19.3	8.2	33.5	7.2	3.7	6.4
TMCLKL	HY/2012/08	2019-12-23	Mid-Ebb	CS(Mf)5	Foggy	Moderate	09:28	12.5	Middle	2	2	19.3	8	33.5	7.2	3.7	6.7
TMCLKL	HY/2012/08	2019-12-23	Mid-Ebb	CS(Mf)5	Foggy	Moderate	09:28	12.5	Bottom	3	1	19.3	8.2	33.5	7.2	3.8	6.4
TMCLKL	HY/2012/08	2019-12-23	Mid-Ebb	CS(Mf)5	Foggy	Moderate	09:28	12.5	Bottom	3	2	19.3	8	33.5	7.2	3.8	6.5
TMCLKL	HY/2012/08	2019-12-23	Mid-Ebb	CS(Mf)3(N)	Cloudy	Rough	10:18	7 1	Surface	1	1	19.3	8.2	32.2	7.6	4.4	8 1
TMCLKL	HY/2012/08	2019-12-23	Mid-Ebb		Cloudy	Rough		7.1	Surface	1	2	19.3	8	32.2	7.6	4.4	7 7
TMCLKL	HY/2012/08	2019-12-23	Mid-Ebb	CS(Mf)3(N)	Cloudy	Rough	10:18	7.1	Middle	2	1	19.3	8.2	32.2	7.6	4.3	9.4
TMCLKL	HY/2012/08	2019-12-23	Mid-Ebb		Cloudy	Rough	10:18	7.1	Middle	2	2	19.3	8	32.2	7.6	4.3	9
TMCLKL	HY/2012/08	2019-12-23	Mid-Ebb		Cloudy	Rough	10:18	7.1	Bottom	3	1	19.3	8.2	32.6	7.6	8.1	13.3
TMCLKL	HY/2012/08	2019-12-23	Mid-Ebb		Cloudy	Rough		7.1	Bottom	3	2	19.2	8	32.6	7.6	8.2	13.8
TMCLKL	HY/2012/08	2019-12-23	Mid-Ebb	IS(Mf)16	Cloudy	Moderate		5.2	Surface	1	1	19.3	8.2	33.2	7.3	8.7	13.8
TMCLKL	HY/2012/08	2019-12-23	Mid-Ebb	IS(Mf)16	Cloudy	Moderate	11:07	5.2	Surface	1	2	19.3	8	33.2	7.3	8.8	13.3
TMCLKL	HY/2012/08	2019-12-23	Mid-Ebb	IS(Mf)16	Cloudy	Moderate	11:07	5.2	Middle	2	1	10.0	╁	30.2	1.5	10.0	10.0
	HY/2012/08	2019-12-23	Mid-Ebb	IS(Mf)16	Cloudy	Moderate		5.2	Middle	2	2	†		1	+	1	+
TMCLKL	HY/2012/08	2019-12-23	Mid-Ebb	IS(Mf)16	Cloudy	Moderate		5.2	Bottom	3	11	19.3	8.2	33.1	7.3	14.5	16.1
	HY/2012/08	2019-12-23	Mid-Ebb		Cloudy	Moderate		5.2	•	3	2	19.3	8	33.1	7.3	14.3	16.4
LINCLIKE	1 , 20 12, 00	1-010 12 20	14110 200	1.0(1411) 10	10.000	inodorato	1	10.2	120110111	12	<u></u>	1.0.0	1~	100.1	1	1	1.0.1

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		LCV_OOU	Replicate		<u> </u>		DO(mg/L)		
TMCLKL	HY/2012/08	2019-12-23	Mid-Ebb	SR4a	Cloudy	Calm	11:21	4.3	Surface	1	1	19.6	8.2	33.2	7.3	4.8	7.5
TMCLKL	HY/2012/08	2019-12-23	Mid-Ebb	SR4a	Cloudy	Calm		4.3	Surface	1	2	19.6	8	33.2	7.3	4.8	7.9
TMCLKL	HY/2012/08	2019-12-23	Mid-Ebb	SR4a	Cloudy	Calm		4.3	Middle	2	1		<u> </u>				
TMCLKL	HY/2012/08	2019-12-23	Mid-Ebb	SR4a	Cloudy	Calm		4.3	Middle	2	2	10.4		00.0	7.0	0.4	
TMCLKL	HY/2012/08	2019-12-23	Mid-Ebb	SR4a	Cloudy	Calm		4.3	Bottom	3	11	19.4	8.2	33.2	7.2	9.1	11.4
TMCLKL	HY/2012/08	2019-12-23	Mid-Ebb	SR4a	Cloudy	Calm	11:21	4.3	Bottom	3	2	19.4	8	33.2	7.2	9.8	11.7
TMCLKL	HY/2012/08	2019-12-23	Mid-Ebb	SR4(N2)	Cloudy	Calm	11:29	4	Surface	1	1	19.5	8.2	33	7.3	5.8	8.6
TMCLKL	HY/2012/08	2019-12-23	Mid-Ebb	SR4(N2)	Cloudy	Calm	11:29	4	Surface	1	2	19.5	8	33	7.3	5.9	8.3
TMCLKL	HY/2012/08	2019-12-23	Mid-Ebb	SR4(N2)	Cloudy	Calm	11:29	4	Middle	2	11		1				
TMCLKL	HY/2012/08	2019-12-23	Mid-Ebb	SR4(N2)	Cloudy	Calm	11:29	4	Middle	2	2	10.5		00	7.0	0.4	
TMCLKL	HY/2012/08	2019-12-23	Mid-Ebb	SR4(N2)	Cloudy	Calm	11:29	4	Bottom	3	1	19.5	8.2	33	7.2	6.1	9.2
TMCLKL	HY/2012/08	2019-12-23	Mid-Ebb	SR4(N2)	Cloudy	Calm	11:29	4	Bottom	3	2	19.5	8	33	7.2	6.2	9
TMCLKL	HY/2012/08	2019-12-23	Mid-Ebb	IS8(N)	Cloudy	Calm		3.7	Surface	1	11	19.5	8.2	33.1	7.3	6.3	9.6
TMCLKL	HY/2012/08	2019-12-23	Mid-Ebb	IS8(N)	Cloudy	Calm		3.7	Surface	1	2	19.5	8	33.1	7.3	6.4	9.9
TMCLKL	HY/2012/08	2019-12-23	Mid-Ebb	IS8(N)	Cloudy	Calm		3.7	Middle	2	1		<u> </u>				
TMCLKL	HY/2012/08	2019-12-23	Mid-Ebb	IS8(N)	Cloudy	Calm		3.7	Middle	2	2	10.5		00.4	7.0	0.5	7.0
TMCLKL	HY/2012/08	2019-12-23	Mid-Ebb	IS8(N)	Cloudy	Calm		3.7	Bottom	3	11	19.5	8.2	33.1	7.3	6.5	7.8
TMCLKL	HY/2012/08	2019-12-23	Mid-Ebb	IS8(N)	Cloudy	Calm		3.7	Bottom	3	2	19.5	8	33.1	7.3	6.6	7.6
TMCLKL	HY/2012/08	2019-12-23	Mid-Ebb	IS(Mf)9	Cloudy	Calm		3.3	Surface	1	1	19.5	8.2	33.1	7.4	4.2	6.8
TMCLKL	HY/2012/08	2019-12-23	Mid-Ebb	IS(Mf)9	Cloudy	Calm	_	3.3	Surface	1	2	19.5	8.2	33.1	7.4	4.2	6.5
TMCLKL	HY/2012/08	2019-12-23	Mid-Ebb	IS(Mf)9	Cloudy	Calm		3.3	Middle	2	1		<u> </u>				
TMCLKL	HY/2012/08	2019-12-23	Mid-Ebb	IS(Mf)9	Cloudy	Calm	_	3.3	Middle	2	2	1	ļ		<u> </u>		
TMCLKL	HY/2012/08	2019-12-23	Mid-Ebb	IS(Mf)9	Cloudy	Calm		3.3	Bottom	3	1	19.6	8.2	33.1	7.4	5.1	8.5
TMCLKL	HY/2012/08	2019-12-23	Mid-Ebb	IS(Mf)9	Cloudy	Calm		3.3	Bottom	3	2	19.6	8.2	33.1	7.4	5.2	8
TMCLKL	HY/2012/08	2019-12-23	Mid-Ebb	IS(Mf)11	Cloudy	Moderate		11.2	Surface	1	1	19.4	8.2	33.2	7.4	5.1	6.4
TMCLKL	HY/2012/08	2019-12-23	Mid-Ebb	_ ` ′	Cloudy	Moderate	10:52	11.2	Surface	1	2	19.4	8	33.2	7.4	5.2	6.7
TMCLKL	HY/2012/08	2019-12-23	Mid-Ebb	IS(Mf)11	Cloudy	Moderate	10:52	11.2	Middle	2	1	19.4	8.2	33.2	7.4	5	6.8
TMCLKL	HY/2012/08	2019-12-23	Mid-Ebb	IS(Mf)11	Cloudy	Moderate	10:52	11.2	Middle	2	2	19.4	8	33.2	7.4	5.4	7.1
TMCLKL	HY/2012/08	2019-12-23	Mid-Ebb	IS(Mf)11	Cloudy	Moderate	10:52	11.2	Bottom	3	1	19.4	8.2	33.1	7.3	6.4	8.1
TMCLKL	HY/2012/08	2019-12-23	Mid-Ebb	IS(Mf)11	Cloudy	Moderate	10:52	11.2	Bottom	3	2	19.3	8	33.1	7.3	6.6	8.7
TMCLKL	HY/2012/08	2019-12-23	Mid-Ebb	SR7	Foggy	Moderate	09:48	4.4	Surface	1	1	19.2	8.2	33.3	7.3	5.1	9.2
TMCLKL	HY/2012/08	2019-12-23	Mid-Ebb	SR7	Foggy	Moderate	09:48	4.4	Surface	1	2	19.2	8.1	33.3	7.3	5.1	8.7
TMCLKL	HY/2012/08	2019-12-23	Mid-Ebb	SR7	Foggy	Moderate		4.4	Middle	2	1		1				
TMCLKL	HY/2012/08	2019-12-23	Mid-Ebb	SR7	Foggy	Moderate		4.4	Middle	2	2	10.0		00.0	7.0	0.0	10.0
TMCLKL	HY/2012/08	2019-12-23	Mid-Ebb	SR7	Foggy	Moderate		4.4	Bottom	3	1	19.2	8.2	33.2	7.2	8.9	10.8
TMCLKL	HY/2012/08	2019-12-23	Mid-Ebb	SR7	Foggy	Moderate		4.4	Bottom	3	2	19.2	8.1	33.2	7.2	8.8	10.9
TMCLKL	HY/2012/08	2019-12-23	Mid-Ebb	IS17	Cloudy	Rough	11:00	10.8	Surface	1	1	19.3	8.2	33.2	7.3	7.6	10.1
TMCLKL	HY/2012/08	2019-12-23	Mid-Ebb	IS17	Cloudy	Rough	11:00	10.8	Surface	1	2	19.3	8	33.2	7.2	7.7	10.3
TMCLKL	HY/2012/08	2019-12-23	Mid-Ebb	IS17	Cloudy	Rough	11:00	10.8	Middle	2	1	19.3	8.2	33.2	7.2	7.9	12.8
TMCLKL	HY/2012/08	2019-12-23	Mid-Ebb	IS17	Cloudy	Rough	11:00	10.8	Middle	2	4	19.3	8	33.2	7.2	7.9	12.6
TMCLKL	HY/2012/08	2019-12-23	Mid-Ebb	IS17	Cloudy	Rough	11:00	10.8	Bottom	3	10	19.3	8.2	33.2	7.2	8.2	14.4
TMCLKL	HY/2012/08	2019-12-23	Mid-Ebb	IS17	Cloudy	Rough	11:00	10.8	Bottom	1	1	19.3	8	33.2	7.3	8.4	13.9
TMCLKL	HY/2012/08	2019-12-23	Mid-Flood	CS(Mf)5	Cloudy	Moderate	17:15	12.8	Surface	1	12	19.3	8.2	34	7	 5	0.1
TMCLKL	HY/2012/08	2019-12-23	Mid-Flood	CS(Mf)5	Cloudy	Moderate	17:15	12.8	Surface	2	1	19.3		34	7) 6.0	8.7
TMCLKL TMCLKL	HY/2012/08	2019-12-23	Mid-Flood	CS(Mf)5	Cloudy	Moderate Moderate	17:15 17:15	12.8	Middle Middle	2	2	19.3 19.3	8.2	34	7	6.2	11.8 11.5
	HY/2012/08	2019-12-23	Mid-Flood	CS(Mf)5	Cloudy	Moderate		12.8		2	1		8.2	34	7	6.1	
TMCLKL	HY/2012/08	2019-12-23	Mid-Flood Mid-Flood	CS(Mf)5 CS(Mf)5	Cloudy	Moderate	17:15 17:15	12.8 12.8	Bottom Bottom	2	12	19.4 19.4	8.2	33.9	7	8.8 8.9	13.7 13.1
TMCLKL	HY/2012/08 HY/2012/08	2019-12-23	Mid-Flood		Cloudy	Moderate Moderate		7.2		1	1	19.4	8.2	33.9 32.6	7.6	9.3	10
TMCLKL		2019-12-23	Mid-Flood		Cloudy	Moderate		7.2	Surface Surface	1	12	19.5	8.2	32.6	7.6	9.9	9.8
TMCLKL	HY/2012/08 HY/2012/08	2019-12-23	Mid-Flood		Cloudy	Moderate Moderate		7.2	Middle	2	1	19.5	8.2	32.6	7.6	14	11.5
TMCLKL TMCLKL	HY/2012/08 HY/2012/08	2019-12-23	Mid-Flood	CS(Mf)3(N) CS(Mf)3(N)	Cloudy	Moderate Moderate		7.2	Middle	2	2	19.5	8.2	32.6	7.6 7.6	13.4	11.8
TMCLKL	HY/2012/08 HY/2012/08	2019-12-23	Mid-Flood		Cloudy Cloudy	Moderate Moderate		7.2	Bottom	2	1	19.5	8.2	32.6	7.6	9.3	12.3
TMCLKL	HY/2012/08	2019-12-23	Mid-Flood		Cloudy	Moderate Moderate	16:15	7.2	Bottom	3	2	19.6	8.2	32.6	7.6	9.9	12.8
TMCLKL	HY/2012/08	2019-12-23	Mid-Flood		Cloudy		15:31	5.2	Surface	1	1	19.6	8	33.2	7.6	9.3	15.9
-						Moderate		+	Surface	1	12	19.4	8.2	33.2	_	9.3	16.3
TMCLKL	HY/2012/08	2019-12-23	Mid-Flood Mid-Flood	IS(Mf)16 IS(Mf)16	Cloudy Cloudy	Moderate Moderate	15:31 15:31	+	Middle	2	1	13.4	0.2	33.Z	7.3	Ja.3	10.3
TMCLKL TMCLKL	HY/2012/08					Moderate Moderate	+	1	+	2	2	+	+	+	+	+	+
	HY/2012/08 HY/2012/08	2019-12-23	Mid-Flood Mid-Flood	IS(Mf)16	Cloudy	Moderate Moderate	15:31 15:31	5.3	Middle Bottom	2	1	19.5	8	33.2	7.3	11.3	14
TMCLKL	HY/2012/08 HY/2012/08	2019-12-23	Mid-Flood		Cloudy Cloudy	Moderate	15:31		Bottom	2	12	19.5	8.2	33.2	7.3	11.1	13.7
	HY/2012/08 HY/2012/08				Cloudy			+		1	1	19.5	8	33.2	7.3	5.7	Ω Ω
LINICENE	T1/2012/08	2019-12-23	Mid-Flood	JON4a	Joiouuy	Calm	15:20	 4. ∠	Surface	[1	11	ט.צון	lo	ეა.∠	۱.۵	၂ ၁ . <i>1</i>	lo

TMCLKL IF TMCLK IF TMCLKL IF TMCLK IF TMCL	HY/2012/08 HY/2012/08 HY/2012/08	Date 2019-12-23 2019-12-23	Tide Mid-Flood	Stat SR4a	Weather	Condition	Time	Depth	Level	Lev_Cod	Replicate	Temp(°C)	рН	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
TMCLKL IF TMCLK IF TMCLKL IF TMCLKL IF TMCLK IF TM	HY/2012/08 HY/2012/08		Mid-Flood	QD/o			+					1					, ,
TMCLKL F TMCLKL F TMCLKL F TMCLKL F	HY/2012/08	2019-12-23			Cloudy	Calm		4.2	Surface	1	2	19.6	8.2	33.2	7.3	5.7	8.6
TMCLKL I TMCLKL I TMCLKL I			Mid-Flood	SR4a	Cloudy	Calm		4.2	Middle	2	1						
TMCLKL H TMCLKL H TMCLKL H		2019-12-23	Mid-Flood		Cloudy	Calm		4.2	Middle	2	2						
TMCLKL H	HY/2012/08	2019-12-23	Mid-Flood	SR4a	Cloudy	Calm		4.2	Bottom	3	1	19.6	8	33.2	7.3	7.7	9.9
TMCLKL I	HY/2012/08	2019-12-23	Mid-Flood		Cloudy	Calm	+	4.2	Bottom	3	2	19.6	8.2	33.2	7.3	7.8	10.2
	HY/2012/08	2019-12-23	Mid-Flood	SR4(N2)	Cloudy	Calm	15:13	4.1	Surface	1	1	19.7	8	33.1	7.4	6	7.1
	HY/2012/08	2019-12-23	Mid-Flood	SR4(N2)	Cloudy	Calm	15:13	4.1	Surface	1	2	19.7	8.2	33.1	7.4	5.9	6.7
	HY/2012/08	2019-12-23	Mid-Flood	SR4(N2)	Cloudy	Calm	15:13	4.1	Middle	2	1						
	HY/2012/08	2019-12-23	Mid-Flood	SR4(N2)	Cloudy	Calm	15:13	4.1	Middle	2	2	100		00.4	<u> </u>		
	HY/2012/08	2019-12-23	Mid-Flood	<u> </u>	Cloudy	Calm		4.1	Bottom	3	1	19.6	8	33.1	7.4	8.8	9.6
	HY/2012/08	2019-12-23	Mid-Flood	SR4(N2)	Cloudy	Calm		4.1	Bottom	3	2	19.6	8.2	33.1	7.4	8.5	9.3
	HY/2012/08	2019-12-23	Mid-Flood	IS8(N)	Cloudy	Calm		3.8	Surface	1	1	19.7	8	33.2	7.4	7.2	11.2
	HY/2012/08	2019-12-23	Mid-Flood	IS8(N)	Cloudy	Calm		3.8	Surface	1	2	19.7	8.2	33.2	7.4	7.1	11.1
	HY/2012/08	2019-12-23	Mid-Flood		Cloudy	Calm		3.8	Middle	2	1						
	HY/2012/08	2019-12-23	Mid-Flood		Cloudy	Calm		3.8	Middle	2	2				_		
	HY/2012/08	2019-12-23	Mid-Flood		Cloudy	Calm		3.8	Bottom	3	1	19.7	8	33.2	7.4	7.9	9.6
	HY/2012/08	2019-12-23	Mid-Flood	· · · ·	Cloudy	Calm		3.8	Bottom	3	2	19.7	8.2	33.2	7.4	8	9.3
	HY/2012/08	2019-12-23	Mid-Flood	IS(Mf)9	Cloudy	Calm		3.2	Surface	1	1	19.7	8.2	33.1	7.2	7.1	10.4
	HY/2012/08	2019-12-23	Mid-Flood	IS(Mf)9	Cloudy	Calm		3.2	Surface	1	2	19.7	8.2	33.1	7.2	7.3	10.8
	HY/2012/08	2019-12-23	Mid-Flood	IS(Mf)9	Cloudy	Calm	_	3.2	Middle	2	1	ļ	1		1		
	HY/2012/08	2019-12-23	Mid-Flood	IS(Mf)9	Cloudy	Calm		3.2	Middle	2	2						
	HY/2012/08	2019-12-23	Mid-Flood	IS(Mf)9	Cloudy	Calm	_	3.2	Bottom	3	1	19.6	8.2	33.1	7.2	8	13.5
	HY/2012/08	2019-12-23	Mid-Flood	IS(Mf)9	Cloudy	Calm	+	3.2	Bottom	3	2	19.7	8.2	33.1	7.2	7.5	13.6
	HY/2012/08	2019-12-23	Mid-Flood	IS(Mf)11	Cloudy	Rough		11.2	Surface	1	1	19.4	8	33.1	7.4	10.6	15
	HY/2012/08	2019-12-23	Mid-Flood	IS(Mf)11	Cloudy	Rough		11.2	Surface	1	2	19.4	8.2	33.1	7.4	10.6	15.6
	HY/2012/08	2019-12-23	Mid-Flood	IS(Mf)11	Cloudy	Rough		11.2	Middle	2	1	19.5	8.1	33.1	7.4	19.7	17.7
	HY/2012/08	2019-12-23	Mid-Flood	IS(Mf)11	Cloudy	Rough	15:52	11.2	Middle	2	2	19.5	8.2	33.1	7.4	18.9	18.4
TMCLKL I	HY/2012/08	2019-12-23	Mid-Flood	IS(Mf)11	Cloudy	Rough	15:52	11.2	Bottom	3	1	19.5	8.1	33.1	7.3	14.8	20.6
TMCLKL I	HY/2012/08	2019-12-23	Mid-Flood	IS(Mf)11	Cloudy	Rough		11.2	Bottom	3	2	19.5	8.2	33.1	7.3	14.8	20.5
TMCLKL I	HY/2012/08	2019-12-23	Mid-Flood	SR7	Cloudy	Moderate	16:51	4.2	Surface	1	1	19.5	8	33.2	7.4	7.5	10.6
TMCLKL I	HY/2012/08	2019-12-23	Mid-Flood	SR7	Cloudy	Moderate	16:51	4.2	Surface	1	2	19.5	8.2	33.2	7.4	7.5	10.8
TMCLKL I	HY/2012/08	2019-12-23	Mid-Flood	SR7	Cloudy	Moderate	16:51	4.2	Middle	2	1						
TMCLKL I	HY/2012/08	2019-12-23	Mid-Flood		Cloudy	Moderate	16:51	4.2	Middle	2	2						
TMCLKL I	HY/2012/08	2019-12-23	Mid-Flood	SR7	Cloudy	Moderate	16:51	4.2	Bottom	3	1	19.5	8	33.2	7.3	9.6	13.8
TMCLKL I	HY/2012/08	2019-12-23	Mid-Flood	SR7	Cloudy	Moderate	16:51	4.2	Bottom	3	2	19.5	8.2	33.2	7.3	9.6	14
TMCLKL I	HY/2012/08	2019-12-23	Mid-Flood	IS17	Cloudy	Rough	15:39	10.9	Surface	1	1	19.4	8	33.1	7.5	7.5	8.6
TMCLKL I	HY/2012/08	2019-12-23	Mid-Flood	IS17	Cloudy	Rough	15:39	10.9	Surface	1	2	19.4	8.2	33.1	7.5	7.3	8.9
TMCLKL I	HY/2012/08	2019-12-23	Mid-Flood	IS17	Cloudy	Rough	15:39	10.9	Middle	2	1	19.4	8	33.2	7.3	6.8	9.6
TMCLKL I	HY/2012/08	2019-12-23	Mid-Flood	IS17	Cloudy	Rough	15:39	10.9	Middle	2	2	19.4	8.2	33.2	7.3	6.8	9.7
TMCLKL I	HY/2012/08	2019-12-23	Mid-Flood	IS17	Cloudy	Rough	15:39	10.9	Bottom	3	1	19.4	8	33.1	7.4	8.7	13.4
TMCLKL I	HY/2012/08	2019-12-23	Mid-Flood	IS17	Cloudy	Rough	15:39	10.9	Bottom	3	2	19.4	8.2	33.1	7.4	8.6	13.6
	HY/2012/08	2019-12-27	Mid-Ebb	/	Fine	Moderate		11.8	Surface	1	1	21.2	8	30.4	7.3	4.6	6.8
	HY/2012/08	2019-12-27	Mid-Ebb	CS(Mf)5	Fine	Moderate		11.8	Surface	1	2	21.3	8	30.4	7.3	4.6	6.4
	HY/2012/08	2019-12-27	Mid-Ebb		Fine	Moderate		11.8	Middle	2	1	21.2	8	30.3	7.3	4.4	5.8
	HY/2012/08	2019-12-27	Mid-Ebb	CS(Mf)5	Fine	Moderate	14:00	11.8	Middle	2	2	21.2	8	30.4	7.3	4.4	6
	HY/2012/08	2019-12-27	Mid-Ebb	CS(Mf)5	Fine	Moderate		11.8	Bottom	3	1	21.3	8	30.3	7.3	14.8	5.5
	HY/2012/08	2019-12-27	Mid-Ebb	CS(Mf)5	Fine	Moderate		11.8	Bottom	3	2	21.3	8	30.3	7.3	14.8	5.6
	HY/2012/08	2019-12-27	Mid-Ebb		Fine	Moderate	13:16	8	Surface	1	1	20.2	8.1	29.3	7.5	9	13
	HY/2012/08	2019-12-27	Mid-Ebb		Fine	Moderate	13:16	8	Surface	1	2	20.2	8.1	29.3	7.5	9.1	13
	HY/2012/08	2019-12-27	Mid-Ebb		Fine	Moderate	13:16	8	Middle	2	1	20.3	8	29.3	7.5	8.1	12.3
	HY/2012/08	2019-12-27	Mid-Ebb	/ _ /	Fine	Moderate	13:16	8	Middle	2	2	20.3	8	29.3	7.5	8	12
	HY/2012/08	2019-12-27	Mid-Ebb		Fine	Moderate	13:16	8	Bottom	3	1	20.2	8	29.2	7.5	9.4	11
	HY/2012/08	2019-12-27	Mid-Ebb		Fine	Moderate	13:16	8	Bottom	3	2	20.3	8	29.2	7.5	9.3	10.6
	HY/2012/08	2019-12-27	Mid-Ebb	IS(Mf)16	Fine	Moderate	-	5.2	Surface	1	1	20.8	8.1	26.9	7.7	9.2	10.6
TMCLKL I	HY/2012/08	2019-12-27	Mid-Ebb		Fine	Moderate		5.2	Surface	1	2	20.8	8.1	26.9	7.7	9.2	11.1
TMCLKL I	HY/2012/08	2019-12-27	Mid-Ebb	IS(Mf)16	Fine	Moderate	12:36	5.2	Middle	2	1						
TMCLKL I	HY/2012/08	2019-12-27	Mid-Ebb	IS(Mf)16	Fine	Moderate	12:36	5.2	Middle	2	2						
TMCLKL I	HY/2012/08	2019-12-27	Mid-Ebb	IS(Mf)16	Fine	Moderate	12:36	5.2	Bottom	3	1	21	8.1	28.7	7.5	12.8	13.8
TMCLKL I	HY/2012/08	2019-12-27	Mid-Ebb	\ /	Fine	Moderate	12:00	5.2	Bottom	3	2	21	• • •	28.7	7.5	12.8	14.4
TMCLKL I	HY/2012/08	2019-12-27	Mid-Ebb	SR4a	Fine	Calm	12:26	4.5	Surface	1	1			26.8	7.7	12.3	6.8
TMCLKL I	HY/2012/08	2019-12-27	Mid-Ebb	SR4a	Fine	Calm		+	Surface	1	2	20.8		26.7	7.7	12.3	6

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	2019-12-27	Mid-Ebb	SR4a	Fine	Calm	12:26	4.5	Middle	2	1						
TMCLKL	HY/2012/08	2019-12-27	Mid-Ebb	SR4a	Fine	Calm		4.5	Middle	2	2		1				
TMCLKL	HY/2012/08	2019-12-27	Mid-Ebb	SR4a	Fine	Calm	12:26	4.5	Bottom	3	1	21.3	8.1	29.8	7.5	6.5	8.1
TMCLKL	HY/2012/08	2019-12-27	Mid-Ebb	SR4a	Fine	Calm	12:26	4.5	Bottom	3	2	21.3	8.1	29.8	7.5	6.5	8.3
TMCLKL	HY/2012/08	2019-12-27	Mid-Ebb	SR4(N2)	Fine	Calm	12:22	3.2	Surface	1	1	21.2	8.1	29.8	7.5	15.6	8.3
TMCLKL	HY/2012/08	2019-12-27	Mid-Ebb	SR4(N2)	Fine	Calm	12:22	3.2	Surface	1	2	21.2	8.1	29.8	7.5	15.6	8.4
TMCLKL	HY/2012/08	2019-12-27	Mid-Ebb	SR4(N2)	Fine	Calm	12:22	3.2	Middle	2	1						
TMCLKL	HY/2012/08	2019-12-27	Mid-Ebb	SR4(N2)	Fine	Calm	12:22	3.2	Middle	2	2						
TMCLKL	HY/2012/08	2019-12-27	Mid-Ebb	SR4(N2)	Fine	Calm	12:22	3.2	Bottom	3	1	21.2	8.1	29.7	7.6	9.4	6.8
TMCLKL	HY/2012/08	2019-12-27	Mid-Ebb	SR4(N2)	Fine	Calm	12:22	3.2	Bottom	3	2	21.2	8.1	29.7	7.6	9.3	6.6
TMCLKL	HY/2012/08	2019-12-27	Mid-Ebb	IS8(N)	Fine	Calm	12:17	4	Surface	1	1	21.6	8.1	29.7	7.5	5.4	6.8
TMCLKL	HY/2012/08	2019-12-27	Mid-Ebb	IS8(N)	Fine	Calm	12:17	4	Surface	1	2	21.6	8.1	29.7	7.5	5.6	6.7
TMCLKL	HY/2012/08	2019-12-27	Mid-Ebb	IS8(N)	Fine	Calm	12:17	4	Middle	2	1						
TMCLKL	HY/2012/08	2019-12-27	Mid-Ebb	IS8(N)	Fine	Calm	12:17	4	Middle	2	2						
TMCLKL	HY/2012/08	2019-12-27	Mid-Ebb	IS8(N)	Fine	Calm	12:17	4	Bottom	3	1	21.7	8.1	29.7	7.5	11.2	6.2
TMCLKL	HY/2012/08	2019-12-27	Mid-Ebb	IS8(N)	Fine	Calm	12:17	4	Bottom	3	2	21.7	8.1	29.7	7.5	11.1	6.1
TMCLKL	HY/2012/08	2019-12-27	Mid-Ebb	IS(Mf)9	Fine	Calm		2.9	Surface	1	1						
TMCLKL	HY/2012/08	2019-12-27	Mid-Ebb	IS(Mf)9	Fine	Calm		2.9	Surface	1	2						
TMCLKL	HY/2012/08	2019-12-27	Mid-Ebb	IS(Mf)9	Fine	Calm		2.9	Middle	2	1	20.7	7.7	29.1	7.5	6.4	7.1
TMCLKL	HY/2012/08	2019-12-27	Mid-Ebb	IS(Mf)9	Fine	Calm		2.9	Middle	2	2	20.7	7.7	29.1	7.5	6.5	7.7
TMCLKL	HY/2012/08	2019-12-27	Mid-Ebb	IS(Mf)9	Fine	Calm		2.9	Bottom	3	1						
TMCLKL	HY/2012/08	2019-12-27	Mid-Ebb	IS(Mf)9	Fine	Calm		2.9	Bottom	3	2						
TMCLKL	HY/2012/08	2019-12-27	Mid-Ebb	IS(Mf)11	Fine	Moderate		11.1	Surface	1	1	20.7	8	29.5	7.4	6	6.6
TMCLKL	HY/2012/08	2019-12-27	Mid-Ebb	IS(Mf)11	Fine	Moderate	12:50	11.1	Surface	1	2	20.7	8	29.5	7.4	5.8	6.6
TMCLKL	HY/2012/08	2019-12-27	Mid-Ebb	IS(Mf)11	Fine	Moderate	12:50	11.1	Middle	2	1	20.7	7.9	29.7	7.5	8.5	7.6
TMCLKL	HY/2012/08	2019-12-27	Mid-Ebb	IS(Mf)11	Fine	Moderate	12:50	11.1	Middle	2	2	20.7	7.9	29.7	7.5	8.1	7.3
TMCLKL	HY/2012/08	2019-12-27	Mid-Ebb	IS(Mf)11	Fine	Moderate	12:50	11.1	Bottom	3	1	20.6	7.9	29.7	7.5	10.4	8.7
TMCLKL	HY/2012/08	2019-12-27	Mid-Ebb	IS(Mf)11	Fine	Moderate	12:50	11.1	Bottom	3	2	20.6	7.9	29.7	7.5	10.5	8.4
TMCLKL	HY/2012/08	2019-12-27	Mid-Ebb	SR7	Fine	Calm	13:40	4.2	Surface	1	1	21.3	8	29.9	7.5	10.2	6.1
TMCLKL	HY/2012/08	2019-12-27	Mid-Ebb	SR7	Fine	Calm	13:40	4.2	Surface	1	2	21.2	8	29.9	7.5	10.5	5.8
TMCLKL	HY/2012/08	2019-12-27	Mid-Ebb	SR7	Fine	Calm		4.2	Middle	2	1						
TMCLKL	HY/2012/08	2019-12-27	Mid-Ebb	SR7	Fine	Calm		4.2	Middle	2	2					1.0 -	
TMCLKL	HY/2012/08	2019-12-27	Mid-Ebb	SR7	Fine	Calm		4.2	Bottom	3	1	21.8	8.1	29.7	7.5	13.5	6.5
TMCLKL	HY/2012/08	2019-12-27	Mid-Ebb	SR7	Fine	Calm		4.2	Bottom	3	2	21.7	8.1	29.8	7.6	13.4	6.9
TMCLKL	HY/2012/08	2019-12-27	Mid-Ebb	IS17	Fine	Calm		9.9	Surface	1	1	20.6	8	29.9	7.3	8.1	10.8
TMCLKL	HY/2012/08	2019-12-27	Mid-Ebb	IS17	Fine	Calm		9.9	Surface	1	2	20.6	8	29.9	7.3	7.9	11.3
TMCLKL	HY/2012/08	2019-12-27	Mid-Ebb	IS17	Fine	Calm		9.9	Middle	2	1	20.6	8	29.3	7.4	9	10.5
TMCLKL	HY/2012/08	2019-12-27	Mid-Ebb	IS17	Fine	Calm		9.9	Middle	2	2	20.6	8	29.3	7.4	8.8	10
TMCLKL	HY/2012/08	2019-12-27	Mid-Ebb	IS17	Fine	Calm		9.9	Bottom	3	1	20.6	8	29.8	7.3	11.3	8.8
TMCLKL	HY/2012/08	2019-12-27	Mid-Ebb	IS17	Fine	Calm		9.9	Bottom	3	2	20.5	8	29.8	7.3	12.3	8.8
TMCLKL	HY/2012/08	2019-12-27	Mid-Flood	CS(Mf)5	Fine	Moderate	07:57	12	Surface	1	1	20	8	30	7.3	6.3	7.4
TMCLKL	HY/2012/08	2019-12-27	Mid-Flood	CS(Mf)5	Fine	Moderate	07:57	12	Surface	1	2	20	8	30	7.3	6.2	7.3
TMCLKL	HY/2012/08	2019-12-27	Mid-Flood	CS(Mf)5	Fine	Moderate	07:57	12	Middle	2	12	20	8	30	7.3	6.4	7.5
TMCLKL	HY/2012/08	2019-12-27	Mid-Flood	CS(Mf)5	Fine	Moderate	07:57	12	Middle	2	1	20	8	30	7.3	5.9	7.6
TMCLKL	HY/2012/08	2019-12-27	Mid-Flood	CS(Mf)5	Fine	Moderate	07:57	12	Bottom	3	12	19.8	7.9	29.9	7.3	8.9 8.7	9.1
TMCLKL	HY/2012/08	2019-12-27	Mid-Flood	CS(Mf)5	Fine	Moderate		12	Bottom	1	1	19.9	7.9 8	29.9	7.3	11.9	8.8
TMCLKL	HY/2012/08	2019-12-27	Mid-Flood	CS(Mf)3(N)	Fine	Moderate	08:39	7	Surface	1	12	19.5	8	29.5 29.4	7.5	12.1	13.8
TMCLKL	HY/2012/08	2019-12-27	Mid-Flood		Fine	Moderate	08:39	7	Surface Middle	2	1	19.5	7.9		7.5	11.9	13 17.1
TMCLKL	HY/2012/08 HY/2012/08	2019-12-27 2019-12-27	Mid-Flood Mid-Flood		Fine	Moderate Moderate	08:39	7	Middle	2	2	19.1 19.1	7.9	29.4 29.4	7.5	11.8	17.1
TMCLKL	HY/2012/08 HY/2012/08	2019-12-27	Mid-Flood	CS(Mf)3(N)	Fine	Moderate Moderate		7	Bottom	2	1	18.9	7.7	28.8	7.5	15.7	19.1
TMCLKL TMCLKL	HY/2012/08 HY/2012/08	2019-12-27	Mid-Flood	CS(Mf)3(N)	Fine	Moderate Moderate	08:39 08:39	7	Bottom	2	2	18.9	7.7	28.8	7.6 7.6	15.7	18
TMCLKL	HY/2012/08 HY/2012/08	2019-12-27	Mid-Flood	IS(Mf)16	Fine Fine	Moderate Moderate		5.4	Surface	1	1	19.1	8.1	23	7.6	11.3	15.2
TMCLKL	HY/2012/08	2019-12-27	Mid-Flood	IS(Mf)16		Moderate		5.4	Surface	1	2	19.1	8.1	23	7.9	11.2	15.3
	HY/2012/08	2019-12-27	Mid-Flood	IS(Mf)16	Fine		09:23	5.4	Middle	2	1	13.1	0.1	23	۳. تا ا	11.4	10.0
TMCLKL			Mid-Flood	- ` '	Fine	Moderate Moderate			Middle	2	2	+	1				+
TMCLKL TMCLKL	HY/2012/08 HY/2012/08	2019-12-27 2019-12-27	Mid-Flood	IS(Mf)16 IS(Mf)16	Fine	Moderate Moderate	09:23 09:23	5.4 5.4	Bottom	2	1	19.2	8.1	23.3	7.0	11.9	16
TMCLKL	HY/2012/08 HY/2012/08	2019-12-27	Mid-Flood	IS(Mf)16	Fine Fine	Moderate Moderate	09:23		 	2	2	19.2	8.1	23.3	7.9 7.9	11.8	15.6
	HY/2012/08 HY/2012/08		Mid-Flood	SR4a	Fine	Moderate Moderate	09:23	5.4	Bottom Surface	1	1	19.7	8.1		7.9	9.5	9.9
	HY/2012/08	2019-12-27	Mid-Flood	SR4a	Fine	Moderate	_	4.6	Surface		2	19.7		27.3	7.6	9.4	10.2
	HY/2012/08	2019-12-27	Mid-Flood	SR4a	Fine	Moderate		4.6	+	2	1	13.0	0.1	۷.۱.۵	1.0	J. T	10.2
INICLAL	111/2012/00	12-11	IMIN-LIOON	J0114d	li iiie	Innonciale	ე სშ.პპ	۵.۴	Imidale	<u> </u>	[I			1		l	

					1	Sea		Water		I	1		T	<u> </u>			
Project	Contract	Date	Tide	Stat	Weather	Condition	Time		Level	Lev_Cod	Replicate	Temp(°C)	рН	Salinity(ppt)	DO(mg/L)	Turbidity(NTU)	SS(mg/L)
TMCLKI	LIV/2012/09	2010 12 27	Mid Flood	CD4e	Fine		00.22	Depth	Middle	12			+				
TMCLKL	HY/2012/08	2019-12-27	Mid-Flood	SR4a SR4a	Fine	Moderate	09:33	4.6	Middle	2	4	19.7	0.4	27.4	7 7	0.0	111
TMCLKL TMCLKL	HY/2012/08	2019-12-27 2019-12-27	Mid-Flood Mid-Flood	SR4a	Fine Fine	Moderate Moderate	09:33 09:33	4.6 4.6	Bottom Bottom	3	1	19.7	8.1	27.4	7.7 7.7	9.6 9.5	11.8
TMCLKL	HY/2012/08 HY/2012/08	2019-12-27	Mid-Flood	SR4(N2)	Fine	Moderate	09:38	3.2	Surface	1	1	19.7	ο. ι	29	7.5	7.4	10.6
TMCLKL	HY/2012/08	2019-12-27	Mid-Flood	SR4(N2)	Fine	Moderate	09:38	3.2	Surface	1	2	19.9	Ω	29	7.5	7.4	10.9
TMCLKL	HY/2012/08	2019-12-27	Mid-Flood	SR4(N2)	Fine	Moderate	09:38	3.2	Middle	2	1	13.3	۳	23	7.5	7.7	10.9
TMCLKL	HY/2012/08	2019-12-27	Mid-Flood	SR4(N2)	Fine	Moderate	09:38	3.2	Middle	2	2		+				+
TMCLKL	HY/2012/08	2019-12-27	Mid-Flood	SR4(N2)	Fine	Moderate	09:38	3.2	Bottom	3	1	19.9	8	29.1	7.5	8.2	9.4
TMCLKL	HY/2012/08	2019-12-27	Mid-Flood	SR4(N2)	Fine	Moderate	09:38	3.2	Bottom	3	2	19.9	8	29.1	7.5	8.1	8.8
TMCLKL	HY/2012/08	2019-12-27	Mid-Flood	IS8(N)	Fine	Calm	09:42	4.1	Surface	1	1	20	8	29.4	7.5	6.6	10.1
TMCLKL	HY/2012/08	2019-12-27	Mid-Flood	IS8(N)	Fine	Calm	09:42	4.1	Surface	1	2	20	8	29.4	7.5	6.7	10.5
TMCLKL	HY/2012/08	2019-12-27	Mid-Flood	IS8(N)	Fine	Calm	09:42	4.1	Middle	2	1		†		1.0		1000
TMCLKL	HY/2012/08	2019-12-27	Mid-Flood	IS8(N)	Fine	Calm	09:42	4.1	Middle	2	2						1
TMCLKL	HY/2012/08	2019-12-27	Mid-Flood	IS8(N)	Fine	Calm	09:42	4.1	Bottom	3	1	19.9	8	29.3	7.6	11.5	8.4
TMCLKL	HY/2012/08	2019-12-27	Mid-Flood	IS8(N)	Fine	Calm	09:42	4.1	Bottom	3	2	19.9	8	29.4	7.5	11.6	8.4
TMCLKL	HY/2012/08	2019-12-27	Mid-Flood	IS(Mf)9	Fine	Calm	09:49	2.8	Surface	1	1						
TMCLKL	HY/2012/08	2019-12-27	Mid-Flood	IS(Mf)9	Fine	Calm	09:49	2.8	Surface	1	2						
TMCLKL	HY/2012/08	2019-12-27	Mid-Flood	IS(Mf)9	Fine	Calm	09:49	2.8	Middle	2	1	19.5	8.1	29.5	7.5	7.6	9.4
TMCLKL	HY/2012/08	2019-12-27	Mid-Flood	IS(Mf)9	Fine	Calm	09:49	2.8	Middle	2	2	19.5	8.1	29.5	7.5	7.2	9.5
TMCLKL	HY/2012/08	2019-12-27	Mid-Flood	IS(Mf)9	Fine	Calm	09:49	2.8	Bottom	3	1		l				
TMCLKL	HY/2012/08	2019-12-27	Mid-Flood	IS(Mf)9	Fine	Calm	09:49	2.8	Bottom	3	2		Ţ				
TMCLKL	HY/2012/08	2019-12-27	Mid-Flood	IS(Mf)11	Fine	Moderate	09:09	11.2	Surface	1	1	20.2	8.1	29.6	7.5	10.3	13.2
TMCLKL	HY/2012/08	2019-12-27	Mid-Flood	IS(Mf)11	Fine	Moderate	09:09	11.2	Surface	1	2	20.2	8.1	29.6	7.5	10.2	13.3
TMCLKL	HY/2012/08	2019-12-27	Mid-Flood	IS(Mf)11	Fine	Moderate	09:09	11.2	Middle	2	1	20.1	8.1	29.6	7.5	11.4	14
TMCLKL	HY/2012/08	2019-12-27	Mid-Flood	IS(Mf)11	Fine	Moderate	09:09	11.2	Middle	2	2	20.1	8.1	29.6	7.5	11.3	13.8
TMCLKL	HY/2012/08	2019-12-27	Mid-Flood	IS(Mf)11	Fine	Moderate	09:09	11.2	Bottom	3	1	20.1	8.1	29.7	7.6	12.9	14.9
TMCLKL	HY/2012/08	2019-12-27	Mid-Flood	IS(Mf)11	Fine	Moderate	09:09	11.2	Bottom	3	2	20.1	8.1	29.7	7.6	12.9	15.1
TMCLKL	HY/2012/08	2019-12-27	Mid-Flood	SR7	Fine	Moderate	08:14	4.3	Surface	1	1	20	8	29.7	7.4	12.4	16.5
TMCLKL	HY/2012/08	2019-12-27	Mid-Flood	SR7	Fine	Moderate	08:14	4.3	Surface	1	2	20	8	29.7	7.4	12.4	16.5
TMCLKL	HY/2012/08	2019-12-27	Mid-Flood	SR7	Fine	Moderate	08:14	4.3	Middle	2	1						
TMCLKL	HY/2012/08	2019-12-27	Mid-Flood	SR7	Fine	Moderate	08:14	4.3	Middle	2	2						
TMCLKL	HY/2012/08	2019-12-27	Mid-Flood	SR7	Fine	Moderate	08:14	4.3	Bottom	3	1	19.6	7.9	29.6	7.5	13	17.8
TMCLKL	HY/2012/08	2019-12-27	Mid-Flood	SR7	Fine	Moderate	08:14	4.3	Bottom	3	2	19.6	7.9	29.6	7.4	13	17.7
TMCLKL	HY/2012/08	2019-12-27	Mid-Flood	IS17	Fine	Moderate	09:17	10.2	Surface	1	1	20.3	8.1	29.7	7.4	9.4	12.4
TMCLKL	HY/2012/08	2019-12-27	Mid-Flood	IS17	Fine	Moderate	09:17	10.2	Surface	1	2	20.3	8.1	29.7	7.4	9.2	12.7
TMCLKL	HY/2012/08	2019-12-27	Mid-Flood	IS17	Fine	Moderate	09:17	10.2	Middle	2	1	20.2	8.1	29.7	7.4	10	12.5
TMCLKL	HY/2012/08	2019-12-27	Mid-Flood	IS17	Fine	Moderate	09:17	10.2	Middle	2	2	20.2	8.1	29.7	7.4	10	12.1
TMCLKL	HY/2012/08	2019-12-27	Mid-Flood	IS17	Fine	Moderate	09:17	10.2	Bottom	3	1	20.4	8	29.7	7.4	15.7	10.8
TMCLKL	HY/2012/08	2019-12-27	Mid-Flood	IS17	Fine	Moderate	09:17	10.2	Bottom	3	2	20.3	8	29.7	7.4	15.9	11.5
TMCLKL	HY/2012/08	2019-12-30	Mid-Ebb	CS(Mf)5	Foggy	Rough	16:09	14.1	Surface	11	1	20.5	8	30.1	7.4	4.7	8
TMCLKL	HY/2012/08	2019-12-30	Mid-Ebb	CS(Mf)5	Foggy	Rough	16:09	14.1	Surface	1	2	20.5	8	30.1	7.4	4.7	7.5
TMCLKL	HY/2012/08	2019-12-30	Mid-Ebb	CS(Mf)5	Foggy	Rough	16:09	14.1	Middle	2	12	20.8	7.9	30	7.4	8.2	6.6
TMCLKL	HY/2012/08	2019-12-30	Mid-Ebb	CS(Mf)5	Foggy	Rough	16:09	14.1	Middle	2	1	20.8	7.0	30	7.4	8.2	6.2 6.2
TMCLKL TMCLKL	HY/2012/08 HY/2012/08	2019-12-30 2019-12-30	Mid-Ebb Mid-Ebb	CS(Mf)5 CS(Mf)5	Foggy	Rough Rough	16:09 16:09	14.1	Bottom	2	12	21	7.9 7.9	29.7 29.7	7.4 7.4	5.1	5.2
TMCLKL	HY/2012/08	2019-12-30	Mid-Ebb	CS(Mf)3(N)	Foggy	Moderate	15:21	7.3	Bottom Surface	11	1	20.8	ρ. 1	29.7	7.4	5.6	6.8
TMCLKL	HY/2012/08	2019-12-30	Mid-Ebb	CS(Mf)3(N)	Foggy	Moderate	15:21	7.3	Surface	11	12	20.8	ρ Ω	29.5	7.4	5.6	7.5
TMCLKL	HY/2012/08	2019-12-30	Mid-Ebb	CS(Mf)3(N)	Foggy Foggy	Moderate	15:21	7.3	Middle	2	1	20.6	7.9	29.3	7.4	8.1	5.7
TMCLKL	HY/2012/08	2019-12-30	Mid-Ebb	CS(Mf)3(N)	Foggy	Moderate	15:21	7.3	Middle	2	2	20.7	7.9	29.3	7.4	8.1	5.7
TMCLKL	HY/2012/08	2019-12-30	Mid-Ebb	CS(Mf)3(N)	Foggy	Moderate	15:21	7.3	Bottom	3	1	21	7.9	29.5	7.4	6.2	5.6
TMCLKL	HY/2012/08	2019-12-30	Mid-Ebb	CS(Mf)3(N)	Foggy	Moderate	15:21	7.3	Bottom	3	2	21	7.9	29.5	7.4	6.2	5.4
TMCLKL	HY/2012/08	2019-12-30	Mid-Ebb	IS(Mf)16	Foggy	Rough	14:46	5.2	Surface	1	1	20.8	8	30.1	7.4	10	8.3
TMCLKL	HY/2012/08	2019-12-30	Mid-Ebb	IS(Mf)16	Foggy	Rough	14:46	5.2	Surface	11	2	20.8	8	30.1	7.4	9.8	8.5
TMCLKL	HY/2012/08	2019-12-30	Mid-Ebb	IS(Mf)16	Foggy	Rough	14:46	5.2	Middle	2	1		 		1		15.5
TMCLKL	HY/2012/08	2019-12-30	Mid-Ebb	IS(Mf)16	Foggy	Rough	14:46	5.2	Middle	2	2	†	1	<u> </u>	†	<u> </u>	1
TMCLKL	HY/2012/08	2019-12-30	Mid-Ebb	IS(Mf)16	Foggy	Rough	14:46	5.2	Bottom	3	1	20.7	7.9	29.9	7.4	8.6	13
TMCLKL	HY/2012/08	2019-12-30	Mid-Ebb	IS(Mf)16	Foggy	Rough	14:46	5.2	Bottom	3	2	20.7	8	30	7.4	8.6	13.3
TMCLKL	HY/2012/08	2019-12-30	Mid-Ebb	SR4a	Foggy	Rough	14:31	4.4	Surface	11	1	20.5	8	30.1	7.3	6.3	6.2
TMCLKL	HY/2012/08		Mid-Ebb	SR4a	Foggy	Rough	14:31	4.4	Surface	11	2	20.5	8	30.1	7.3	6.3	6.1
TMCLKL	HY/2012/08	2019-12-30	Mid-Ebb	SR4a	Foggy	Rough	14:31	4.4	Middle	2	11	1	†		1	1.5	1
TMCLKL	HY/2012/08		Mid-Ebb	SR4a		Rough		4.4	Middle	2	2	1	†		1	1	+
LIVIOLIKE	111/2012/00	12010 12-00	IMIG EDD	OI V-TU	1. <u>688)</u>	I roadii	1 7.01	T. T	Intilidate	<u> -</u>	<u></u>			1	<u> </u>	L	

		1		T_		Sea		Water		_			Π	T			
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	2019-12-30	Mid-Ebb	SR4a	Foggy	Rough	14:31	4.4	Bottom	3	1	20.6	8	30	7.3	7.2	5.7
TMCLKL	HY/2012/08	2019-12-30	Mid-Ebb	SR4a	Foggy	Rough	14:31	4.4	Bottom	3	2	20.7	8	30	7.3	7.2	5.9
TMCLKL	HY/2012/08	2019-12-30	Mid-Ebb	SR4(N2)	Foggy	Rough	14:27	4.5	Surface	1	1	20.7	8	30.1	7.2	7.3	5.2
TMCLKL	HY/2012/08	2019-12-30	Mid-Ebb	SR4(N2)	Foggy	Rough	14:27	4.5	Surface	1	2	20.7	8	30.1	7.2	7.3	5.6
TMCLKL	HY/2012/08	2019-12-30	Mid-Ebb	SR4(N2)	Foggy	Rough	14:27	4.5	Middle	2	1						
TMCLKL	HY/2012/08	2019-12-30	Mid-Ebb	SR4(N2)	Foggy	Rough	14:27	4.5	Middle	2	2						
TMCLKL	HY/2012/08	2019-12-30	Mid-Ebb	SR4(N2)	Foggy	Rough	14:27	4.5	Bottom	3	1	20.7	8	30.1	7.2	5.6	6.7
TMCLKL	HY/2012/08	2019-12-30	Mid-Ebb	SR4(N2)	Foggy	Rough	14:27	4.5	Bottom	3	2	20.7	8	30.1	7.2	5.6	6.7
TMCLKL	HY/2012/08	2019-12-30	Mid-Ebb	IS8(N)	Foggy	Rough	14:22	4.3	Surface	1	1	20.7	8	30.1	7.2	7.1	26.5
TMCLKL	HY/2012/08	2019-12-30	Mid-Ebb	IS8(N)	Foggy	Rough	14:22	4.3	Surface	1	2	20.7	8	30.1	7.2	7.1	25.8
TMCLKL	HY/2012/08	2019-12-30	Mid-Ebb	IS8(N)	Foggy	Rough	14:22	4.3	Middle	2	1						
TMCLKL	HY/2012/08	2019-12-30	Mid-Ebb	IS8(N)	Foggy	Rough	14:22	4.3	Middle	2	2						
TMCLKL	HY/2012/08	2019-12-30	Mid-Ebb	IS8(N)	Foggy	Rough	14:22	4.3	Bottom	3	1	20.9	8	30.1	7.3	17.7	8.9
TMCLKL	HY/2012/08	2019-12-30	Mid-Ebb	IS8(N)	Foggy	Rough	14:22	4.3	Bottom	3	2	20.9	8	30.1	7.3	17.7	8.8
TMCLKL	HY/2012/08	2019-12-30	Mid-Ebb	IS(Mf)9	Foggy	Rough	14:10	3.8	Surface	1	1	21.2	8	30.2	7.3	9.4	9.7
TMCLKL	HY/2012/08	2019-12-30	Mid-Ebb	IS(Mf)9	Foggy	Rough	14:10	3.8	Surface	1	2	21.2	8	30.2	7.3	9.5	10.5
TMCLKL	HY/2012/08	2019-12-30	Mid-Ebb	IS(Mf)9	Foggy	Rough	14:10	3.8	Middle	2	1						
TMCLKL	HY/2012/08	2019-12-30	Mid-Ebb	IS(Mf)9	Foggy	Rough	14:10	3.8	Middle	2	2						
TMCLKL	HY/2012/08	2019-12-30	Mid-Ebb	IS(Mf)9	Foggy	Rough	14:10	3.8	Bottom	3	1	21.6	7.9	30.2	7.3	7.2	8.5
TMCLKL	HY/2012/08	2019-12-30	Mid-Ebb	IS(Mf)9	Foggy	Rough	14:10	3.8	Bottom	3	2	21.6	7.9	30.2	7.3	7.1	8.8
TMCLKL	HY/2012/08	2019-12-30	Mid-Ebb	IS(Mf)11	Foggy	Moderate	14:54	11.1	Surface	1	1	20.3	8	30	7.4	6.2	5.8
TMCLKL	HY/2012/08	2019-12-30	Mid-Ebb	IS(Mf)11	Foggy	Moderate	14:54	11.1	Surface	1	2	20.3	8	30	7.4	6.2	6.4
TMCLKL	HY/2012/08	2019-12-30	Mid-Ebb	IS(Mf)11	Foggy	Moderate	14:54	11.1	Middle	2	1	20.3	8	30	7.4	6.2	6.4
TMCLKL	HY/2012/08	2019-12-30	Mid-Ebb	IS(Mf)11	Foggy	Moderate	14:54	11.1	Middle	2	2	20.3	8	30	7.4	6.2	6.1
TMCLKL	HY/2012/08	2019-12-30	Mid-Ebb	IS(Mf)11	Foggy	Moderate	14:54	11.1	Bottom	3	1	20.5	7.9	30	7.4	7.5	7.3
TMCLKL	HY/2012/08	2019-12-30	Mid-Ebb	IS(Mf)11	Foggy	Moderate	14:54	11.1	Bottom	3	2	20.5	7.9	30	7.4	7.6	6.9
TMCLKL	HY/2012/08	2019-12-30	Mid-Ebb	SR7	Foggy	Moderate	15:48	4.1	Surface	1	1	20.6	8	29.9	7.4	6.1	7.2
TMCLKL	HY/2012/08	2019-12-30	Mid-Ebb	SR7	Foggy	Moderate	15:48	4.1	Surface	1	2	20.7	8	29.9	7.4	6.1	6.9
TMCLKL	HY/2012/08	2019-12-30	Mid-Ebb	SR7	Foggy	Moderate	15:48	4.1	Middle	2	1						
TMCLKL	HY/2012/08	2019-12-30	Mid-Ebb	SR7	Foggy	Moderate	15:48	4.1	Middle	2	2						
TMCLKL	HY/2012/08	2019-12-30	Mid-Ebb	SR7	Foggy	Moderate	15:48	4.1	Bottom	3	1	20.5	8	29.9	7.4	5.4	5.1
TMCLKL	HY/2012/08	2019-12-30	Mid-Ebb	SR7	Foggy	Moderate	15:48	4.1	Bottom	3	2	20.5	8	29.9	7.4	5.4	5.6
TMCLKL	HY/2012/08	2019-12-30	Mid-Ebb	IS17	Foggy	Rough	14:48	10.2	Surface	1	1	20.3	8	30	7.4	5.8	7.9
TMCLKL	HY/2012/08	2019-12-30	Mid-Ebb	IS17	Foggy	Rough	14:48	10.2	Surface	1	2	20.3	8	30	7.4	5.9	8.4
TMCLKL	HY/2012/08	2019-12-30	Mid-Ebb	IS17	Foggy	Rough	14:48	10.2	Middle	2	1	20.3	8	30	7.4	6.4	6.6
TMCLKL	HY/2012/08	2019-12-30	Mid-Ebb	IS17	Foggy	Rough	14:48	10.2	Middle	2	2	20.3	8	30	7.4	6.4	6.4
TMCLKL	HY/2012/08	2019-12-30	Mid-Ebb	IS17	Foggy	Rough	14:48	10.2	Bottom	3	1	20.4	8	30	7.4	6.9	6
TMCLKL	HY/2012/08	2019-12-30	Mid-Ebb	IS17	Foggy	Rough	14:48	10.2	Bottom	3	2	20.4	8	30	7.4	6.9	6.1
TMCLKL	HY/2012/08	2019-12-30	Mid-Flood	CS(Mf)5	Foggy	Moderate	09:06	14.3	Surface	1	1	20.1	8	29.9	7.4	6.6	6.2
TMCLKL	HY/2012/08	2019-12-30	Mid-Flood	CS(Mf)5	Foggy	Moderate	09:06	14.3	Surface	1	2	20.1	8	29.9	7.4	6.6	6.3
TMCLKL	HY/2012/08	2019-12-30	Mid-Flood	CS(Mf)5	Foggy	Moderate	09:06	14.3	Middle	2	1	20.1	8	29.9	7.4	6.2	7.4
TMCLKL	HY/2012/08	2019-12-30	Mid-Flood	CS(Mf)5	Foggy	Moderate	09:06	14.3	Middle	2	2	20.1	8	29.9	7.4	6.2	7.7
TMCLKL	HY/2012/08	2019-12-30	Mid-Flood	CS(Mf)5	Foggy	Moderate	09:06	14.3	Bottom	3	1	20.1	8	29.9	7.5	6	7.8
TMCLKL	HY/2012/08	2019-12-30	Mid-Flood	CS(Mf)5	Foggy	Moderate	09:06	14.3	Bottom	3	2	20.1	8	29.9	7.5	6	7.5
TMCLKL	HY/2012/08	2019-12-30	Mid-Flood	CS(Mf)3(N)	Foggy	Rough	09:50	7.1	Surface	1	1	20.3	7.9	29.3	7.3	10.6	10.6
TMCLKL	HY/2012/08	2019-12-30	Mid-Flood	CS(Mf)3(N)	Foggy	Rough	09:50	7.1	Surface	1	2	20.3	7.9	29.3	7.3	10.6	11
TMCLKL	HY/2012/08	2019-12-30	Mid-Flood	CS(Mf)3(N)	Foggy	Rough	09:50	7.1	Middle	2	1	20.3	7.9	29.2	7.3	9.6	10.8
TMCLKL	HY/2012/08	2019-12-30	Mid-Flood	CS(Mf)3(N)	Foggy	Rough	09:50	7.1	Middle	2	2	20.3	7.9	29.2	7.3	9.5	10.6
TMCLKL	HY/2012/08	2019-12-30	Mid-Flood	CS(Mf)3(N)	Foggy	Rough	09:50	7.1	Bottom	3	1	20.3	7.9	29.3	7.3	10.3	11.3
TMCLKL	HY/2012/08	2019-12-30	Mid-Flood	CS(Mf)3(N)	Foggy	Rough	09:50	7.1	Bottom	3	2	20.3	7.9	29.3	7.3	10.5	11.5
TMCLKL	HY/2012/08	2019-12-30	Mid-Flood	IS(Mf)16	Foggy	Moderate	10:33	5.5	Surface	1	1	20.1	8	30	7.4	12	15.3
TMCLKL	HY/2012/08	2019-12-30	Mid-Flood	IS(Mf)16	Foggy	Moderate	10:33	5.5	Surface	1	2	20.1	8	30	7.4	12	15.3
TMCLKL	HY/2012/08	2019-12-30	Mid-Flood	IS(Mf)16	Foggy	Moderate	10:33	5.5	Middle	2	1						
TMCLKL	HY/2012/08	2019-12-30	Mid-Flood	IS(Mf)16	Foggy	Moderate	10:33	5.5	Middle	2	2						
TMCLKL	HY/2012/08	2019-12-30	Mid-Flood	IS(Mf)16	Foggy	Moderate	10:33	5.5	Bottom	3	1	20.1	8	29.9	7.4	11.8	15
TMCLKL	HY/2012/08	2019-12-30	Mid-Flood	IS(Mf)16	Foggy	Moderate	10:33	5.5	Bottom	3	2	20.1	8	29.9	7.4	11.8	15.7
TMCLKL	HY/2012/08	2019-12-30	Mid-Flood	SR4a	Foggy	Moderate	10:42	3.8	Surface	1	1	20.5	7.9	30	6.9	6.8	8.6
TMCLKL	HY/2012/08	2019-12-30	Mid-Flood	SR4a	Foggy	Moderate	10:42	3.8	Surface	1	2	20.5	7.9	30	6.9	6.7	8.8
	HY/2012/08	2019-12-30	Mid-Flood	SR4a	Foggy	Moderate	10:42	3.8	Middle	2	1						
TMCLKL	HY/2012/08	2019-12-30	Mid-Flood	SR4a	Foggy	Moderate	10:42	3.8	Middle	2	2						
	HY/2012/08	2019-12-30	Mid-Flood	SR4a	Foggy	Moderate	10:42		Bottom	3	1	20.4	7.9	29.9	7.1	7.9	8.8
-		-					-						•				

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	2019-12-30	Mid-Flood	SR4a	Foggy	Moderate	10:42	3.8	Bottom	3	2	20.4	7.9	29.9	7.1	7.8	9
TMCLKL	HY/2012/08	2019-12-30	Mid-Flood	SR4(N2)	Foggy	Moderate	10:47	4.2	Surface	1	1	20.4	8	30	7.1	5.8	6.7
TMCLKL	HY/2012/08	2019-12-30	Mid-Flood	SR4(N2)	Foggy	Moderate	10:47	4.2	Surface	1	2	20.4	8	30	7.1	5.8	6.3
TMCLKL	HY/2012/08	2019-12-30	Mid-Flood	SR4(N2)	Foggy	Moderate	10:47	4.2	Middle	2	1						
TMCLKL	HY/2012/08	2019-12-30	Mid-Flood	SR4(N2)	Foggy	Moderate	10:47	4.2	Middle	2	2						
TMCLKL	HY/2012/08	2019-12-30	Mid-Flood	SR4(N2)	Foggy	Moderate	10:47	4.2	Bottom	3	1	20.4	7.9	29.8	7.2	6.5	8.8
TMCLKL	HY/2012/08	2019-12-30	Mid-Flood	SR4(N2)	Foggy	Moderate	10:47	4.2	Bottom	3	2	20.4	7.9	29.8	7.2	6.5	8
TMCLKL	HY/2012/08	2019-12-30	Mid-Flood	IS8(N)	Foggy	Moderate	10:52	3.5	Surface	1	1	20.2	8	30.1	7.3	6.9	7.6
TMCLKL	HY/2012/08	2019-12-30	Mid-Flood	IS8(N)	Foggy	Moderate	10:52	3.5	Surface	1	2	20.2	8	30.1	7.3	6.9	8.5
TMCLKL	HY/2012/08	2019-12-30	Mid-Flood	IS8(N)	Foggy	Moderate	10:52	3.5	Middle	2	1						
TMCLKL	HY/2012/08	2019-12-30	Mid-Flood	IS8(N)	Foggy	Moderate	10:52	3.5	Middle	2	2						
TMCLKL	HY/2012/08	2019-12-30	Mid-Flood	IS8(N)	Foggy	Moderate	10:52	3.5	Bottom	3	1	20.2	8	30	7.3	8.5	7.2
TMCLKL	HY/2012/08	2019-12-30	Mid-Flood	IS8(N)	Foggy	Moderate	10:52	3.5	Bottom	3	2	20.2	8	30	7.3	8.5	6.8
TMCLKL	HY/2012/08	2019-12-30	Mid-Flood	IS(Mf)9	Foggy	Moderate	10:59	2.7	Surface	1	1						
TMCLKL	HY/2012/08	2019-12-30	Mid-Flood	IS(Mf)9	Foggy	Moderate	10:59	2.7	Surface	1	2						
TMCLKL	HY/2012/08	2019-12-30	Mid-Flood	IS(Mf)9	Foggy	Moderate	10:59	2.7	Middle	2	1	20.2	7.9	30	7.3	12.2	14.7
TMCLKL	HY/2012/08	2019-12-30	Mid-Flood	IS(Mf)9	Foggy	Moderate	10:59	2.7	Middle	2	2	20.2	7.9	30	7.3	12.2	14.6
TMCLKL	HY/2012/08	2019-12-30	Mid-Flood	IS(Mf)9	Foggy	Moderate	10:59	2.7	Bottom	3	1						,
TMCLKL	HY/2012/08	2019-12-30	Mid-Flood	IS(Mf)9	Foggy	Moderate	10:59	2.7	Bottom	3	2						
TMCLKL	HY/2012/08	2019-12-30	Mid-Flood	IS(Mf)11	Foggy	Rough	10:19	11.3	Surface	1	1	20.2	8	30.1	7.3	9.9	12
TMCLKL	HY/2012/08	2019-12-30	Mid-Flood	IS(Mf)11	Foggy	Rough	10:19	11.3	Surface	1	2	20.2	8	30.1	7.3	9.9	12.8
TMCLKL	HY/2012/08	2019-12-30	Mid-Flood	IS(Mf)11	Foggy	Rough	10:19	11.3	Middle	2	1	20.3	7.9	30.1	7.3	8	10.7
TMCLKL	HY/2012/08	2019-12-30	Mid-Flood	IS(Mf)11	Foggy	Rough	10:19	11.3	Middle	2	2	20.3	8	30.1	7.3	7.9	10.1
TMCLKL	HY/2012/08	2019-12-30	Mid-Flood	IS(Mf)11	Foggy	Rough	10:19	11.3	Bottom	3	1	20.2	7.8	29.8	7.4	7.4	8.5
TMCLKL	HY/2012/08	2019-12-30	Mid-Flood	IS(Mf)11	Foggy	Rough	10:19	11.3	Bottom	3	2	20.2	7.8	29.8	7.4	7.4	8.4
TMCLKL	HY/2012/08	2019-12-30	Mid-Flood	SR7	Foggy	Rough	09:25	4.3	Surface	1	1	20.1	8	30	7.3	11.2	12.4
TMCLKL	HY/2012/08	2019-12-30	Mid-Flood	SR7	Foggy	Rough	09:25	4.3	Surface	1	2	20.1	8	30	7.3	11.2	12.4
TMCLKL	HY/2012/08	2019-12-30	Mid-Flood	SR7	Foggy	Rough	09:25	4.3	Middle	2	1						
TMCLKL	HY/2012/08	2019-12-30	Mid-Flood	SR7	Foggy	Rough	09:25	4.3	Middle	2	2						
TMCLKL	HY/2012/08	2019-12-30	Mid-Flood	SR7	Foggy	Rough	09:25	4.3	Bottom	3	1	20.1	7.9	29.9	7.4	13.8	14.6
TMCLKL	HY/2012/08	2019-12-30	Mid-Flood	SR7	Foggy	Rough	09:25	4.3	Bottom	3	2	20.1	7.9	29.9	7.4	13.7	14.8
TMCLKL	HY/2012/08	2019-12-30	Mid-Flood	IS17	Foggy	Moderate	10:27	10.5	Surface	1	1	20.1	8	29.9	7.4	6.2	6.4
TMCLKL	HY/2012/08	2019-12-30	Mid-Flood	IS17	Foggy	Moderate	10:27	10.5	Surface	1	2	20.1	8	29.9	7.4	6.3	6.5
TMCLKL	HY/2012/08	2019-12-30	Mid-Flood	IS17	Foggy	Moderate	10:27	10.5	Middle	2	1	20.1	8	29.9	7.4	6.1	6.8
TMCLKL	HY/2012/08	2019-12-30	Mid-Flood	IS17	Foggy	Moderate	10:27	10.5	Middle	2	2	20.1	8	29.9	7.4	6	7.2
TMCLKL	HY/2012/08	2019-12-30	Mid-Flood	IS17	Foggy	Moderate	10:27	10.5	Bottom	3	1	20.1	8	29.9	7.4	8.6	8.9
TMCLKL	HY/2012/08	2019-12-30	Mid-Flood	IS17	Foggy	Moderate	10:27	10.5	Bottom	3	2	20.1	8	29.9	7.4	8.6	8.4

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)	I	EC (a)	SOR (a)	 Contractor(s)
Limit Level Exceedance					
1. 2. 3. 4. 5. 6. 7. 8.	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.	Take immediate action to avoid further exceedance. If the exceedance is confirmed to be Project related after investigation, submit proposals for remedia 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 SOI until the exceedance is abated.
8. 9.	to discuss the remedial actions to be taken. Assess effectiveness of the Contractor's			until the exceedance is	determined b until the exce

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	IEC	SOR	Contractor
Action level being exceeded by one sampling day	 Repeat in situ measurement on r day of exceedance to confirm findings; Identify source(s) of impact; Inform IEC, contractor and SOR Check monitoring data, all plan equipment and Contractor's wo methods. 	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 on next da exceedance to confirm findings; Identify source(s) of impact; Inform IEC, Contractor, SOR an EPD; Check monitoring data, all plan equipment and Contractor's wo methods; Discuss mitigation measures wi IEC, SOR and Contractor; 	submitted by ET and Contractor's working method; d 2. Discuss with ET and Contractor on possible remedial actions; rking 3. Review the proposed mitigation measures submitted by Contractor and	 Discuss with IEC on the proposed mitigation measures; Ensure mitigation measure are properly implemented; Assess the effectiveness of the implemented mitigation measures. 	2. Rectify unacceptable practice;
	6. Ensure mitigation measures are implemented;7. Increase the monitoring frequer daily until no exceedance of Act level;	implementation of mitigation measures. cy to on		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	Repeat measurement on next da exceedance to confirm findings;	y of 1. Check monitoring data submitted by ET and	Confirm receipt of notification of failure in	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. 	mitigation measures if problem still not under control;

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	4	105
	Limit	1	12
24-hr TSP	Action	0	10
	Limit	0	4
Water Quality	Action	0	167
	Limit	0	19
Impact Dolphin	Action	0	11
Monitoring	Limit	0	17

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 (December 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

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

From ERM- Hong Kong, Limited

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 21 December 2019



Dear Sir or Madam,

Ref/Project number

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

0212330_1December2019_1hrTSP_Station ASR1 0212330_1December2019_1hrTSP_Station ASR10 0212330_1December2019_1hrTSP_Station ASR5

One Limit Level and Two Action Level Exceedances were recorded on 1 December 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

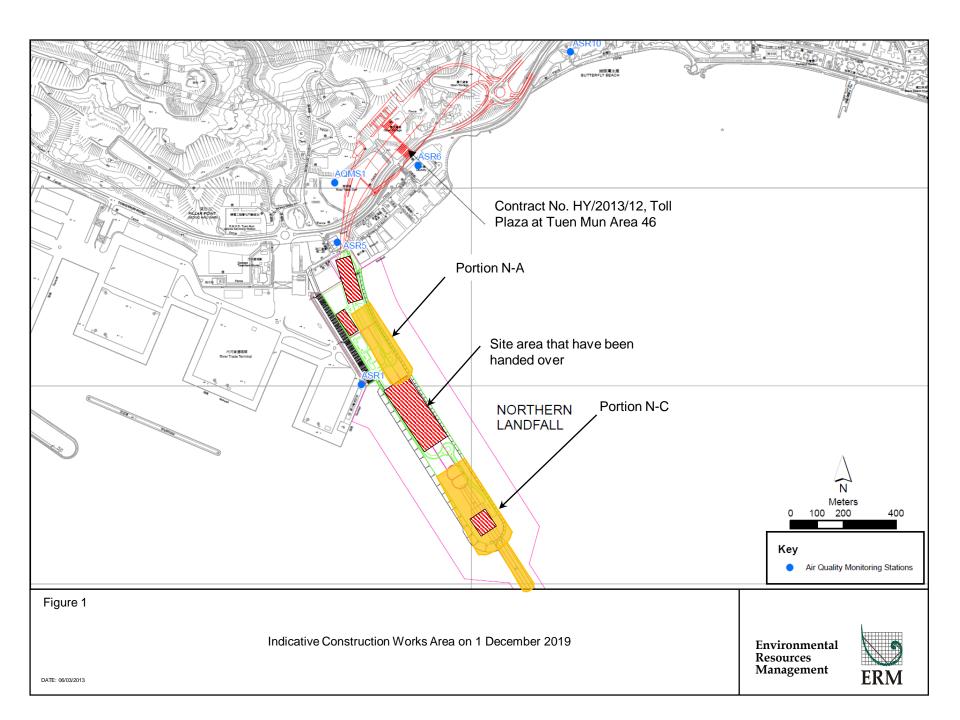
Air Quality Impact Monitoring Notification of Exceedance

Log No		Action Loval Evandance
Log No.	001000	Action Level Exceedance 0 1December2019 1hrTSP Station ASR10
	021233	30_1December2019_1hrTSP_Station ASR5
	004000	Limit Level Exceedance
	021233	30_1December2019_1hrTSP_Station ASR1
		[Total No. of Exceedances = 3]
Date		1 December 2019 (Measured)
		ber 2019 (Laboratory results received by ERM)
Monitoring Station	A	SR1, ASR5, ASR6, ASR10 and AQMS1
Parameter(s) with		1-hr TSP
Exceedance(s)		1-111 131
Action Levels	24-hr TSP (μg/m³)	ASR1 = 213
		ASR5 = 238
		AQMS1 = 213
		ASR6 = 238
		ASR10 = 214
	1-hr TSP (μg/m³)	ASR1 = 331
	- (1-6)	ASR5 = 340
		AQMS1 = 335
		ASR6 = 338
		ASR10 = 337
Limit Levels	1-hr TSP (μg/m³)	500
	24-hr TSP (μg/m³)	260
Measured Levels	, , ,	r TSP is observed at ASR10 ($407 \mu g/m^3$) during 1515- 1615.
		r TSP is observed at ASR5 (377 μ g/m³) during 1540- 1640.
		TSP is observed at ASR1 (747 μ g/m³) during 1551-1651.
Works Undertaken (at		action works were carried out on site.
the time of monitoring	On 1 December 2019, no constru	iction works were carried out on site.
event)		
Possible Reason for	The exceedance is unlikely to be	due to this Contract, in view of the following:
Action or Limit Level	_	
Exceedance(s)	<u> </u>	ction information provided by the Contractor, no construction
Exceedance(s)		n site on 1 December 2019.
		ly to be due to this Contract as dust suppression measures were
		n site. Water spraying was applied on site to prevent dust. Water
	spraying was also applied	d on exposed soil within the Contract site and associated works
	areas.	
	With reference to the reco	orded wind direction (ranged between 272° and 302°, blowing from
	a north-westerly direction	n) and wind speed $(0.9 - 1.8 \text{ m/s})$ during the works period, Stations
	ASR5 and ASR1 are locat	red upstream to the site. Stations ASR10 are located downstream to
	the site. However, since	e there were no construction works carried out on site, the
	exceedances are unlikely	to be due to the site activities of this contract.
		nce is unlikely to be due to this Contract.
	·	,

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 Contract 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 1/12/2019							
Project	Contract	Date	Station	Weather	Start time	Parameters	Results	Unit
TMCLKL	HY/2012/08	2019-12-01	AQMS1	Sunny	13:58	1-hour TSP	185	ug/m3
TMCLKL	HY/2012/08	2019-12-01	AQMS1	Sunny	15:00	1-hour TSP	117	ug/m3
TMCLKL	HY/2012/08	2019-12-01	AQMS1	Sunny	16:02	1-hour TSP	161	ug/m3
TMCLKL	HY/2012/08	2019-12-01	ASR1	Sunny	13:47	1-hour TSP	231	ug/m3
TMCLKL	HY/2012/08	2019-12-01	ASR1	Sunny	14:49	1-hour TSP	209	ug/m3
TMCLKL	HY/2012/08	2019-12-01	ASR1	Sunny	15:51	1-hour TSP	747	ug/m3
TMCLKL	HY/2012/08	2019-12-01	ASR10	Sunny	13:11	1-hour TSP	137	ug/m3
TMCLKL	HY/2012/08	2019-12-01	ASR10	Sunny	14:13	1-hour TSP	129	ug/m3
TMCLKL	HY/2012/08	2019-12-01	ASR10	Sunny	15:15	1-hour TSP	407	ug/m3
TMCLKL	HY/2012/08	2019-12-01	ASR5	Sunny	13:36	1-hour TSP	196	ug/m3
TMCLKL	HY/2012/08	2019-12-01	ASR5	Sunny	14:38	1-hour TSP	127	ug/m3
TMCLKL	HY/2012/08	2019-12-01	ASR5	Sunny	15:40	1-hour TSP	377	ug/m3
TMCLKL	HY/2012/08	2019-12-01	ASR6	Sunny	13:23	1-hour TSP	216	ug/m3
TMCLKL	HY/2012/08	2019-12-01	ASR6	Sunny	14:25	1-hour TSP	149	ug/m3
TMCLKL	HY/2012/08	2019-12-01	ASR6	Sunny	15:27	1-hour TSP	160	ug/m3
TMCLKL	HY/2012/08	2019-12-01	AQMS1	Sunny	17:04	24-hour TSP	107	ug/m3
TMCLKL	HY/2012/08	2019-12-01	ASR1	Sunny	16:53	24-hour TSP	168	ug/m3
TMCLKL	HY/2012/08	2019-12-01	ASR10	Sunny	16:17	24-hour TSP	103	ug/m3
TMCLKL	HY/2012/08	2019-12-01	ASR5	Sunny	16:42	24-hour TSP	110	ug/m3
TMCLKL	HY/2012/08	2019-12-01	ASR6	Sunny	16:29	24-hour TSP	134	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)			
19/12/01	1:00	1.3	304			
19/12/01	2:00	1.3	319			
19/12/01	3:00	0.9	303			
19/12/01	4:00	0.4	290			
19/12/01	5:00	0.4	339			
19/12/01	6:00	0	-			
19/12/01	7:00	0	-			
19/12/01	8:00	1.3	28			
19/12/01	9:00	1.3	28			
19/12/01	10:00	1.8	207			
19/12/01	11:00	1.3	210			
19/12/01	12:00	1.8	309			
19/12/01	13:00	2.7	273			
19/12/01	14:00	2.2	288			
19/12/01	15:00	1.8	272			
19/12/01	16:00	0.9	302			
19/12/01	17:00	0.9	319			
19/12/01	18:00	0.9	288			
19/12/01	19:00	1.3	289			
19/12/01	20:00	1.3	315			
19/12/01	21:00	2.2	309			
19/12/01	22:00	1.8	311			
19/12/01	23:00	1.3	318			





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

Weekly Water Spraying Record 每週灑水檢查記錄

Site Location 地盤位置: Date 日期:			No	orthern Landf	allto	至 0/.	Dec	2019
	Time 時間	Monday 星期一	Tuesday 星期二	Wednesday 星期三	Thursday 星期四	Friday 星期五	Saturday 星期六	Sunday 星期日
1	8:00 - 8:45						/	/
2	8:45 - 9:30	/	V	V	V.	\	7	1
3	9:30 - 10:15	\	\checkmark	V	V	$\overline{}$		1
4	10:15 - 11:00		\checkmark					
5	11:00 - 11:45	\checkmark	\sim		$\sqrt{}$	/		V
6	11:45 – 12:30	\checkmark		\checkmark	$\sqrt{}$	$\sqrt{}$	V	
7	12:30 - 13:15	\checkmark		V		/	/	V
8	13:15 - 14:00	\checkmark	\checkmark	✓ _	V	\checkmark	\checkmark	V,
9	14:00 - 14:45	\checkmark	V	\checkmark	\vee		\checkmark	V
10	14:45 - 15:30	\checkmark	\checkmark	\checkmark	V		\checkmark	\checkmark
11	15:30 – 16:45	V	\checkmark		\vee		V	V
12	16:45 – 17:30	V	\checkmark		$\sqrt{}$	\checkmark		1/
	Verified by Site Foreman 地盤科文簽署確認	7	7	7	7	7	7	7
Nigh	nt shift 夜間工作 (i	f 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

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

From ERM- Hong Kong, Limited

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 21 December 2019



Dear Sir or Madam,

Ref/Project number

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

0212330_4December2019_1hrTSP_Station ASR1 0212330_4December2019_1hrTSP_Station ASR5

Two Action Level Exceedances were recorded on 4 December 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

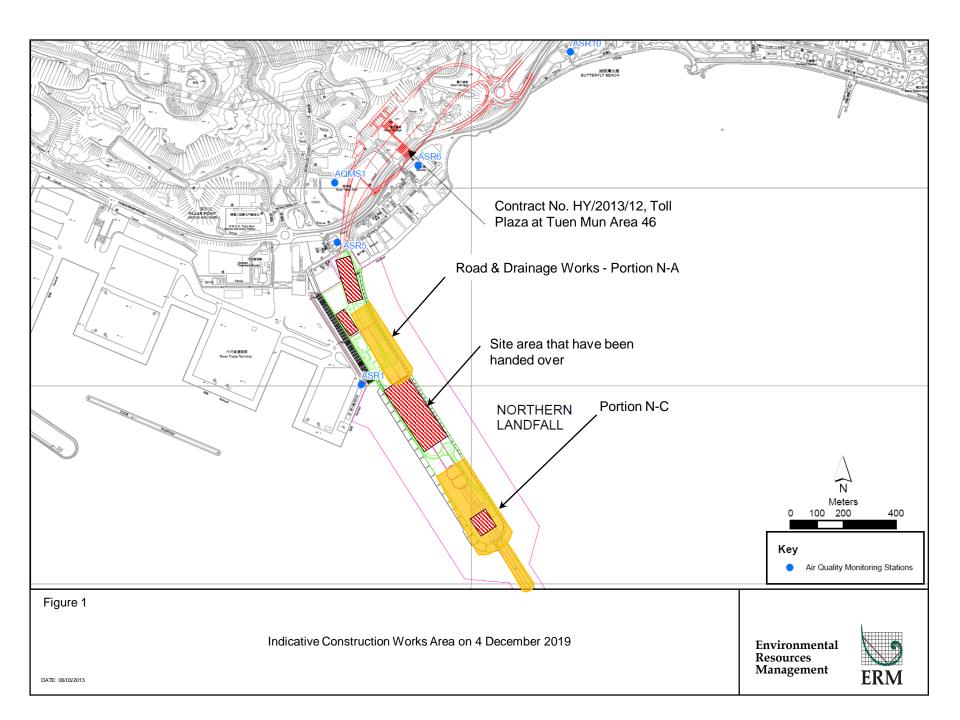
Air Quality Impact Monitoring Notification of Exceedance

Log No.	Action Level Exceedance							
	0212330_4December2019_1hrTSP_Station ASR1							
	0212330_4December2019_1hrTSP_Station ASR5							
	[Total No. of Exceedances = 2]							
Date		4 December 2019 (Measured)						
	16 Decemb	per 2019 (Laboratory results received by ERM)						
Monitoring Station	A:	SR1, ASR5, ASR6, ASR10 and AQMS1						
Parameter(s) with		1 L., TCD						
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		r TSP is observed at ASR1 (366 μg/m³) during 0837 - 0937.						
		r TSP is observed at ASR5 (380 μ g/m³) during 0825 - 0925.						
Works Undertaken (at	On 4 December 2019, Road and I	Drainage Works were carried out on site.						
the time of monitoring		O						
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	ction information provided by the Contractor, only Road and						
Exceedance(s)		rried out on site on 4 December 2019.						
	ŭ	y to be due to this Contract as dust suppression measures were						
		n site. Water spraying was applied on site to prevent dust. Water						
		d on exposed soil within the Contract site and associated works						
	areas.							
		orded wind direction (ranged between 356° and 14°, blowing from a						
		• With reference to the recorded wind direction (ranged between 356° and 14°, blowing from a northern direction) and wind speed (2.7 – 3.1 m/s) during the works period, Stations ASR5						
	· ·	ne construction works at Portion N-A. Stations ASR1 are located						
	•	ruction works at Portion N-A. However, Road & Drainage Works						
		A with implementation of dust mitigation measures are unlikely to						
	cause significant dust imp							
		nce is unlikely to be due to this Contract.						
	based on the above, the exceedable	are to arminery to be due to time contract.						

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 Contract 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 4/12/2019									
Project	Contract	Date	Station	Weather	Start time	Parameters	Results	Unit		
TMCLKL	HY/2012/08	2019-12-04	AQMS1	Sunny	8:44	1-hour TSP	156	ug/m3		
TMCLKL	HY/2012/08	2019-12-04	AQMS1	Sunny	9:51	1-hour TSP	160	ug/m3		
TMCLKL	HY/2012/08	2019-12-04	AQMS1	Sunny	10:53	1-hour TSP	116	ug/m3		
TMCLKL	HY/2012/08	2019-12-04	ASR1	Sunny	8:37	1-hour TSP	366	ug/m3		
TMCLKL	HY/2012/08	2019-12-04	ASR1	Sunny	9:39	1-hour TSP	220	ug/m3		
TMCLKL	HY/2012/08	2019-12-04	ASR1	Sunny	10:41	1-hour TSP	100	ug/m3		
TMCLKL	HY/2012/08	2019-12-04	ASR10	Sunny	8:02	1-hour TSP	103	ug/m3		
TMCLKL	HY/2012/08	2019-12-04	ASR10	Sunny	9:04	1-hour TSP	113	ug/m3		
TMCLKL	HY/2012/08	2019-12-04	ASR10	Sunny	10:06	1-hour TSP	101	ug/m3		
TMCLKL	HY/2012/08	2019-12-04	ASR5	Sunny	8:25	1-hour TSP	380	ug/m3		
TMCLKL	HY/2012/08	2019-12-04	ASR5	Sunny	9:27	1-hour TSP	180	ug/m3		
TMCLKL	HY/2012/08	2019-12-04	ASR5	Sunny	10:29	1-hour TSP	202	ug/m3		
TMCLKL	HY/2012/08	2019-12-04	ASR6	Sunny	8:13	1-hour TSP	150	ug/m3		
TMCLKL	HY/2012/08	2019-12-04	ASR6	Sunny	9:15	1-hour TSP	163	ug/m3		
TMCLKL	HY/2012/08	2019-12-04	ASR6	Sunny	10:17	1-hour TSP	169	ug/m3		
TMCLKL	HY/2012/08	2019-12-04	AQMS1	Sunny	11:55	24-hour TSP	97	ug/m3		
TMCLKL	HY/2012/08	2019-12-04	ASR1	Sunny	11:43	24-hour TSP	164	ug/m3		
TMCLKL	HY/2012/08	2019-12-04	ASR10	Sunny	11:08	24-hour TSP	84	ug/m3		
TMCLKL	HY/2012/08	2019-12-04	ASR5	Sunny	11:31	24-hour TSP	190	ug/m3		
TMCLKL	HY/2012/08	2019-12-04	ASR6	Sunny	11:19	24-hour TSP	118	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)				
19/12/04	0:00	1.8	328				
19/12/04	1:00	2.7	30				
19/12/04	2:00	2.2	25				
19/12/04	3:00	1.8	13				
19/12/04	4:00	1.8	19				
19/12/04	5:00	2.7	355				
19/12/04	6:00	1.8	339				
19/12/04	7:00	1.8	339				
19/12/04	8:00	3.1	356				
19/12/04	9:00	2.7	14				
19/12/04	10:00	2.2	28				
19/12/04	11:00	2.2	16				
19/12/04	12:00	1.8	31				
19/12/04	13:00	1.8	31				
19/12/04	14:00	1.3	306				
19/12/04	15:00	2.2	325				
19/12/04	16:00	1.8	345				
19/12/04	17:00	1.8	341				
19/12/04	18:00	0.9	306				
19/12/04	19:00	0.4	292				
19/12/04	20:00	0.4	311				
19/12/04	21:00	1.3	14				
19/12/04	22:00	1.3	56				
19/12/04	23:00	1.8	28				





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

Weekly Water Spraying Record 每週灑水檢查記錄

Sit Da	181	登位置: 月:		orthern Landf 2 Dec	all	至	08 Dec	29
	Time 時間	Monday 星期一	Tuesday 星期二	Wednesday 星期三	Thursday 星期四	Friday 星期五	Saturday 星期六	Sunday 星期日
1	8:00 - 8:45				V	V	1	V
2	8:45 - 9:30	V	$\sqrt{}$			/	V	1/
3	9:30 - 10:15		\checkmark	V.		V	/	1
4	10:15 - 11:00	\checkmark	$\sqrt{}$	V	\checkmark	V	V	V
5	11:00 - 11:45	$\sqrt{}$	V	\checkmark	V	V	V	V
6	11:45 – 12:30	\checkmark	V	V	$\sqrt{}$	$\sqrt{}$		V.
7	12:30 - 13:15	$\sqrt{}$	V		\checkmark	\checkmark		$\sqrt{}$
8	13:15 - 14:00	V.	V	V	V		V	V
9	14:00 - 14:45	V	V	V,		$\sqrt{}$	V	$\sqrt{}$
10	14:45 – 15:30	V	V	V	V	1	\checkmark	V
11	15:30 – 16:45	V	V	\checkmark	V	$\sqrt{}$	- V	\checkmark
12	16:45 – 17:30	V		V	V	$\sqrt{}$	V	
	Verified by Site Foreman 地盤科文簽署確認	7	7	7	7	7	7	7
Night shift 夜間工作 (if necessary 如需要)								
. 4161	17:30 – 19:00	i iicocasai y	Nº mi yı					
	19:00 – 20:30							
	20:30 - 22:00							

*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.

22:00 - 23:00

(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。

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 December 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	6.215	0.000	0.000	0.000	6.215			
Dec-2019	4.216	0.000	0.000	0.000	4.216			
Project Total Quantities	3008.822	0.000	336.902	889.467	1782.443			

	Actual Quantities of Non-inert Construction Waste Generated Monthly								
Month	Metals		Paper/ cardbo	Paper/ cardboard packaging		Plastics (see Note 3)		al Waste	Others, e.g. General Refuse disposed at Landfill
	(in '0	00kg)	(in '(000kg)	(in '(000kg)	(in '0	00kg)	(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	271.73	271.73	1.90	1.90	0.00	0.00	1.00	1.00	0.525
Dec-2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.441
Project Total Quantities	9890.77	9890.77	14.64	14.64	16.84	16.84	85.807	85.807	21.943



Forecast of Total Quantities of Construction and Demolition Materials to be Generated from the Contract*							
Total Quantity Generated Hard Rock and Large Broken Concrete Reused in the Contract Reused in other Projects Disposed of as Public				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 L						
(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).