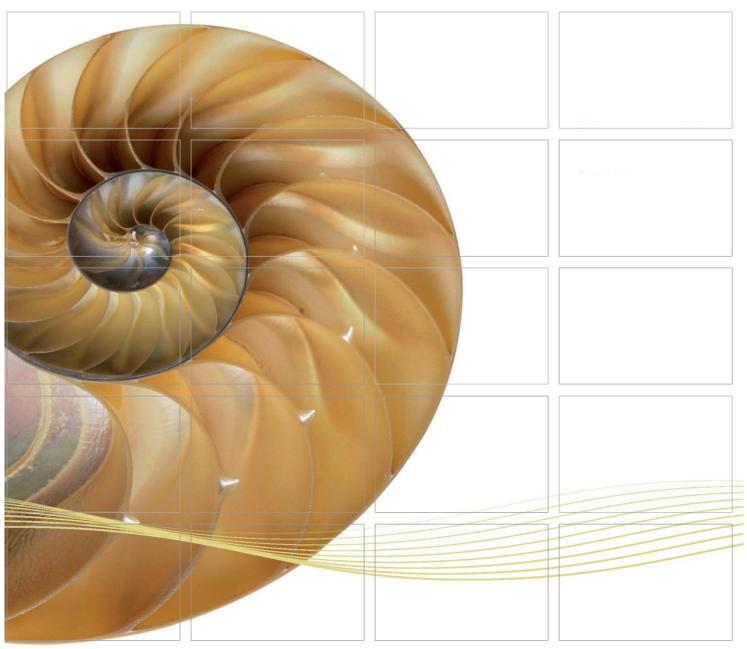
REPORT



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

Sixty-first Monthly EM&A Report

13 December 2018

Environmental Resources Management

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

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

Sixty-first Monthly EM&A Report

Document Code: 0215660_61st Monthly EM&A_20181213.doc

Environmental Resources Management

2507, 25/F One Harbourfront 18 Tak Fung Street Hunghom, Kowloon Hong Kong Telephone: (852) 2271 3000 Facsimile: (852) 2723 5660 E-mail: post.hk@erm.com http://www.erm.com

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| | This document presents the Sixty-first Monthly EM&A Report for Tuen Mun – Chek Lap Kok Link – Southern Connection Viaduct | | | C.C. | | | |
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| 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 OHSAS 18001:2007 Certificate No. OHS 515 Public | | | | | |
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Ref.: HYDHZMBEEM00_0_7060L.18

14 December 2018

By Fax (3691 2899) and By Post entative's Office

Supervising Officer's Representative's Office 780 Cheung Tung Road, Lantau, N.T.

Attention: Mr. Daniel Ip

Dear Mr. Ip,

AECOM

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

Contract No. HY/2012/07 TM-CLKL Southern Connection Viaduct Section 61st Monthly EM&A Report for November 2018 (EP-354/2009/D)

Reference is made to the Monthly Environmental Monitoring and Audit (EM&A) Report (Nov. 2018) (ET's ref.: "0215660_61st Monthly EM&A_20181210.doc" dated 13 Dec. 2018) certified by the ET Leader and provided to us via e-mail on 13 Dec. 2018.

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,

Happa Beauf

F. C. Tsang Independent Environmental Checker Tuen Mun – Chek Lap Kok Link

C.C.

HyD – Mr. Stephen Chan (By Fax: 3188 6614) HyD – Mr. Tony Pang (By Fax: 3188 6614) AECOM – Mr. Conrad Ng (By Fax: 3922 9797) ERM – Dr. Jasmine Ng (By Fax: 2723 5660) Gammon – Mr. Roy Leung (By Fax: 3520 0486)

Internal: DY, YH, DF, ENPO Site

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Ramboll Hong Kong Limited 英環香港有限公司 21/F, BEA Harbour View Centre, 56 Gloucester Road, Wan Chai, Hong Kong Tel: 852.3465 2888 Fax: 852.3465 2899 www.ramboll.com TABLE OF CONTENTS

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EXECUTIVE SUMMARY

Under *Contract No. HY/2012/07*, Gammon Construction Limited (GCL) is commissioned by the Highways Department (HyD) to undertake the design and construction of the Southern Connection Viaduct Section of the Tuen Mun – Chek Lap Kok Link Project (TM-CLK Link Project) while AECOM Asia Company Limited was appointed by HyD as the Supervising Officer. For implementation of the environmental monitoring and audit (EM&A) programme under the Contract, ERM-Hong Kong, Limited (ERM) has been appointed as the Environmental Team (ET). Ramboll Hong Kong Ltd. was employed by the HyD as the Independent Environmental Checker (IEC) and Environmental Project Office (ENPO) in accordance with *Environmental Permit No. EP-354/2009/A*. Further applications for variation of environmental permit (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 southern landfall of TM-CLK Link lies alongside the Hong Kong - Zhuhai - Macao Bridge Hong Kong Boundary Crossing Facilities (HKBCF) where a reclamation area is constructed by *Contract No. HY/2010/02* under *Environmental Permit No. EP-353/2009/K* and *EP-354/2009/D*. Upon the agreement and confirmation between the Supervising Officer Representatives and Contractors of *HY/2010/02* and *HY/2012/07* in September 2015, part of the reclamation area for southern landfall under *EP-353/2009/K* and *EP-354/2009/D* was handed-over to *Contract No. HY/2012/07*. Another part of the southern landfall area under *EP-354/2009/D* was handed-over to *Contract No. HY/2012/07* after completion of reclamation works by *Contract No. HY/2010/02* in June 2016.

The construction phase of the Contract commenced on 31 October 2013 and will be tentatively completed by 2019. The impact monitoring of the EM&A programme, including air quality, noise, water quality and marine ecological monitoring as well as environmental site inspections, commenced on 31 October 2013.

This is the sixty-first Monthly EM&A report presenting the EM&A works carried out during the period from 1 to 30 November 2018 for the Southern Connection Viaduct Section in accordance with the Updated EM&A Manual of the TM-CLK Link Project. As informed by the Contractor, major activities in the reporting period included:

Marine-based Works

• Uninstallation of marine piling platform

Land-based Works

- Reinstatement works along Cheung Tung Road;
- Abutment construction;

- Road works along North Lantau Highway;
- Asphalt paving;
- Construction of sign gantries, light poles and street furniture;
- Parapets and barriers installation; and
- Slope work of Viaducts A, B, C & D.

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

| 24-hour TSP Monitoring | 5 sessions |
|-------------------------------------|-------------|
| 1-hour TSP Monitoring | 5 sessions |
| Water Quality Monitoring | 13 sessions |
| Noise Monitoring | 5 sessions |
| Impact Dolphin Monitoring | 2 sessions |
| Joint Environmental Site Inspection | 5 sessions |

Breaches of Action and Limit Levels for Air Quality

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

Breaches of Action and Limit Levels for Noise

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

Breaches of Action and Limit Levels for Water Quality

No exceedance were recorded for water quality impact monitoring in the reporting month.

Impact Dolphin Monitoring

One (1) Limit Level exceedance was observed for the quarterly dolphin monitoring data between September and November 2018, whilst no unacceptable impact from the construction activities of the TM-CLKL Southern Connection Viaduct Section on Indo-Pacific humpback dolphin *Sousa chinensis* (i.e. Chinese White Dolphin) was noticeable from general observations. Due to monthly variation in dolphin occurrence within the Study Area, it would be more appropriate to draw conclusion on whether any impacts on dolphins have been detected related to the construction activities of the TM-CLKL Southern Connection Viaduct Section in the quarterly EM&A reports, in which comparison on distribution, group size and encounter rates of dolphins between the quarterly impact monitoring period and baseline monitoring period will be made.

Daily marine mammal exclusion zone monitoring was undertaken during the period of marine works under this Contract. No sighting of the Chinese White Dolphin was recorded in November 2018 during the exclusion zone monitoring.

Environmental Complaints, Non-compliance & Summons

No complaints, notification of summons or successful prosecution recorded in the reporting period.

Reporting Change

There was no reporting change in the reporting period.

Upcoming Works for the Next Reporting Period

Works to be undertaken in the next monitoring period of December 2018 include the following:

Land-based Works

- Reinstatement works along Cheung Tung Road;
- Abutment construction;
- Road works along North Lantau Highway;
- Asphalt paving;
- Construction of sign gantries, light poles and street furniture;
- Parapets and barriers installation; and
- Slope work of Viaducts A, B, C & D.

Future Key Issues

Potential environmental impacts arising from the above upcoming construction activities in the next reporting month of December 2018 are mainly associated with dust, noise, marine water quality, marine ecology and waste management issues.

1.1 BACKGROUND

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

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

Under *Contract No. HY/2012/07*, Gammon Construction Limited (GCL) is commissioned by the Highways Department (HyD) to undertake the design and construction of the Southern Connection Viaduct Section of TM-CLKL ("the Contract") while AECOM Asia Company Limited was appointed by HyD as the Supervising Officer. For implementation of the environmental monitoring and audit (EM&A) programme under the Contract, ERM-Hong Kong, Limited (ERM) has been appointed as the Environmental Team (ET). Ramboll Hong Kong Ltd. was employed by HyD as the Independent Environmental Checker (IEC) and Environmental Project Office (ENPO) in accordance with *Environmental Permit No. EP-354/2009/A*. Further applications for variation of environmental permit (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 southern landfall of TM-CLK Link lies alongside the Hong Kong - Zhuhai - Macao Bridge Hong Kong Boundary Crossing Facilities (HKBCF) where a reclamation area is constructed by *Contract No. HY/2010/02* under *Environmental Permit No. EP-353/2009/K* and *EP-354/2009/D*. Upon the agreement and confirmation between the Supervising Officer Representatives and Contractors of *HY/2010/02* and *HY/2012/07* in September 2015, part of the reclamation area for southern landfall under *EP-353/2009/K* and *EP-354/2009/D* was handed-over to *Contract No. HY/2012/07*. Another part of the

southern landfall area under *EP-354/2009/D* was handed-over to *Contract No. HY/2012/07* after completion of reclamation works by *Contract No. HY/2010/02* in June 2016.

The construction phase of the Contract commenced on 31 October 2013 and will be tentatively completed by 2019. The impact monitoring phase of the EM&A programme, including air quality, noise, water quality and marine ecological monitoring as well environmental site inspections, commenced on 31 October 2013.

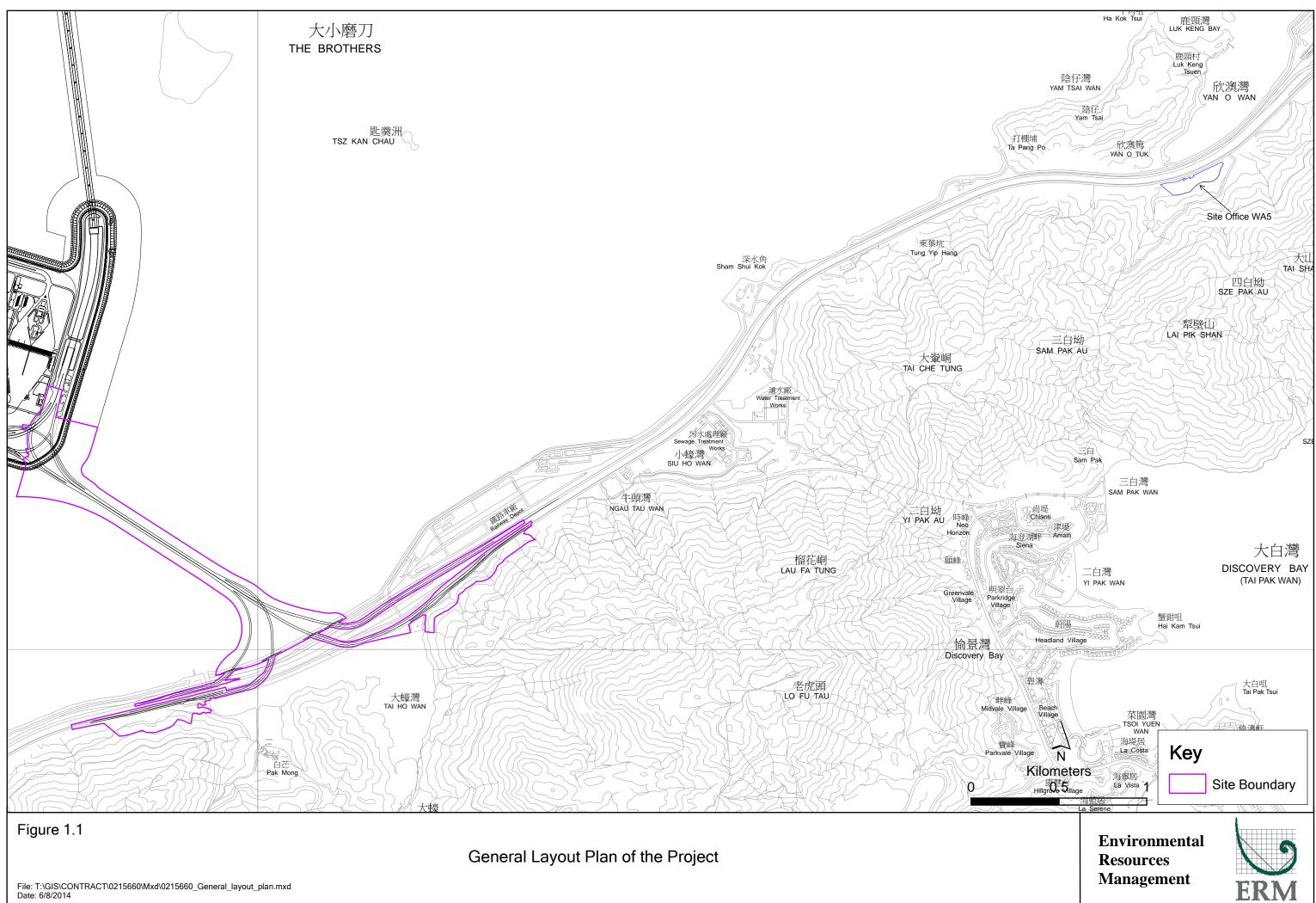
The general layout plan of the Contract components is presented in *Figures 1.1* & 1.2a to l.

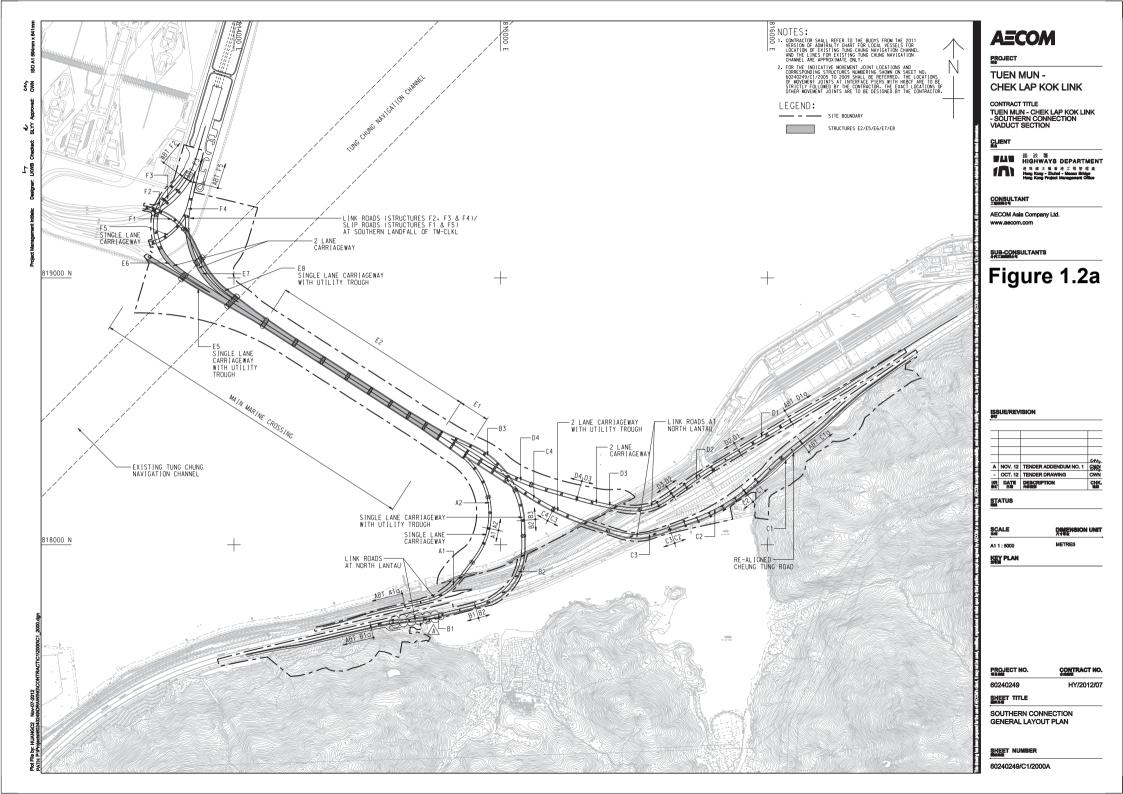
1.2 SCOPE OF REPORT

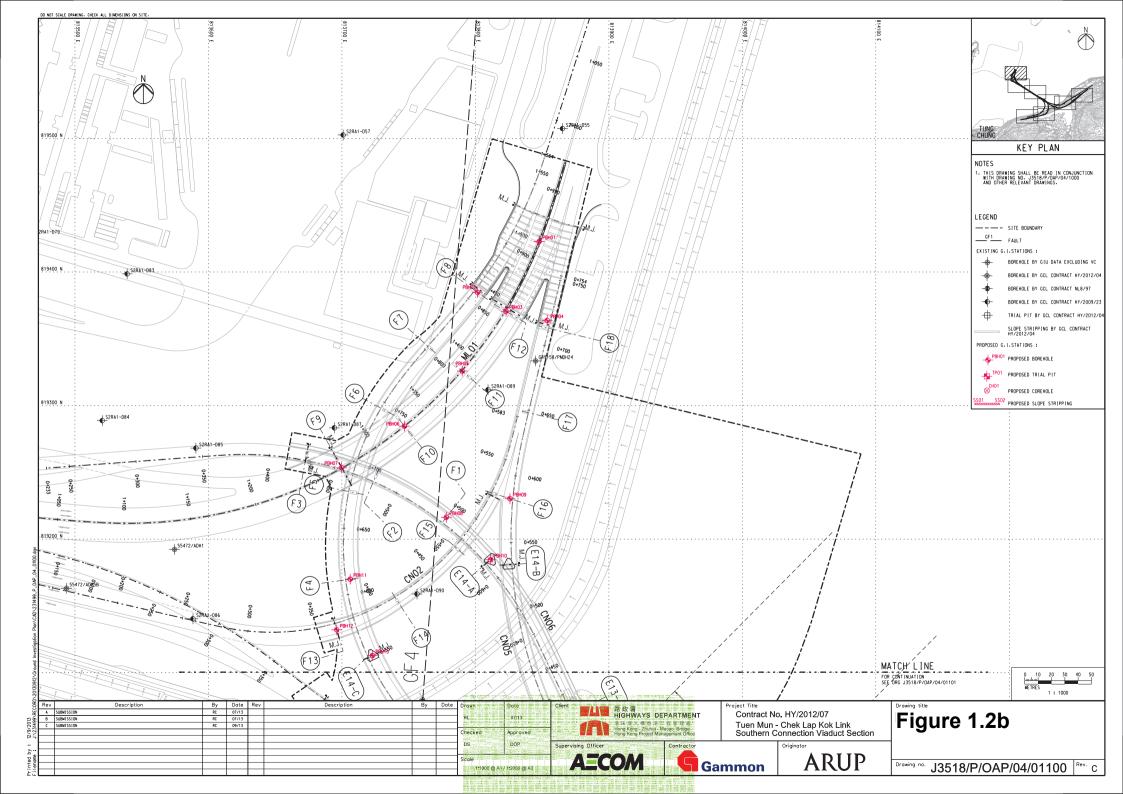
This is the sixty-first Monthly EM&A Report under the *Contract No. HY*/2012/07 *Tuen Mun – Chek Lap Kok Link – Southern Connection Viaduct Section.* This report presents a summary of the environmental monitoring and audit works in November 2018.

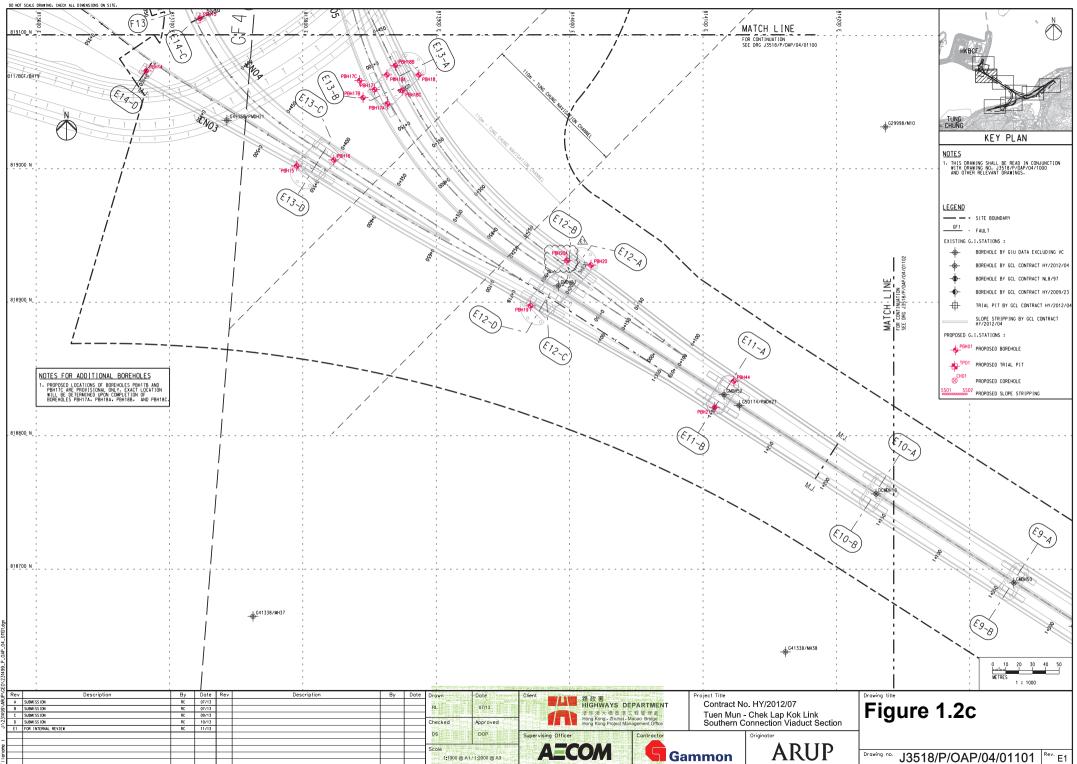
1.3 ORGANIZATION STRUCTURE

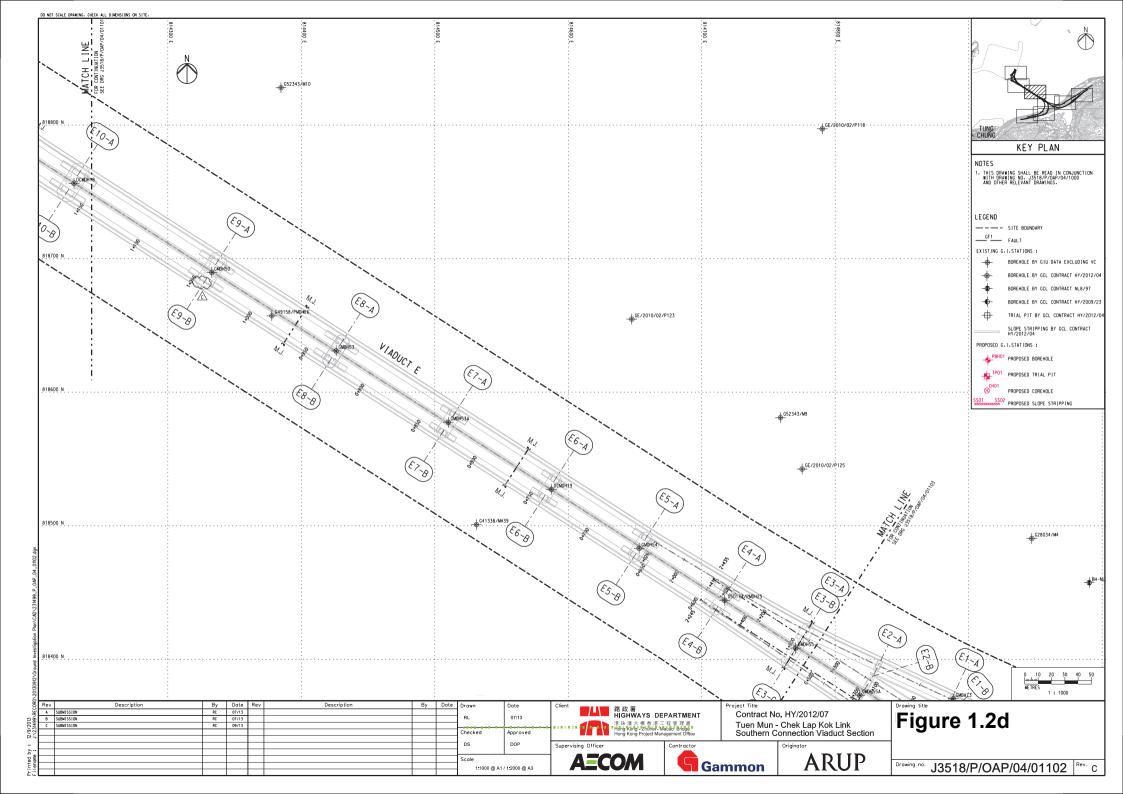
The organization structure of the Contract is shown in *Appendix A*. The key personnel contact names and contact details are summarized in *Table 1.1* below.



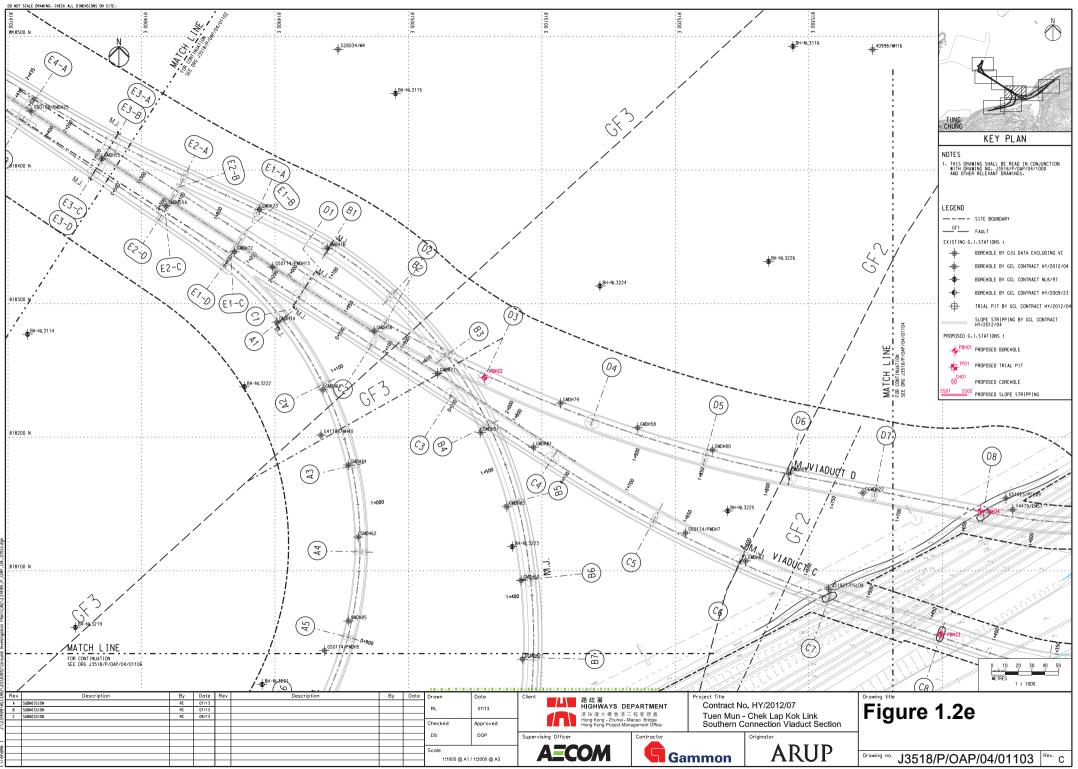


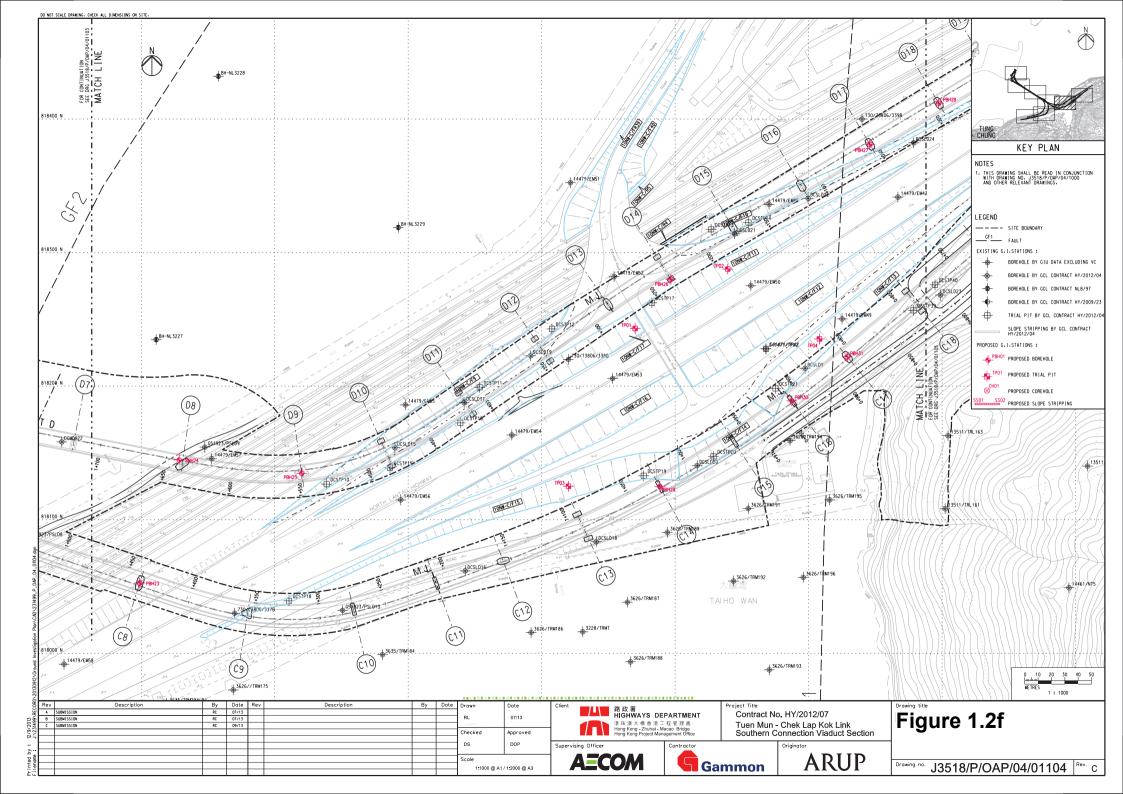


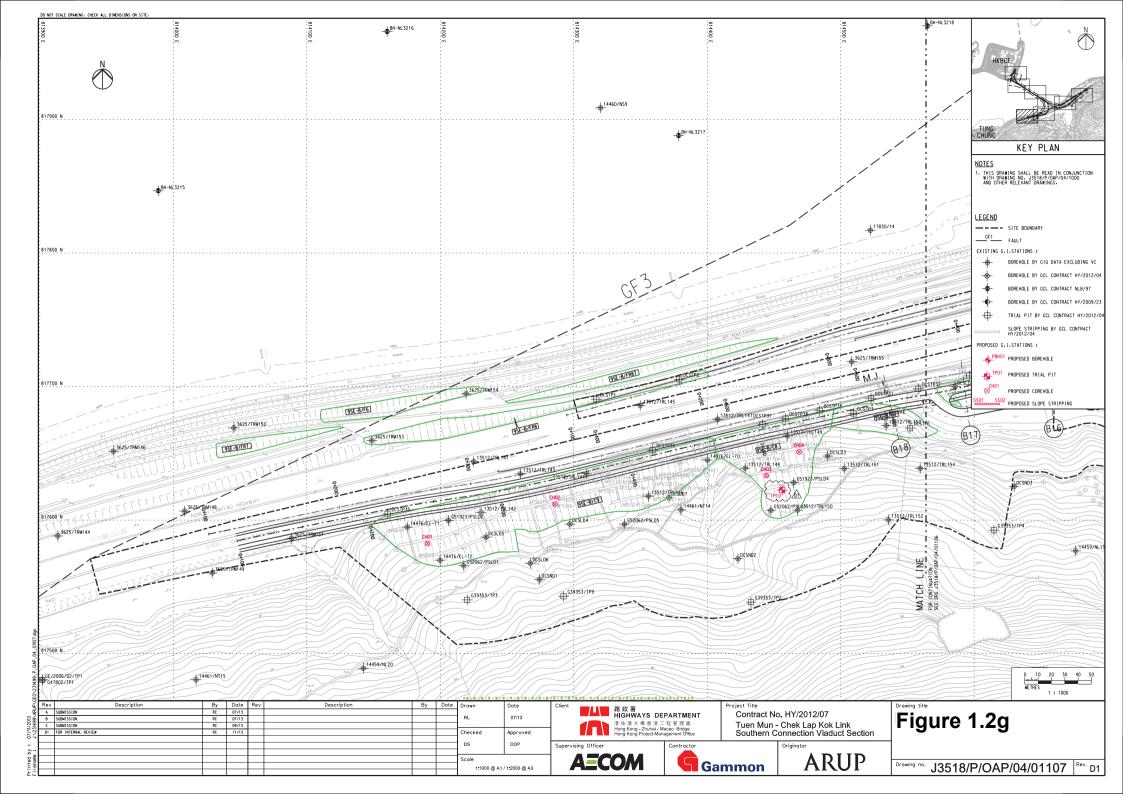


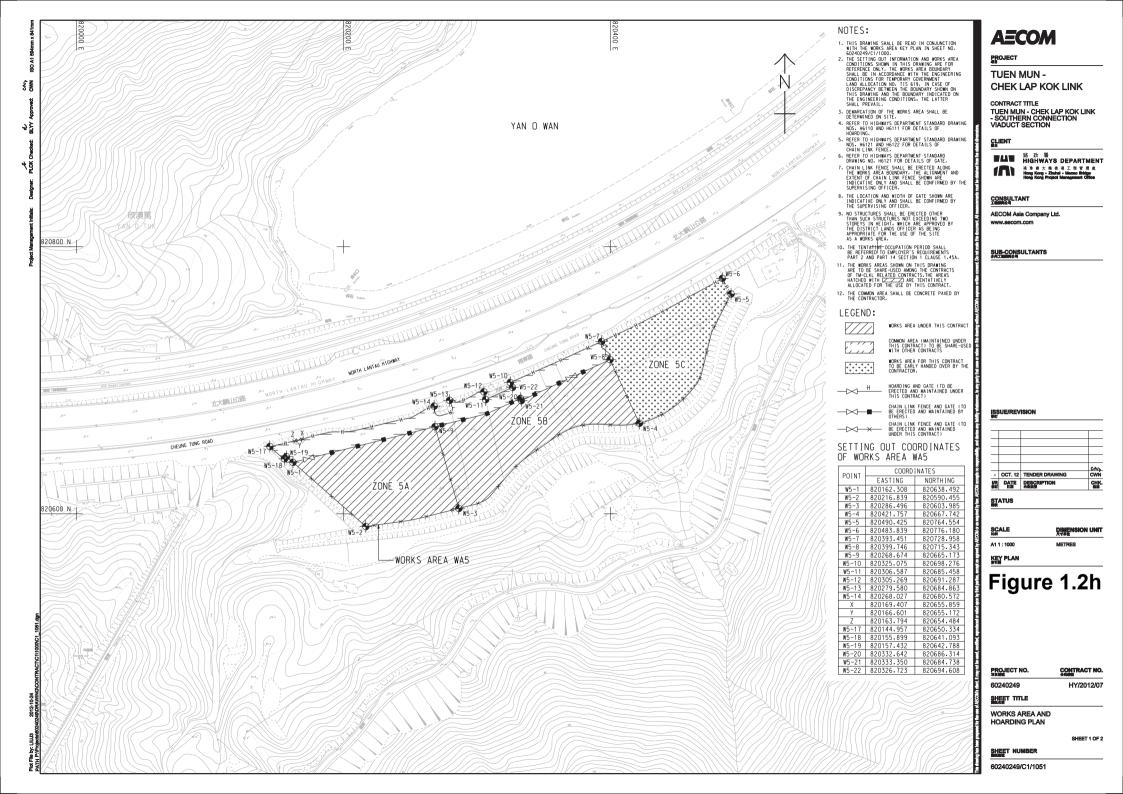


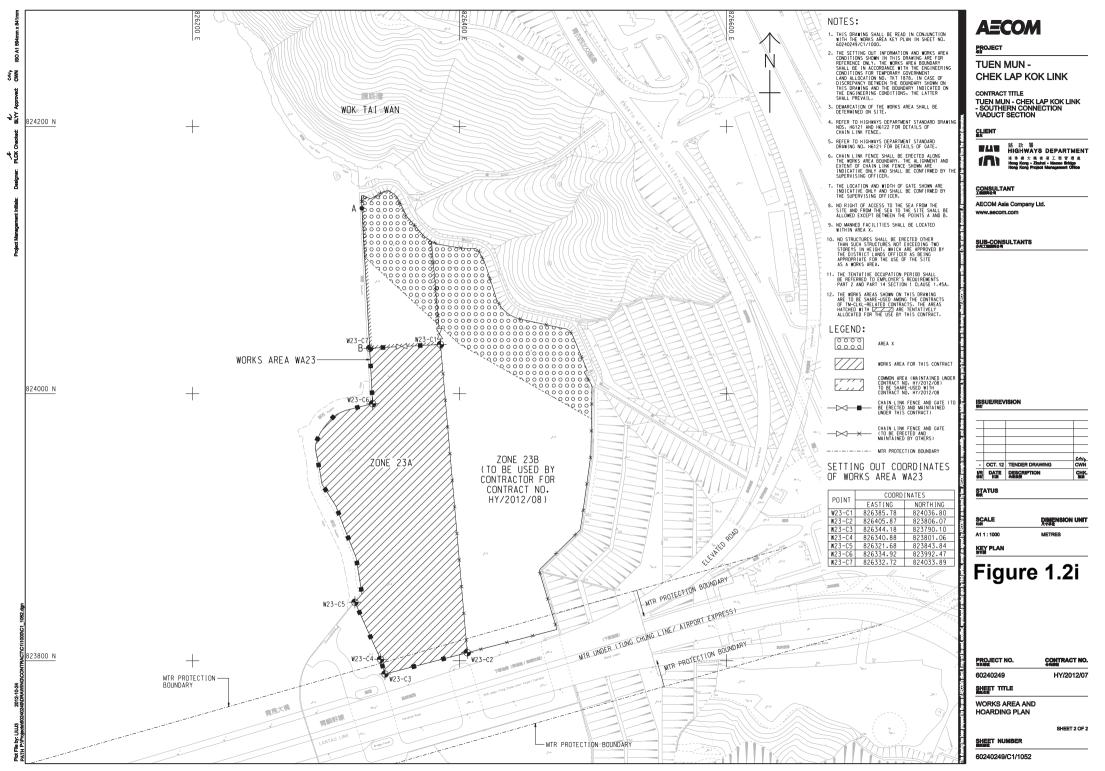


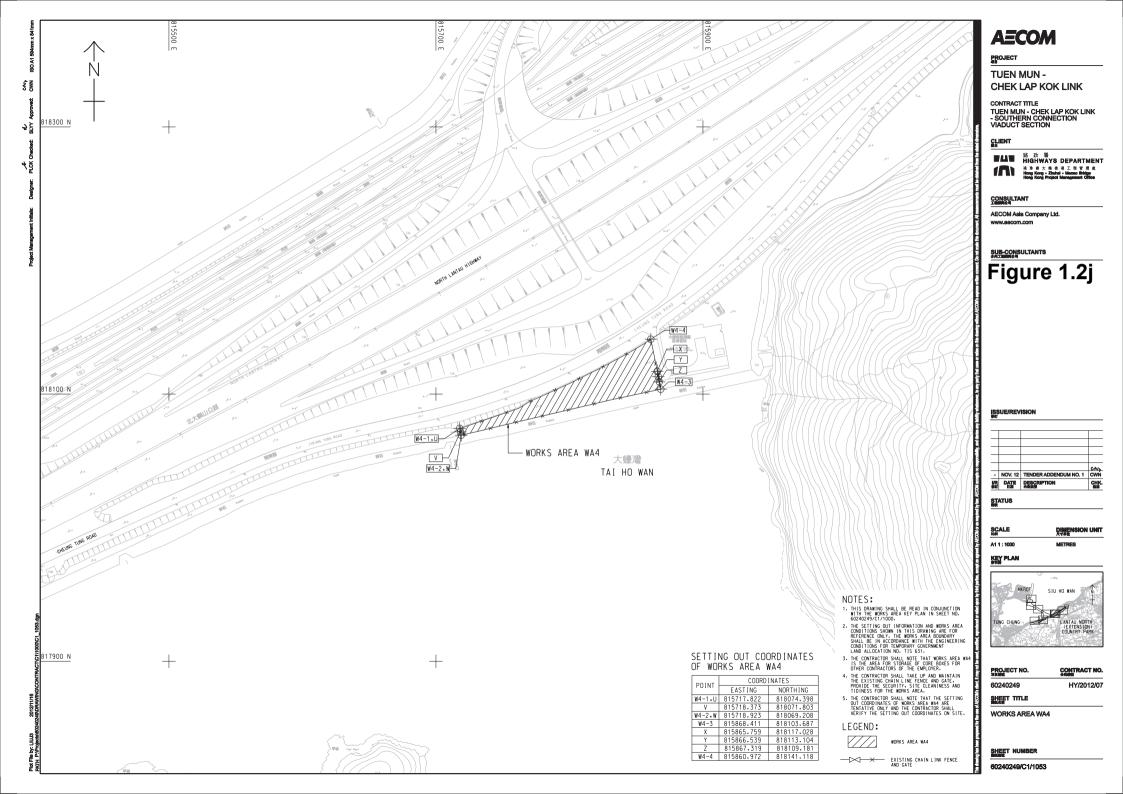


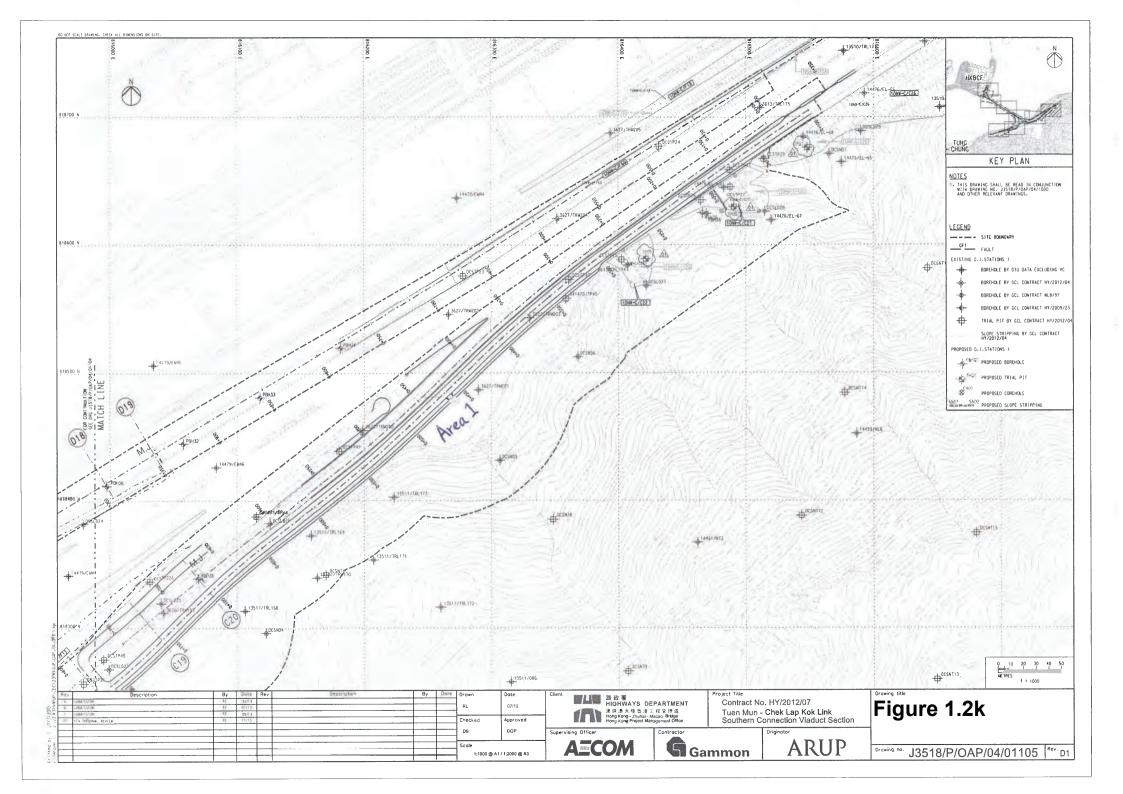












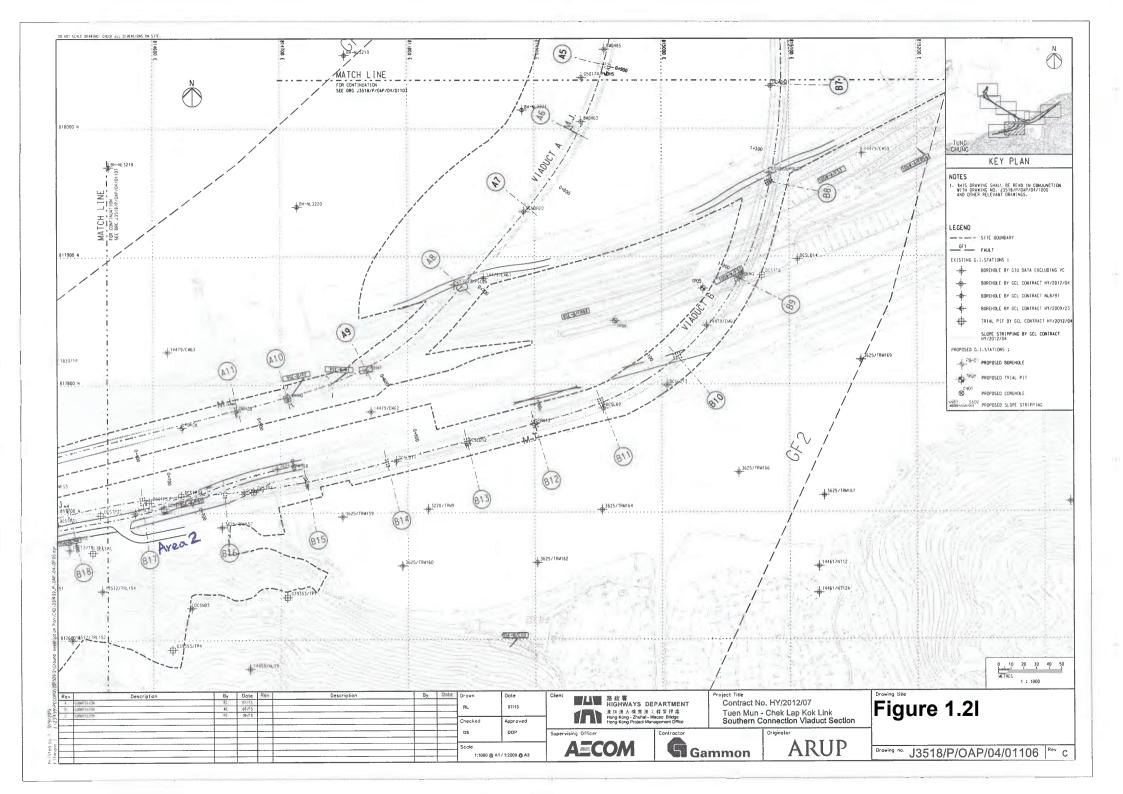


Table 1.1Contact Information of Key Personnel

| Party | Position | Name | Telephone | Fax |
|--|------------------------------|----------------|-----------|-----------|
| HyD (Highways Department) | Project Coordinator | Stanley Chan | 2762 3406 | 3188 6614 |
| 1 / | Senior Engineer | Steven Shum | 2762 4133 | 3188 6614 |
| SOR (AECOM Asia Company Limited) | Chief Resident Engineer | Daniel Ip | 3553 3800 | 2492 2057 |
| | Resident Engineer | Kingman Chan | 3691 3950 | 3691 2899 |
| ENPO / IEC (Ramboll Hong Kong | ENPO Leader | Y.H. Hui | 3465 2850 | 3465 2899 |
| Ltd.) | IEC | Dr. F.C. Tsang | 3465 2851 | 3465 2899 |
| Contractor (Gammon Construction Limited) | Environmental Officer | Roy Leung | 3520 0387 | 3520 0486 |
| Construction Emilieu) | 24-hour Complaint Hotline | | 9738 4332 | |
| ET (ERM-HK) | ET Leader | Dr. Jasmine Ng | 2271 3311 | 2723 5660 |

1.4 SUMMARY OF CONSTRUCTION WORKS

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

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

Marine-based Works

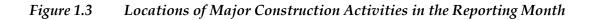
• Uninstallation of marine piling platform

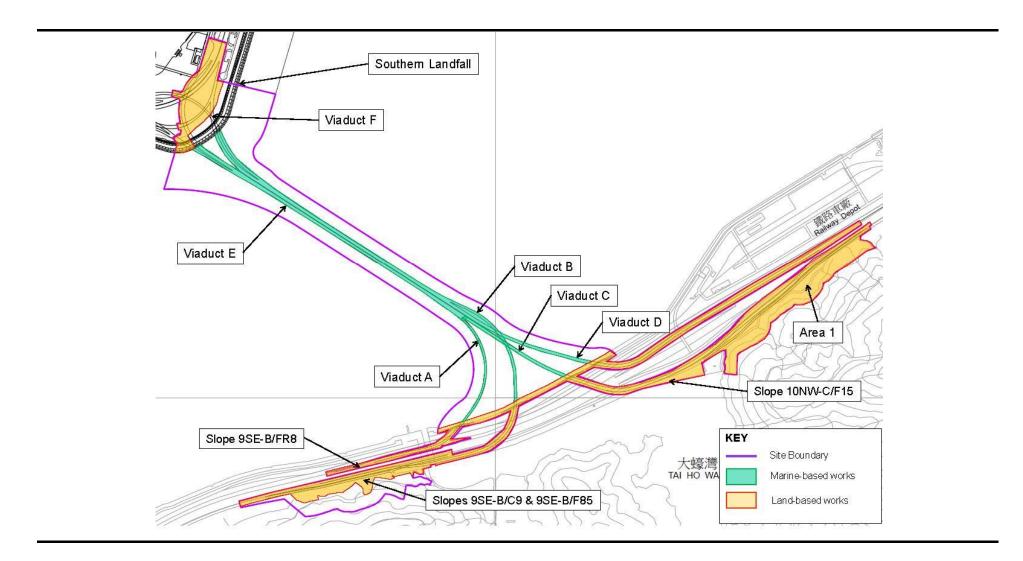
Land-based Works

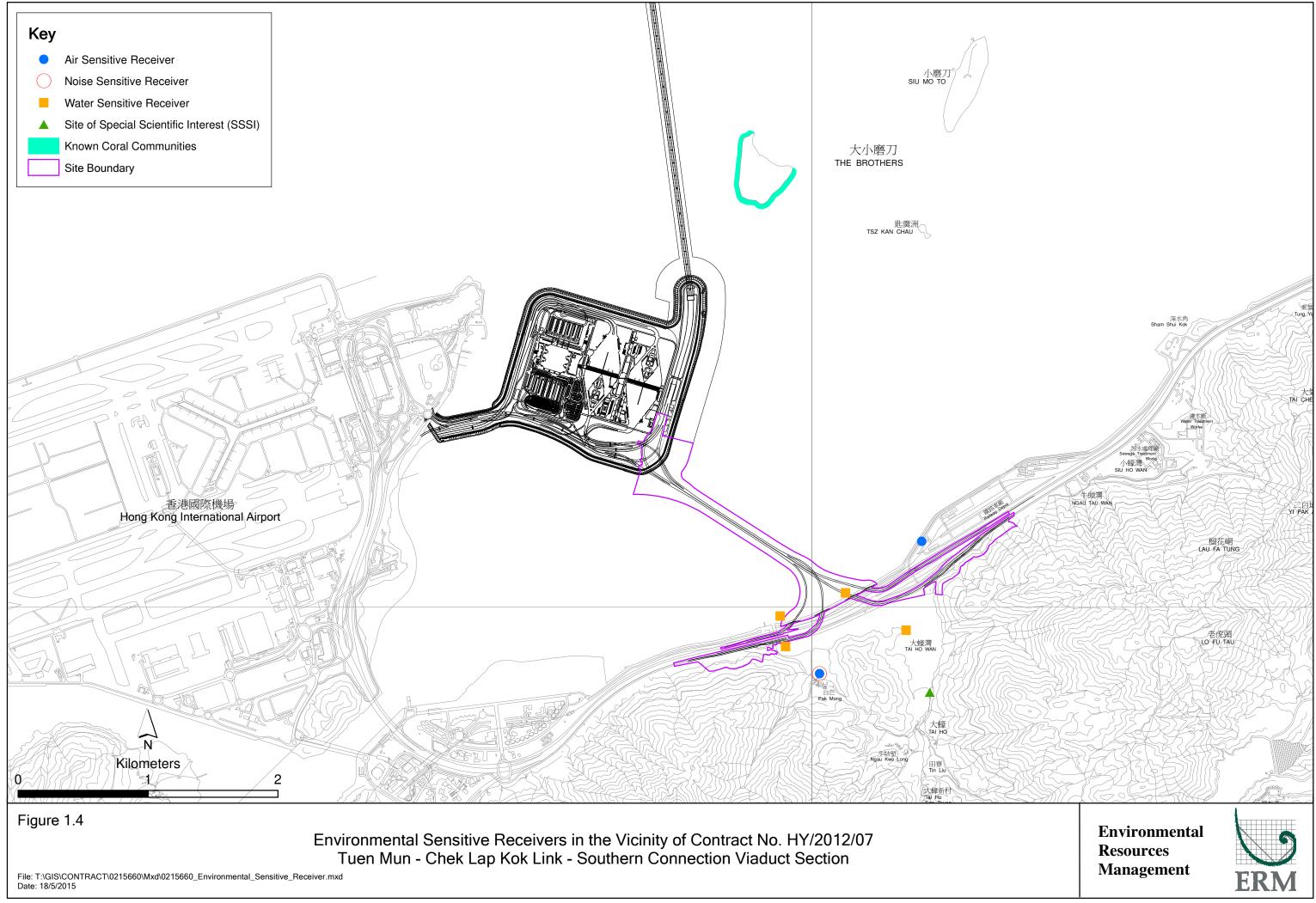
- Reinstatement works along Cheung Tung Road;
- Abutment construction;
- Road works along North Lantau Highway;
- Asphalt paving;
- Construction of sign gantries, light poles and street furniture;
- Parapets and barriers installation; and
- Slope work of Viaducts A, B, C & D.

The locations of the construction activities are shown in *Figure 1.3*. The Environmental Sensitive Receivers in the vicinity of the Project are shown in *Figure 1.4*.

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







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

2.1 AIR QUALITY

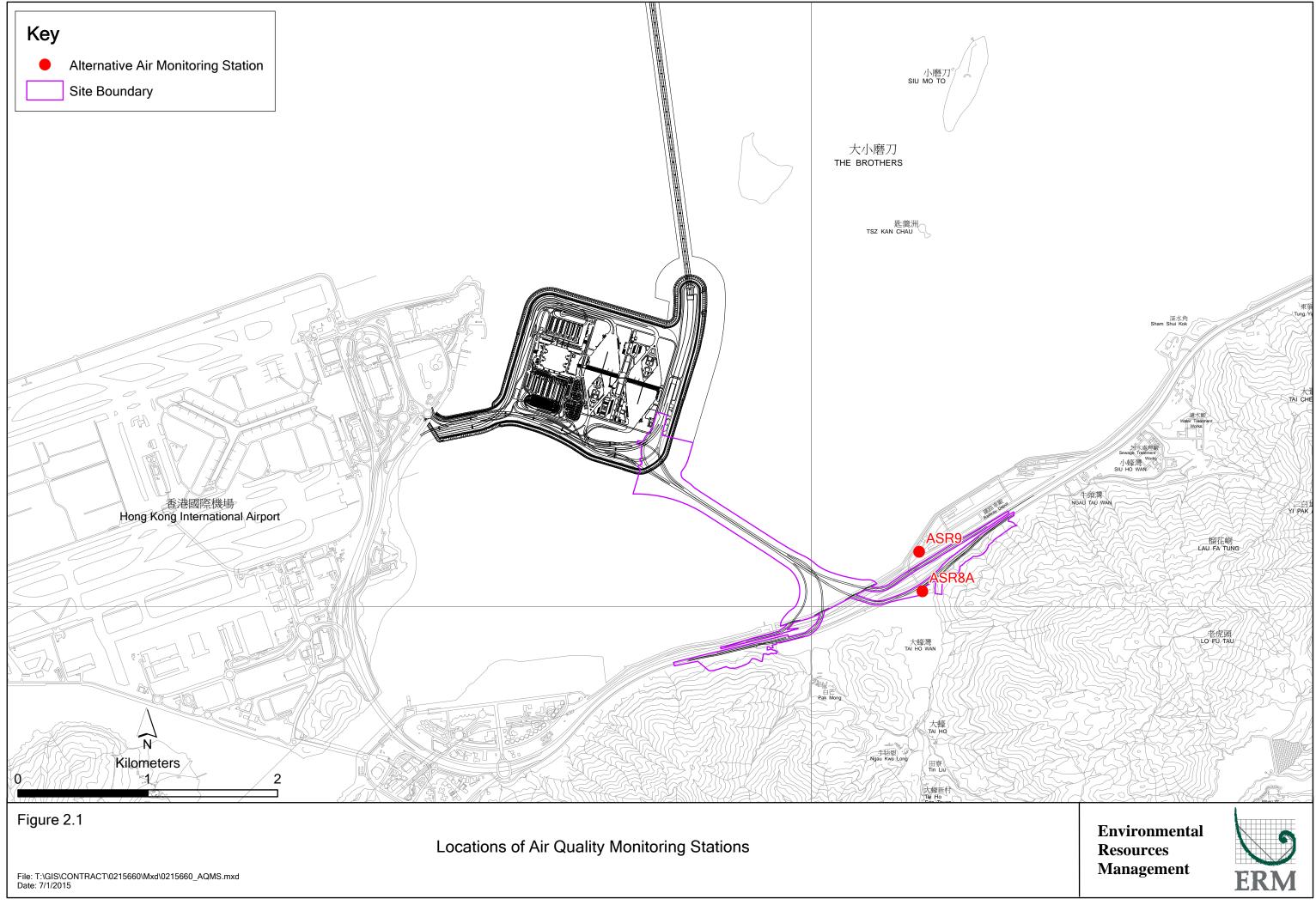
2.1.1 Monitoring Requirements and Equipment

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

Table 2.1Locations of Impact Air Quality Monitoring Stations

| Monitoring Station | Location | Description | Monitoring Dates |
|-----------------------|-----------|--|---------------------------------------|
| ASR 9 | MTR Depot | On the ground nearby MTR Depot Entrance | 6, 12, 15, 21 and 27 November 2018 |
| ASR 8A | Area 4 | On ground at the works area, Area 4 | 6, 12, 15, 21 and 27 November 2018 |

High Volume Samplers (HVSs) were used for 1-hour TSP and 24-hour TSP monitoring at ASR8A and ASR9 in accordance with the requirements of the Updated EM&A Manual. The TSP monitoring stations are illustrated in *Figure 2.1* and detailed in *Table 2.1*. Wind meter was deployed at Area 4 for logging wind speed and wind direction. Copies of the calibration certificates for the equipment are presented in *Appendix E*. Details of the deployed equipment are given in *Table 2.2*.



| Equipment | Brand and Model |
|---------------------------------|--|
| High Volume Sampler | Tisch Environmental Mass Flow Controlled |
| (1-hour TSP and 24-hour TSP) | Total Suspended Particulate (TSP) High |
| | Volume Sampler (Model No. TE-5170) |
| Wind Sensor | Global Water (Wind Speed Sensor: WE550; Wind Direction Sensor: WE570) |
| Wind Anemometer for calibration | Lutron (Model No. AM-4201) |

Table 2.2Air Quality Monitoring Equipment

2.1.2 Monitoring Schedule for the Reporting Month

The schedule for air quality monitoring in November 2018 is provided in *Appendix F*.

2.1.3 *Results and Observations*

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

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

| Monitoring Station | Average (µg/m³) | Range (µg/m³) | Action Level (μg/m³) | Limit Level (µg/m³) |
|-----------------------|-----------------|---------------|-------------------------|------------------------|
| ASR 8A | 88 | 45-149 | 394 | 500 |
| ASR 9 | 96 | 57-159 | 393 | 500 |

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

| Monitoring Station | Average (µg/m³) | Range (µg/m³) | Action Level (μg/m³) | Limit Level (µg/m³) |
|-----------------------|-----------------|---------------|-------------------------|------------------------|
| ASR 8A | 64 | 36-104 | 178 | 260 |
| ASR 9 | 70 | 36-122 | 178 | 260 |

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

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

Meteorological information collected at ASR8A including wind speed and wind direction is provided in *Appendix H*.

2.2 Noise Monitoring

2.2.1 Monitoring Requirements and Equipment

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

Noise monitoring was performed on 6, 12, 15, 21 and 27 November 2018 using sound level meter at the designated monitoring station NSR1A (*Figure 2.2; Table 2.5*) in accordance with the requirements stipulated in the Updated EM&A Manual. Acoustic calibrator was deployed to check the sound level meters at a known sound pressure level. Details of the deployed equipment are provided in *Table 2.6*. Copies of the calibration certificates for the equipment are presented in *Appendix E*.

Table 2.5Location of Impact Noise Monitoring Station

| Monitoring Station | Location | Description | Parameter | Frequency and Duration | Monitoring Dates |
|-----------------------|---------------------------------|--|--|---------------------------|---|
| NSR 1A | Pak Mong Village Pavilion | On the ground at the village entrance | 30-minute measurement at each monitoring station between 0700 and 1900 on normal weekdays (Monday to Saturday). L _{eq} , L ₁₀ and L ₉₀ would be recorded. | At least once per week | 6, 12, 15, 21 and 27 November 2018 |

Table 2.6Noise Monitoring Equipment

| Equipment | Brand and Model | |
|------------------------------|-----------------|--|
| Integrated Sound Level Meter | Rion NL-52 | |
| Acoustic Calibrator | Rion NC-73 | |

2.2.2 Monitoring Schedule for the Reporting Month

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

2.2.3 *Results and Observations*

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

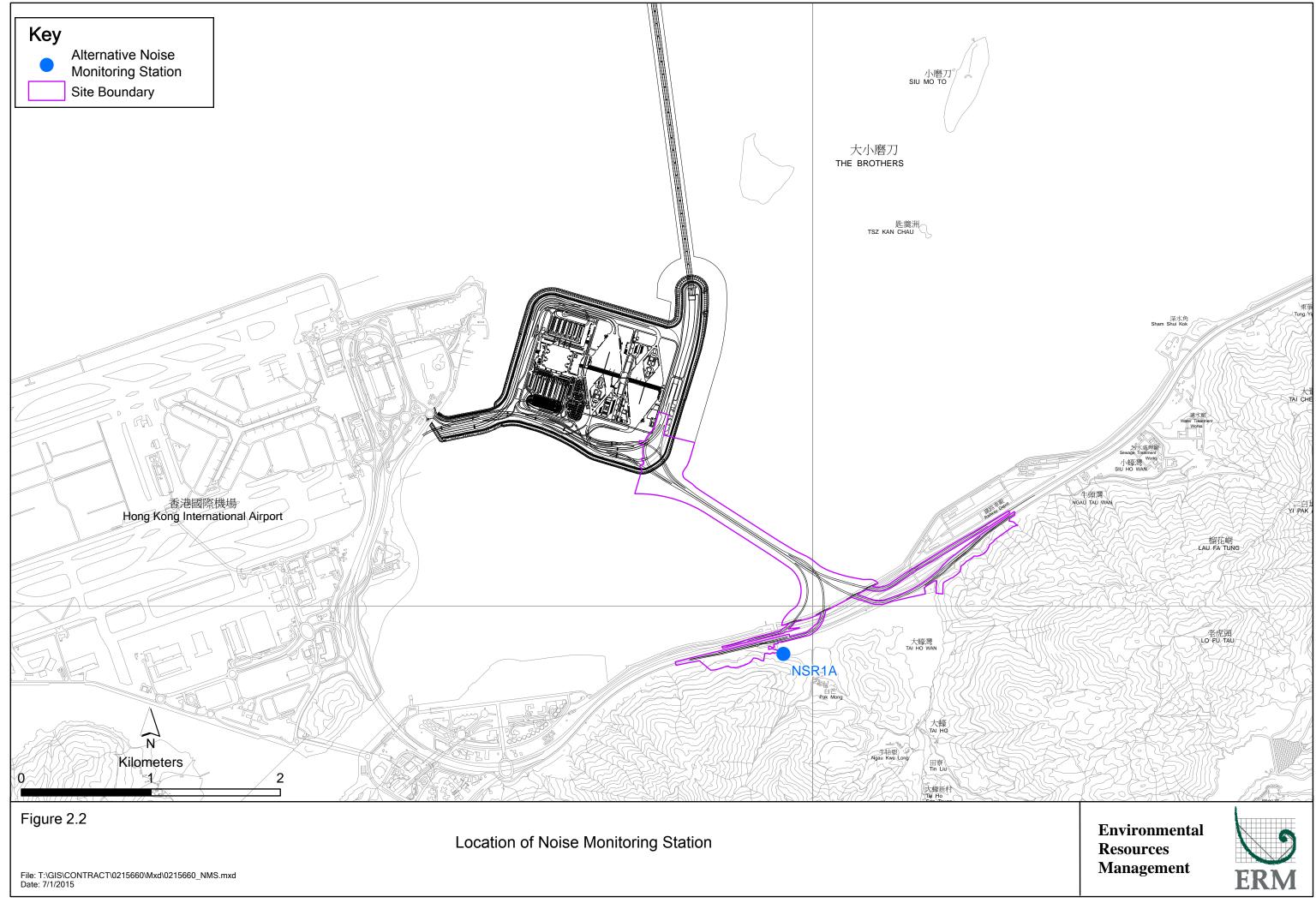


Table 2.7Summary of Construction Noise Monitoring Results in the Reporting Period

| | Average , dB(A), | Range, dB(A), | Limit Level, dB(A), |
|--------|------------------|---------------|---------------------|
| | Leq (30mins) | Leq (30mins) | Leq (30mins) |
| NSR 1A | 64 | 64-65 | 75 |

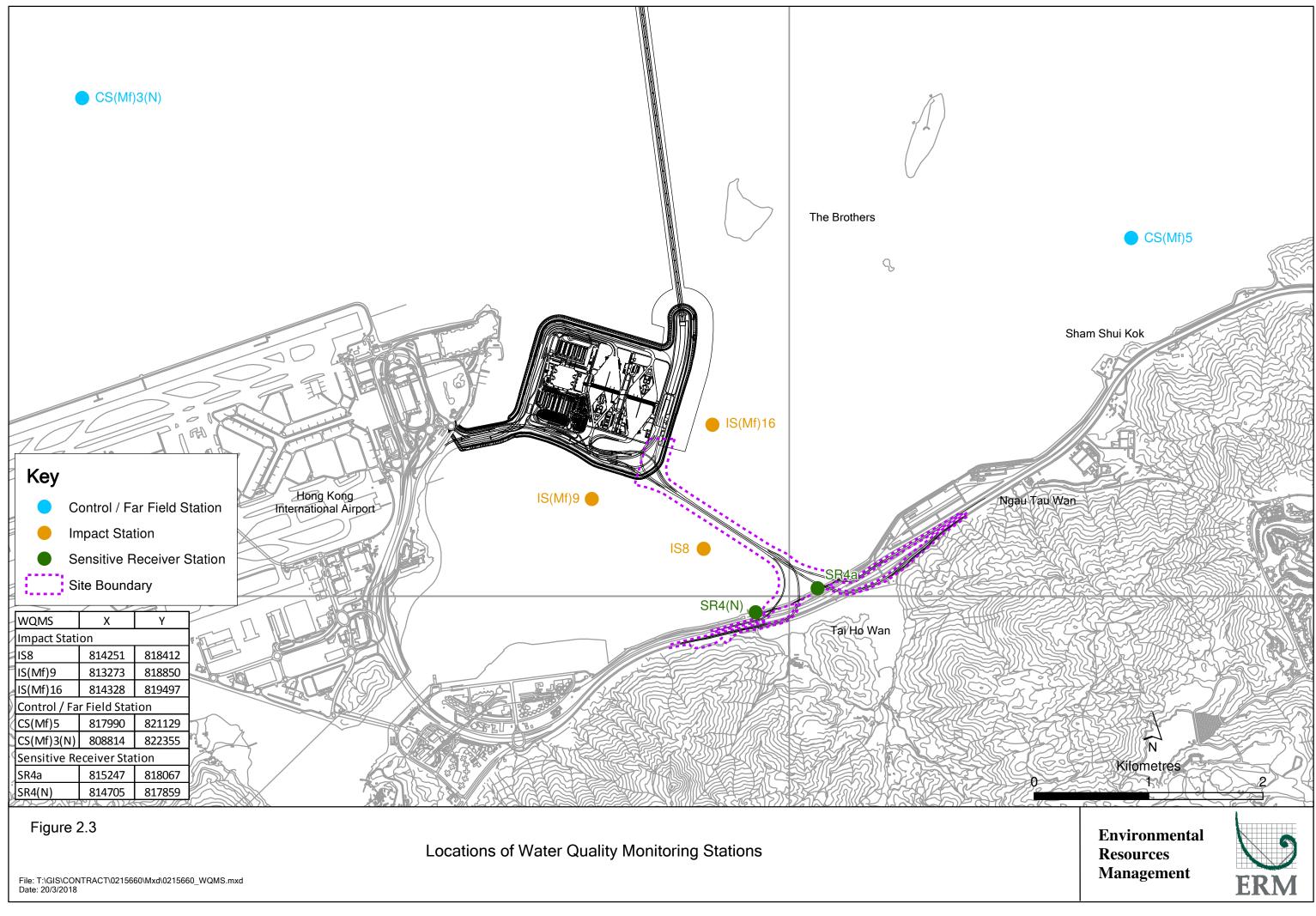
Major noise sources during the noise monitoring included noise from crane operation and excavator, rock breaking and nearby traffic noise and aircraft noise.

2.3 WATER QUALITY MONITORING

2.3.1 Monitoring Requirements and Equipment

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

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



| Station ID | Туре | Coordinates | | *Parameters, unit | Frequency | Depth |
|---------------|--------------------|-------------|----------|------------------------------------|---------------|---------------------|
| ID. | | Easting | Northing | | | |
| IS(Mf)9 | Impact Station | 813273 | 818850 | • Temperature(°C) | Impact | 3 water depths: 1m |
| | (Close to HKBCF | | | pH (pH unit) | monitoring: 3 | below sea surface, |
| | construction site) | | | • Turbidity (NTU) | days per | mid-depth and 1m |
| IS(Mf)16 | Impact Station | 814328 | 819497 | • Water depth (m) | week, at mid- | above sea bed. If |
| | (Close to HKBCF | | | Salinity (ppt) | flood and | the water depth is |
| | construction site) | | | Dissolved | mid-ebb tides | less than 3m, mid- |
| IS8 | Impact Station | 814251 | 818412 | Oxygen (DO) | during the | depth sampling |
| | (Close to HKBCF | | | (mg/L and % of | construction | only. If water |
| | construction site) | | | saturation) | period of the | depth less than 6m, |
| SR4(N) | Sensitive receiver | 814705 | 817859 | Suspended Solid | Contract | mid-depth may be |
| | (Tai Ho Inlet) | | | (SS) (mg/L) | | omitted |
| SR4a | Sensitive receiver | 815247 | 818067 | | | |
| CS(Mf)3(| Control Station | 808814 | 822355 | | | |
| N) | | | | | | |
| CS(Mf)5 | Control Station | 817990 | 821129 | | | |

Table 2.8Locations of Impact Water Quality Monitoring Stations and itsCorresponding Monitoring Requirements

*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.

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

Table 2.9Water Quality Monitoring Equipment

| Equipment | Brand and Model | | |
|------------------------------|--|--|--|
| Multi-parameters | YSI ProDSS / YSI 6920 V2 | | |
| (Dissolved Oxygen, Salinity, | | | |
| Turbidity, Temperature, pH) | | | |
| Positioning Equipment | Furuno GP-170 | | |
| Water Depth Detector | Lowrance Mark 5x / Garmin Striker 4 | | |
| Water Sampler | WildCo Vertical Alpha Bottles 1120-2.2L /1120-3.2L Aquatic Research Instrument Vertical/Horizontal Point Water Sampler 2.2L / 3.0L | | |

2.3.2 Monitoring Schedule for the Reporting Month

The schedule for water quality monitoring in November 2018 is provided in *Appendix F*.

2.3.3 Results and Observations

In total of 13 monitoring events for impact water quality monitoring were conducted at all designated monitoring stations in the reporting month. Impact water quality monitoring results and graphical presentations are provided in *Appendix J*.

No exceedances of Action and Limit Levels were recorded for water quality impact monitoring in the reporting month. No action is required to be undertaken in accordance with the Event Action Plan as presented in Appendix L.

2.4 DOLPHIN MONITORING

2.4.1 Monitoring Requirements

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

2.4.2 Monitoring Equipment

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

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

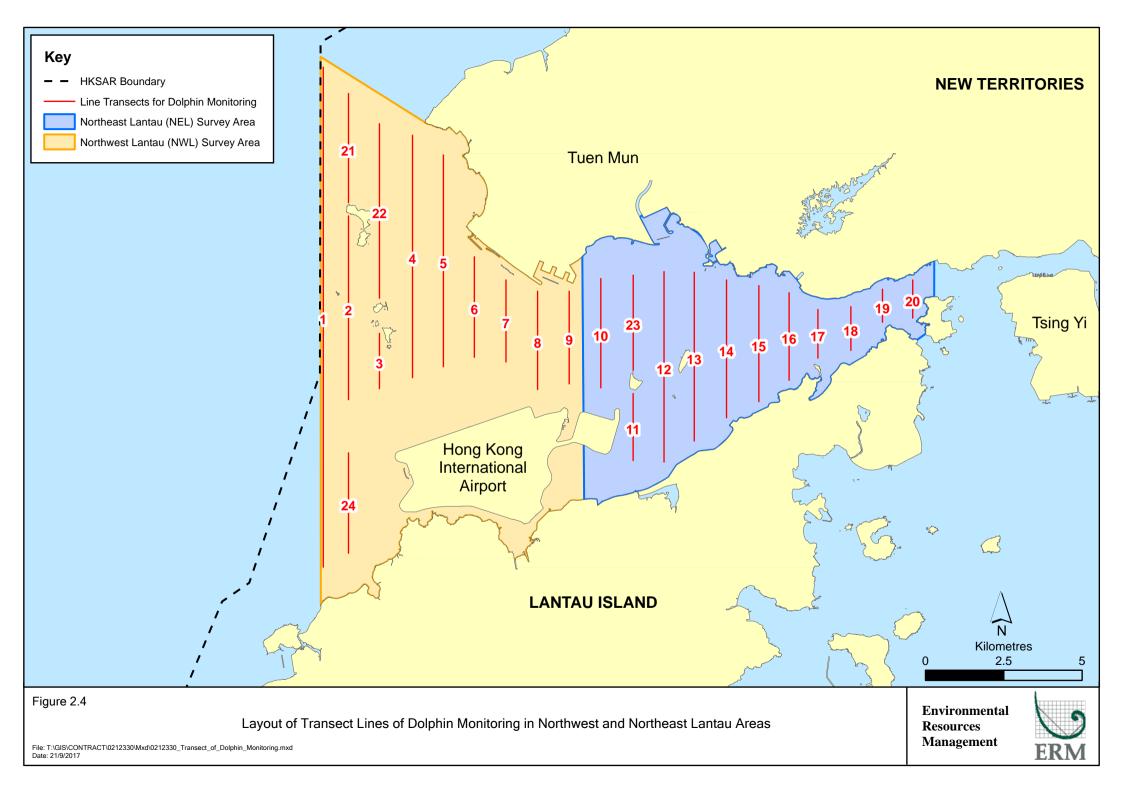
2.4.3 Monitoring Parameter, Frequencies and Duration

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

2.4.4 Monitoring Location

The impact dolphin monitoring was carried out in the NEL and NWL along the line transect as depicted in *Figure 2.4*. The co-ordinates of all transect lines are shown in *Table 2.11* below ⁽¹⁾.

Proposal on the changes of transect lines for dolphin monitoring was approved by EPD on
 28 July 2017 (Reference number: (19) in EP2/G/A/129 Pt. 8).



| | 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 |

2.4.5 Action & Limit Levels

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

2.4.6 Monitoring Schedule for the Reporting Month

Dolphin monitoring was carried out on 1, 6, 8 and 13 November 2018 (*Appendix F*).

2.4.7 Results and Observations

A total of 267.99 km of survey effort was collected, with 83.8% of the total survey effort being conducted under favourable weather conditions (i.e. Beaufort Sea State 3 or below with good visibility) during the surveys in November 2018. Among the two areas, 100.30 km and 167.69 km of survey effort were collected from NEL and NWL survey areas, respectively. The total survey effort conducted on primary and secondary lines were 192.71 km and 75.28 km, respectively. The survey efforts are summarized in *Appendix K*.

Three (3) groups of five (5) Chinese White Dolphins was sighted during the two sets of monitoring surveys in November 2018. The three dolphin sightings was made in NWL, while none was sighted in NEL. During the surveys in November 2018, the three sightings was made during on-effort search, while all of them was sighted on primary line. None of the dolphin groups was associated with operating fishing vessel and was not sighted in the proximity of the Project's alignment. The distribution of dolphin sighting during the reporting month is shown in *Figure 2.5*.

Encounter rates of Chinese White Dolphins are deduced from the survey effort and on-effort sighting data made under favourable conditions (Beaufort 3 or below) in November 2018 are shown in *Tables 2.12 & 2.13*.

Table 2.12Individual Survey Event Encounter Rates

| | | Encounter rate (STG) (no. of on-effort dolphin sightings per 100 km of survey effort) | Encounter rate (ANI) (no. of dolphins from all on- effort sightings per 100 km of survey effort) |
|-------|--|--|---|
| | | Primary Lines Only | Primary Lines Only |
| NEL | Set 1: November 1 st / 6 th | 0.0 | 0.0 |
| INEL | Set 2: November 8 th / 13 th | 0.0 | 0.0 |
| NWL | Set 1: November 1 st / 6 th | 5.8 | 9.7 |
| INVVL | Set 2: November 8 th / 13 th | 0.0 | 0.0 |

Note: Dolphin Encounter Rates are deduced from the two sets of surveys (two surveys in each set) in November 2018 in Northeast (NEL) and Northwest Lantau (NWL)

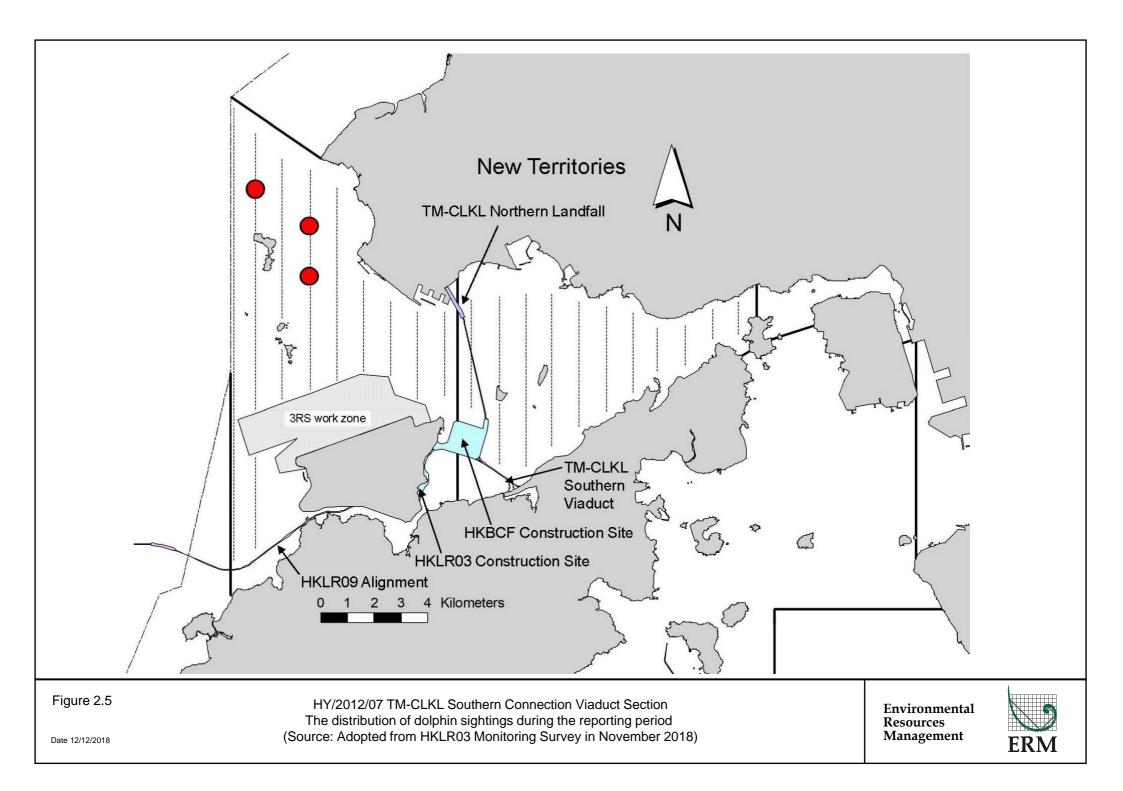


Table 2.13Monthly Average Encounter Rates

| | (no. of on-effort o | rate (STG) dolphin sightings survey effort) | (no. of dolphins | rate (ANI) from all on-effort 00 km of survey prt) |
|------------------|-----------------------|--|-----------------------|--|
| | Primary Lines Only | Both Primary and Secondary Lines | Primary Lines Only | Both Primary and Secondary Lines |
| Northeast Lantau | 0.0 | 0.0 | 0.0 | 0.0 |
| Northwest Lantau | 3.2 | 2.3 | 5.3 | 3.8 |

Note: Overall dolphin encounter rates (sightings per 100 km of survey effort) from all four surveys are conducted in November 2018 on primary lines only as well as both primary lines and secondary lines in Northeast and Northwest Lantau

One (1) Limit Level exceedance was observed for the quarterly dolphin monitoring data between September and November 2018, whilst no unacceptable impact from the construction activities of the TM-CLKL Southern Connection Viaduct Section on Indo-Pacific humpback dolphin *Sousa chinensis* (i.e. Chinese White Dolphin) was noticeable from general observations. Due to monthly variation in dolphin occurrence within the Study Area, it would be more appropriate to draw conclusion on whether any impacts on dolphins have been detected related to the construction activities of the TM-CLKL Southern Connection Viaduct Section in the quarterly EM&A reports, in which comparison on distribution, group size and encounter rates of dolphins between the quarterly impact monitoring period and baseline monitoring period will be made.

2.4.8 Marine Mammal Exclusion Zone Monitoring

Daily 250 m marine mammal exclusion zone monitoring was undertaken during the period of daytime marine works activities. No sighting of Chinese White Dolphin was recorded in November 2018 during the exclusion zone monitoring.

Passive Acoustic Monitoring (PAM) had been decommissioned as no marine piling works was carried out outside the daylight hours since September 2015.

2.5 EM&A SITE INSPECTION

Site inspections were carried out on a weekly basis to monitor the implementation of proper environmental pollution control and mitigation measures under the Contract. In the reporting month, five (5) site inspections were carried out on 2, 7, 14, 21 and 29 November 2018.

Key observations during the site inspections are summarized in Table 2.14.

| Inspection Date | Environmental Observations | Recommendations/ Remarks |
|------------------|--|---|
| 2 November 2018 | Bridge F3 NRMM label should be displayed on the generator. Decolorized NRMM label on the compressor should be replaced. Ramp F Chemical container should be placed in drip tray. | Bridge F3 The Contractor was reminded to display NRMM label on the generator. The Contractor was reminded to replace the decolorized NRMM label on the compressor. Ramp F The Contractor was reminded to place chemical container in drip tray. |
| 7 November 2018 | Viaduct E (Pier E12c) Opening of water barriers should be covered to avoid mosquito breeding and accumulation of refuse in the barriers. Viaduct E (Pier E13c) Chemical containers should be placed in drip tray. | Viaduct E (Pier E12c) The Contractor was reminded to cover the opening of water barriers. Viaduct E (Pier E13c) The Contractor was reminded to place chemical containers in drip tray. |
| 14 November 2018 | Ramp A Chemical containers should be placed in drip tray. Southern Landfall Water should be applied on unpaved road. | Ramp A The Contractor was reminded to place chemical containers in drip tray. Southern Landfall The Contractor was reminded to maintain watering on unpaved road. |
| 21 November 2018 | Viaduct E Chemical containers should be placed in drip tray. General refuse should be cleared. NRMM label should be displayed on the compressor. In addition, drip tray should be provided for the compressor. | Viaduct E The Contractor was reminded to place chemical containers in drip tray. The Contractor was reminded to clear general refuse. The Contractor was reminded to display NRMM label on the compressor and to provide drip tray for the compressor. |
| 29 November 2018 | Portion A NRMM label should be displayed on the forklift. Accumulated refuse should be cleared. Stagnant water in drip tray should be cleared. | Portion A The Contractor was reminded to display NRMM label should be displayed on the forklift. The Contractor was reminded to clear accumulated refuse. The Contractor was reminded to clear stagnant water in drip tray. |

Table 2.14Specific Observations Identified during the Weekly Site Inspections in this
Reporting Month

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

2.6 WASTE MANAGEMENT STATUS

The Contractor has 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 include mainly construction wastes (inert and non-inert) and recyclable materials. 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 2.15*.

| Month/ | Inert C&D | Imported | Inert | Non-inert | Recyclable | Chemical | Mariı | ne Sedimer | ıt (m ³) |
|------------------|---|-----------|---|---|----------------------------------|----------------|---------------|--|----------------------|
| Year | Materials ^(a) (m ³) | Fill (m³) | Constructio n Waste Re- used (m ³) | Constructio n Waste ^(b) (kg) | Materials ^(c) (kg) | Wastes (kg) | Category L | Category M (M _p & M _f) | Category H |
| November 2018 | 5,090 | 0 | 0 | 406,980 | 0 | 2,600 | 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, felled trees 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.

2.7 **ENVIRONMENTAL LICENSES AND PERMITS**

The status of environmental licensing and permit is summarized in Table 2.16 below.

| License/ Permit | License or Permit | Date of Issue | Date of Expiry | License/ | Remarks |
|--|-------------------|---------------|------------------|---------------|---|
| | No. | | | Permit Holder | |
| Environmental Permit | EP-354/2009/D | 13 Mar 2015 | N/A | HyD | Tuen Mun- Chek Lap Kok Link |
| Environmental Permit | EP-353/2009/K | 11 Apr 2016 | N/A | HyD | Hong Kong Boundary Crossing Facilities |
| Construction Dust Notification | 361571 | 5 Jul 2013 | N/A | GCL | |
| Construction Dust Notification | 362093 | 17 Jul 2013 | N/A | GCL | For Area 23 |
| Chemical Waste Registration | 5213-961-G2380-13 | 10 Oct 2013 | N/A | GCL | Chemical waste produced in Contract No. HY/2012/07 |
| | | | | | (Area 1 adjacent to Cheng Tung Road, Siu Ho Wan) |
| Chemical Waste Registration | 5213-961-G2380-14 | 10 Oct 2013 | N/A | GCL | Chemical waste produced in Contract No. HY/2012/07 |
| | | | | | (Area 2 adjacent to Cheung Tung Road, Pak Mong Village) |
| Chemical Waste Registration | 5213-974-G2588-03 | 4 Nov 2013 | N/A | GCL | Chemical waste produced in Contract No. HY/2012/07 |
| | | | | | (WA5 adjacent to Cheung Tung Road, Yam O) |
| Chemical Waste Registration | 5213-951-G2380-17 | 12 Jun 2014 | N/A | GCL | Viaducts A, B, C, D & E |
| Construction Waste Disposal Account | 7017735 | 10 Jul 2013 | N/A | GCL | - |
| Construction Waste Disposal Account | 7019470 | 3 Mar 2014 | N/A | GCL | Vessel CHIT Account |
| Waste Water Discharge License | WT00019017-2014 | 13 May 2014 | , 31 May 2019 | GCL | Discharge for marine portion |
| Waste Water Discharge License | WT00019018-2014 | 13 May 2014 | 31 May 2019 | GCL | Discharge for land portion |
| Construction Noise Permit for night works and works in general holidays | GW-RW0235-18 | 21 Jun 2018 | 18 Dec 2018 | GCL | General works at WA5 |
| Construction Noise Permit for night works and works in general holidays | GW-RS0740-18 | 20 Aug 2018 | 16 Feb 2019 | GCL | Broad Permit for Whole Site Areas |
| Construction Noise Permit for night works and works in general holidays | GW-RS0909-18 | 16 Oct 2018 | 30 Nov 2018 | GCL | Road milling and paving at Airport Road |
| Construction Noise Permit for night works and works in general holidays | GW-RS1009-18 | 7 Nov 2018 | 30 Nov 2018 | GCL | Chung Tung Road Street Light Removal |
| Construction Noise Permit for night works and works in general holidays | GW-RS1085-18 | 28 Nov 2018 | 31 Dec 2018 | GCL | Maintenance of Traffic Sign in Tung Chung |

Table 2.16Summary of Environmental Licensing and Permit Status

2.8 IMPLEMENTATION STATUS OF ENVIRONMENTAL MITIGATION MEASURES

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

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

The landscape and visual (L&V) mitigation measures were also monitored on weekly basis in the reporting period. The monitoring status is summarized in *Appendix C*.

2.9 SUMMARY OF EXCEEDANCES OF THE ENVIRONMENTAL QUALITY PERFORMANCE LIMIT

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

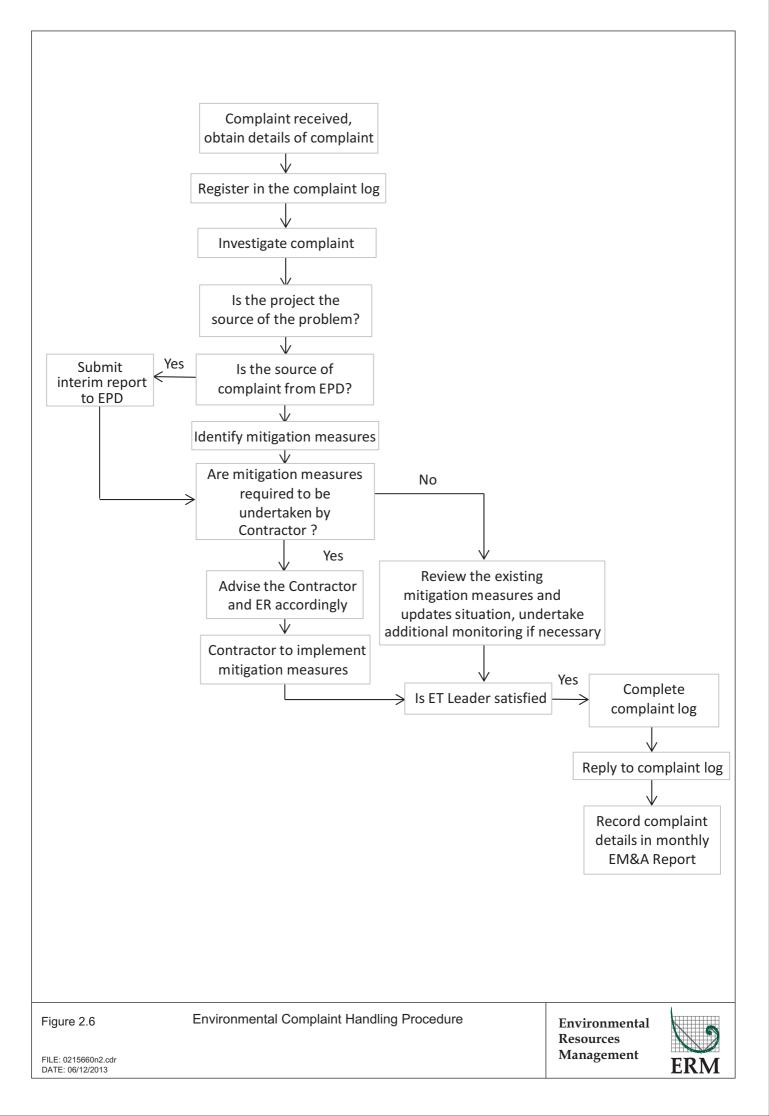
Cumulative statistics on exceedances is provided in *Appendix N*.

2.10 SUMMARY OF COMPLAINTS, NOTIFICATION OF SUMMONS AND SUCCESSFUL PROSECUTIONS

The Environmental Complaint Handling Procedure is provided in Figure 2.6.

There was no complaint, notification of summons or successful prosecution recorded in the reporting period.

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



3.1 CONSTRUCTION PROGRAMME FOR THE COMING MONTH

As informed by the Contractor, the major works for this Contract in December 2018 will be:

Land-based Works

- Reinstatement works along Cheung Tung Road;
- Abutment construction;
- Road works along North Lantau Highway;
- Asphalt paving;
- Construction of sign gantries, light poles and street furniture;
- Parapets and barriers installation; and
- Slope work of Viaducts A, B, C & D.

3.2 KEY ISSUES FOR THE COMING MONTH

Potential environmental impacts arising from the above upcoming construction activities in the next reporting month of December 2018 are mainly associated with dust, noise, marine water quality, marine ecology and waste management issues.

3.3 MONITORING SCHEDULE FOR THE COMING MONTH

The tentative schedules for environmental monitoring in December 2018 are provided in *Appendix F*.

4 CONCLUSIONS AND RECOMMENDATIONS

4.1 CONCLUSIONS

This Sixty-first Monthly EM&A Report presents the findings of the EM&A activities undertaken during the period from 1 to 30 November 2018 in accordance with the Updated EM&A Manual and the requirements of the Environmental Permits (*EP-354/2009/D* and *EP-353/2009/K*).

Air quality (1-hour TSP and 24-hour TSP), noise, water quality monitoring (DO, turbidity and SS) and dolphin monitoring were carried out in the reporting month. Results of air quality, noise and water monitoring complied with the Action and Limit levels in the reporting period.

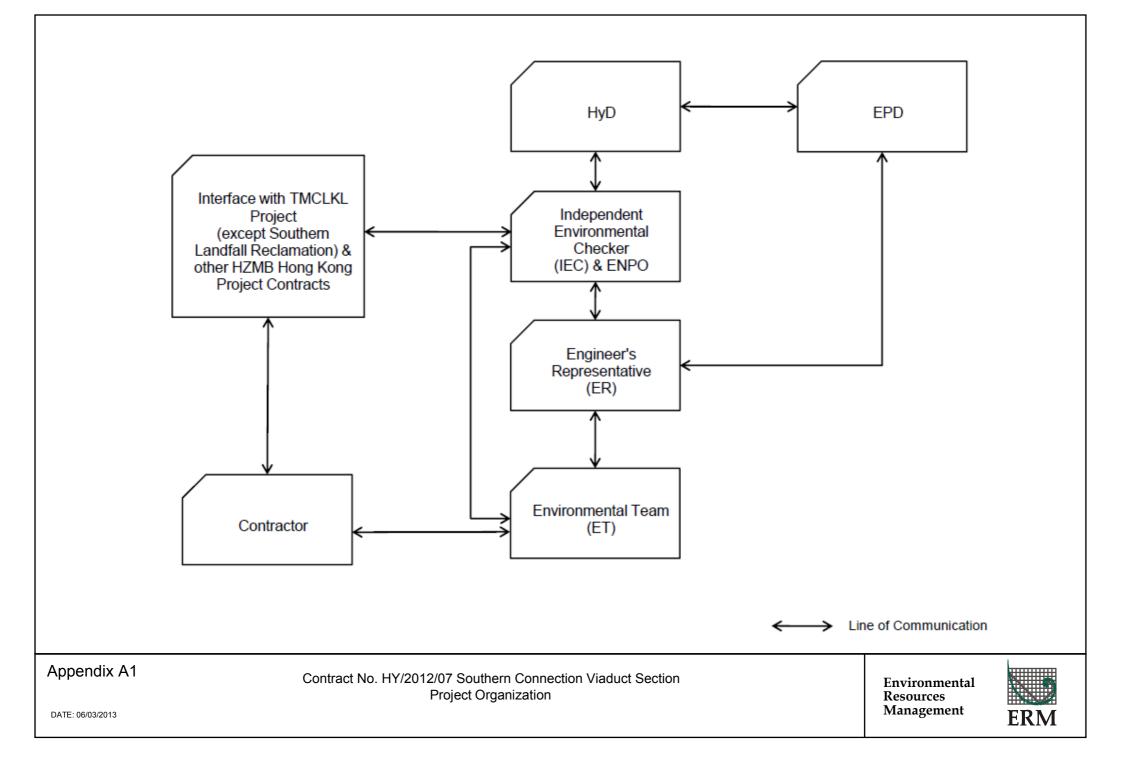
Three (3) groups of five (5) Chinese White Dolphins were sighted during the two sets of monitoring surveys in November 2018. One (1) Limit Level exceedance was observed for the quarterly dolphin monitoring data between September and November 2018, whilst no unacceptable impact from the construction activities of the TM-CLKL Southern Viaduct Section on Indo-Pacific humpback dolphin *Sousa chinensis* (i.e. Chinese White Dolphin) was noticeable from general observations.

Environmental site inspection was carried out five (5) times in November 2018. Recommendations on remedial actions were given to the Contractor for the deficiencies identified during the site audits.

There was no complaint, notification of summons or successful prosecution recorded in the 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

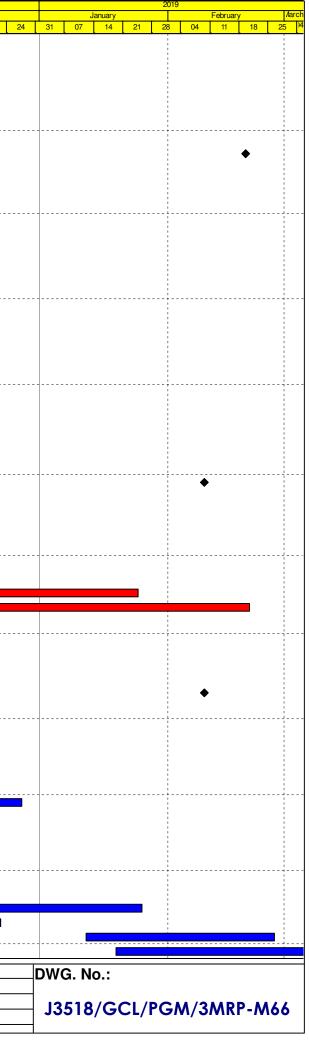
Project Organization for Environmental Works



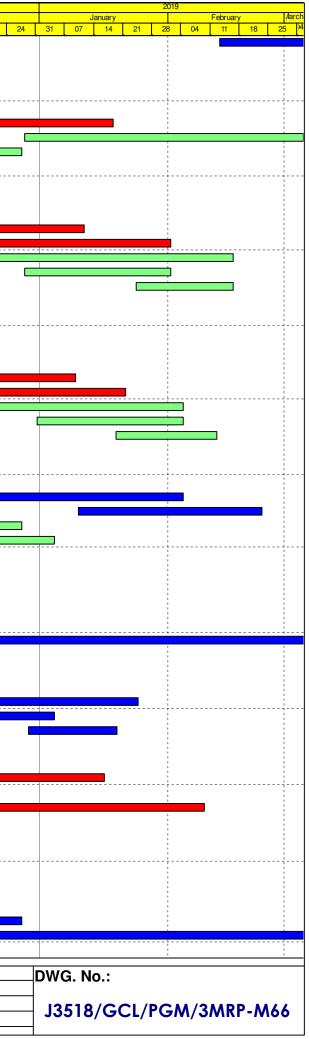
Appendix B

Three-Month Rolling Construction Programme

| | Activity Name | Orig. | Act. Start / FC Early | Rem. | Act. Finish / FC Early | Late Start | Late Finish | Total Float | | | | 2018 |
|---------------------------|--|----------|----------------------------|---------|----------------------------|--------------|------------------------|-------------|--------------|-------------------|----------------|------------------------|
| | | Durn. | Start | Durn. | Finish | | | | Complete | Novemb 9 05 12 | | December 26 03 10 1 |
| HY/2012/07 Tue | n Mun-Chek Lap Kok Link - Southern Connec | ction | | | | | | | | | | |
| Contract Mileston | les | | | | | | | | | | | |
| Key Dates for Co | mpletion | | | | | | | | | | | |
| TMCLK3 Genera | I Location: Section of the Works | | | | | | | | | | | |
| Completion Date | | | | | | | | | | | | |
| General | | | | | | Í | 07 E.h. 40 | 0 | 00/ | | | |
| | KD15 - Section 9: Watermains Tung Chung-HKBCF (EoT 27-Feb-19) KD20 - Section 14: Preserve & Protect Existing Trees (EoT 7-Apr-17) | 0 | | 0 | 19-Feb-19* 21-Nov-18* | | 27-Feb-19 07-Apr-17 | -592 | 0% 0% | | | |
| Design | | 0 | | | | | 07 101 17 | 002 | 070 | | ſ | |
| Detailed Design | | | | | | | | | | | | |
| | I Location: Slope Works Near Viaduct A | | | | | | | | | | | · |
| Feature 9SE-B/F | · · · · · · · · · · · · · · · · · · · | | | | | | | | | | | |
| Slope Works Des | ign | | | | | | | | | | | |
| ARDD0596-1 | IC/SO Approval of Slope Combined AIP/DDA - CP11.01 | 60 | 13-Jun-17 A | 0 | 15-Dec-18 A | | | | 100% | | ÷ | |
| Procurement | | | | | | | | | | | | |
| Precast Parapets | | | | | | | | | | | | |
| | I Location: Viaduct A to F | | | | | | | | | | | |
| Precast Parapet | Manufacture | | | | | | | | _ | | | |
| General | Viedust E - Dreset Devenets/Develors Dreduction | 100 | 05 Mar 19 A | 0 | 01 Nov 19 A | 1 | | | 100% | | | |
| PP6011-06 Construction | Viaduct F - Precast Parapets/Barriers Production | 198 | 05-Mar-18 A | 0 | 21-Nov-18 A | | | | 100% | | | |
| | Ibstructure Works | | | | | | | | | | | |
| | al Location: Ramp C | | | | | | | | | | | |
| Abutment & App | · · · · · · · · · · · · · · · · · · · | | | _ | _ | | | | | | | |
| | E&M & Roadworks | | | | | | <u>.</u> | <u></u> | | | | |
| | Ramp C- maintenance period completion | 0 | | 0 | 09-Feb-19* | | 09-Feb-19 | 0 | 0% | | | · - [|
| | Il Location: Ramp F | | | | | | | | | | | |
| Abutment & App | roach Ramp F | | | | | | | | | | | |
| Ramp Structure | | | | | | 1 | 1 | | | | | |
| | Ramp F - Column and beam (FB1 & FB3) Ramp F - Ramp deck | 86 | 26-Mar-18 A 25-Jun-18 A | 0 | 29-Oct-18 A 13-Dec-18 A | | | | 100% 100% | | <mark>_</mark> | |
| | E&M & Roadworks | 71 | 23 001 10 A | | 10 Dec 10 A | <u> </u> | | | 100 /81 | | | |
| ARF-C7710 | Ramp F - Parapet Panels | 60 | 29-Oct-18 A | 53 | 24-Jan-19 | 26-Jun-18 | 27-Aug-18 | -123 | 80% | | | |
| | Ramp F -Median Barrier, Gantry & TCSS Provisions (KD6) | 48 | 15-Nov-18 A | 48 | 20-Feb-19 | 26-Jul-18 | 19-Sep-18 | -123 | 30% | | 4 | |
| | Associated Works | | | | | | | | | | | |
| | I Location: Viaduct C | | | | | | | | | | | |
| Bridge C4 | M and Roadworks | <u></u> | | | | | | | | | | |
| | Viaduct C - maintenance period completion | 0 | | 0 | 09-Feb-19* | | 09-Feb-19 | 0 | 0% | | | |
| | I Location: Viaduct E | Ū | | | | | | J | 070 | | | |
| Bridge E6 | | | | | | | | | | | | |
| | &M and Roadworks | | | | | | | | | | | |
| | Viaduct E6 - Parapet Panels | 48 | 21-May-18 A | 0 | 01-Dec-18 A | | | | 100% | | _ | – |
| | Viaduct E6 - Gantry & TCSS Provisions (KD4) | 36 | 21-Oct-18 A | 0 | 21-Nov-18 A | | | | 100% | | 3 | |
| | Viaduct E6 - Drainage, Fire Main & E&M Services Viaduct E6 - Railings, Light Poles, Signs & Street Furniture | 60 30 | 08-Oct-18 A 06-Nov-18 A | 0 | 21-Nov-18 A 27-Dec-18 A | | | | 100% 100% | | | |
| VE6-C7830 | Viaduct E6 - Deck Paving & Roadmarking (KD9) | 18 | 11-Dec-18 A | 18 | 11-Dec-18 | 25-Sep-20 | 17-Oct-20 | 547 | 40% | | | |
| Bridge E7 | | | | | | | | | | | | |
| Deck Span Segm | | | | | | | | | | | | |
| | Viaduct E7 - Final Stressing to Span Viaduct E7 - Install, grout permanent bearing and load transfer to E14B | 12 | 21-Apr-18 A 24-Oct-18 A | 0 | 23-Oct-18 A 31-Oct-18 A | | | | 100% 100% | | | |
| | Maduci E7 - Install, grout permanent bearing and load transfer to E14B | 1 | | 0 | | | | | 100% | | | |
| VE7-C7710 | Viaduct E7 - Parapet Panels (E11 - E13B) | 48 | 12-May-18 A | 0 | 25-Jan-19 A | | | | 100% | | | |
| | Viaduct E7 - Parapet (E13B t0 E14B) | 28 | 27-Nov-18 A | 0 | 22-Dec-18 A | | | | 100% | | - | |
| | Viaduct E7 - Gantry & TCSS Provisions (KD4) Viaduct E7 - Drainage, Fire Main & E&M Services | 36 | 12-Jan-19 A | 0 | 26-Feb-19 A | | | | 100% | | | |
| VE/-U/810 | Project ID: TMCLK-DWPM-M66 | 60 | 19-Jan-19 A | - | 02-Apr-19 A | ^ | | | 100% | Denistan | | Α |
| | | | Tuen Mun - Ch | iek Lar | KOK Link - Sr | outnern Conr | nection | | Date | Revision | Check | Approve |
| Actual Work | | | | - | | | | | 21-Nov | | <u> </u> | HE |
| | Layout: J3518-DWP-3MRP Submission - M66 Filter: TASK filters: 3-Month Lookahead, No CC | | Month Rolli | ing Pr | | Page 1 of 3 | | | 21-Nov | | | HF |

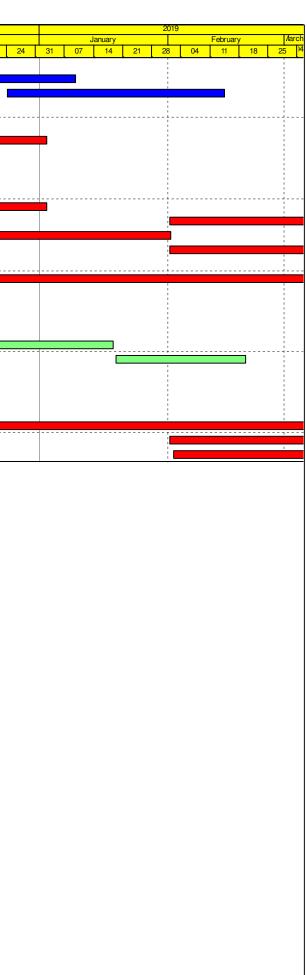


|) | Activity Name | Orig. Durn. | Act. Start / FC Early Start | Rem. Durn. | Act. Finish / FC Early Finish | Late Start | Late Finish | Total Floa | t Physical % Complete | Novemb | | 2018 De |
|---|--|----------------|--------------------------------|---------------|----------------------------------|------------------------|------------------------|------------|--------------------------|----------|--------------------|------------|
| VE7-C7820 | Viadust E7 Dollings Light Deles, Sings & Otrest Functions | | 13-Feb-19 A | | 19-Mar-19 A | | | | 100% | 05 12 | 19 2 | 26 03 10 |
| | Viaduct E7 - Railings, Light Poles, Signs & Street Furniture eral Location: Viaduct F | 30 | 13-Feb-19 A | 0 | 19-Mar-19 A | <u> </u> | | | 100% | | | |
| | | | | | | | | | | | | |
| Bridge F2 | | | | | | | | | | | | |
| | , E&M and Roadworks | | | | | 1 | | 1 | 10001 | | <u></u> | |
| VF2-C7710 | Viaduct F2 - Parapet Panels | 60 | 14-Jul-18 A | 0 | 21-Nov-18 A | 10 11-10 | 11 1 10 | | 100% | | - | |
| VF2-C7720 | Viaduct F2 - Gantry & TCSS Provisions (KD6) | 48 | 21-Nov-18 | 48 | 18-Jan-19 | 16-Nov-18 | 14-Jan-19 | -4 | 0% | | | |
| VF2-C7810 VF2-C7820 | Viaduct F2 - Drainage, Fire Main & E&M Services | 54 30 | 28-Dec-18 11-Nov-18 A | 54 30 | 05-Mar-19 27-Dec-18 | 31-Jan-19 25-Feb-19 | 08-Apr-19 30-Mar-19 | 28 76 | 0% 0% | | | |
| Bridge F3 | Viaduct F2 - Railings, Light Poles, Signs & Street Furniture | 30 | 11-INOV-18 A | 30 | 27-Dec-18 | 25-Feb-19 | 30-IVIAI-19 | 76 | 0% | | | |
| | | | | | | | | | | | · <mark>-</mark> · | |
| Deck Span Seg F10-C6310 | F9-F10 Deck - Span Segment (33 nr) - Crane | 20 | 08-Aug-18 A | 0 | 22-Oct-18 A | | | 1 | 100% | | | |
| | , E&M and Roadworks | 30 | 08-Aug-18 A | 0 | 22-Oct-18 A | | | | 100% | | | |
| VF3-C7710 | Viaduct F3 - Parapet Panels | 42 | 20-Oct-18 A | 42 | 11-Jan-19 | 02-Aug-18 | 19-Sep-18 | -92 | 80% | | | |
| VF3-C7720 | Viaduct F3 - Farapet Parlets Viaduct F3 - Median Barrier, Gantry & TCSS Provisions (KD6) | 42 | 11-Nov-18 A | 42 | 01-Feb-19 | 16-Nov-18 | 14-Jan-19 | -92 | 20% | | | |
| VF3-C7810 | Viaduct F3 - Drainage, Fire Main & E&M Services | 40 54 | 10-Dec-18 | 54 | 16-Feb-19 | 09-Feb-19 | 13-Apr-19 | 47 | 0% | | | |
| VF3-C7820 | Viaduct F3 - Drailage, File Wall & Law Services | 30 | 28-Dec-18 | 30 | 01-Feb-19 | 28-Feb-19 | 03-Apr-19 | 49 | 0% | | | |
| VF3-C7830 | Viaduct F3 - Frainings, Eight Foles, Signs & Silveet Furniture Viaduct F3 - Deck Paving & Roadmarking (KD8) | 18 | 24-Jan-19 | 18 | 16-Feb-19 | 23-Mar-19 | 13-Apr-19 | 47 | 0% | | | 1 |
| Bridge F4 | Viaduo(115 Deok1 aving & Hoadinaning (RD0) | 10 | 24 041113 | 10 | 1010013 | 20 10121 10 | 10 Apr 10 | / | 078 | | | |
| | amont | | <u></u> | | | | | | | | | |
| Deck Span Seg E14B-C6420 | F16 Deck - Grout bearing, release U tendon, stress bar & breakup stitch @ I | 14 | 08-Oct-18 A | 0 | 24-Oct-18 A | | | | 100% | | | |
| VF4-C6910 | Viaduct F4 - Final Stressing | 14 | 25-Oct-18 A | 0 | 09-Nov-18 A | | | - | 100% | | | |
| | , E&M and Roadworks | 14 | 25-00-16 A | 0 | 09-110V-10A | | | | 100% | | | |
| VF4-C7710 | Viaduct F4 - Parapet Panels | 40 | 10-Nov-18 A | 40 | 09-Jan-19 | 04 Aug 19 | 19-Sep-18 | -90 | 90% | | | |
| VF4-C7720 | Viaduct F4 - Farapet Farlets Viaduct F4 - Gantry & TCSS Provisions (KD6) | 36 | 07-Dec-18 | 36 | 21-Jan-19 | 04-Aug-18 30-Nov-18 | 14-Jan-19 | -90 | 90% | | | |
| VF4-C7720 VF4-C7810 | Viaduct F4 - Gantry & TCSS Flovisions (KD6) | 36 | 21-Dec-18 | 36 | 04-Feb-19 | 26-Feb-19 | 09-Apr-19 | -6 | 0% | | · <mark>-</mark> | |
| VF4-C7810 VF4-C7820 | Viaduct F4 - Drainage, Fire Main & Eavy Services | 30 | 31-Dec-18 | 30 | 04-Feb-19 04-Feb-19 | 26-Feb-19 05-Mar-19 | 09-Apr-19 09-Apr-19 | 51 | 0% | | | |
| VF4-C7830 | Viaduct F4 - Nailings, Light Foles, Signs & Sireet Furniture Viaduct F4 - Deck Paving & Roadmarking (KD8) | 18 | 19-Jan-19 | 18 | 12-Feb-19 | 23-Mar-19 | 13-Apr-19 | 51 | 0% | | | |
| Bridge F5 | Viaduci 1 4 - Deck Faving & Hoadinarking (KD6) | 10 | 19-5411-19 | 10 | 12-1 60-19 | 23-1Viai-19 | 13-Api-19 | 51 | 0 /8 | | | |
| | FAM and Basedone | | | | | | | | | | | |
| | , E&M and Roadworks | 40 | 01.0 10.4 | | | | | 1 | 40000 | <u></u> | <mark>.</mark> | |
| VF5-C7710 | Viaduct F5 - Parapet Panels | 48 | 21-Sep-18 A | 0 | 15-Nov-18 A | | | | 100% | | | |
| VF5-C7720 | Viaduct F5 - Gantry & TCSS Provisions (KD6) | 36 | 21-Dec-18 A | 0 | 04-Feb-19A | | | | 100% | | | |
| VF5-C7810 | Viaduct F5 - Drainage, Fire Main & E&M Services | 36 | 10-Jan-19 A | 0 | 23-Feb-19 A | 00 Mar 10 | 00 Arr 10 | 01 | 100% | | | |
| VF5-C7820 | Viaduct F5 - Railings, Light Poles, Signs & Street Furniture | 30 18 | 17-Jan-19 A 12-Dec-18 | 30 18 | 27-Dec-18 | 02-Mar-19 | 06-Apr-19 | 81 81 | 50% | | | |
| VF5-C7830 | Viaduct F5 - Deck Paving & Roadmarking (KD8) | 10 | 12-Dec-18 | 10 | 04-Jan-19 | 23-Mar-19 | 13-Apr-19 | 01 | 0% | | · <mark>-</mark> · | |
| | | | | | | | | | | | | |
| TMCLK3 Gene | eral Location: At-Grade Works Along North Lantau Highway | | | | | | | | | | | |
| Slope Works N | Near Viaduct A | | | | | | | | | | | |
| Slope 9SE-B/F | FR8 | | | | | | | | | | | |
| GFXX540 | 9SE-B/FR8 - method statement submission and approval | 52 | 19-Oct-18 A | 0 | 10-Dec-18 A | | | | 100% | | | |
| GFXX560 | 9SE-B/FR8 - Slopeworks | 85 | 11-Dec-18 A | 0 | 26-Mar-19 A | | | | 100% | | | |
| Slope Works N | Near Viaduct B | | | | | | | | | | | |
| Slope 10SW-A | VF52 | | | | | | | | | | | |
| GFXX492 | Method statement submission and approval | 52 | 19-Oct-18 A | 0 | 10-Dec-18 A | | | | 100% | | | |
| GFXX495 | 10SW-A/F52 - Slopework - Phase 1 | 36 | 11-Dec-18 A | 0 | 24-Jan-19 A | | | | 100% | | | |
| GFXX535 | 10SW-A/F52 - Slopework - Phase 2 | 36 | 21-Nov-18 A | 0 | 04-Jan-19 A | | | - | 100% | | ···· | |
| GFXX545 | 10SW-A/F52 - Slopework with drainage | 18 | 29-Dec-18 A | 0 | 19-Jan-19 A | | 1 | | 100% | | | 1 |
| | Near Viaduct D | | | | | | | | | | | |
| Slope 10NW-C | | | | | | | | | | | | |
| M201205 | 10NW-C/F9 - Fill and compact filled material | 52 | 03-Apr-18 A | 46 | 16-Jan-19 | 14-Feb-17 | 08-Apr-17 | -525 | 80% | | | |
| Slope 10NW-C | | 52 | 03-Apr-18 A | 40 | 10-Jan-19 | 14-FED-1/ | 00-Apr-17 | -525 | 00% | | | |
| M201197 | 10NW-C/F17 - Fill and compact filled material | 60 | 07-May-18 A | 64 | 09-Feb-19 | 20-Jan-17 | 08-Apr-17 | -543 | 90% | | | 1 |
| | Along NLH Eastbound | 00 | 07-1VIAy-10A | 04 | 03-160-19 | 20-Jai - 17 | 00-Apr-17 | -040 | 90% | | | 1 |
| | NONY MET EASIDOUND | | | | | | | | | | | |
| General | | 107 | | - | | | | | 1000 | | | _: _: |
| RW20084 | NLH E/B Viaduct A - Ch200-388 Roadwork (SL & HS) & Reinstate NLH | 127 | 17-Dec-16 A | 0 | 30-Nov-18 A | | | | 100% | | | _ |
| | eral Location: At-Grade Works Along Cheung Tung Road | | | | | | | | | | | |
| | Near Viaduct C | | | | | | | | | | | |
| Slope Works N | C/C26 | | | | | | | | | | | |
| Slope Works N Slope 10NW-C | | 45 | 12-Nov-18 A | 0 | 27-Dec-18 A | | | | 100% | | | |
| | 10NW-C/C26 - method statement submission and approval | | | 0 | 16-Mar-19 A | | | 1 | 100% | | | |
| Slope 10NW-C | 10NW-C/C26 - method statement submission and approval 10NW-C/C26 - slopework | 72 | 17-Dec-18 A | | | | | | | | · <mark>-</mark> | ·-; |
| Slope 10NW-C SWVC1950 SWVC2000 | 10NW-C/C26 - slopework | 72 | 17-Dec-18 A | | | | | | | | | |
| SWVC1950 | 10NW-C/C26 - slopework | | | | | | | | | | | |
| Slope 10NW-C SWVC1950 SWVC2000 | 10NW-C/C26 - slopework PF2 Project ID: TMCLK-DWPM-M66 | - | Tuen Mun - Ch | iek Lap | o Kok Link - So | | | | Date | Revision | Check | |
| Slope 10NW-C SWVC1950 SWVC2000 Slope PF1 & P | 10NW-C/C26 - slopework PF2 Project ID: TMCLK-DWPM-M66 Layout: J3518-DWP-3MRP Submission - M66 | - | Tuen Mun - Ch | iek Lap | | | | | Date 21-Nov | Revision | Check | Appi HF |
| Slope 10NW-C SWVC1950 SWVC2000 Slope PF1 & P | 10NW-C/C26 - slopework PF2 Project ID: TMCLK-DWPM-M66 | - | Tuen Mun - Ch Month Rolli | ing P | o Kok Link - So | Page 2 of 3 | | | | Revision | Check | |



| ID | | Activity Name | Orig. | Act. Start / FC Early | Rem. | Act. Finish / FC Early | Late Start | Late Finish | Total Float | Physical % | | | 20 | 18 | |
|-------|----------------|---|----------|-----------------------|----------|------------------------|------------------------|------------------------|-------------|------------|----------|------------------|-------|-------|--------|
| | | | Durn. | Start | Durn. | Finish | | | | Complete | | November 12 | 19 26 | 03 | Decent |
| SW | VC6990 | 10NW-PF1 & PF2 complete site site clearance | 0 | 21-Nov-18 A | 0 | | | | | 100% | <u> </u> | <u> </u> | | | 10 |
| | VC7000 | 10NW - PF1 slope works | 40 | 21-Nov-18 A | 0 | 09-Jan-19 A | | | | 100% | | | | | |
| SW | VC7010 | 10NW - PF2 slope works | 40 | 24-Dec-18 A | 0 | 14-Feb-19A | | | | 100% | | | | | |
| Re-al | lignment o | of CTR Along Viaduct B | | | | | | | | | | | | | |
| Gene | - | | | | | | | | | | | | | ' | |
| RP0 | 00077-1 | Ch100-300: Street Lighting, thrie beam, bus stop & water point, etc | 48 | 08-Dec-17 A | 34 | 02-Jan-19 | 06-May-17 | 15-Jun-17 | -461 | 90% | | | | | |
| TMCL | K3 Gene | ral Location: At-Grade Works at Southern Landfall | | | | | | | | | | | | i | |
| | CF Area | | | | | | | | | | | | | | |
| Gene | | | | <u> </u> | <u></u> | <u>.</u> | <u>.</u> | <u> </u> | <u></u> | | | | | I. | |
| | /30014 | South Landfall - DN300 Fresh water main works installation & connection (I | 60 | 23-Jul-18 A | 34 | 02-Jan-19 | 07-Mar-18 | 19-Apr-18 | -211 | 80% | | | | | |
| | /30014 | South Landial - Dissources in water main works installation & connection (r South Landfall - Stormwater drainage works (Portion B) | 60 | 01-Feb-19 | 60 | 16-Apr-19 | 20-Apr-18 | 03-Jul-18 | -211 | 0% | | | | | |
| | /30024 | South Landfall - Embankment fill slope)Portion B) | 60 | 21-Nov-18 | 60 | 01-Feb-19 | 02-Feb-18 | 20-Apr-18 | -236 | 0% | | | | | |
| | /30024 | South Landfall - Stormwater drainage works | 60 | 01-Feb-19 | 60 | 16-Apr-19 | 20-Apr-18 | 03-Jul-18 | -236 | 0% | | | | | |
| | /30032 | South Landfall - Fire mains | 60 | 19-Mar-18 A | 2 | 22-Nov-18 | 26-Oct-18 | 27-Oct-18 | -22 | 98% | | | | i. | |
| | /30100 | South Landfall - New proposed maintenance access | 90 | 21-Nov-18 | 90 | 12-Mar-19 | 05-Jun-18 | 19-Sep-18 | -140 | 0% | | | | | |
| | | ral Location: Watermain from Tung Chung to Southern Landf | all | | | | | | | | | | | | |
| | rmain Wo | <u> </u> | un | | | | | | | | | | | | |
| | | 85 | | | | | | | | | | | | | |
| Gene | | Obstiller Provide A Testine (MMbels DN460 Fresh Meterore) | 40 | 01 No. 10 | 40 | 10 1-1 10 | 00 No. 40 | 00 1 10 | - | 00(| | | | | |
| | 00070 00080 | Sterilisation of Pipes & Testing of Whole DN450 Fresh Watermain | 48 24 | 21-Nov-18 | 48 24 | 18-Jan-19 19-Feb-19 | 29-Nov-18 28-Jan-19 | 26-Jan-19 27-Feb-19 | / | 0% | | · <mark>-</mark> | | | |
| | | WSD inspection / Final Connection of Whole DN450 Watermain | 24 | 19-Jan-19 | 24 | 19-Feb-19 | 28-Jan-19 | 27-Feb-19 | 1 | 0% | | | | I. | |
| | | ral Location: Landscaping Works & Establishment Works | | | | | | | | | | | | 1 | |
| Lanso | cape Soft | works | | | | | | | | | | | | | |
| Gene | | | | | | | | | | | | | | i | |
| LWC | 00010 | Landscaping Works at NLH/CTR (Slope Areas) | 120 | 21-Nov-18 | 120 | 17-Apr-19 | 06-Mar-18 | 01-Aug-18 | -212 | 0% | | | | | |
| LWC | 00012 | Deliver & Stockpile Top Soil (29,000 cu.m) to BCF Near Ramp F | 120 | 01-Feb-19 | 120 | 03-Jul-19 | 20-Apr-18 | 11-Sep-18 | -236 | 0% | | | | | |
| LWC | 00020 | Irrigation System for Soft Landscape Works | 100 | 02-Feb-19 | 100 | 10-Jun-19 | 21-May-18 | 17-Sep-18 | -212 | 0% | | | 1 | ı | |

| Planned Bar | Project ID: TMCLK-DWPM-M66 Layout: J3518-DWP-3MRP Submission - M66 Filter: TASK filters: 3-Month Lookahead, No CC | S-Month Rolling Programme (Page S of S Pages) | Date 21-Nov | Revision | Check H | Approved F |
|--------------|---|---|----------------|----------|------------|---------------|
| Critical Bar | Hilter: TASK filters: 3-Month Lookanead, No CC Milestones, No Level of Effort. | (Progress as of 21-Nov-18) | | | | |



DWG. No.: J3518/GCL/PGM/3MRP-M66 Appendix C

Environmental Mitigation and Enhancement Measure Implementation Schedules

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

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

| EIA Reference | EM&A Manual | Environmental Protection Measures | Location/ Timing | Implementation Agent | Relevant Standard or Requirement | - | lement Stages | | Status |
|------------------|----------------|--|--|-------------------------|---|---|------------------|---|--------|
| | Reference | | | | | D | C | 0 | |
| AIR QUALIT | Y | | | | | | | | |
| 4.8.1 | 3.8 | An effective watering programme of eight daily watering with complete coverage, is estimated to reduce by 50%. This is recommended for all areas in order to reduce dust levels to a minimum; | All areas / throughout construction period | Contractor | TMEIA Avoid smoke impacts and disturbance | | Y | | <> |
| 4.8.1 | 3.8 | The Contractor shall, to the satisfaction of the Engineer, install effective dust suppression measures and take such other measures as may be necessary to ensure that at the Site boundary and any nearby sensitive receiver, dust levels are kept to acceptable levels. | All areas / throughout construction period | Contractor | TMEIA Avoid dust generation | | Y | | • |
| 4.8.1 | 3.8 | The Contractor shall not burn debris or other materials on the works areas. | All areas / throughout construction period | Contractor | TMEIA Avoid dust generation | | Ŷ | | ✓ |
| 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 | | Ŷ | | <> |
| 4.8.1 | 3.8 | Where breaking of oversize rock/concrete is required, watering shall be implemented to control dust. Water spray shall be used during the handling of fill material at the site and at active cuts, excavation and fill sites where dust is likely to be created. | All areas / throughout construction period | Contractor | TMEIA Avoid dust generation | | Ŷ | | ✓ |
| 4.8.1 | 3.8 | Open dropping heights for excavated materials shall be controlled to a maximum height of 2m to minimise the fugitive dust arising from unloading. | All areas / throughout construction period | Contractor | TMEIA Avoid dust generation | | Ŷ | | ✓ |
| 4.8.1 | 3.8 | During transportation by truck, materials shall not be loaded to a level higher than the side and tail boards, and shall be dampened or covered before transport. | All areas / throughout construction period | Contractor | TMEIA Avoid dust generation | | Y | | ✓ |

| EIA Reference | EM&A Manual | Environmental Protection Measures | Location/Timing | Implementation Agent | Relevant Standard or Requirement | | ement Stages | | Status |
|------------------|----------------|---|--|-------------------------|---|----|-----------------|----------|----------|
| | Reference | | | | | D | C | 0 | |
| 4.8.1 | 3.8 | Materials having the potential to create dust shall not be loaded to a level higher than the side and tail boards, and shall be covered by a clean tarpaulin. The tarpaulin shall be properly secured and shall extend at least 300mm over the edges of the side and tail boards. | All areas / throughout construction period | Contractor | TMEIA Avoid dust generation | | Ŷ | | ✓ |
| 4.8.1 | 3.8 | No earth, mud, debris, dust and the like shall be deposited on public roads. Wheel washing facility shall be usable prior to any earthworks excavation activity on the site. | All site exits / throughout construction period | Contractor | TMEIA Avoid dust | | Ŷ | | * |
| 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 | | Ŷ | | • |
| 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 | | Ŷ | | ✓ |
| Noise | i. | | | | A | .4 | .i | i | i |
| 5.11 | Section 4 | Noise monitoring | All existing representative sensitive receivers / during North Lantau Viaduct construction | Contractor | EM&A Manual | | Y | | • |
| WATER QUA | LITY | | | | å | .1 | 4 | L | L |
| General Ma | rine Works | | | | | | | | |
| 6.10 | - | Bored piling to be undertaken within a metal casing. | Marine viaducts of TM- CLKL and HKLR/ bored piling | Contractor | TM-EIAO | | Y | | ✓ |
| 6.10 | - | Barges and hopper dredgers shall have tight fitting seals to their bottom openings to prevent leakage of material. | All areas/ throughout construction period | Contractor | Marine Fill Committee Guidelines. DASO permit conditions. | | Ŷ | | * |

| EIA Reference | EM&A Manual | Environmental Protection Measures | Location/ Timing | Implementation Agent | Relevant Standard or Requirement | - | lement Stages | | Status |
|------------------|----------------|--|---|-------------------------|---|---|------------------|---|--------|
| | Reference | | | | | D | С | 0 | |
| 6.10 | - | Any pipe leakages shall be repaired quickly. Plant should not be operated with leaking pipes. | All areas/ throughout construction period | Contractor | Marine Fill Committee Guidelines. DASO permit conditions. | | Y | | ✓ |
| 6.10 | - | Loading of barges and hoppers shall be controlled to prevent splashing of dredged material to the surrounding water. Barges or hoppers shall not be filled to a level which will cause overflow of materials or pollution of water during loading or transportation. | All areas/ throughout construction period | Contractor | Marine Fill Committee Guidelines. DASO permit conditions. | | Ŷ | | ✓ |
| 6.10 | - | Excess material shall be cleaned from the decks and exposed fittings of barges and hopper dredgers before the vessel is moved | All areas/ throughout construction period | Contractor | Marine Fill Committee Guidelines. DASO permit conditions. | | Y | | ✓ |
| 6.10 | - | Adequate freeboard shall be maintained on barges to reduce the likelihood of decks being washed by wave action; | All areas/ throughout construction period | Contractor | Marine Fill Committee Guidelines. DASO permit conditions. | | Ŷ | | ✓ |
| 6.10 | - | All vessels shall be sized such that adequate clearance is maintained between vessels and the sea bed at all states of the tide to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash. | All areas/ throughout construction period | Contractor | Marine Fill Committee Guidelines. DASO permit conditions. | | Y | | ✓ |
| 6.10 | - | The works shall not cause foam, oil, grease, litter or other objectionable matter to be present in the water within and adjacent to the works site. | All areas/ throughout construction period | Contractor | Marine Fill Committee Guidelines. DASO permit conditions. | | Y | | ✓ |
| Temporary S | Staging work | • | | | Å | • | | • | |
| | 5.2 | Regular inspection for the accumulation of floating refuse and collection of floating refuse if required | During temporary staging works | Contractor | | | Y | | ✓ |
| | 5.2 | Provision of temporary drainage system on the temporary staging for collection of construction site runoff to allow appropriate treatment before discharge into the sea | During temporary staging works | Contractor | | | Ŷ | | ✓ |
| | 5.2 | Wastewater generated from construction works such as bored / drilling water will be collected, treated, neutralized and de-silted through silt trap or sedimentation tank before disposal | During temporary staging works | Contractor | | | Ŷ | | ✓ |
| | 5.2 | One additional water quality monitoring station is | During temporary | Contractor | | | Y | | ✓ |

| EIA Reference | EM&A Manual | Environmental Protection Measures | Location/ Timing | Implementation Agent | Relevant Standard or Requirement | - | lement Stage | | Status |
|------------------|----------------|--|--|-------------------------|-------------------------------------|---|-----------------|---|--------|
| | Reference | | | | | D | C | 0 | |
| | | proposed at station SR4a In case elevated SS or turbidity is identified during the water quality monitoring, the source of pollution will be tracked down and be removed as soon as possible. In case depletion of dissolved oxygen is identified, artificial aeration will be arranged at the monitoring station SR4a, | staging works | | | | | | |
| Land Works | | | | | | | | | |
| 6.10 | - | Wastewater from temporary site facilities should be controlled to prevent direct discharge to surface or marine waters. | All areas/ throughout construction period | Contractor | TM-EIAO | | Y | | ✓ |
| 6.10 | - | Sewage effluent and discharges from on- site kitchen facilities shall be directed to Government sewer in accordance with the requirements of the WPCO or collected for disposal offsite. The use of soakaways shall be avoided. | All areas/ throughout construction period | Contractor | TM-EIAO | | Υ | | ✓ |
| 6.10 | - | Storm drainage shall be directed to storm drains via adequately designed sand/silt removal facilities such as sand traps, silt traps and sediment basins. Channels, earth bunds or sand bag barriers should be provided on site to properly direct stormwater to such silt removal facilities. Catchpits and perimeter channels should be constructed in advance of site formation works and earthworks. | All areas/ throughout construction period | Contractor | TM-EIAO | | Y | | • |
| 6.10 | - | Silt removal facilities, channels and manholes shall be maintained and any deposited silt and grit shall be removed regularly, including specifically at the onset of and after each rainstorm. | All areas/ throughout construction period | Contractor | TM-EIAO | | Y | | • |
| 6.10 | - | Temporary access roads should be surfaced with crushed stone or gravel. | All areas/ throughout construction period | Contractor | TM-EIAO | | Y | | ✓ |
| 6.10 | - | Rainwater pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities. | All areas/ throughout construction period | Contractor | TM-EIAO | | Y | | ✓ |
| 6.10 | - | Measures should be taken to prevent the washout of construction materials, soil, silt or debris into any drainage system. | All areas/ throughout construction period | Contractor | TM-EIAO | | Y | | • |

| EIA Reference | EM&A Manual | Environmental Protection Measures | Location/ Timing | Implementation Agent | Relevant Standard or Requirement | - | lement Stages | | Status |
|------------------|----------------|---|--|-------------------------|-------------------------------------|---|------------------|---|--------|
| | Reference | | | | | D | С | 0 | |
| 6.10 | - | Open stockpiles of construction materials (e.g. aggregates and sand) on site should be covered with tarpaulin or similar fabric during rainstorms. | All areas/ throughout construction period | Contractor | TM-EIAO | | Y | | ✓ |
| 6.10 | 5.8 | Manholes (including any newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris from getting into the drainage system, and to prevent storm run-off from getting into foul sewers. | All areas/ throughout construction period | Contractor | TM-EIAO | | Υ | | ✓ |
| 6.10 | - | Discharges of surface run-off into foul sewers must always be prevented in order not to unduly overload the foul sewerage system. | All areas/ throughout construction period | Contractor | TM-EIAO | | Y | | ✓ |
| 6.10 | - | All vehicles and plant should be cleaned before they leave the construction site to ensure that no earth, mud or debris is deposited by them on roads. A wheel washing bay should be provided at every site exit. | All areas/ throughout construction period | Contractor | TM-EIAO | | Υ | | • |
| 6.10 | - | Wheel wash overflow shall be directed to silt removal facilities before being discharged to the storm drain. | All areas/ throughout construction period | Contractor | TM-EIAO | | Y | | ✓ |
| 6.10 | - | Section of construction road between the wheel washing bay and the public road should be surfaced with crushed stone or coarse gravel. | All areas/ throughout construction period | Contractor | TM-EIAO | | Y | | ✓ |
| 6.10 | - | Wastewater generated from concreting, plastering, internal decoration, cleaning work and other similar activities, shall be screened to remove large objects. | All areas/ throughout construction period | Contractor | TM-EIAO | | Y | | • |
| 6.10 | - | Vehicle and plant servicing areas, vehicle wash bays and lubrication facilities shall be located under roofed areas. The drainage in these covered areas shall be connected to foul sewers via a petrol interceptor in accordance with the requirements of the WPCO or collected for offsite disposal. | All areas/ throughout construction period | Contractor | TM-EIAO | | Y | | 1 |
| 6.10 | - | The Contractor shall prepare an oil / chemical cleanup plan and ensure that leakages or spillages are contained and cleaned up immediately. | All areas/ throughout construction period | Contractor | TM-EIAO | | Y | | ✓ |
| 6.10 | - | Waste oil should be collected and stored for recycling or disposal, in accordance with the Waste Disposal Ordinance. | All areas/ throughout construction period | Contractor | TM-EIAO Waste Disposal Ordinance | | Y | | ✓ |

| EIA Reference | EM&A Manual | Environmental Protection Measures | Location/ Timing | Implementation Agent | Relevant Standard or Requirement | Imp | lemen Stage | | Status |
|------------------|----------------|--|---|-------------------------------------|-------------------------------------|-----|----------------|---|--------|
| | Reference | | | | | D | С | 0 | |
| 6.10 | - | All fuel tanks and chemical storage areas should be provided with locks and be sited on sealed areas. The storage areas should be surrounded by bunds with a capacity equal to 110% of the storage capacity of the largest tank. | All areas/ throughout construction period | Contractor | TM-EIAO | | Y | | ✓ |
| 6.10 | - | Surface run-off from bunded areas should pass through oil/grease traps prior to discharge to the stormwater system. | All areas/ throughout construction period | Contractor | TM-EIAO | | Y | | • |
| 6.10 | - | Roadside gullies to trap silt and grit shall be provided prior to discharging the stormwater into the marine environment. The sumps will be maintained and cleaned at regular intervals. | Roadside/design and operation | Design Consultant/ Contractor | TM-EIAO | Y | | Υ | • |
| 6.10 | Section 5 | All construction works shall be subject to routine audit to ensure implementation of all EIA recommendations and good working practice. | All areas/ throughout construction period | Contractor | EM&A Manual | | Y | | • |
| Water Quali | ity Monitoring | 3 | | | | | | | |
| 6.10 | Section 5 | Water quality monitoring shall be undertaken for suspended solids, turbidity, and dissolved oxygen. Nutrients and metal parameters shall also be measured for Mf sediment operations (only HKBCF and HKLR required handling of Mf sediment) during baseline, backfilling and post construction period. One year operation phase water quality monitoring at designated stations | Designated monitoring stations as defined in EM&A Manual, Section 5/ Before, through-out marine construction period, post construction and monthly operational phase water quality monitoring for a year. | Contractor | EM&A Manual | | Υ | Y | • |
| Ecology | | | | | | | | | |
| 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 | Ŷ | • |
| 8.14 | 6.3 | Specification for bored piling monitoring | Detailed Design | Design Consultant | TMEIA | Y | | | n/a |
| 8.14 | 6.3 | Implement any recommendations of the bored piling monitoring | Southern marine viaduct/Throughout | Contractor | TMEIA | | Y | | ✓ |

| EIA Reference | EM&A Manual | Environmental Protection Measures | Location/ Timing | Implementation Agent | Relevant Standard or Requirement | Implementation Stages | | | Status |
|------------------|----------------|---|---|--|-------------------------------------|--------------------------|---|---|-----------------------------------|
| | Reference | | | | | D | C | 0 | |
| | | | construction during bored piling | | | | | | |
| 8.14 | 6.3,6.5 | Avoidance of peak CWD calving season in May and June for driving of metal caissons during bored piling works | Southern marine viaduct/ May and June during bored piling | Contractor | TMEIA | | Y | | n/a |
| 8.14 | 6.3,6.5 | Specification and implementation of 250m dolphin exclusion zone. | All marine bored piling and temporary staging works areas/Detailed Design/during all marine bored piling and temporary staging works | Design Consultant/ Contractor | TMEIA | Y | Ŷ | | • |
| 8.15 | 6.3, 6.5 | Specification and deployment of an artificial reef of an area of 3,600 m ² in an area where fishing activities are prohibited. | Area of prohibited fishing activities/Detailed Design/towards end of construction period | TM-CLKL/ HKBCF Design Consultant/ TM-CLKL/ HKBCF Contractor | TMEIA | Y | | Υ | n/a To be enforced 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 marine bored piling and the whole lifespan of temporary staging works. | All areas/ Detailed Design/during marine bored piling and temporary staging works | Design Consultant/ Contractor | TMEIA | Y | Y | | • |
| 8.15 | 6.3, 6.4 | Pre-construction phase survey and coral translocation | Tai Ho Wan (donar site) and Yam Tsui Wan (receptor site) / Detailed Design/Prior to construction | Design Consultant/ Contractor | TMEIA | Y | Y | | n/a |
| 8.15 | 6.5 | Audit coral translocation success | Yam Tsui Wan (receptor site)/Post translocation | Contractor | TMEIA | | Y | | Completed in October 2014 |
| 7.13 | 6.5 | Undertaken gabion wall works in Stream NL1 in the dry season | North Lantau slope works/dry | Contractor | TMEIA | | Y | | n/a |

| EIA Reference | EM&A Manual | Environmental Protection Measures | Location/ Timing | Implementation Agent | Relevant Standard or Requirement | Imp | lement Stage | | Status |
|------------------|----------------|---|--|-------------------------------------|-------------------------------------|-----|-----------------|---|---|
| | Reference | | | | | D | С | 0 | |
| | | | season/construction phase | | | | | | p ⁴ |
| 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. To be approved by AFCD/LCSD |
| 7.13 | 6.5 | Spoil heaps shall be covered at all times. | All areas / Throughout construction period | Contractor | TMEIA | | Y | | ✓ |
| 7.13 | 6.5 | Avoid damage and disturbance to the remaining and surrounding natural habitat | All areas / Throughout construction period | Contractor | TMEIA | | Y | | <> |
| 7.13 | 6.5 | Placement of equipment in designated areas within the existing disturbed land | All areas / Throughout construction period | Contractor | TMEIA | | Y | | <> |
| 7.13 | 6.5 | Disturbed areas to be reinstated immediately after completion of the works. | All areas / Throughout construction period | Contractor | TMEIA | | Y | | ✓ |
| 7.13 | 6.5 | Construction activities should be restricted to the proposed works boundary | All areas / Throughout construction period | Contractor | TMEIA | | Y | | ✓ |
| LANDSCAPE | AND VISUAL | A | | | 4 | | | | |
| 10.9 | 7.6 | Round angle, patterned finishes, and oval shaped pier were considered in the viaduct design, and further details will be developed under ACABAS submission (DM3) | All areas/detailed design | Design Consultant | TMEIA | Y | | | n/a |
| 10.9 | 7.6 | Details of the street furniture will be developed in the detailed design stage (DM4) | All areas/detailed design | Design Consultant | TMEIA | Y | | | n/a |
| 10.9 | 7.6 | Aesthetic design of the viaduct, retaining wall and other structures will be developed under ACABAS submission (DM5) | All areas/detailed design | Design Consultant | TMEIA | Y | | | n/a |
| 10.9 | 7.6 | Existing trees on boundary of the Project Area shall be carefully protected during construction. Detailed Tree Protection Specification shall be provided in the Contract Specification. Under this specification, the Contractor shall be required to submit, for approval, a detailed working method statement for the protection of trees | All areas/detailed design/ during construction | Design Consultant/ Contractor | TMEIA | Ŷ | Y | | ✓ |

| EIA Reference | EM&A Manual | Environmental Protection Measures | Location/ Timing | Implementation Agent | Relevant Standard or Requirement | Imp | lemen Stage | | Status |
|------------------|----------------|--|---|-------------------------------------|-------------------------------------|-----|----------------|---|---|
| | Reference | | | | | D | C | 0 | |
| | | prior to undertaking any works adjacent to all retained trees, including trees in contractor's works areas. (Tree protection measures will be detailed at Tree Removal Application stage) (CM1) | | | | | | | |
| 10.9 | 7.6 | Trees unavoidably affected by the works shall be transplanted where practical. Trees will be transplanted straight to their final receptor site and not held in a temporary nursery. A detailed Tree Transplanting Specification shall be provided in the Contract Specification. Sufficient time for necessary tree root and crown preparation periods shall be allowed in the project programme (CM2) | All areas/detailed design/ during construction | Design Consultant/ Contractor | TMEIA | Y | Y | | ✓ Tree transplanted as Contract Specification |
| 10.9 | 7.6 | Hillside and roadside screen planting to proposed roads, associated structures and slope works (CM3). | All areas/detailed design/ during construction/post construction | Design Consultant/ | TMEIA | Y | Y | | • |
| 10.9 | 7.6 | Hydroseeding or sheeting of soil stockpiles with visually unobtrusive material (in earth tone) (CM4) | All areas/detailed design/ during construction/post construction | Design Consultant/ Contractor | TMEIA | Y | Y | | • |
| 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 | | • |
| 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 | | • |

| EIA Reference | EM&A Manual | Environmental Protection Measures | Location/ Timing | Implementation Agent | Relevant Standard or Requirement | Imp | Implementation Stages | | Status |
|------------------|----------------|---|--|-------------------------------------|-------------------------------------|-----|--------------------------|---|--|
| | Reference | | | | | D | C | 0 | |
| 10.9 | 7.6 | Recycle/Reuse all felled trees and vegetation, e.g. mulching (CM9) | All areas/detailed design/ during construction | Design Consultant/ Contractor | TMEIA | Y | Y | | n/a No felled trees or vegetation suitable for recycle |
| 10.9 | 7.6 | Compensatory tree planting shall be provided to the satisfaction of relevant Government departments. Required numbers and locations of compensatory trees shall be determined and agreed separately with Government during the Tree Felling Application process under ETWBTC 3/2006 (CM10). | All areas/detailed design/ during construction | Design Consultant/ Contractor | TMEIA | Y | Y | | • |
| 10.9 | 7.6 | Re-vegetation of affected woodland/shrubland with native species (OM1) | All areas/detailed design/ during construction/ during operation | Design Consultant/ Contractor | TMEIA | Y | Υ | Υ | n/a. To be implemented by AFCD/HyD/ L CSD |
| 10.9 | 7.6 | Tall buffer screen tree / shrub / climber planting should be incorporated to soften hard engineering structures and facilities (OM2) | All areas/detailed design/ during construction/ during operation | Design Consultant/ Contractor | TMEIA | Y | Y | Ŷ | n/a To be implemented by HyD/LCSD |
| 10.9 | 7.6 | Streetscape elements (e.g. paving, signage, street furniture, lighting etc.) shall be sensitively designed in a manner that responds to the local context, and minimises potential negative landscape and visual impacts. Lighting units should be directional and minimise unnecessary light spill (OM3) | All areas/detailed design/ during construction / during operation | Design Consultant/ Contractor | TMEIA | Y | Y | Ŷ | n/a. To be implemented by HyD/LCSD |
| 10.9 | 7.6 | Structure, ornamental tree / shrub / climber planting should be provided along roadside amenity strips, central dividers and newly formed slopes to enhance the townscape quality and further greenery enhancement | All areas/detailed design/ during construction / during operation | Design Consultant/ Contractor | TMEIA | Y | Y | Y | n/a. To be implemented by |

| EIA Reference | EM&A Manual | Environmental Protection Measures | Location/ Timing | Implementation Agent | Relevant Standard or Requirement | Imp | lemen Stage | | Status |
|------------------|----------------|---|--|-------------------------------------|--|-----|----------------|---|--|
| | Reference | | | | | D | С | Ο | |
| | | (OM4) | | | • | | | | HyD/LCSD |
| 10.9 | 7.6 | Aesthetically pleasing design (visually unobtrusive and non-reflective) as regard to the form, material and finishes | All areas/detailed design/ during construction / during operation | Design Consultant/ Contractor | TMEIA | Y | Y | Y | n/a. To be implemented by HyD |
| WASTE | | | | | | | | | |
| 12.6 | | The Contractor shall identify a coordinator for the management of waste. | Contract mobilisation | Contractor | TMEIA | | Y | | • |
| 12.6 | | The Contractor shall prepare and implement a Waste Management Plan which specifies procedures such as a ticketing system, to facilitate tracking of loads and to ensure that illegal disposal of wastes does not occur, and protocols for the maintenance of records of the quantities of wastes generated, recycled and disposed. A recording system for the amount of waste generated, recycled and disposed (locations) should be established. | Contract mobilisation | Contractor | TMEIA, Works Branch Technical Circular No. 5/99 for the Trip-ticket System for Disposal of Construction and Demolition Material | | Υ | | ✓ |
| 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. | | Υ | | ✓ |
| 12.6 | 8.1 | Training shall be provided to workers about the concepts of site cleanliness and appropriate waste management procedures including waste reduction, reuse and recycling. | Contract Mobilisation | Contractor | TMEIA | | Y | | • |
| 12.6 | 8.1 | The extent of cutting operation should be optimised | All areas / throughout | Contractor | TMEIA | | Y | | ✓ |

| EIA Reference | EM&A Manual | Environmental Protection Measures | Location/Timing Implementation Re Agent or | Relevant Standard or Requirement | Imp | lement Stages | | Status | |
|------------------|----------------|---|---|-------------------------------------|-------|------------------|---|--------|-----|
| | Reference | | | | | D | С | Ο | |
| | | where possible. Earth retaining structures and bored pile walls should be proposed to minimise the extent of cutting. | construction period | | | | | | |
| 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 | | ✓ |
| 12.6 | 8.1 | No waste shall be burnt on site. | All areas / throughout construction period | Contractor | TMEIA | | Y | | 1 |
| 12.6 | 8.1 | Provisions to be made in contract documents to allow and promote the use of recycled aggregates where appropriate. | Detailed Design | Design Consultant | TMEIA | Y | | | n/a |
| 12.6 | 8.1 | The Contractor shall be prohibited from disposing of C&D materials at any sensitive locations. The Contractor should propose the final disposal sites in the EMP and WMP for approval before implementation. | All areas / throughout construction period | Contractor | TMEIA | | Ŷ | | ✓ |
| 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 | 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 | All areas / throughout construction period | Contractor | TMEIA | | Y | | ✓ |

| EIA Reference | EM&A Manual | Environmental Protection Measures | Location/Timing | Implementation Agent | Relevant Standard or Requirement | Imp | lement Stages | | Status |
|------------------|----------------|---|---|-------------------------|-------------------------------------|-----|------------------|---|--------|
| | Reference | | | | | D | C | 0 | |
| | | materials should avoid over-ordering and wastage. | | | | | | | |
| 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. | All areas / throughout construction period | Contractor | TMEIA | | Υ | | |
| 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: suitable for the substance to be held, resistant to corrosion, maintained in good conditions and securely closed; Having a capacity of <450L unless the specifications have been approved by the EPD; and Displaying a label in English and Chinese according to the instructions prescribed in Schedule 2 of the Regulations. Clearly labelled and used solely for the storage of chemical wastes; Enclosed with at least 3 sides; Impermeable floor and bund with capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste; | All areas / throughout construction period | Contractor | TMEIA | | Υ | | |

| EIA Reference | EM&A Manual Reference | Environmental Protection Measures | Location/ Timing | Implementation Agent | Relevant Standard or Requirement | Implementation Stages | | | Status |
|------------------|-----------------------------|---|--|-------------------------|-------------------------------------|--------------------------|---|---|----------|
| | | | | | | D | C | 0 | |
| | | Adequate ventilation; Sufficiently covered to prevent rainfall entering (water collected within the bund must be tested and disposed of as chemical waste, if necessary); and Incompatible materials are adequately separated. | | | | | | | |
| 12.6 | 8.1 | Waste oils, chemicals or solvents shall not be disposed of to drain, | All areas / throughout construction period | Contractor | TMEIA | | Y | | ✓ |
| 12.6 | 8.1 | Adequate numbers of portable toilets should be provided for on-site workers. Portable toilets should be maintained in reasonable states, which will not deter the workers from utilising them. | All areas / throughout construction period | Contractor | TMEIA | | Y | | ✓ |
| 12.6 | 8.1 | Night soil should be regularly collected by licensed collectors. | All areas / throughout construction period | Contractor | TMEIA | | Y | | ✓ |
| 12.6 | 8.1 | General refuse arising on-site should be stored in enclosed bins or compaction units separately from C&D and chemical wastes. Sufficient dustbins shall be provided for storage of waste as required under the Public Cleansing and Prevention of Nuisances By- laws. In addition, general refuse shall be cleared daily and shall be disposed of to the nearest licensed landfill or refuse transfer station. Burning of refuse on construction sites is prohibited. | All areas / throughout construction period | Contractor | TMEIA | | Y | | ✓ |
| 12.6 | 8.1 | All waste containers shall be in a secure area on hard standing; | All areas / throughout construction period | Contractor | TMEIA | | Y | | √ |
| 12.6 | 8.1 | Training shall be provided to workers about the concepts of site cleanliness and appropriate waste management procedure, including waste reduction, reuse and recycling. | All areas / throughout construction period | Contractor | TMEIA | | Y | | ✓ |
| 12.6 | 8.1 | Office wastes can be reduced by recycling of | Site Offices/ | Contractor | TMEIA | | Y | | ✓ |

| EIA Reference | | Environmental Protection Measures | Location/ Timing | Implementation Agent | Relevant Standard or Requirement | Implementation Stages | | | Status | |
|------------------|---|--|--|-------------------------|-------------------------------------|--------------------------|---|---|--------|--|
| | Reference | | | | | D | C | 0 | | |
| | | 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. | throughout construction period | | | | | | | |
| 12.6 | Section 8 | EM&A of waste handling, storage, transportation, disposal procedures and documentation through the site audit programme shall be undertaken. | All areas / throughout construction period | Contractor | EM&A Manual | | Y | | ✓ | |
| Cultur | L HERITAGE | | | | - | | | | | |
| 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 | |
| | | struction, O=Operation mitigation measures will be the Highways Department of th | ne Hong Kong SAR Gover | nment | | | | | | |
| √ | Compliance of Mi | tigation Measures | | | | | | | | |
| <> | Compliance of Mi | tigation but need improvement | | | | | | | | |
| | | of Mitigation Measures | | | | | | | | |
| | Non-compliance of Mitigation Measures but rectified by Contractor | | | | | | | | | |
| | Deficiency of Mitigation Measures but rectified by Contractor | | | | | | | | | |
| | Not Applicable in Reporting Period | | | | | | | | | |
| 11/ U | | hepotenig i criou | | | | | | | | |

Appendix D

Summary of Action and Limit Levels

Table D1Action and Limit Levels for 1-hour and 24-hour TSP

| Parameters | Action | Limit |
|-----------------------------------|---|-------|
| 24 Hour TSP Level in $\mu g/m^3$ | ASR9A/ASR8A = 178 ASR9C/ASR8/ASR9 = 178 | 260 |
| 1 Hour TSP Level in $\mu g / m^3$ | ASR9A/ASR8A = 394 ASR9C/ASR8/ ASR9 = 393 | 500 |

Table D2Action and Limit Levels for Construction Noise (0700-1900 hrs of normal
weekdays)

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

Table D3Action 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 |
| | Bottom | Bottom |
| | 4.7 mg/L | 3.6 mg/L |
| Turbidity in NTU (Depth- averaged ^{(b), (c)}) | 120% of upstream control station at the same tide of the same day and 95%-ile of baseline data, i.e., | 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

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

Table D4Action and Limit Levels for Impact Dolphin Monitoring

| | North Lan | North Lantau Social Cluster | | | |
|-------------------|---|---|--|--|--|
| | NEL | NWL | | | |
| Action Level | STG < 70% of baseline & | STG < 70% of baseline & | | | |
| | ANI < 70% of baseline | ANI < 70% of baseline | | | |
| Limit Level | [STG < 40% of baseli | [STG < 40% of baseline & ANI < 40% of baseline] | | | |
| | | and | | | |
| | STG < 40% of baseli | ne & ANI < 40% of baseline | | | |
| Notes: | | | | | |
| 1. STG means quar | rterly encounter rate of number of dolp | ohin sightings, which is 6.00 i | | | |
| NET I IOOF! | NTXATT Junta of a local transmission | | | | |

- NEL and 9.85 in NWL during the baseline monitoring period
 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 D5Derived Value of Action Level (AL) and Limit Level (LL)

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

Appendix E

Calibration Certificates of Monitoring Equipments

High-Volume TSP Sampler 5-Point Calibration Record

| Location Calibrated by Date | : : : | ASR8(A) P.F.Yeung 28/09/2018 |
|-----------------------------------|-------------|------------------------------------|
| Sampler | | |
| Model | : | TE-5170 |
| Serial Number | : | S/N 3956 |
| Calibration Orifice and Standard | d Calibr | ation Relationship |
| Serial Number | : | 2454 |
| Service Date | : | 19 Mar 2018 |
| Slope (m) | : | 2.05242 |
| Intercept (b) | : | -0.01383 |
| Correlation Coefficient(r) | : | 0.99994 |
| | | |
| Standard Condition | | |
| Pstd (hpa) | : | 1013 |
| Tstd (K) | : | 298.18 |
| Calibration Condition | | |
| Pa (hpa) | : | 1010 |
| Ta(K) | : | 302 |
| | | |

| Resistance Plate dH [green liquid] | | Ζ | X=Qstd | IC | Y | |
|------------------------------------|----------|------|-------------------|---------|-------------|-------|
| (inch water) | | | (cubic meter/min) | (chart) | (corrected) | |
| 1 | 18 holes | 11.4 | 3.349 | 1.624 | 54 | 53.56 |
| 2 | 13 holes | 9.2 | 3.009 | 1.461 | 50 | 49.59 |
| 3 | 10 holes | 6.6 | 2.548 | 1.240 | 45 | 44.63 |
| 4 | 7 holes | 4.4 | 2.081 | 1.016 | 37 | 36.70 |
| 5 | 5 holes | 2.5 | 1.568 | 0.770 | 28 | 27.77 |

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

Sampler Calibration Relationship (Linear Regression)

Slope(m):<u>30.119</u> Intercept(b): <u>5.642</u>

Correlation Coefficient(r): 0.9991

Checked by: <u>Magnum Fan</u>

Date: 04/10/2018

High-Volume TSP Sampler 5-Point Calibration Record

| Location Calibrated by Date | : | ASR9 P.F.Yeung 28/09/2018 |
|---|---------------------------------|--|
| Sampler | | |
| Model | : | TE-5170 |
| Serial Number | : | S/N 3958 |
| Calibration Orifice and Standa Serial Number Service Date Slope (m) Intercept (b) Correlation Coefficient(r) | ard Calibra : : : : | tion Relationship 2454 19 Mar 2018 2.05242 -0.01383 0.99994 |
| <u>Standard Condition</u> Pstd (hpa) Tstd (K) | : | 1013 298.18 |
| Calibration Condition | | |
| Pa (hpa) | : | 1010 |
| Ta(K) | : | 302 |
| | • | |

| _ | | | | | | |
|------------------------------------|----------|-----------------------------------|-------|-------------------|---------|-------------|
| Resistance Plate dH [green liquid] | | esistance Plate dH [green liquid] | | X=Qstd | IC | Y |
| (inch water) | | (inch water) | | (cubic meter/min) | (chart) | (corrected) |
| 1 | 18 holes | 12.0 | 3.436 | 1.666 | 56 | 55.54 |
| 2 | 13 holes | 9.8 | 3.105 | 1.507 | 51 | 50.59 |
| 3 | 10 holes | 7.6 | 2.734 | 1.329 | 46 | 45.63 |
| 4 | 7 holes | 4.8 | 2.173 | 1.060 | 38 | 37.69 |
| 5 | 5 holes | 2.6 | 1.599 | 0.785 | 32 | 31.74 |

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):27.226 Intercept(b):9.675

Correlation Coefficient(r): 0.9979

Checked by: Magnum Fan

Date: 04/10/2018



RECALIBRATION DUE DATE: March 19, 2019

nmental Certificate of Calibration

| Calibration Certification Information | | | | | | | | |
|---|-------------------------------|---------------------|--|-------------------------|--|------------|--------------------------|------------|
| Cal. Date: | I. Date: March 19, 2018 Roots | | | | 438320 | Ta: | 294 | °K |
| Operator: | Jim Tisch | | | | | Pa: | 746.8 | mm Hg |
| Calibration Model #: TE-5025A Ca | | | | orator S/N: | 2454 | N | | 0 |
| | | Vol. Init | Vol. Final | ΔVol. | ΔTime | ΔΡ | ΔН |] |
| | Run | (m3) | (m3) | (m3) | (min) | (mm Hg) | (in H2O) | |
| | 1 | 1 | 2 | 1 | 1.4300 | 3.2 | 2.00 | |
| | 2 | 3 | 4 | 1 | 1.0040 | 6.4 | 4.00 | 1 |
| | 3 | 5 | 6 | 1 | 0.9030 | 7.9 | 5.00 | |
| | 4 | 7 | 8 | 1 | 0.8590 | 8.7 | 5.50 | |
| | 5 | 9 | 10 | 1 | 0.7080 | 12.8 | 8.00 | |
| Data Tabulation | | | | | | ĺ | | |
| | Vstd | Qstd | $\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right)}$ |)(<u>Tstd</u>) | | Qa | $\sqrt{\Delta H(Ta/Pa)}$ | |
| | (m3) | (x-axis) | (y-ax | is) | Va | (x-axis) | (y-axis) | |
| | 0.9917 | 0.6935 | 1.41: | 13 | 0.9957 | 0.6963 | 0.8874 | |
| | 0.9874 | 0.9835 | 1.995 | 59 | 0.9914 | 0.9875 | 1.2549 | |
| | 0.9854 | 1.0913 | 2.233 | 15 | 0.9894 | 1.0957 | 1.4030 | |
| | 0.9843 | 1.1459 | 2.340 | 05 | 0.9883 | 1.1506 | 1.4715 | |
| | 0.9789 | 1.3826 | 2.822 | 27 | 0.9829 | 1.3882 | 1.7747 | |
| | | m= | 2.052 | 42 | | m= | 1.28519 | |
| | QSTD | b= | -0.013 | | QA | b= | -0.00869 | |
| | L | r= | 0.999 | 94 | | r= | 0.99994 | |
| | | | | Calculatio | ns | | | |
| | | | /Pstd)(Tstd/Ta | a) Va= ΔVol((Pa-ΔP)/Pa) | | | | |
| | Qstd= | Vstd/∆Time | | | Qa= Va/∆Time | | | |
| | | | For subsequ | ent flow ra | te calculation | 15: | | |
| Qstd= $1/m\left(\left(\sqrt{\Delta H\left(\frac{Pa}{Pstd}\right)\left(\frac{Tstd}{Ta}\right)}\right)\right)$ | | | |))-b) | Qa= | 1/m ((√∆⊦ | I(Ta/Pa))-b) | |
| | | Conditions | 1 | | | | | |
| Tstd: | | | | | | RECA | LIBRATION | |
| Pstd: | 1 | mm Hg (ey | | | US FPA reco | | nual recalibratio | n nor 1000 |
| AH: calibrat | | er reading (i | n H2O) | | | | | |
| | | eter reading | | | 40 Code of Federal Regulations Part 50 to 51, | | | |
| | | perature (°K) | | | Appendix B to Part 50, Reference Method for the Determination of Suspended Particulate Matter in | | | |
| | | | Hg) | | | | | |
| Pa: actual barometric pressure (mm Hg) b: intercept | | | | | the | e Atmosphe | re, 9.2.17, page 3 | 30 |

Tisch Environmental, Inc. 145 South Miami Avenue Village of Cleves, OH 45002

b: intercept m: slope



1

輝創工程有限公司

Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No.: C181755 證書編號

| ITEM TESTEI Description / 儀 Manufacturer / 絕 Model No. / 型 Serial No. / 編號 Supplied By / 委 | 器名稱 : 製造商 : 虎 : 記 : | Job No. / 序引編號: 1 Sound Level Calibrator Rion NC-73 10486660 Envirotech Services Co. Room 113, 1/F, My Loft New Territories, Hong K | t, 9 Hoi Wing I | | '收件日期:20 March 2018 |
|---|--|--|-----------------|---------------------------------------|---------------------|
| TEST CONDI Temperature / ½ Line Voltage / 1 | 温度 : (2 | 試條件 23 ± 2)℃ - | | Relative Humidity / | 相對濕度 : (50±25)% |
| TEST SPECIF Calibration chec | | / 測試規範 | | | |
| DATE OF TES | T/測試日其 | 期 : 5 April 2018 | | | |
| The results do n The results are o The test equipm - The Governm | y to the part ot exceed m letailed in th ent used for ent of The H tologies / Ke warz Labora | icular unit-under-test only. anufacturer's specification. a subsequent page(s). calibration are traceable to long Kong Special Admini cysight Technologies tory, Germany | National Stan | dards via : 1 Standard & Calibrati | on Laboratory |
| Tested By 測試 | : | K C Lee Engineer | | | |
| Certified By 核證 | : _ | On Hun Ch | う Da 簽 | te of Issue : | 11 April 2018 |

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。



Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C181755 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 3 measurements at each calibration point.
- 3. Test equipment :

Equipment ID CL130 CL281 TST150A

<u>Description</u> Universal Counter Multifunction Acoustic Calibrator Measuring Amplifier <u>Certificate No.</u> C173864 PA160023 C181288

- 4. Test procedure : MA100N.
- 5. Results :
- 5.1 Sound Level Accuracy

| UUT | Measured Value | Mfr's Spec. | Uncertainty of Measured Value |
|---------------|----------------|-------------|-------------------------------|
| Nominal Value | (dB) | (dB) | (dB) |
| 94 dB, 1 kHz | 93.7 | ± 0.5 | ± 0.2 |

5.2 Frequency Accuracy

| UUT Nominal Value | Measured Value | Mfr's | Uncertainty of Measured Value |
|-------------------|----------------|--------------------------|-------------------------------|
| (kHz) | (kHz) | Spec. | (Hz) |
| 1 | 0.988 | $1 \text{ kHz} \pm 2 \%$ | ± 1 |

Remark : The uncertainties are for a confidence probability of not less than 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.

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Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C183088 證書編號

| ITEM TESTEI Description / 儀 Manufacturer / 集 Model No. / 型嬰 Serial No. / 編閉 Supplied By / 委 | 器名稱 : S 製造商 : F 虎 : N 記 : C 記者 : E F | Job No. / 序引編號:IC Sound Level Meter Rion NL-52 20131628 Envirotech Services Co. Room 113, 1/F, My Loft, 9 New Territories, Hong Ko | 9 Hoi Wing Ro | Date of Receipt , bad, Tuen Mun, | / 收件日期: | 25 May 2018 |
|--|---|---|-----------------|-------------------------------------|--------------|-------------|
| TEST CONDIT Temperature / 涯 Line Voltage / 智 | 温度 : (23 ± | | - | Relative Humidity / 村 | 目對濕度 : | (50 ± 25)% |
| TEST SPECIF | ICATIONS / 洌 | 測試規範 | | | | |
| DATE OF TES | ST / 測試日期 | : 10 June 2018 | | | | |
| The results do n The results are o The test equipm - The Governm | y to the particu ot exceed manu detailed in the s ent used for cal ent of The Hon hologies / Keysi warz Laborator | | National Standa | ards via : | n Laboratory | |
| Tested By 測試 | : | KC Lee Engineer | | | | |
| Certified By 核證 | : | H C Chan Engineer | | e of Issue : 發日期 | 14 June 2 | 2018 |

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。

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Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No.: C183088 證書編號

- 1. The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
- 2. Self-calibration using the internal standard (After Adjustment) was performed before the test 6.1.1.2 to 6.3.2.
- 3. The results presented are the mean of 3 measurements at each calibration point.
- 4. Test equipment :

| Equipment ID | Description | Certificate No. |
|--------------|-------------------------------------|-----------------|
| CL280 | 40 MHz Arbitrary Waveform Generator | C180024 |
| CL281 | Multifunction Acoustic Calibrator | PA160023 |

- 5. Test procedure : MA101N.
- 6. Results :
- 6.1 Sound Pressure Level
- 6.1.1 Reference Sound Pressure Level
- 6.1.1.1 Before Adjustment

| UUT Setting | | | | Applie | d Value | UUT | IEC 61672 |
|---------------|----------------|------------------------|-------------------|---------------|----------------|-----------------|-----------------------|
| Range (dB) | Function | Frequency Weighting | Time Weighting | Level (dB) | Freq. (kHz) | Reading (dB) | Class 1 Spec. (dB) |
| 30 - 130 | L _A | A | Fast | 94.00 | 1 | * 95.3 | ± 1.1 |

* Out of IEC 61672 Class 1 Spec.

6.1.1.2 After Adjustment

| | UUT Setting | | | | d Value | UUT | IEC 61672 |
|---------------|----------------|------------------------|-------------------|---------------|----------------|-----------------|-----------------------|
| Range (dB) | Function | Frequency Weighting | Time Weighting | Level (dB) | Freq. (kHz) | Reading (dB) | Class 1 Spec. (dB) |
| 30 - 130 | L _A | A | Fast | 94.00 | 1 | 94.0 | ± 1.1 |

6.1.2 Linearity

| | UU' | T Setting | Applied | UUT | | |
|---------------|----------------|------------------------|-------------------|---------------|----------------|-----------------|
| Range (dB) | Function | Frequency Weighting | Time Weighting | Level (dB) | Freq. (kHz) | Reading (dB) |
| 30 - 130 | L _A | A | Fast | 94.00 | 1 | 94.0 (Ref.) |
| | | | | 104.00 | [| 104.0 |
| | | | | 114.00 | | 114.0 |

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

輝創工程有限公司 — 校正及檢測實驗所 c/o 香港新界屯門與安里一號四樓 Tel/電話: (852) 2927 2606 Fax/傳真: (8: 50

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Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C183088 證書編號

6.2 Time Weighting

| UUT Setting | | | | Applie | d Value | UUT | IEC 61672 |
|---------------|----------|-------------------------|-------------------|---------------|----------------|-----------------|-----------------------|
| Range (dB) | Function | Frequency. Weighting | Time Weighting | Level (dB) | Freq. (kHz) | Reading (dB) | Class 1 Spec. (dB) |
| 30 - 130 | L_A | A | Fast | 94.00 | 1 | 94.0 | Ref. |
| | | | Slow | | | 94.0 | ± 0.3 |

6.3 Frequency Weighting

6.3.1 A-Weighting

| | UUT Setting | | | | Applied Value | | IEC 61672 |
|---------------|----------------|------------------------|-------------------|-----------------|---------------|-----------------|-----------------------|
| Range (dB) | Function | Frequency Weighting | Time Weighting | Level - (dB) | Freq. | Reading (dB) | Class 1 Spec. (dB) |
| 30 - 130 | L _A | A | Fast | 94.00 | 63 Hz | 67.8 | -26.2 ± 1.5 |
| | | | | | 125 Hz | 77.8 | -16.1 ± 1.5 |
| | | | | | 250 Hz | 85.3 | -8.6 ± 1.4 |
| | | | | | 500 Hz | 90.7 | -3.2 ± 1.4 |
| | | | | | 1 kHz | 94.0 | Ref. |
| | | | | | 2 kHz | 95.2 | $+1.2 \pm 1.6$ |
| | | | | | 4 kHz | 95.0 | $+1.0 \pm 1.6$ |
| | | | | | 8 kHz | 93.0 | -1.1 (+2.1 ; -3.1) |
| | | | | | 12.5 kHz | 89.6 | -4.3 (+3.0 ; -6.0) |

6.3.2

| UUT Setting | | | Appl | ied Value | UUT | IEC 61672 | | | | | | | | | | |
|---------------|----------------|------------------------|-------------------|---------------|----------|-----------------|-----------------------|----|--|----|-------------|--|--|--------|------|----------------|
| Range (dB) | Function | Frequency Weighting | Time Weighting | Level (dB) | Freq. | Reading (dB) | Class 1 Spec. (dB) | | | | | | | | | |
| 30 - 130 | L _C | C | Fast | 94.00 | 63 Hz | 93.1 | -0.8 ± 1.5 | | | | | | | | | |
| | | | | | | | | 아파 | | 10 | 5 BL. 2 ELL | | | 125 Hz | 93.8 | -0.2 ± 1.5 |
| | | | | | 250 Hz | 94.0 | 0.0 ± 1.4 | | | | | | | | | |
| | | | | | 500 Hz | 94.0 | 0.0 ± 1.4 | | | | | | | | | |
| | | | | | 1 kHz | 94.0 | Ref. | | | | | | | | | |
| | | | | | 2 kHz | 93.8 | -0.2 ± 1.6 | | | | | | | | | |
| | | | | | 4 kHz | 93.2 | -0.8 ± 1.6 | | | | | | | | | |
| | | | | | 8 kHz | 91.1 | -3.0 (+2.1 ; -3. | | | | | | | | | |
| | | | | | 12.5 kHz | 87.6 | -6.2 (+3.0 ; -6. | | | | | | | | | |

de.

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。



Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C183088 證書編號

Remarks : - UUT Microphone Model No. : UC-59 & S/N : 10446

- Mfr's Spec. : IEC 61672 Class 1

| 94 dB : 63 Hz - 125 Hz 250 Hz - 500 Hz 1 kHz 2 kHz - 4 kHz 8 kHz 12.5 kHz 104 dB : 1 kHz 114 dB : 1 kHz | : $\pm 0.35 \text{ dB}$: $\pm 0.30 \text{ dB}$: $\pm 0.20 \text{ dB}$: $\pm 0.35 \text{ dB}$: $\pm 0.45 \text{ dB}$: $\pm 0.70 \text{ dB}$: $\pm 0.10 \text{ dB}$ (Ref. 94 dB) : $\pm 0.10 \text{ dB}$ (Ref. 94 dB) |
|--|--|
| | 1 ± 0.10 dB (Ref. 94 dB) |

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

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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。



| Report No. | |
|---------------|--|
| Date of Issue | |
| Page No. | |

AH100180 26 October 2018 1 of 2

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 | : 16H104234 |
| Date of Received | : Oct 26, 2018 |
| Date of Calibration | : Oct 26, 2018 |
| Date of Next Calibration(a) | : Jan 26, 2019 |

PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

| Parameter | Reference Method |
|-----------------------|---|
| pH at 25°C | APHA 21e 4500-H ⁺ B |
| Dissolved Oxygen | APHA 21e 4500-O G |
| Conductivity at 25°C | APHA 21e 2510 B |
| Salinity | APHA 21e 2520 B |
| Turbidity | APHA 21e 2130 B |
| Temperature | Section 6 of international Accreditation New Zealand Technical |
| Statement Research to | 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 | 7.46 | 0.04 | Satisfactory |
| 10.01 | 9.98 | -0.03 | Satisfactory |

Tolerance of pH should be less than ±0.10 (pH unit)

(2) Temperature

| Reading of Ref. thermometer (°C) Displayed Reading (°C) | | Tolerance (°C) | Results | |
|--|------|----------------|--------------|--|
| 10.8 | 10.7 | -0.1 | Satisfactory | |
| 23.5 | 23.4 | -0.1 | Satisfactory | |
| 45.0 | 45.5 | 0.5 | Satisfactory | |

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

~ CONTINUED ON NEXT PAGE ~

Remark(s): -

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

(h) 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. (c)

(d)

"Displayed Reading" denotes the figure 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 QPT or quoted form relevant international standards. (e)

APPROVED SIGNATORY:

LAM Ho-yee, Emma Assistant Laboratory Manager



| Report No. | : | AH100180 |
|---------------|---|----------------|
| Date of Issue | : | 26 October 201 |
| Page No. | : | 2 of 2 |

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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 |
|-------------------------|--------------------------|------------------|--------------|
| 0.00 | 0.00 | 0.00 | Satisfactory |
| 1.70 | 1.81 | 0.11 | Satisfactory |
| 4.79 | 4.81 | 0.02 | Satisfactory |
| 7.70 | 7.74 | 0.04 | Satisfactory |

Tolerance limit of dissolved oxygen should be less than ± 0.20 (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 | 153.0 | 4.2 | Satisfactory |
| 0.01 | 1412 | 1359 | -3.8 | Satisfactory |
| 0.1 | 12890 | 12520 | -2.9 | Satisfactory |
| 0.5 | 58670 | 57672 | -1.7 | Satisfactory |
| 1.0 | 111900 | 112190 | 0.3 | Satisfactory |

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

(5) Salinity

| Expected Reading (g/L) | Displayed Reading (g/L) | Tolerance (%) | Results |
|------------------------|-------------------------|---------------|--------------|
| 10 | 10.11 | 1.1 | Satisfactory |
| 20 | 20.47 | 2.3 | Satisfactory |
| 30 | 30.18 | 0.6 | Satisfactory |

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

(6) Turbidity

| Expected Reading (NTU) | Displayed Reading ^(f) (NTU) | Tolerance ^(g) (%) | Results |
|---------------------------|--|---------------------------------|--------------|
| 0 | 0.40 | | |
| 10 | 9.80 | -2.0 | Satisfactory |
| 20 | 19.36 | -3.2 | Satisfactory |
| 100 | 102.34 | 2.3 | Satisfactory |
| 800 | 803.10 | 0.4 | 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.



| Report No. |
|---------------|
| Date of Issue |
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AH100181 26 October 2018 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 | : 17H105557 |
| Date of Received | : Oct 26, 2018 |
| Date of Calibration | : Oct 26, 2018 |
| Date of Next Calibration(a) | : Jan 26, 2019 |

PART C – REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

| Parameter | Reference Method |
|----------------------|---|
| pH at 25°C | APHA 21e 4500-H ⁺ B |
| Dissolved Oxygen | APHA 21e 4500-O G |
| Conductivity at 25°C | APHA 21e 2510 B |
| Salinity | APHA 21e 2520 B |
| Turbidity | APHA 21e 2130 B |
| Temperature | Section 6 of international Accreditation New Zealand Technical |
| | Guide no. 3 Second edition March 2008: Working Thermometer Calibration Procedure. |

PART D - CALIBRATION RESULTS^(b,c)

(1) pH at 25°C

| Target (pH unit) | Displayed Reading ^(d) (pH Unit) | Tolerance ^(e) (pH Unit) | Results |
|------------------|--|------------------------------------|--------------|
| 4.00 | 4.07 | 0.07 | Satisfactory |
| 7.42 | 7.42 | 0.00 | Satisfactory |
| 10.01 | 10.01 | 0.00 | Satisfactory |

Tolerance of pH should be less than ±0.10 (pH unit)

(2) Temperature

| Reading of Ref. thermometer (°C) | Displayed Reading (°C) | Tolerance (°C) | Results |
|-------------------------------------|------------------------|----------------|--------------|
| 10.8 | 10.7 | -0.1 | Satisfactory |
| 23.5 | 23.3 | -0.2 | Satisfactory |
| 45.0 | 45.7 | 0.7 | 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.

(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. (c) (1)

"Displayed Reading" denotes the figure 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 QPT or quoted form relevant international standards. (e)

APPROVED SIGNATORY:

LAM Ho-yee, Emma Assistant Laboratory Manager



| Report No. | : | AH100181 |
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| Date of Issue | : | 26 October 2018 |
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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 |
|-------------------------|--------------------------|------------------|--------------|
| 0.00 | 0.00 | 0.00 | Satisfactory |
| 1.70 | 1.77 | 0.07 | Satisfactory |
| 4.79 | 4.83 | 0.04 | Satisfactory |
| 7.70 | 7.81 | 0.11 | Satisfactory |

Tolerance limit of dissolved oxygen should be less than ±0.20 (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 | 150.0 | 2.1 | Satisfactory |
| 0.01 | 1412 | 1439 | 1.9 | Satisfactory |
| 0.1 | 12890 | 11949 | -7.3 | Satisfactory |
| 0.5 | 58670 | 58670 | 0.0 | Satisfactory |
| 1.0 | 111900 | 111563 | -0.3 | Satisfactory |

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

(5) Salinity

| Expected Reading (g/L) | Displayed Reading (g/L) | Tolerance (%) | Results |
|------------------------|-------------------------|---------------|--------------|
| 10 | 10.13 | 1.3 | Satisfactory |
| 20 | 20.16 | 0.8 | Satisfactory |
| 30 | 30.26 | 0.9 | Satisfactory |

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

(6) Turbidity

| Expected Reading (NTU) | Displayed Reading ^(f) (NTU) | Tolerance ^(g) (%) | Results |
|---------------------------|--|---------------------------------|--------------|
| 0 | 0.30 | | |
| 10 | 9.70 | -3.0 | Satisfactory |
| 20 | 19.76 | -1.2 | Satisfactory |
| 100 | 98.33 | -1.7 | Satisfactory |
| 800 | 804.22 | 0.5 | Satisfactory |

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

~ END OF REPORT ~

Remark(s): -

(9) "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.



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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 | : 16H104233 |
| Date of Received | : Oct 03, 2018 |
| Date of Calibration | : Oct 03, 2018 |
| Date of Next Calibration(a) | : Jan 03, 2019 |

PART C – REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

| Parameter_ | Reference Method |
|----------------------|---|
| pH at 25°C | АРНА 21е 4500-Н ⁺ В |
| Dissolved Oxygen | APHA 21e 4500-O G |
| Conductivity at 25°C | APHA 21e 2510 B |
| Salinity | APHA 21e 2520 B |
| Turbidity | APHA 21e 2130 B |
| Temperature | Section 6 of international Accreditation New Zealand Technical |
| remperatore | Guide no. 3 Second edition March 2008: Working Thermometer Calibration Procedure. |
| | |

PART D - CALIBRATION RESULTS^(b,c)

(1) pH at 25°C

| Target (pH unit) | Displayed Reading ^(d) (pH Unit) | Tolerance ^(e) (pH Unit) | Results |
|------------------|--|------------------------------------|--------------|
| 4.00 | 4.01 | 0.01 | Satisfactory |
| 7.42 | 7.42 | 0 | Satisfactory |
| 10.01 | 10.00 | -0.01 | Satisfactory |

Tolerance of pH should be less than ±0.10 (pH unit)

(2) Temperature

| Reading of Ref. thermometer (°C) | Displayed Reading (°C) | Tolerance (°C) | Results |
|-------------------------------------|------------------------|----------------|--------------|
| 7.6 | 7.5 | -0.1 | Satisfactory |
| 25.0 | 24.7 | -0.3 | Satisfactory |
| 35.5 | 35.6 | 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.

(d)

"Displayed Reading" denotes the figure 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 QPT or quoted form relevant international standards. (e)

APPROVED SIGNATORY:

LAM Ho-yee, Emma Assistant Laboratory Manager



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| Date of Issue | : | 04 October 2018 |
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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 |
|-------------------------|--------------------------|------------------|--------------|
| 0.34 | 0.28 | -0.06 | Satisfactory |
| 7.75 | 7.83 | 0.08 | Satisfactory |
| 8.20 | 8.02 | -0.18 | Satisfactory |

Tolerance limit of dissolved oxygen should be less than ±0.20 (mg/L)

(4) Conductivity at 25°C

| Conc. of KCl (M) | Expected Reading (µS/cm) | Displayed Reading (µS/cm) | Tolerance (%) | Results |
|------------------|-----------------------------|------------------------------|---------------|--------------|
| 0.001 | 146.9 | 144.8 | -1.4 | Satisfactory |
| 0.01 | 1412 | 1350 | -4.4 | Satisfactory |
| 0.1 | 12890 | 12175 | -5.5 | Satisfactory |
| 0.5 | 58670 | 56033 | -4.5 | Satisfactory |
| 1.0 | 111900 | 108180 | -3.3 | Satisfactory |

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

(5) Salinity

| Expected Reading (g/L) | Displayed Reading (g/L) | Tolerance (%) | Results |
|------------------------|-------------------------|---------------|--------------|
| 10 | 9.54 | -4.6 | Satisfactory |
| 20 | 19.64 | -1.8 | Satisfactory |
| 30 | 29.86 | -0.5 | 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 | 10.50 | 5.0 | Satisfactory |
| 20 | 21.58 | 7.9 | Satisfactory |
| 100 | 101.89 | 1.9 | Satisfactory |
| 800 | 788.25 | -1.5 | Satisfactory |

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

~ END OF REPORT ~

Remark(s): -

- ⁰ "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.



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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 | : 17E100747 |
| Date of Received | : Oct 03, 2018 |
| Date of Calibration | : Oct 03, 2018 |
| Date of Next Calibration(a) | : Jan 03, 2019 |

PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

| Parameter | Reference Method |
|----------------------|---|
| pH at 25°C | APHA 21e 4500-H ⁺ B |
| Dissolved Oxygen | APHA 21e 4500-O G |
| Conductivity at 25°C | APHA 21e 2510 B |
| Salinity | APHA 21e 2520 B |
| Turbidity | APHA 21e 2130 B |
| Temperature | Section 6 of international Accreditation New Zealand Technical |
| | Guide no. 3 Second edition March 2008: Working Thermometer Calibration Procedure. |

PART D - CALIBRATION RESULTS^(b,c)

(1) pH at 25°C

| Target (pH unit) | Displayed Reading ^(d) (pH Unit) | Tolerance ^(e) (pH Unit) | Results |
|------------------|--|------------------------------------|--------------|
| 4.00 | 3.99 | -0.01 | Satisfactory |
| 7.42 | 7.40 | -0.02 | Satisfactory |
| 10.01 | 9.96 | -0.05 | Satisfactory |

Tolerance of pH should be less than ±0.10 (pH unit)

(2) Temperature

| Reading of Ref. thermometer (°C) | Displayed Reading (°C) | Tolerance (°C) | Results |
|-------------------------------------|------------------------|----------------|--------------|
| 7.6 | 7.1 | -0.5 | Satisfactory |
| 25.0 | 24.6 | -0.4 | Satisfactory |
| 35.5 | 34.9 | -0.6 | Satisfactory |

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

~ CONTINUED ON NEXT PAGE ~

<u>Remark(s): -</u> ^(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. The "Tolerance Limit" mentioned is the acceptance criteria applicable for similar equipment used by QPT or quoted form relevant international standards. (e)

APPROVED SIGNATORY:

LAM Ho-yee, Emma Assistant Laboratory Manager



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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 |
|-------------------------|--------------------------|------------------|--------------|
| 0.34 | 0.26 | -0.08 | Satisfactory |
| 7.75 | 7.82 | 0.07 | Satisfactory |
| 8.20 | 8.00 | -0.20 | Satisfactory |

Tolerance limit of dissolved oxygen should be less than ±0.20 (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 | 145.8 | -0.7 | Satisfactory |
| 0.01 | 1412 | 1380 | -2.3 | Satisfactory |
| 0.1 | 12890 | 12434 | -3.5 | Satisfactory |
| 0.5 | 58670 | 57510 | -2.0 | Satisfactory |
| 1.0 | 111900 | 110518 | -1.2 | Satisfactory |

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

(5) Salinity

| Expected Reading (g/L) | Displayed Reading (g/L) | Tolerance (%) | Results |
|------------------------|-------------------------|---------------|--------------|
| 10 | 9.66 | -3.4 | Satisfactory |
| 20 | 19.84 | -0.8 | Satisfactory |
| 30 | 30.38 | 1.3 | Satisfactory |

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

(6) Turbidity

| Expected Reading (NTU) | Displayed Reading ^(f) (NTU) | Tolerance ^(g) (%) | Results |
|---------------------------|--|---------------------------------|--------------|
| 0 | 0.00 | | |
| 10 | 10.47 | 4.7 | Satisfactory |
| 20 | 21.75 | 8.8 | Satisfactory |
| 100 | 93.90 | -6.1 | Satisfactory |
| 800 | 730.06 | -8.7 | Satisfactory |

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

~ END OF REPORT ~

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

(g)

"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 6920 v2 (Multi-Parameters) |
|-----------------------------|----------------------------------|
| Manufacturer | : YSI (a xylem brand) |
| Serial Number | : 00019CB2 |
| Date of Received | : Aug 20, 2018 |
| Date of Calibration | : Aug 20, 2018 |
| Date of Next Calibration(a) | : Nov 20, 2018 |

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 |
| 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 | 4.04 | 0.04 | Satisfactory |
| 7.42 | 7.43 | 0.01 | Satisfactory |
| 10.01 | 9.97 | -0.04 | Satisfactory |

Tolerance of pH should be less than ±0.10 (pH unit)

(2) Temperature

| Reading of Ref. thermometer (°C) | Displayed Reading (°C) | Tolerance (°C) | Results |
|-------------------------------------|------------------------|----------------|--------------|
| 17.0 | 17.1 | 0.1 | Satisfactory |
| 26.3 | 26.2 | -0.1 | Satisfactory |
| 54.3 | 54.0 | -0.3 | 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

(e) 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 the acceptance criteria applicable for similar equipment used by QPT or quoted form relevant international standards.

APPROVED SIGNATORY:

LAM-Ho-yee, Emma Assistant Laboratory Manager

ROVED SIGNATORY:



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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 |
|-------------------------|--------------------------|------------------|--------------|
| 0.00 | 0.05 | 0.05 | Satisfactory |
| 2.81 | 2.93 | 0.12 | Satisfactory |
| 4.18 | 4.24 | 0.06 | Satisfactory |
| 7.76 | 7.81 | 0.05 | Satisfactory |

Tolerance limit of dissolved oxygen should be less than ± 0.20 (mg/L)

(4) Conductivity at 25°C

| Conc. of KCl (M) | Expected Reading (µS/cm) | Displayed Reading (µS/cm) | Tolerance (%) | Results |
|------------------|-----------------------------|------------------------------|---------------|--------------|
| 0.001 | 146.9 | 152.5 | 3.8 | Satisfactory |
| 0.01 | 1412 | 1424 | 0.8 | Satisfactory |
| 0.1 | 12890 | 12688 | -1.6 | Satisfactory |
| 0.5 | 58670 | 57972 | -1.2 | Satisfactory |
| 1.0 | 111900 | 109256 | -2.4 | Satisfactory |

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

(5) Salinity

| Expected Reading (g/L) | Displayed Reading (g/L) | Tolerance (%) | Results |
|------------------------|-------------------------|---------------|--------------|
| 10 | 9.98 | -0.2 | Satisfactory |
| 20 | 20.17 | 0.9 | Satisfactory |
| 30 | 30.24 | 0.8 | Satisfactory |

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

(6) Turbidity

| Expected Reading (NTU) | Displayed Reading ^(f) (NTU) | Tolerance ^(g) (%) | Results |
|---------------------------|--|------------------------------|--------------|
| 0 | 0.5 | | |
| 10 | 10.3 | 3.0 | Satisfactory |
| 20 | 21.2 | 6.0 | Satisfactory |
| 100 | 100.8 | 0.8 | Satisfactory |
| 800 | 797.6 | -0.3 | 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 (2) relevant international standards.



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2 3

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 6920 v2 (Multi-Parameters) |
|-----------------------------|----------------------------------|
| Manufacturer | : YSI (a xylem brand) |
| Serial Number | : 0001C6A7 |
| Date of Received | : Aug 20, 2018 |
| Date of Calibration | : Aug 20, 2018 |
| Date of Next Calibration(a) | : Nov 20, 2018 |

PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

| Parameter | Reference Method |
|----------------------|---|
| pH at 25°C | APHA 21e 4500-H ⁺ B |
| Dissolved Oxygen | APHA 21e 4500-O G |
| Conductivity at 25°C | APHA 21e 2510 B |
| Salinity | APHA 21e 2520 B |
| Turbidity | APHA 21e 2130 B |
| Temperature | Section 6 of international Accreditation New Zealand Technical Guide no. 3 Second edition March 2008: Working Thermometer Calibration Procedure. |

PART D - CALIBRATION RESULTS^(b,c)

(1) pH at 25°C

| Target (pH unit) | Displayed Reading ^(d) (pH Unit) | Tolerance ^(e) (pH Unit) | Results |
|------------------|--|------------------------------------|--------------|
| 4.00 | 4.05 | 0.05 | Satisfactory |
| 7.42 | 7.46 | 0.04 | Satisfactory |
| 10.01 | 10.04 | 0.03 | Satisfactory |

Tolerance of pH should be less than ± 0.10 (pH unit)

(2) Temperature

| Reading of Ref. thermometer (°C) | Displayed Reading (°C) | Tolerance (°C) | Results |
|-------------------------------------|------------------------|----------------|--------------|
| 17.0 | 17.2 | 0.2 | Satisfactory |
| 26.3 | 26.2 | -0.1 | Satisfactory |
| 54.3 | 53.8 | -0.5 | Satisfactory |

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

~ CONTINUED ON NEXT PAGE ~

Remark(s): -

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

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

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

(d)

"Displayed Reading" denotes the figure 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 QPT or quoted form relevant international standards. (e)

APPROVED SIGNATORY:

LAM Ho-yee, Emma

Assistant Laboratory Manager



| Report No. | : | AH080234 |
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| Date of Issue | : | 21 August 2018 |
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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 |
|-------------------------|--------------------------|------------------|--------------|
| 0.00 | 0.06 | 0.06 | Satisfactory |
| 2.81 | 2.92 | 0.11 | Satisfactory |
| 4.18 | 4.23 | 0.05 | Satisfactory |
| 7.76 | 7.80 | 0.04 | Satisfactory |

Tolerance limit of dissolved oxygen should be less than ± 0.20 (mg/L)

(4) Conductivity at 25°C

| Conc. of KCl (M) | Expected Reading (µS/cm) | Displayed Reading (µS/cm) | Tolerance (%) | Results |
|------------------|-----------------------------|------------------------------|---------------|--------------|
| 0.001 | 146.9 | 152.3 | 3.7 | Satisfactory |
| 0.01 | 1412 | 1427 | 1.1 | Satisfactory |
| 0.1 | 12890 | 12676 | -1.7 | Satisfactory |
| 0.5 | 58670 | 57968 | -1.2 | Satisfactory |
| 1.0 | 111900 | 108346 | -3.2 | Satisfactory |

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

(5) Salinity

| Expected Reading (g/L) | Displayed Reading (g/L) | Tolerance (%) | Results |
|------------------------|-------------------------|---------------|--------------|
| 10 | 9.98 | -0.2 | Satisfactory |
| 20 | 19.97 | -0.2 | Satisfactory |
| 30 | 30.10 | 0.3 | Satisfactory |

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

(6) Turbidity

| Expected Reading (NTU) | Displayed Reading ^(f) (NTU) | Tolerance ^(g) (%) | Results |
|---------------------------|--|------------------------------|--------------|
| 0 | 0.4 | | |
| 10 | 10.2 | 2.0 | Satisfactory |
| 20 | 20.3 | 1.5 | Satisfactory |
| 100 | 101.5 | 1.5 | Satisfactory |
| 800 | 821.7 | 2.7 | 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.

ENVIROTECH SERVICES CO.

| Date of Calibration : | 30 September 2018 |
|-------------------------|---|
| Brand of Test Meter: | Global Water |
| Model: | Speed Sensor: WE550 (S/N:E1337005099) |
| | Direction Senor: WE570 (S/N:153500564) |
| Location : | Pak Mong, Siu Ho Wan |
| Procedures : | |
| 1. Wind Still Test: | The wind speed sensor was hold by hand until it keep still |
| 2.Wind Speed Test: | The wind meter was on-site calibrated against the Anemometer |
| 3.Wind Direction Test : | The wind meter was on-site calibrated against the marine compass at four directions |
| Results: | |

Wind Still Test

Wind Speed (m/s) 0.00

Wind Speed Test

| Global Wate (m/s) | Anemometer (m/s) |
|-------------------|------------------|
| 1.73 | 1.5 |
| 1.58 | 1.3 |
| 0.12 | 0.1 |

Wind Direction Test

| Global Wate (o) | Marine Compass (o) |
|-----------------|--------------------|
| 270.88 | 270 |
| 0.04 | 0 |
| 89.87 | 90 |
| 179.56 | 180 |

Calibrated by:

Að Yeung Ping Fai

(Technical Officer)

Checked by : Fat

Ho Kam Fat (Senior Technical Officer)

Calibration Report of Wind Meter



1

輝創工程有限公司

Sun Creation Engineering Limited Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No.: C184960 證書編號

| Manufacturer / 製 Model No. / 型號 Serial No. / 編號 Supplied By / 委言 | : | Job No. / 序引編號: IC18-1761 Anemometer Lutron AM-4201 AF.27513 Envirotech Services Co. Room 113, 1/F, My Loft, 9 Hoi With New Territories, Hong Kong | | t / 收件日期:23 August 201 |
|---|------------|---|-------------------|------------------------|
| TEST CONDIT Temperature / 溫 Line Voltage / 電 | 度: (2 | 試條件 23 ± 2)°C | Relative Humidity | / 相對濕度 : (50±25)9 |
| TEST SPECIFIC | | / 測試規範 | | |
| DATE OF TEST | | | | |
| | to the par | 决 ticular unit-under-test only. he subsequent page(s). | | |
| | | r calibration are traceable to National GmbH, Germany | Standards via : | |
| | | | | |
| | | | | |
| Tested By 測試 | : _ | T L Shek Assistant Engineer | | |

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。

Website/網址: www.suncreation.com



Sun Creation Engineering Limited Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C184960 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 | | | |
| (m/s) | (m/s) | (m/s) | Expanded Uncertainty (m/s) | Coverage Factor | |
| 2.0 | 1.7 | +0.3 | 0.2 | 2.0 | |
| 4.0 | 3.8 | +0.2 | 0.3 | 2.0 | |
| 6.0 | 5.8 | +0.2 | 0.3 | 2.0 | |
| 8.0 | 7.9 | +0.1 | 0.3 | 2.0 | |
| 10.0 | 10.0 | 0.0 | 0.4 | 2.0 | |

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

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

Note :

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

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

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

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

Appendix F

EM&A Monitoring Schedules

HY/2012/07 Tuen Mun - Chek Lap Kok Link - Southern Connection Viaduct Section Impact Noise Monitoring Schedule (1 to 30 November 2018)

| Sunday | oring at Pak Mong Village Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|---------|-------------------------------------|-------------------------|-------------------------------|--------------|---------|----------|
| | | | | 1-Nov | 2-Nov | 3-No |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| 4-Nov | 5-Nov | 6-Nov | 7-Nov | 8-Nov | 9-Nov | 10-Nc |
| | | Noise Impact Monitoring | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| 11-Nov | 12-Nov | 13-Nov | 14-Nov | 15-Nov | 16-Nov | 17-No |
| | Noise Impact Monitoring | 101101 | | Noise Impact | 101101 | |
| | | | | Monitoring | | |
| | | | | | | |
| | | | | | | |
| 18-Nov | 19-Nov | 20-Nov | 21-Nov | 22-Nov | 23-Nov | 24-No |
| 10-1404 | 13-1107 | 20-1107 | Noise Impact Monitoring | | 23-1107 | 24-110 |
| | | | i toloo iliipaot ilioiltoilig | | | |
| | | | | | | |
| | | | | | | |
| 25-Nov | 26-Nov | 27-Nov | 28-Nov | 29-Nov | 30-Nov | |
| 20-1100 | 20-1100 | Noise Impact Monitoring | 20-1100 | 29-1100 | 30-1100 | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

HY/2012/07 Tuen Mun - Chek Lap Kok Link - Southern Connection Viaduct Section Impact Air Quality Monitoring Schedule (1 to 30 November 2018)

| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|--------|---|---|---|---|--------|----------|
| | | | | 1-Nov | 2-Nov | 3-No |
| | | | | | | |
| 4-Nov | 5-Nov | 6-Nov | 7-Nov | 8-Nov | 9-Nov | 10-Nc |
| | | 1-hr TSP Monitoring 24-hr TSP Monitoring | | | | |
| 11-Nov | 12-Nov | 13-Nov | 14-Nov | 15-Nov | 16-Nov | 17-No |
| | 1-hr TSP Monitoring 24-hr TSP Monitoring | | | 1-hr TSP Monitoring 24-hr TSP Monitoring | | |
| 18-Nov | 19-Nov | 20-Nov | 21-Nov | 22-Nov | 23-Nov | 24-Nc |
| | | | 1-hr TSP Monitoring 24-hr TSP Monitoring | | | |
| 25-Nov | 26-Nov | 27-Nov | 28-Nov | 29-Nov | 30-Nov | |
| | | 1-hr TSP Monitoring 24-hr TSP Monitoring | | | | |

HY/2012/07 Tuen Mun - Chek Lap Kok Link - Southern Connection Viaduct Section Impact Noise Monitoring Schedule (1 to 31 December 2018)

| Alternative Noise Monite | oring at Pak Mong Village | Entrance | | | | |
|--------------------------|----------------------------------|-------------------------|-------------------------|-----------------------|----------------------------|----------|
| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
| | | | | | | 1-Dec |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | 4 Dec | ۲ Dee | C Dec | 7 Dec | 0 Dec |
| 2-Dec | 3-Dec Noise Impact Monitoring | 4-Dec | | 6-Dec Noise Impact | 7-Dec | 8-Dec |
| | Noise impact Monitoring | | | Monitoring | | |
| | | | | Morntoring | | |
| | | | | | | |
| | | | | | | |
| 9-Dec | 10-Dec | 11-Dec | 12-Dec | 13-Dec | 14-Dec | 15-Dec |
| | | | Noise Impact Monitoring | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| 10.5 | (7.5) | 40 D | 10 5 | | | 00 D |
| 16-Dec | | | 19-Dec | 20-Dec | | 22-Dec |
| | | Noise Impact Monitoring | | | Noise Impact Monitoring | |
| | | | | | wonitoring | |
| | | | | | | |
| | | | | | | |
| 23-Dec | 24-Dec | 25-Dec | 26-Dec | 27-Dec | 28-Dec | 29-Dec |
| | | | | Noise Impact | | |
| | | | | Monitoring | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| 30-Dec | 31-Dec | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

The schedule is subject to agreement from the EPD on the monitoring times. The schedule will be revised after reviewing the progress of the construction works or due to adverse (safety, weather etc) conditions. Additional weekly noise impact monitoring for construction works undertaken between 19:00-07:00 will be supplemented after confirmation of construction schedule.

HY/2012/07 Tuen Mun - Chek Lap Kok Link - Southern Connection Viaduct Section Impact Air Quality Monitoring Schedule (1 to 31 December 2018)

Alternative Air Quality Monitoring at WA4 and MTRC Depot Entrance

| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|--------|----------------------|----------------------|----------------------|----------------------|----------------------|----------|
| | | | | | | 1-Dec |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| 2-Dec | | 4-Dec | 5-Dec | | 7-Dec | 8-De |
| | 1-hr TSP Monitoring | | | 1-hr TSP Monitoring | | |
| | 24-hr TSP Monitoring | | | 24-hr TSP Monitoring | | |
| | | | | | | |
| | | | | | | |
| 9-Dec | 10-Dec | 11-Dec | 12-Dec | 13-Dec | 14-Dec | 15-De |
| 9-Dec | TO-Dec | TT-Dec | 1-hr TSP Monitoring | 13-Dec | 14-Dec | 10-De |
| | | | - | | | |
| | | | 24-hr TSP Monitoring | | | |
| | | | | | | |
| | | | | | | |
| 16-Dec | 17-Dec | 18-Dec | 19-Dec | 20-Dec | 21-Dec | 22-De |
| | | 1-hr TSP Monitoring | | | 1-hr TSP Monitoring | |
| | | 24-hr TSP Monitoring | | | 24-hr TSP Monitoring | |
| | | 5 | | | J J | |
| | | | | | | |
| | | | | | | |
| 23-Dec | 24-Dec | 25-Dec | 26-Dec | 27-Dec | 28-Dec | 29-De |
| | | | | 1-hr TSP Monitoring | | |
| | | | | 24-hr TSP Monitoring | | |
| | | | | | | |
| | | | | | | |
| 30-Dec | 31-Dec | | | | | |
| 30-Dec | 31-Dec | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

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

| | | | | <i>,</i> , | | |
|--------|---|----------|--|------------|--|----------|
| Sundav | Mondav | Tuesdav | Wednesdav | Thursdav | | Saturdav |
| | | | | 1/Nov | 2/Nov | 3/Nov |
| | | | | | ebb tide 6:10 - 9:40 flood tide 14:02 - 17:32 | |
| 4/Nov | 5/Nov | 6/Nov | 7/Nov | 8/Nov | 9/Nov | 10/Nov |
| | ebb tide 9:29 - 12:59 flood tide 15:51 - 19:21 | | ebb tide 11:00 - 14:30 flood tide 16:46 - 20:16 | | ebb tide 12:22 - 15:52 flood tide 17:43 - 21:13 | |
| 11/Nov | 12/Nov | / 13/Nov | 14/Nov | 15/Nov | 16/Nov | 17/Nov |
| | ebb tide 1:36 - 5:06 flood tide 9:02 - 12:32 | | ebb tide 2:56 - 6:26 flood tide 15:16 - 18:46 | | ebb tide 19:56 - 22:54 flood tide 13:39 - 17:09 | |
| 18/Nov | 19/Nov | / 20/Nov | 21/Nov | 22/Nov | 23/Nov | 24/Nov |
| | ebb tide 8:09 - 11:39 flood tide 14:59 - 18:29 | | ebb tide 9:41 - 13:11 flood tide 15:44 - 19:14 | | ebb tide 11:06 - 14:36 flood tide 16:42 - 20:12 | |
| 25/Nov | 26/Nov | / 27/Nov | 28/Nov | 29/Nov | 30/Nov | |
| | ebb tide 13:26 - 16:56 flood tide 8:05 - 11:35 | | ebb tide 15:17 - 18:41 flood tide 10:03 - 13:33 | | ebb tide 18:21 - 21:51 flood tide 12:29 - 15:59 | |

HY/2012/07 - Tuen Mun - Chek Lap Kok Link - Southern Connection Viaduct Section Impact Marine Water Quality Monitoring (WQM) Schedule (November 2018)

HY/2012/07 - Tuen Mun - Chek Lap Kok Link - Southern Connection Viaduct Section Impact Marine Water Quality Monitoring (WQM) Schedule (December 2018)

| Sundav | Mondav | Tuesdav | Wednesdav | Thursdav | Friday | Saturday |
|--------|---|----------|---|----------|--|----------|
| | | | | | | 1/Dec |
| | | | | | | |
| | | | | | | |
| 2/Dec | 3/De | 4/Dec | 5/Dec | 6/Dec | 7/Dec | 8/Dec |
| | ebb tide 8:14 - 11:44 flood tide 2:13 - 5:43 | | ebb tide 10:02 - 13:32 flood tide 4:20 - 7:50 | | ebb tide 11:27 - 14:57 flood tide 5:59 - 9:29 | |
| 9/Dec | 10/De | c 11/Dec | 12/Dec | 13/Dec | 14/Dec | 15/Dec |
| | ebb tide 13:15 - 16:4. flood tide 8:03 - 11:3. | | ebb tide 14:43 - 16:43 flood tide 9:27 - 12:57 | | ebb tide 4:43 - 6:35 flood tide 11:32 - 15:02 | |
| 16/Dec | 17/De | c 18/Dec | 19/Dec | 20/Dec | 21/Dec | 22/Dec |
| | ebb tide 5:57 - 9:27 flood tide 13:24 - 16:54 | ı. | ebb tide 8:12 - 11:42 flood tide 14:23 - 17:53 | | ebb tide 10:00 - 13:30 flood tide 15:33 - 19:03 | |
| 23/Dec | 24/De | c 25/Dec | 26/Dec | 27/Dec | 28/Dec | 29/Dec |
| | ebb tide 12:28 - 15:55 flood tide 7:10 - 10:40 | | ebb tide 14:06 - 16:21 flood tide 8:49 - 12:19 | | ebb tide 4:21 - 6:36 flood tide 10:34 - 14:04 | |
| 30/Dec | 31/De | c | | | | |
| | ebb tide 6:37 - 10:0 flood tide 13:13 - 16:4 | | | | | |

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

HY/2012/07 Tuen Mun - Chek Lap Kok Link - Southern Connection Viaduct Section Impact Dolphin Monitoring Survey Schedule (1 to 30 November 2018)

| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|---------|---------|----------------|-----------|----------------|---------|----------|
| | 1-Oct | 2-Oct | 3-Oct | | 2-Nov | 3-Nov |
| | | | | Impact Dolphin | | |
| | | | | Monitoring | | |
| | | | | | | |
| | | | | | | |
| 4-Nov | 5-Nov | 6-Nov | 7-Nov | 8-Nov | 9-Nov | 10-Nov |
| | | Impact Dolphin | | Impact Dolphin | | |
| | | Monitoring | | Monitoring | | |
| | | | | | | |
| | | | | | | |
| 11-Nov | 12-Nov | 13-Nov | 14-Nov | 15-Nov | 16-Nov | 17-Nov |
| | | Impact Dolphin | | | | |
| | | Monitoring | | | | |
| | | | | | | |
| | | | | | | |
| 18-Nov | 19-Nov | 20-Nov | 21-Nov | 22-Nov | 23-Nov | 24-Nov |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| 25-Nov | 26-Nov | 27-Nov | 28-Nov | 29-Nov | 30-Nov | |
| 20-1100 | 20-1100 | 27-1000 | 20-1100 | 29-1000 | 30-INOV | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

HY/2012/07 Tuen Mun - Chek Lap Kok Link - Southern Connection Viaduct Section Impact Dolphin Monitoring Survey Schedule (1 to 31 December 2018)

| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|----------|----------------|---------|----------------|----------|--------|----------------|
| | | | | | | 1-Dec |
| | | | | | | Impact Dolphin |
| | | | | | | Monitoring |
| | | | | | | |
| | | | | | | |
| 2-Dec | | 4-Dec | | 6-Dec | 7-Dec | 8-Dec |
| | Impact Dolphin | | Impact Dolphin | | | |
| | Monitoring | | Monitoring | | | |
| | | | | | | |
| | | | | | | |
| 9-Dec | | 11-Dec | | 13-Dec | 14-Dec | 15-Dec |
| | Impact Dolphin | | Impact Dolphin | | | |
| | Monitoring | | Monitoring | | | |
| | | | | | | |
| | | | | | | |
| 16-Dec | 17-Dec | 18-Dec | 19-Dec | 20-Dec | 21-Dec | 22-Dec |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| 23-Dec | 24-Dec | 25-Dec | 26-Dec | 27-Dec | 28-Dec | 29-Dec |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| 30-Dec | 31-Dec | | | | | |
| | | | | | | |
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| | | | | | | |
| <u> </u> | | | | | | |

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

Appendix G

Impact Air Quality Monitoring Results and Graphical Presentation

| Project | Works | Date(yyyy-mm-dd) | Station | Time (hh:mm, 24hour) | Parameter | Results (ug/m3) | Action Level (ug/m3) | Limit Level (ug/m3) |
|---------|------------|------------------|---------|----------------------|-----------|-----------------|----------------------|---------------------|
| TMCLKL | HY/2012/07 | 2018/11/06 | ASR8A | 8:30 | 1-hr TSP | 51 | | |
| TMCLKL | HY/2012/07 | 2018/11/06 | ASR8A | 9:32 | 1-hr TSP | 56 | | |
| TMCLKL | HY/2012/07 | 2018/11/06 | ASR8A | 10:40 | 1-hr TSP | 73 | | |
| TMCLKL | HY/2012/07 | 2018/11/12 | ASR8A | 8:42 | 1-hr TSP | 91 | | |
| TMCLKL | HY/2012/07 | 2018/11/12 | ASR8A | 9:44 | 1-hr TSP | 127 | | |
| TMCLKL | HY/2012/07 | 2018/11/12 | ASR8A | 11:02 | 1-hr TSP | 149 | | |
| TMCLKL | HY/2012/07 | 2018/11/15 | ASR8A | 8:40 | 1-hr TSP | 107 | | |
| TMCLKL | HY/2012/07 | 2018/11/15 | ASR8A | 9:42 | 1-hr TSP | 77 | 394 | 500 |
| TMCLKL | HY/2012/07 | 2018/11/15 | ASR8A | 10:50 | 1-hr TSP | 83 | | |
| TMCLKL | HY/2012/07 | 2018/11/21 | ASR8A | 8:43 | 1-hr TSP | 91 | | |
| TMCLKL | HY/2012/07 | 2018/11/21 | ASR8A | 9:45 | 1-hr TSP | 45 | | |
| TMCLKL | HY/2012/07 | 2018/11/21 | ASR8A | 10:48 | 1-hr TSP | 54 | | |
| TMCLKL | HY/2012/07 | 2018/11/27 | ASR8A | 8:44 | 1-hr TSP | 128 | | |
| TMCLKL | HY/2012/07 | 2018/11/27 | ASR8A | 9:46 | 1-hr TSP | 92 | | |
| TMCLKL | HY/2012/07 | 2018/11/27 | ASR8A | 10:52 | 1-hr TSP | 96 | | |
| | | | | | Average | 88 | | |
| | | | | | Min. | 45 | | |
| | | | | | Max. | 149 | | |

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

1-hour TSP Monitoring Results at Air Quality Monitoring Station ASR9

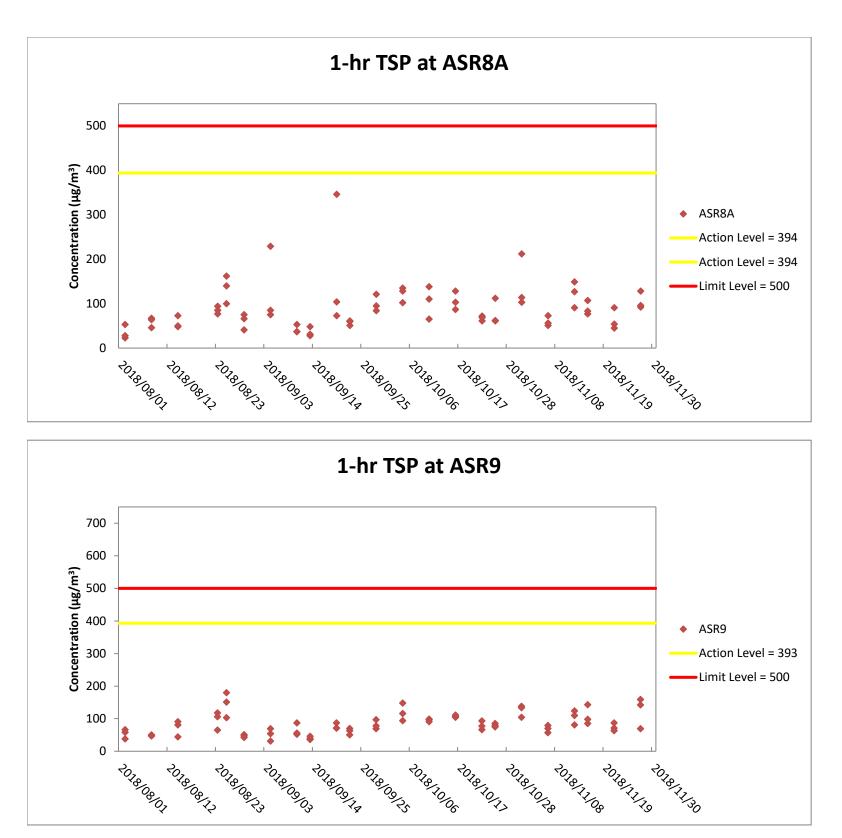
| Project | Works | Date(yyyy-mm-dd) | Station | Time (hh:mm, 24hour) | Parameter | Results (ug/m3) | Action Level (ug/m3) | Limit Level (ug/m3) |
|---------|------------|------------------|---------|----------------------|-----------|-----------------|----------------------|---------------------|
| TMCLKL | HY/2012/07 | 2018/11/06 | ASR9 | 8:41 | 1-hr TSP | 79 | | |
| TMCLKL | HY/2012/07 | 2018/11/06 | ASR9 | 9:43 | 1-hr TSP | 70 | | |
| TMCLKL | HY/2012/07 | 2018/11/06 | ASR9 | 10:52 | 1-hr TSP | 57 | | |
| TMCLKL | HY/2012/07 | 2018/11/12 | ASR9 | 8:30 | 1-hr TSP | 124 | | |
| TMCLKL | HY/2012/07 | 2018/11/12 | ASR9 | 9:32 | 1-hr TSP | 81 | | |
| TMCLKL | HY/2012/07 | 2018/11/12 | ASR9 | 10:50 | 1-hr TSP | 110 | | |
| TMCLKL | HY/2012/07 | 2018/11/15 | ASR9 | 8:30 | 1-hr TSP | 143 | | |
| TMCLKL | HY/2012/07 | 2018/11/15 | ASR9 | 9:32 | 1-hr TSP | 85 | 393 | 500 |
| TMCLKL | HY/2012/07 | 2018/11/15 | ASR9 | 10:39 | 1-hr TSP | 98 | | |
| TMCLKL | HY/2012/07 | 2018/11/21 | ASR9 | 8:32 | 1-hr TSP | 87 | | |
| TMCLKL | HY/2012/07 | 2018/11/21 | ASR9 | 9:34 | 1-hr TSP | 71 | | |
| TMCLKL | HY/2012/07 | 2018/11/21 | ASR9 | 10:37 | 1-hr TSP | 63 | | |
| TMCLKL | HY/2012/07 | 2018/11/27 | ASR9 | 8:33 | 1-hr TSP | 142 | | |
| TMCLKL | HY/2012/07 | 2018/11/27 | ASR9 | 9:35 | 1-hr TSP | 69 | | |
| TMCLKL | HY/2012/07 | 2018/11/27 | ASR9 | 10:43 | 1-hr TSP | 159 | | |
| | | | | | Average | 96 | | |
| | | | | | Min. | 57 | | |
| | | | | | Max. | 159 | | |

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

| Project | Works | Date(yyyy-mm-dd) | Station | Time (hh:mm, 24hour) | Parameter | Results (ug/m3) | Action Level (ug/m3) | Limit Level (ug/m3) |
|---------|------------|------------------|---------|----------------------|-----------|-----------------|----------------------|---------------------|
| TMCLKL | HY/2012/07 | 2018/11/06 | ASR8A | 11:42 | 24-hr TSP | 36 | | |
| TMCLKL | HY/2012/07 | 2018/11/12 | ASR8A | 12:04 | 24-hr TSP | 104 | | |
| TMCLKL | HY/2012/07 | 2018/11/15 | ASR8A | 11:52 | 24-hr TSP | 65 | 178 | 260 |
| TMCLKL | HY/2012/07 | 2018/11/21 | ASR8A | 11:50 | 24-hr TSP | 74 | | |
| TMCLKL | HY/2012/07 | 2018/11/27 | ASR8A | 11:54 | 24-hr TSP | 42 | | |
| | | | | | Average | 64 | | |
| | | | | | Min. | 36 | | |
| | | | | | Max. | 104 | | |

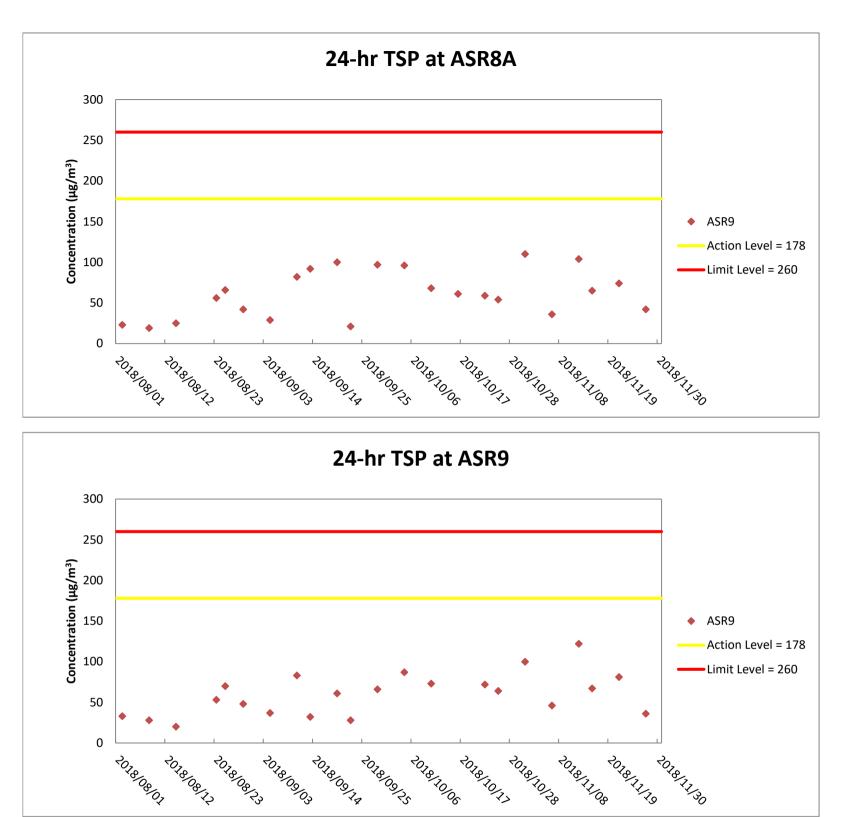
24-hour TSP Monitoring Results at Air Quality Monitoring Station ASR9

| Project | Works | Date(yyyy-mm-dd) | Station | Time (hh:mm, 24hour) | Parameter | Results (ug/m3) | Action Level (ug/m3) | Limit Level (ug/m3) |
|---------|------------|------------------|---------|----------------------|-----------|-----------------|----------------------|---------------------|
| TMCLKL | HY/2012/07 | 2018/11/06 | ASR9 | 11:54 | 24-hr TSP | 46 | | |
| TMCLKL | HY/2012/07 | 2018/11/12 | ASR9 | 11:52 | 24-hr TSP | 122 | | |
| TMCLKL | HY/2012/07 | 2018/11/15 | ASR9 | 11:41 | 24-hr TSP | 67 | 178 | 260 |
| TMCLKL | HY/2012/07 | 2018/11/21 | ASR9 | 11:39 | 24-hr TSP | 81 | | |
| TMCLKL | HY/2012/07 | 2018/11/27 | ASR9 | 11:45 | 24-hr TSP | 36 | | |
| | | | | | Average | 70 | | |
| | | | | | Min. | 36 | | |
| | | | | | Max. | 122 | | |



Weather condition within the reporting period varied between sunny to rainy.

Major construction works undertaken within the reporting period include Reinstatement works of Cheung Tung Road; Abutment construction; Road works along North Lantau Highway; Asphalt paving; Sign gantries construction; Parapet installation; and Slope work of Viaducts A, B,C & D. Marine works within the reporting period include Uninstallation of marine piling platform.



Weather condition within the reporting period varied between sunny to rainy.

Major construction works undertaken within the reporting period include Reinstatement works of Cheung Tung Road; Abutment construction; Road works along North Lantau Highway; Asphalt paving; Sign gantries construction; Parapet installation; and Slope work of Viaducts A, B,C & D. Marine works within the reporting period include Uninstallation of marine piling platform.

Appendix H

Meteorological Data for the Reporting Month

| Date | Time (HH) | Wind speed (m/s) | Wind direction (deg) |
|------------|-----------|------------------|----------------------|
| 2018-11-06 | 8 | 1.23 | 200 |
| 2018-11-06 | 9 | 1.20 | 226 |
| 2018-11-06 | 10 | 2.60 | 201 |
| 2018-11-06 | 11 | 1.75 | 212 |
| 2018-11-06 | 12 | 2.43 | 212 |
| 2018-11-06 | 13 | 2.49 | 211 |
| 2018-11-06 | 14 | 1.83 | 220 |
| 2018-11-06 | 15 | 2.20 | 201 |
| 2018-11-06 | 16 | 2.12 | 194 |
| 2018-11-06 | 17 | 2.19 | 206 |
| 2018-11-06 | 18 | 0.50 | 245 |
| 2018-11-06 | 19 | 0.33 | 213 |
| 2018-11-06 | 20 | 0.65 | 231 |
| 2018-11-06 | 21 | 2.12 | 228 |
| 2018-11-06 | 22 | 0.43 | 246 |
| 2018-11-06 | 23 | 1.72 | 216 |
| 2018-11-07 | 0 | 1.91 | 209 |
| 2018-11-07 | 1 | 2.01 | 213 |
| 2018-11-07 | 2 | 0.27 | 164 |
| 2018-11-07 | 3 | 0.02 | 159 |
| 2018-11-07 | 4 | 0.03 | 146 |
| 2018-11-07 | 5 | 0.02 | 141 |
| 2018-11-07 | 6 | 0.32 | 166 |
| 2018-11-07 | 7 | 0.34 | 174 |
| 2018-11-07 | 8 | 2.55 | 206 |
| 2018-11-07 | 9 | 1.73 | 192 |
| 2018-11-07 | 10 | 1.48 | 203 |
| 2018-11-07 | 11 | 0.46 | 185 |
| 2018-11-07 | 12 | 0.77 | 188 |
| 2018-11-07 | 13 | 2.12 | 198 |
| 2018-11-07 | 14 | 1.47 | 203 |
| 2018-11-07 | 15 | 1.23 | 211 |
| 2018-11-07 | 16 | 0.55 | 226 |
| 2018-11-07 | 17 | 0.24 | 233 |
| 2018-11-07 | 18 | 0.09 | 227 |
| 2018-11-07 | 19 | 0.09 | 226 |
| 2018-11-07 | 20 | 0.08 | 228 |
| 2018-11-07 | 21 | 0.08 | 228 |
| 2018-11-07 | 22 | 0.11 | 221 |
| 2018-11-07 | 23 | 0.04 | 219 |
| 2018-11-12 | 0 | 0.07 | 229 |
| 2018-11-12 | 1 | 0.12 | 185 |
| 2018-11-12 | 2 | 0.04 | 212 |
| 2018-11-12 | 3 | 1.22 | 172 |
| 2018-11-12 | 4 | 1.30 | 231 |

| Date | Time (HH) | Wind speed (m/s) | Wind direction (deg) |
|------------|-----------|------------------|----------------------|
| 2018-11-12 | 5 | 0.12 | 191 |
| 2018-11-12 | 6 | 0.08 | 225 |
| 2018-11-12 | 7 | 0.02 | 178 |
| 2018-11-12 | 8 | 0.02 | 143 |
| 2018-11-12 | 9 | 0.02 | 284 |
| 2018-11-12 | 10 | 0.02 | 261 |
| 2018-11-12 | 11 | 0.02 | 271 |
| 2018-11-12 | 12 | 0.00 | 220 |
| 2018-11-12 | 13 | 0.00 | 257 |
| 2018-11-12 | 14 | 0.01 | 215 |
| 2018-11-12 | 15 | 0.02 | 200 |
| 2018-11-12 | 16 | 0.27 | 207 |
| 2018-11-12 | 17 | 0.39 | 225 |
| 2018-11-12 | 18 | 0.42 | 216 |
| 2018-11-12 | 19 | 0.23 | 229 |
| 2018-11-12 | 20 | 0.64 | 232 |
| 2018-11-12 | 21 | 0.44 | 227 |
| 2018-11-12 | 22 | 0.25 | 228 |
| 2018-11-12 | 23 | 0.20 | 221 |
| 2018-11-13 | 0 | 0.06 | 183 |
| 2018-11-13 | 1 | 0.05 | 201 |
| 2018-11-13 | 2 | 0.02 | 227 |
| 2018-11-13 | 3 | 0.02 | 226 |
| 2018-11-13 | 4 | 0.02 | 196 |
| 2018-11-13 | 5 | 0.06 | 221 |
| 2018-11-13 | 6 | 0.02 | 202 |
| 2018-11-13 | 7 | 0.02 | 272 |
| 2018-11-13 | 8 | 0.03 | 268 |
| 2018-11-13 | 9 | 0.02 | 260 |
| 2018-11-13 | 10 | 0.01 | 328 |
| 2018-11-13 | 11 | 0.02 | 345 |
| 2018-11-13 | 12 | 0.03 | 264 |
| 2018-11-13 | 13 | 0.06 | 199 |
| 2018-11-13 | 14 | 2.42 | 201 |
| 2018-11-13 | 15 | 2.25 | 215 |
| 2018-11-13 | 16 | 2.35 | 211 |
| 2018-11-13 | 17 | 1.29 | 198 |
| 2018-11-13 | 18 | 1.58 | 206 |
| 2018-11-13 | 19 | 1.27 | 180 |
| 2018-11-13 | 20 | 2.10 | 213 |
| 2018-11-13 | 21 | 0.60 | 170 |
| 2018-11-13 | 22 | 0.20 | 156 |
| 2018-11-13 | 23 | 0.08 | 198 |
| 2018-11-15 | 0 | 0.14 | 158 |
| 2018-11-15 | 1 | 0.30 | 177 |

| Date | Time (HH) | Wind speed (m/s) | Wind direction (deg) |
|------------|-----------|------------------|----------------------|
| 2018-11-15 | 2 | 0.76 | 170 |
| 2018-11-15 | 3 | 0.89 | 206 |
| 2018-11-15 | 4 | 0.23 | 205 |
| 2018-11-15 | 5 | 1.43 | 205 |
| 2018-11-15 | 6 | 0.66 | 210 |
| 2018-11-15 | 7 | 0.44 | 176 |
| 2018-11-15 | 8 | 0.98 | 215 |
| 2018-11-15 | 9 | 1.16 | 167 |
| 2018-11-15 | 10 | 0.32 | 209 |
| 2018-11-15 | 11 | 0.57 | 216 |
| 2018-11-15 | 12 | 0.94 | 168 |
| 2018-11-15 | 13 | 0.34 | 160 |
| 2018-11-15 | 14 | 0.05 | 166 |
| 2018-11-15 | 15 | 0.28 | 150 |
| 2018-11-15 | 16 | 0.03 | 163 |
| 2018-11-15 | 17 | 0.16 | 166 |
| 2018-11-15 | 18 | 0.59 | 130 |
| 2018-11-15 | 19 | 0.58 | 143 |
| 2018-11-15 | 20 | 0.23 | 146 |
| 2018-11-15 | 21 | 0.39 | 149 |
| 2018-11-15 | 22 | 1.47 | 206 |
| 2018-11-15 | 23 | 3.38 | 212 |
| 2018-11-16 | 0 | 2.71 | 208 |
| 2018-11-16 | 1 | 1.85 | 215 |
| 2018-11-16 | 2 | 0.54 | 225 |
| 2018-11-16 | 3 | 1.34 | 227 |
| 2018-11-16 | 4 | 2.76 | 210 |
| 2018-11-16 | 5 | 1.62 | 213 |
| 2018-11-16 | 6 | 2.06 | 213 |
| 2018-11-16 | 7 | 1.64 | 204 |
| 2018-11-16 | 8 | 2.42 | 208 |
| 2018-11-16 | 9 | 1.69 | 196 |
| 2018-11-16 | 10 | 1.63 | 209 |
| 2018-11-16 | 11 | 2.12 | 207 |
| 2018-11-16 | 12 | 0.49 | 205 |
| 2018-11-16 | 12 | 0.45 | 205 |
| 2018-11-16 | 13 | 1.01 | 219 |
| 2018-11-16 | 14 | 0.46 | 195 |
| 2018-11-16 | 15 | 0.45 | 195 |
| 2018-11-16 | 10 | 0.16 | 198 |
| 2018-11-16 | 17 | 0.34 | 220 |
| 2018-11-16 | 18 | 0.34 | 158 |
| 2018-11-16 | 20 | 0.02 | 134 |
| 2018-11-16 | | 0.14 | 134 |
| | 21 | | |
| 2018-11-16 | 22 | 0.02 | 199 |

| Date | Time (HH) | Wind speed (m/s) | Wind direction (deg) |
|------------|-----------|------------------|----------------------|
| 2018-11-16 | 23 | 0.03 | 182 |
| 2018-11-21 | 0 | 0.43 | 216 |
| 2018-11-21 | 1 | 0.07 | 193 |
| 2018-11-21 | 2 | 0.02 | 142 |
| 2018-11-21 | 3 | 0.02 | 188 |
| 2018-11-21 | 4 | 0.02 | 185 |
| 2018-11-21 | 5 | 0.05 | 219 |
| 2018-11-21 | 6 | 0.53 | 244 |
| 2018-11-21 | 7 | 2.67 | 222 |
| 2018-11-21 | 8 | 1.71 | 218 |
| 2018-11-21 | 9 | 2.89 | 224 |
| 2018-11-21 | 10 | 2.16 | 227 |
| 2018-11-21 | 11 | 0.30 | 236 |
| 2018-11-21 | 12 | 0.03 | 189 |
| 2018-11-21 | 13 | 0.00 | 219 |
| 2018-11-21 | 14 | 0.00 | 229 |
| 2018-11-21 | 15 | 0.02 | 366 |
| 2018-11-21 | 16 | 0.32 | 270 |
| 2018-11-21 | 17 | 0.55 | 232 |
| 2018-11-21 | 18 | 0.20 | 220 |
| 2018-11-21 | 19 | 0.45 | 278 |
| 2018-11-21 | 20 | 0.02 | 196 |
| 2018-11-21 | 21 | 0.06 | 304 |
| 2018-11-21 | 22 | 0.18 | 360 |
| 2018-11-21 | 23 | 0.02 | 363 |
| 2018-11-22 | 0 | 0.11 | 307 |
| 2018-11-22 | 1 | 0.06 | 360 |
| 2018-11-22 | 2 | 0.24 | 254 |
| 2018-11-22 | 3 | 0.11 | 313 |
| 2018-11-22 | 4 | 0.07 | 365 |
| 2018-11-22 | 5 | 0.05 | 339 |
| 2018-11-22 | 6 | 0.04 | 333 |
| 2018-11-22 | 7 | 0.10 | 362 |
| 2018-11-22 | 8 | 0.09 | 311 |
| 2018-11-22 | 9 | 0.20 | 331 |
| 2018-11-22 | 10 | 0.10 | 326 |
| 2018-11-22 | 11 | 0.04 | 239 |
| 2018-11-22 | 12 | 0.02 | 333 |
| 2018-11-22 | 13 | 0.02 | 342 |
| 2018-11-22 | 14 | 0.02 | 327 |
| 2018-11-22 | 15 | 0.02 | 228 |
| 2018-11-22 | 16 | 0.03 | 243 |
| 2018-11-22 | 17 | 0.02 | 195 |
| 2018-11-22 | 18 | 0.02 | 207 |
| 2018-11-22 | 19 | 0.03 | 180 |

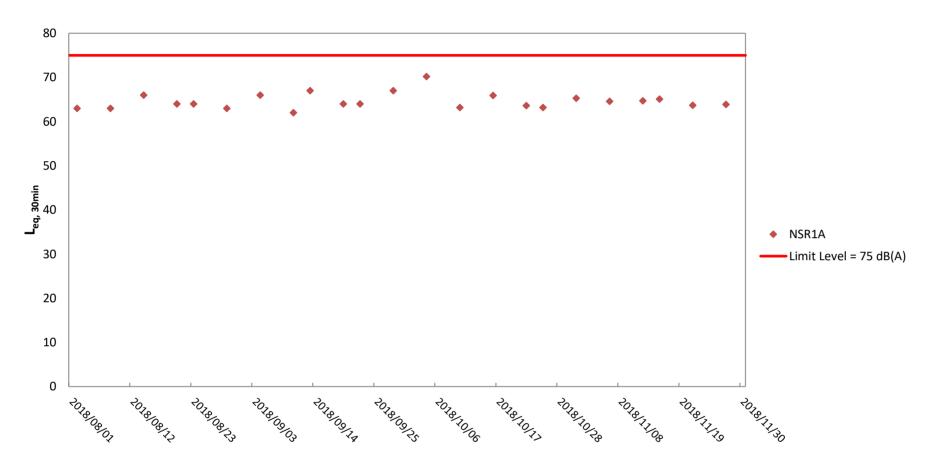
| Date | Time (HH) | Wind speed (m/s) | Wind direction (deg) |
|------------|-----------|------------------|----------------------|
| 2018-11-22 | 20 | 0.04 | 133 |
| 2018-11-22 | 21 | 0.05 | 151 |
| 2018-11-22 | 22 | 0.02 | 357 |
| 2018-11-22 | 23 | 0.02 | 355 |
| 2018-11-27 | 0 | 0.02 | 227 |
| 2018-11-27 | 1 | 0.15 | 235 |
| 2018-11-27 | 2 | 0.02 | 230 |
| 2018-11-27 | 3 | 0.04 | 210 |
| 2018-11-27 | 4 | 0.02 | 160 |
| 2018-11-27 | 5 | 0.02 | 231 |
| 2018-11-27 | 6 | 0.02 | 226 |
| 2018-11-27 | 7 | 0.02 | 212 |
| 2018-11-27 | 8 | 0.02 | 100 |
| 2018-11-27 | 9 | 0.02 | 128 |
| 2018-11-27 | 10 | 0.02 | 68 |
| 2018-11-27 | 11 | 0.02 | 51 |
| 2018-11-27 | 12 | 0.02 | 299 |
| 2018-11-27 | 13 | 0.02 | 344 |
| 2018-11-27 | 14 | 0.02 | 289 |
| 2018-11-27 | 15 | 0.02 | 262 |
| 2018-11-27 | 16 | 0.02 | 93 |
| 2018-11-27 | 17 | 0.02 | 100 |
| 2018-11-27 | 18 | 0.03 | 167 |
| 2018-11-27 | 19 | 0.03 | 206 |
| 2018-11-27 | 20 | 0.05 | 223 |
| 2018-11-27 | 21 | 0.15 | 231 |
| 2018-11-27 | 22 | 0.02 | 178 |
| 2018-11-27 | 23 | 0.05 | 215 |
| 2018-11-28 | 0 | 0.02 | 152 |
| 2018-11-28 | 1 | 0.02 | 197 |
| 2018-11-28 | 2 | 0.03 | 199 |
| 2018-11-28 | 3 | 0.03 | 198 |
| 2018-11-28 | 4 | 0.09 | 219 |
| 2018-11-28 | 5 | 0.04 | 233 |
| 2018-11-28 | 6 | 0.07 | 211 |
| 2018-11-28 | 7 | 0.04 | 218 |
| 2018-11-28 | 8 | 0.32 | 213 |
| 2018-11-28 | 9 | 0.05 | 208 |
| 2018-11-28 | 10 | 0.12 | 202 |
| 2018-11-28 | 11 | 0.02 | 179 |
| 2018-11-28 | 12 | 0.30 | 248 |
| 2018-11-28 | 13 | 0.08 | 197 |
| 2018-11-28 | 14 | 0.05 | 188 |
| 2018-11-28 | 15 | 0.71 | 215 |
| 2018-11-28 | 16 | 0.14 | 213 |

| Date | Time (HH) | Wind speed (m/s) | Wind direction (deg) |
|------------|-----------|------------------|----------------------|
| 2018-11-28 | 17 | 0.07 | 191 |
| 2018-11-28 | 18 | 0.23 | 187 |
| 2018-11-28 | 19 | 0.05 | 271 |
| 2018-11-28 | 20 | 0.05 | 184 |
| 2018-11-28 | 21 | 0.09 | 217 |
| 2018-11-28 | 22 | 0.04 | 184 |
| 2018-11-28 | 23 | 0.05 | 227 |

Appendix I

Impact Noise Monitoring Results and Graphical Presentation

| Ducient | | | 01-11-1 | Weather Condition | Time (blumm 24bour) | Noise L | evel for 30- | min, dB(A) | Limit Level | Wind Speed | | Calibrator |
|---------|-------------|-------------------|---------|-------------------|---------------------------------|---------|--------------|------------|-------------|----------------|----------------------|----------------|
| Project | Works | Date (yyyy-mm-dd) | Station | Weather Condition | Time (hh:mm, 24hour) | Leq | L10 | L90 | dB(A) | (m/s) | Noise Meter Model/ID | Model/ID |
| TMCLKL | HY/2012/07 | 2018/11/06 | NSR1A | Suppy | Sunny 10:00 64.6 66.5 60.6 75 0 | | 0.5 | RION NL52 | RION NC73 | | | |
| TNICERE | 111/2012/07 | 2010/11/00 | NORIA | Sunny | 10.00 | 04.0 | 00.5 | 00.0 | 75 | 0.5 | (00131628) | (S/N 10486660) |
| TMCLKL | HY/2012/07 | 2018/11/12 | NSR1A | Guppy | 10:05 | 64.7 | 66.4 | 60.6 | 75 | 0.5 | RION NL52 | RION NC73 |
| TNICLAL | HT/2012/07 | 2010/11/12 | NORIA | Sunny | 10.05 | 04.7 | 00.4 | 00.0 | 75 | 0.5 | (00131628) | (S/N 10486660) |
| TMCLKL | HY/2012/07 | 2018/11/15 | NSR1A | Suppy | 10:00 | 65 1 | 67.6 | 60 | 75 | 0.5 | RION NL52 | RION NC73 |
| TNICLAL | HT/2012/07 | 2010/11/15 | NORIA | Sunny | 10:00 65.1 67.6 62 | 02 | 75 | 0.5 | (00131628) | (S/N 10486660) | | |
| | | 0040/44/04 | | Current | 0.56 | 62.7 | 65.7 | 60.4 | 75 | 0.4 | RION NL52 | RION NC73 |
| TMCLKL | HY/2012/07 | 2018/11/21 | NSR1A | Sunny | 9:56 | 63.7 | 05.7 | 60.1 | 75 | 0.4 | (00131628) | (S/N 10486660) |
| | | 0040/44/07 | | Olaudu | 10-02 | 62.0 | | C4 F | 75 | 0.4 | RION NL52 | RION NC73 |
| TMCLKL | HY/2012/07 | 2018/11/27 | NSR1A | Cloudy | 10:03 | 63.9 | 65.1 | 61.5 | 75 | 0.4 | (00131628) | (S/N 10486660) |
| | | | • | | Min. | 63.7 | | - | | | | |
| | | | | | Max. | 65.1 | | | | | | |
| | | | | | Average | 64 | | | | | | |



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

Weather condition within the reporting period varied between sunny to rainy.

Major construction works undertaken within the reporting period include Reinstatement works of Cheung Tung Road; Abutment construction; Road works along North Lantau Highway; Asphalt paving; Sign gantries construction; Parapet installation; and Slope work of Viaducts A, B,C & D. Marine works within the reporting period include Uninstallation of marine piling platform.

Appendix J

Impact Water Quality Monitoring Results and Graphical Presentation

| Project | Works | Date (yyyy-mm-dd) | Tide | Station | Start Time | Depth (m) | Level | Level Code | Replicate | Temperature (°C) | рН | Salinity (ppt) | DO (mg/L) | Average DO | Turbidity (NTU) | Depth-Averaged Turbidity | SS (mg/L) | Depth-Averaged SS |
|---------|------------|-------------------|---------|------------|------------|-----------|---------|------------|-----------|------------------|-----|----------------|-----------|-------------------|-----------------|-----------------------------|-----------|-------------------|
| TMCLKL | HY/2012/07 | 2018/11/02 | Mid-Ebb | CS(Mf)5 | 7:26 | 12.6 | Surface | 1 | 1 | 25.1 | 8.2 | 32.2 | 6.7 | | 3.3 | | 5.5 | |
| TMCLKL | HY/2012/07 | 2018/11/02 | Mid-Ebb | CS(Mf)5 | 7:26 | 12.6 | Surface | 1 | 2 | 24.8 | 8.1 | 32.7 | 6.7 | 6.7 | 3.2 | | 6.0 | |
| TMCLKL | HY/2012/07 | 2018/11/02 | Mid-Ebb | CS(Mf)5 | 7:26 | 12.6 | Middle | 2 | 1 | 25.1 | 8.2 | 32.2 | 6.7 | 0.7 | 6.2 | 5.4 | 7.5 | 7.3 |
| TMCLKL | HY/2012/07 | 2018/11/02 | Mid-Ebb | CS(Mf)5 | 7:26 | 12.6 | Middle | 2 | 2 | 24.7 | 8.1 | 32.8 | 6.7 | [Γ | 6.1 | 5.4 | 7.7 | 7.5 |
| TMCLKL | HY/2012/07 | 2018/11/02 | Mid-Ebb | CS(Mf)5 | 7:26 | 12.6 | Bottom | 3 | 1 | 25.1 | 8.2 | 32.3 | 6.7 | 6.7 | 6.9 | | 8.4 | |
| TMCLKL | HY/2012/07 | 2018/11/02 | Mid-Ebb | CS(Mf)5 | 7:26 | 12.6 | Bottom | 3 | 2 | 24.7 | 8.1 | 32.8 | 6.7 | 6.7 | 6.7 | | 8.6 | |
| TMCLKL | HY/2012/07 | 2018/11/02 | Mid-Ebb | CS(Mf)3(N) | 8:32 | 7.3 | Surface | 1 | 1 | 24.2 | 8.1 | 31.7 | 7.1 | | 5.3 | | 4.3 | |
| TMCLKL | HY/2012/07 | 2018/11/02 | Mid-Ebb | CS(Mf)3(N) | 8:32 | 7.3 | Surface | 1 | 2 | 24.2 | 7.9 | 30.4 | 7.2 | 7.2 | 5.2 | | 4.0 | |
| TMCLKL | HY/2012/07 | 2018/11/02 | Mid-Ebb | CS(Mf)3(N) | 8:32 | 7.3 | Middle | 2 | 1 | 24.2 | 8.0 | 31.9 | 7.1 | 7.2 | 6.7 | 6.4 | 6.0 | 6.0 |
| TMCLKL | HY/2012/07 | 2018/11/02 | Mid-Ebb | CS(Mf)3(N) | 8:32 | 7.3 | Middle | 2 | 2 | 24.2 | 7.9 | 30.7 | 7.2 | 1 | 6.7 | 6.4 | 6.7 | 6.0 |
| TMCLKL | HY/2012/07 | 2018/11/02 | Mid-Ebb | CS(Mf)3(N) | 8:32 | 7.3 | Bottom | 3 | 1 | 24.3 | 8.0 | 32.1 | 7.0 | 7.1 | 7.3 | | 7.6 | |
| TMCLKL | HY/2012/07 | 2018/11/02 | Mid-Ebb | CS(Mf)3(N) | 8:32 | 7.3 | Bottom | 3 | 2 | 24.3 | 8.0 | 30.8 | 7.2 | 7.1 | 7.0 | | 7.1 | |
| TMCLKL | HY/2012/07 | 2018/11/02 | Mid-Ebb | IS(Mf)16 | 7:56 | 5.8 | Surface | 1 | 1 | 25.0 | 8.2 | 31.7 | 6.6 | | 3.4 | | 6.1 | |
| TMCLKL | HY/2012/07 | 2018/11/02 | Mid-Ebb | IS(Mf)16 | 7:56 | 5.8 | Surface | 1 | 2 | 24.7 | 8.1 | 32.2 | 6.6 | | 3.5 | | 6.2 | |
| TMCLKL | HY/2012/07 | 2018/11/02 | Mid-Ebb | IS(Mf)16 | 7:56 | 5.8 | Middle | 2 | 1 | | | | | 6.6 | | 2.6 | | 7.2 |
| TMCLKL | HY/2012/07 | 2018/11/02 | Mid-Ebb | IS(Mf)16 | 7:56 | 5.8 | Middle | 2 | 2 | | | | | 1 | | 3.6 | | 7.3 |
| TMCLKL | HY/2012/07 | 2018/11/02 | Mid-Ebb | IS(Mf)16 | 7:56 | 5.8 | Bottom | 3 | 1 | 25.1 | 8.2 | 32.1 | 6.6 | 6.7 | 3.8 | | 8.1 | |
| TMCLKL | HY/2012/07 | 2018/11/02 | Mid-Ebb | IS(Mf)16 | 7:56 | 5.8 | Bottom | 3 | 2 | 24.8 | 8.1 | 32.5 | 6.7 | 0.7 | 3.6 | | 8.9 | |
| TMCLKL | HY/2012/07 | 2018/11/02 | Mid-Ebb | SR4a | 8:05 | 4.5 | Surface | 1 | 1 | 24.2 | 8.2 | 29.9 | 7.2 | | 3.7 | | 3.0 | |
| TMCLKL | HY/2012/07 | 2018/11/02 | Mid-Ebb | SR4a | 8:05 | 4.5 | Surface | 1 | 2 | 23.9 | 8.1 | 30.3 | 7.2 | 7.2 | 3.5 | | 3.0 | |
| TMCLKL | HY/2012/07 | 2018/11/02 | Mid-Ebb | SR4a | 8:05 | 4.5 | Middle | 2 | 1 | | | | | 7.2 | | F 2 | | 3.9 |
| TMCLKL | HY/2012/07 | 2018/11/02 | Mid-Ebb | SR4a | 8:05 | 4.5 | Middle | 2 | 2 | | | | | 1 | | 5.2 | | 5.9 |
| TMCLKL | HY/2012/07 | 2018/11/02 | Mid-Ebb | SR4a | 8:05 | 4.5 | Bottom | 3 | 1 | 24.2 | 8.2 | 29.9 | 7.2 | 7.2 | 7.0 | | 4.8 | - |
| TMCLKL | HY/2012/07 | 2018/11/02 | Mid-Ebb | SR4a | 8:05 | 4.5 | Bottom | 3 | 2 | 23.9 | 8.1 | 30.4 | 7.2 | 7.2 | 6.5 | | 4.8 | |
| TMCLKL | HY/2012/07 | 2018/11/02 | Mid-Ebb | SR4(N) | 8:10 | 4.2 | Surface | 1 | 1 | 24.3 | 8.2 | 29.7 | 6.9 | | 4.2 | | 4.5 | |
| TMCLKL | HY/2012/07 | 2018/11/02 | Mid-Ebb | SR4(N) | 8:10 | 4.2 | Surface | 1 | 2 | 24.0 | 8.1 | 30.2 | 6.9 | 6.9 | 4.0 | | 3.6 | |
| TMCLKL | HY/2012/07 | 2018/11/02 | Mid-Ebb | SR4(N) | 8:10 | 4.2 | Middle | 2 | 1 | | | | | 0.5 | | 4.0 | | 5.0 |
| TMCLKL | HY/2012/07 | 2018/11/02 | Mid-Ebb | SR4(N) | 8:10 | 4.2 | Middle | 2 | 2 | | | | | | | 4.0 | | 5.0 |
| TMCLKL | HY/2012/07 | 2018/11/02 | Mid-Ebb | SR4(N) | 8:10 | 4.2 | Bottom | 3 | 1 | 24.3 | 8.2 | 29.7 | 6.9 | 6.9 | 3.8 | | 5.8 | |
| TMCLKL | HY/2012/07 | 2018/11/02 | Mid-Ebb | SR4(N) | 8:10 | 4.2 | Bottom | 3 | 2 | 24.0 | 8.1 | 30.2 | 6.9 | 0.9 | 3.9 | | 6.1 | |
| TMCLKL | HY/2012/07 | 2018/11/02 | Mid-Ebb | IS8 | 8:15 | 4.3 | Surface | 1 | 1 | 24.4 | 8.0 | 30.1 | 7.3 | | 4.5 | | 6.2 | |
| TMCLKL | HY/2012/07 | 2018/11/02 | Mid-Ebb | IS8 | 8:15 | 4.3 | Surface | 1 | 2 | 24.1 | 8.1 | 30.5 | 7.4 | 7.4 | 4.4 | | 6.4 |] |
| TMCLKL | HY/2012/07 | 2018/11/02 | Mid-Ebb | IS8 | 8:15 | 4.3 | Middle | 2 | 1 | | | | | ↓ ^{/.} → | | 4.6 | | 6.9 |
| TMCLKL | HY/2012/07 | 2018/11/02 | Mid-Ebb | IS8 | 8:15 | 4.3 | Middle | 2 | 2 | | | | | | | ч. С | | 0.5 |
| TMCLKL | HY/2012/07 | 2018/11/02 | Mid-Ebb | IS8 | 8:15 | 4.3 | Bottom | 3 | 1 | 24.4 | 8.2 | 30.1 | 7.4 | 7.4 | 4.8 | | 7.8 |] |
| TMCLKL | HY/2012/07 | 2018/11/02 | Mid-Ebb | IS8 | 8:15 | 4.3 | Bottom | 3 | 2 | 24.0 | 8.1 | 30.5 | 7.4 | 7.4 | 4.8 | | 7.3 | |
| TMCLKL | HY/2012/07 | 2018/11/02 | Mid-Ebb | IS(Mf)9 | 8:23 | 3.4 | Surface | 1 | 1 | 24.1 | 8.1 | 29.8 | 7.5 | | 6.8 | | 5.3 | |
| TMCLKL | HY/2012/07 | 2018/11/02 | Mid-Ebb | IS(Mf)9 | 8:23 | 3.4 | Surface | 1 | 2 | 23.7 | 8.1 | 30.3 | 7.5 | 7.5 | 6.5 | | 5.2 | |
| TMCLKL | HY/2012/07 | 2018/11/02 | Mid-Ebb | IS(Mf)9 | 8:23 | 3.4 | Middle | 2 | 1 | | | | | ,, | | 7.6 | | 5.5 |
| TMCLKL | HY/2012/07 | 2018/11/02 | Mid-Ebb | IS(Mf)9 | 8:23 | 3.4 | Middle | 2 | 2 | | | | | | | 7.0 | | |
| | HY/2012/07 | 2018/11/02 | Mid-Ebb | IS(Mf)9 | 8:23 | 3.4 | Bottom | 3 | 1 | 24.1 | 8.1 | 29.8 | 7.4 | 7.5 | 8.4 | | 6.2 | |
| TMCLKL | HY/2012/07 | 2018/11/02 | Mid-Ebb | IS(Mf)9 | 8:23 | 3.4 | Bottom | 3 | 2 | 23.7 | 8.1 | 30.3 | 7.5 | | 8.5 | | 5.1 | |

| Project | Works | Date (yyyy-mm-dd) | Tide | Station | Start Time | Depth (m) | Level | Level Code | Replicate | Temperature (°C) | рН | Salinity (ppt) | DO (mg/L) | Average DO | Turbidity (NTU) | Depth-Averaged Turbidity | SS (mg/L) | Depth-Averaged SS |
|---------|------------|-------------------|-----------|------------|------------|-----------|---------|------------|-----------|------------------|-----|----------------|-----------|------------|-----------------|-----------------------------|-----------|-------------------|
| TMCLKL | HY/2012/07 | 2018/11/02 | Mid-Flood | CS(Mf)5 | 15:29 | 12.7 | Surface | 1 | 1 | 24.9 | 8.1 | 32.0 | 7.2 | | 5.7 | | 4.4 | |
| TMCLKL | HY/2012/07 | 2018/11/02 | Mid-Flood | CS(Mf)5 | 15:29 | 12.7 | Surface | 1 | 2 | 24.6 | 8.1 | 32.5 | 7.1 | 7.0 | 5.5 | | 4.9 | |
| TMCLKL | HY/2012/07 | 2018/11/02 | Mid-Flood | CS(Mf)5 | 15:29 | 12.7 | Middle | 2 | 1 | 25.0 | 8.1 | 32.2 | 6.8 | 7.0 | 7.6 | 7.2 | 6.7 | 6.5 |
| TMCLKL | HY/2012/07 | 2018/11/02 | Mid-Flood | CS(Mf)5 | 15:29 | 12.7 | Middle | 2 | 2 | 24.7 | 8.1 | 32.7 | 6.8 | | 7.7 | 1.2 | 6.1 | 0.5 |
| TMCLKL | HY/2012/07 | 2018/11/02 | Mid-Flood | CS(Mf)5 | 15:29 | 12.7 | Bottom | 3 | 1 | 25.1 | 8.1 | 32.3 | 6.8 | 6.0 | 8.3 | | 8.2 | |
| TMCLKL | HY/2012/07 | 2018/11/02 | Mid-Flood | CS(Mf)5 | 15:29 | 12.7 | Bottom | 3 | 2 | 24.7 | 8.1 | 32.7 | 6.9 | 6.9 | 8.3 | | 8.4 | |
| TMCLKL | HY/2012/07 | 2018/11/02 | Mid-Flood | CS(Mf)3(N) | 14:28 | 7.1 | Surface | 1 | 1 | 24.6 | 8.2 | 30.3 | 7.5 | | 6.3 | | 8.5 | |
| TMCLKL | HY/2012/07 | 2018/11/02 | Mid-Flood | CS(Mf)3(N) | 14:28 | 7.1 | Surface | 1 | 2 | 24.6 | 8.2 | 31.7 | 7.4 | 7 - | 6.4 | | 8.6 | |
| TMCLKL | HY/2012/07 | 2018/11/02 | Mid-Flood | CS(Mf)3(N) | 14:28 | 7.1 | Middle | 2 | 1 | 24.6 | 8.2 | 30.3 | 7.5 | 7.5 | 6.7 | 6.0 | 11.0 | 0.0 |
| TMCLKL | HY/2012/07 | 2018/11/02 | Mid-Flood | CS(Mf)3(N) | 14:28 | 7.1 | Middle | 2 | 2 | 24.6 | 8.2 | 31.7 | 7.4 | 1 | 6.8 | 6.9 | 10.1 | 9.9 |
| TMCLKL | HY/2012/07 | 2018/11/02 | Mid-Flood | CS(Mf)3(N) | 14:28 | 7.1 | Bottom | 3 | 1 | 24.6 | 8.3 | 30.3 | 7.4 | 7.4 | 7.5 | | 10.9 | |
| TMCLKL | HY/2012/07 | 2018/11/02 | Mid-Flood | CS(Mf)3(N) | 14:28 | 7.1 | Bottom | 3 | 2 | 24.6 | 8.2 | 31.6 | 7.3 | 7.4 | 7.4 | | 10.1 | |
| TMCLKL | HY/2012/07 | 2018/11/02 | Mid-Flood | IS(Mf)16 | 15:01 | 5.7 | Surface | 1 | 1 | 24.5 | 8.2 | 30.4 | 8.3 | | 6.1 | | 7.8 | |
| TMCLKL | HY/2012/07 | 2018/11/02 | Mid-Flood | IS(Mf)16 | 15:01 | 5.7 | Surface | 1 | 2 | 24.2 | 8.1 | 30.9 | 8.3 | 0.7 | 6.3 | | 8.2 | |
| TMCLKL | HY/2012/07 | 2018/11/02 | Mid-Flood | IS(Mf)16 | 15:01 | 5.7 | Middle | 2 | 1 | | | | | 8.3 | | 6.9 | | 7 5 |
| TMCLKL | HY/2012/07 | 2018/11/02 | Mid-Flood | IS(Mf)16 | 15:01 | 5.7 | Middle | 2 | 2 | | | | | 1 | | 6.8 | | 7.5 |
| TMCLKL | HY/2012/07 | 2018/11/02 | Mid-Flood | IS(Mf)16 | 15:01 | 5.7 | Bottom | 3 | 1 | 25.0 | 8.2 | 31.6 | 7.5 | 7.6 | 7.4 | | 7.2 | |
| TMCLKL | HY/2012/07 | 2018/11/02 | Mid-Flood | IS(Mf)16 | 15:01 | 5.7 | Bottom | 3 | 2 | 24.6 | 8.1 | 32.0 | 7.6 | 7.6 | 7.3 | | 6.7 | |
| TMCLKL | HY/2012/07 | 2018/11/02 | Mid-Flood | SR4a | 14:50 | 4.4 | Surface | 1 | 1 | 24.3 | 8.2 | 30.0 | 8.2 | | 6.1 | | 13.6 | |
| TMCLKL | HY/2012/07 | 2018/11/02 | Mid-Flood | SR4a | 14:50 | 4.4 | Surface | 1 | 2 | 24.0 | 8.1 | 30.4 | 8.2 | 8.2 | 6.3 | | 15.7 | |
| TMCLKL | HY/2012/07 | 2018/11/02 | Mid-Flood | SR4a | 14:50 | 4.4 | Middle | 2 | 1 | | | | | 0.2 | | 7.1 | | 15.5 |
| TMCLKL | HY/2012/07 | 2018/11/02 | Mid-Flood | SR4a | 14:50 | 4.4 | Middle | 2 | 2 | | | | | | | 7.1 | | 15.5 |
| TMCLKL | HY/2012/07 | 2018/11/02 | Mid-Flood | SR4a | 14:50 | 4.4 | Bottom | 3 | 1 | 24.9 | 8.1 | 31.3 | 8.0 | 8.1 | 8.1 | | 16.8 | |
| TMCLKL | HY/2012/07 | 2018/11/02 | Mid-Flood | SR4a | 14:50 | 4.4 | Bottom | 3 | 2 | 24.5 | 8.1 | 31.6 | 8.1 | 0.1 | 8.0 | | 15.8 | |
| TMCLKL | HY/2012/07 | 2018/11/02 | Mid-Flood | SR4(N) | 14:46 | 4.1 | Surface | 1 | 1 | 24.3 | 8.2 | 30.2 | 8.4 | | 6.0 | | 7.7 | |
| TMCLKL | HY/2012/07 | 2018/11/02 | Mid-Flood | SR4(N) | 14:46 | 4.1 | Surface | 1 | 2 | 24.0 | 8.1 | 30.6 | 8.5 | 8.5 | 5.7 | | 7.8 | - |
| TMCLKL | HY/2012/07 | 2018/11/02 | Mid-Flood | SR4(N) | 14:46 | 4.1 | Middle | 2 | 1 | | | | | | | 6.8 | | 8.5 |
| | HY/2012/07 | 2018/11/02 | Mid-Flood | SR4(N) | 14:46 | 4.1 | Middle | 2 | 2 | | | | | | | | | |
| TMCLKL | HY/2012/07 | 2018/11/02 | Mid-Flood | SR4(N) | 14:46 | 4.1 | Bottom | 3 | 1 | 24.9 | 8.2 | 31.3 | 7.7 | 7.7 | 7.8 | | 9.5 | |
| TMCLKL | HY/2012/07 | 2018/11/02 | Mid-Flood | SR4(N) | 14:46 | 4.1 | Bottom | 3 | 2 | 24.6 | 8.1 | 31.8 | 7.7 | | 7.5 | | 9.1 | |
| TMCLKL | HY/2012/07 | 2018/11/02 | Mid-Flood | IS8 | 14:40 | 3.5 | Surface | 1 | 1 | 24.5 | 8.2 | 30.2 | 8.0 | 4 | 12.0 | | 12.2 | |
| TMCLKL | HY/2012/07 | 2018/11/02 | Mid-Flood | IS8 | 14:40 | 3.5 | Surface | 1 | 2 | 24.2 | 8.1 | 30.7 | 8.1 | 8.1 | 11.2 | | 13.8 | |
| TMCLKL | HY/2012/07 | 2018/11/02 | Mid-Flood | IS8 | 14:40 | 3.5 | Middle | 2 | 1 | | | | | | | 11.8 | | 15.4 |
| TMCLKL | HY/2012/07 | 2018/11/02 | Mid-Flood | IS8 | 14:40 | 3.5 | Middle | 2 | 2 | | | | | | | - | | 4 - |
| TMCLKL | HY/2012/07 | 2018/11/02 | Mid-Flood | IS8 | 14:40 | 3.5 | Bottom | 3 | 1 | 24.7 | 8.2 | 30.7 | 7.9 | 8.0 | 12.1 | | 17.2 | 4 |
| TMCLKL | HY/2012/07 | 2018/11/02 | Mid-Flood | IS8 | 14:40 | 3.5 | Bottom | 3 | 2 | 24.3 | 8.1 | 31.2 | 8.0 | | 12.0 | | 18.4 | |
| TMCLKL | HY/2012/07 | 2018/11/02 | Mid-Flood | IS(Mf)9 | 14:32 | 3.1 | Surface | 1 | 1 | 24.6 | 8.2 | 30.6 | 7.9 | 4 | 13.9 | | 6.3 | 4 |
| TMCLKL | HY/2012/07 | 2018/11/02 | Mid-Flood | IS(Mf)9 | 14:32 | 3.1 | Surface | 1 | 2 | 24.3 | 8.1 | 31.0 | 7.9 | 7.9 | 14.1 | | 6.2 | 4 |
| TMCLKL | HY/2012/07 | 2018/11/02 | Mid-Flood | IS(Mf)9 | 14:32 | 3.1 | Middle | 2 | 1 | | | | | 4 | | 13.7 | | 6.7 |
| TMCLKL | HY/2012/07 | 2018/11/02 | Mid-Flood | IS(Mf)9 | 14:32 | 3.1 | Middle | 2 | 2 | 24 7 | 0.0 | 20 7 | | | 12.2 | | | 4 |
| TMCLKL | HY/2012/07 | 2018/11/02 | Mid-Flood | IS(Mf)9 | 14:32 | 3.1 | Bottom | 3 | 1 | 24.7 | 8.2 | 30.7 | 7.9 | 7.9 | 13.3 | | 7.4 | 4 |
| TMCLKL | HY/2012/07 | 2018/11/02 | Mid-Flood | IS(Mf)9 | 14:32 | 3.1 | Bottom | 3 | 2 | 24.4 | 8.1 | 31.1 | 7.9 | | 13.4 | | 7.0 | |

| Project | Works | Date (yyyy-mm-dd) | Tide | Station | Start Time | Depth (m) | Level | Level Code | Replicate | Temperature (°C) | рН | Salinity (ppt) | DO (mg/L) | Average DO | Turbidity (NTU) | Depth-Averaged Turbidity | SS (mg/L) | Depth-Averaged SS |
|---------|------------|-------------------|---------|------------|------------|-----------|---------|------------|-----------|------------------|-----|----------------|-----------|-------------|-----------------|-----------------------------|-----------|-------------------|
| TMCLKL | HY/2012/07 | 2018/11/05 | Mid-Ebb | CS(Mf)5 | 10:24 | 12.8 | Surface | 1 | 1 | 24.7 | 7.9 | 32.6 | 6.7 | | 2.3 | | 7.8 | |
| TMCLKL | HY/2012/07 | 2018/11/05 | Mid-Ebb | CS(Mf)5 | 10:24 | 12.8 | Surface | 1 | 2 | 24.7 | 8.1 | 32.6 | 6.8 | 6.7 | 2.3 | | 7.1 | |
| TMCLKL | HY/2012/07 | 2018/11/05 | Mid-Ebb | CS(Mf)5 | 10:24 | 12.8 | Middle | 2 | 1 | 24.7 | 7.9 | 32.6 | 6.6 | 0.7 | 2.7 | 3.2 | 7.8 | 7.5 |
| TMCLKL | HY/2012/07 | 2018/11/05 | Mid-Ebb | CS(Mf)5 | 10:24 | 12.8 | Middle | 2 | 2 | 24.7 | 8.1 | 32.6 | 6.6 | | 2.6 | 5.2 | 7.4 | 7.5 |
| TMCLKL | HY/2012/07 | 2018/11/05 | Mid-Ebb | CS(Mf)5 | 10:24 | 12.8 | Bottom | 3 | 1 | 24.8 | 7.9 | 32.7 | 6.6 | 6.6 | 4.8 | | 7.5 | |
| TMCLKL | HY/2012/07 | 2018/11/05 | Mid-Ebb | CS(Mf)5 | 10:24 | 12.8 | Bottom | 3 | 2 | 24.8 | 8.1 | 32.7 | 6.5 | 0.0 | 4.6 | | 7.4 | |
| TMCLKL | HY/2012/07 | 2018/11/05 | Mid-Ebb | CS(Mf)3(N) | 11:34 | 7.1 | Surface | 1 | 1 | 24.0 | 8.1 | 31.6 | 7.8 | | 3.6 | | 6.3 | |
| TMCLKL | HY/2012/07 | 2018/11/05 | Mid-Ebb | CS(Mf)3(N) | 11:34 | 7.1 | Surface | 1 | 2 | 24.0 | 8.1 | 31.6 | 7.8 | 7.8 | 3.6 | | 5.2 | |
| TMCLKL | HY/2012/07 | 2018/11/05 | Mid-Ebb | CS(Mf)3(N) | 11:34 | 7.1 | Middle | 2 | 1 | 24.0 | 8.1 | 31.8 | 7.7 | 7.8 | 4.0 | 7.0 | 5.7 | 6.3 |
| TMCLKL | HY/2012/07 | 2018/11/05 | Mid-Ebb | CS(Mf)3(N) | 11:34 | 7.1 | Middle | 2 | 2 | 24.0 | 8.1 | 31.8 | 7.7 | 1 | 3.7 | 7.0 | 5.9 | 0.5 |
| TMCLKL | HY/2012/07 | 2018/11/05 | Mid-Ebb | CS(Mf)3(N) | 11:34 | 7.1 | Bottom | 3 | 1 | 23.8 | 8.1 | 32.4 | 7.3 | 7.2 | 13.5 | | 7.6 | |
| TMCLKL | HY/2012/07 | 2018/11/05 | Mid-Ebb | CS(Mf)3(N) | 11:34 | 7.1 | Bottom | 3 | 2 | 23.8 | 8.1 | 32.4 | 7.3 | 7.3 | 13.6 | | 7.0 | |
| TMCLKL | HY/2012/07 | 2018/11/05 | Mid-Ebb | IS(Mf)16 | 10:52 | 5.5 | Surface | 1 | 1 | 24.3 | 7.9 | 32.0 | 7.4 | | 2.5 | | 6.1 | |
| TMCLKL | HY/2012/07 | 2018/11/05 | Mid-Ebb | IS(Mf)16 | 10:52 | 5.5 | Surface | 1 | 2 | 24.3 | 8.1 | 32.0 | 7.4 | 7.4 | 2.2 | | 7.9 | |
| TMCLKL | HY/2012/07 | 2018/11/05 | Mid-Ebb | IS(Mf)16 | 10:52 | 5.5 | Middle | 2 | 1 | | | | | 7.4 | | 2.5 | | 7.9 |
| TMCLKL | HY/2012/07 | 2018/11/05 | Mid-Ebb | IS(Mf)16 | 10:52 | 5.5 | Middle | 2 | 2 | | | | | | | 2.5 | | 7.5 |
| TMCLKL | HY/2012/07 | 2018/11/05 | Mid-Ebb | IS(Mf)16 | 10:52 | 5.5 | Bottom | 3 | 1 | 24.3 | 7.9 | 32.0 | 7.5 | 7.5 | 2.6 | | 8.8 | |
| TMCLKL | HY/2012/07 | 2018/11/05 | Mid-Ebb | IS(Mf)16 | 10:52 | 5.5 | Bottom | 3 | 2 | 24.3 | 8.1 | 32.1 | 7.4 | 7.5 | 2.8 | | 8.7 | |
| TMCLKL | HY/2012/07 | 2018/11/05 | Mid-Ebb | SR4a | 11:03 | 5.3 | Surface | 1 | 1 | 24.4 | 7.9 | 32.2 | 7.2 | | 4.1 | | 7.3 | |
| TMCLKL | HY/2012/07 | 2018/11/05 | Mid-Ebb | SR4a | 11:03 | 5.3 | Surface | 1 | 2 | 24.4 | 8.1 | 32.1 | 7.2 | 7.2 | 3.8 | | 6.7 | |
| TMCLKL | HY/2012/07 | 2018/11/05 | Mid-Ebb | SR4a | 11:03 | 5.3 | Middle | 2 | 1 | | | | | 7.2 | | 4.4 | | 7.1 |
| TMCLKL | HY/2012/07 | 2018/11/05 | Mid-Ebb | SR4a | 11:03 | 5.3 | Middle | 2 | 2 | | | | | | | 4.4 | | 7.1 |
| TMCLKL | HY/2012/07 | 2018/11/05 | Mid-Ebb | SR4a | 11:03 | 5.3 | Bottom | 3 | 1 | 24.4 | 7.9 | 32.2 | 7.1 | 7.1 | 4.9 | | 7.3 | |
| TMCLKL | HY/2012/07 | 2018/11/05 | Mid-Ebb | SR4a | 11:03 | 5.3 | Bottom | 3 | 2 | 24.4 | 8.1 | 32.2 | 7.1 | /.1 | 4.7 | | 7.1 | |
| TMCLKL | HY/2012/07 | 2018/11/05 | Mid-Ebb | SR4(N) | 11:08 | 3.3 | Surface | 1 | 1 | 24.4 | 7.9 | 31.5 | 6.9 | | 3.9 | | 9.7 | |
| TMCLKL | HY/2012/07 | 2018/11/05 | Mid-Ebb | SR4(N) | 11:08 | 3.3 | Surface | 1 | 2 | 24.5 | 8.1 | 31.6 | 6.9 | 6.9 | 4.1 | | 10.8 | |
| TMCLKL | HY/2012/07 | 2018/11/05 | Mid-Ebb | SR4(N) | 11:08 | 3.3 | Middle | 2 | 1 | | | | | 0.5 | | 4.2 | | 10.0 |
| TMCLKL | HY/2012/07 | 2018/11/05 | Mid-Ebb | SR4(N) | 11:08 | 3.3 | Middle | 2 | 2 | | | | | | | 7.2 | | 10.0 |
| TMCLKL | HY/2012/07 | 2018/11/05 | Mid-Ebb | SR4(N) | 11:08 | 3.3 | Bottom | 3 | 1 | 24.4 | 7.9 | 31.6 | 6.9 | 6.9 | 4.6 | | 9.9 | |
| TMCLKL | HY/2012/07 | 2018/11/05 | Mid-Ebb | SR4(N) | 11:08 | 3.3 | Bottom | 3 | 2 | 24.4 | 8.1 | 31.6 | 6.9 | 0.5 | 4.1 | | 9.7 | |
| TMCLKL | HY/2012/07 | 2018/11/05 | Mid-Ebb | IS8 | 11:14 | 3.3 | Surface | 1 | 1 | 24.3 | 7.9 | 32.1 | 7.1 | | 9.9 | | 18.1 | |
| TMCLKL | HY/2012/07 | 2018/11/05 | Mid-Ebb | IS8 | 11:14 | 3.3 | Surface | 1 | 2 | 24.3 | 8.1 | 32.0 | 7.2 | 7.2 | 9.5 | | 19.5 | |
| TMCLKL | HY/2012/07 | 2018/11/05 | Mid-Ebb | IS8 | 11:14 | 3.3 | Middle | 2 | 1 | | | | | , | | 10.1 | | 17.9 |
| TMCLKL | HY/2012/07 | 2018/11/05 | Mid-Ebb | IS8 | 11:14 | 3.3 | Middle | 2 | 2 | | | | | | | | | |
| TMCLKL | HY/2012/07 | 2018/11/05 | Mid-Ebb | IS8 | 11:14 | 3.3 | Bottom | 3 | 1 | 24.3 | 7.9 | 32.2 | 7.1 | 7.1 | 10.3 | | 16.4 | |
| TMCLKL | HY/2012/07 | 2018/11/05 | Mid-Ebb | IS8 | 11:14 | 3.3 | Bottom | 3 | 2 | 24.3 | 8.1 | 32.1 | 7.1 | ,. <u>+</u> | 10.5 | | 17.6 | |
| TMCLKL | HY/2012/07 | 2018/11/05 | Mid-Ebb | IS(Mf)9 | 11:22 | 3.1 | Surface | 1 | 1 | 24.3 | 7.9 | 31.9 | 7.7 | 1 l | 2.8 | | 5.5 | |
| TMCLKL | HY/2012/07 | 2018/11/05 | Mid-Ebb | IS(Mf)9 | 11:22 | 3.1 | Surface | 1 | 2 | 24.3 | 8.1 | 31.9 | 7.7 | 7.7 | 2.7 | | 5.9 | |
| TMCLKL | HY/2012/07 | 2018/11/05 | Mid-Ebb | IS(Mf)9 | 11:22 | 3.1 | Middle | 2 | 1 | | | | | | | 2.9 | | 6.2 |
| TMCLKL | HY/2012/07 | 2018/11/05 | Mid-Ebb | IS(Mf)9 | 11:22 | 3.1 | Middle | 2 | 2 | | | | | | | 2.5 | | 0.2 |
| | HY/2012/07 | 2018/11/05 | Mid-Ebb | IS(Mf)9 | 11:22 | 3.1 | Bottom | 3 | 1 | 24.3 | 7.9 | 31.9 | 7.7 | 7.7 | 3.3 | | 6.9 | |
| TMCLKL | HY/2012/07 | 2018/11/05 | Mid-Ebb | IS(Mf)9 | 11:22 | 3.1 | Bottom | 3 | 2 | 24.3 | 8.1 | 31.9 | 7.7 | | 2.9 | | 6.4 | |

| Project | Works | Date (yyyy-mm-dd) | Tide | Station | Start Time | Depth (m) | Level | Level Code | Replicate | Temperature (°C) | рН | Salinity (ppt) | DO (mg/L) | Average DO | Turbidity (NTU) | Depth-Averaged Turbidity | SS (mg/L) | Depth-Averaged SS |
|---------|------------|-------------------|-----------|------------|------------|-----------|---------|------------|-----------|------------------|-----|----------------|-----------|------------|-----------------|-----------------------------|-----------|-------------------|
| TMCLKL | HY/2012/07 | 2018/11/05 | Mid-Flood | CS(Mf)5 | 17:17 | 12.0 | Surface | 1 | 1 | 24.6 | 8.0 | 32.4 | 7.1 | | 5.0 | | 7.4 | |
| TMCLKL | HY/2012/07 | 2018/11/05 | Mid-Flood | CS(Mf)5 | 17:17 | 12.0 | Surface | 1 | 2 | 24.6 | 8.1 | 32.4 | 7.1 | 7.1 | 4.3 | | 6.6 | |
| TMCLKL | HY/2012/07 | 2018/11/05 | Mid-Flood | CS(Mf)5 | 17:17 | 12.0 | Middle | 2 | 1 | 24.6 | 8.0 | 32.4 | 7.1 | /.1 | 8.9 | 7.3 | 8.3 | 8.9 |
| TMCLKL | HY/2012/07 | 2018/11/05 | Mid-Flood | CS(Mf)5 | 17:17 | 12.0 | Middle | 2 | 2 | 24.6 | 8.1 | 32.4 | 7.1 | 1 | 8.3 | 7.5 | 8.2 | 0.5 |
| TMCLKL | HY/2012/07 | 2018/11/05 | Mid-Flood | CS(Mf)5 | 17:17 | 12.0 | Bottom | 3 | 1 | 24.6 | 8.0 | 32.4 | 7.1 | 7 1 | 8.8 |] | 11.5 | |
| TMCLKL | HY/2012/07 | 2018/11/05 | Mid-Flood | CS(Mf)5 | 17:17 | 12.0 | Bottom | 3 | 2 | 24.6 | 8.1 | 32.4 | 7.1 | 7.1 | 8.7 | 1 | 11.4 | |
| TMCLKL | HY/2012/07 | 2018/11/05 | Mid-Flood | CS(Mf)3(N) | 16:08 | 7.0 | Surface | 1 | 1 | 24.7 | 8.1 | 30.3 | 7.8 | | 3.6 | | 10.2 | |
| TMCLKL | HY/2012/07 | 2018/11/05 | Mid-Flood | CS(Mf)3(N) | 16:08 | 7.0 | Surface | 1 | 2 | 24.7 | 8.1 | 30.3 | 7.8 | 7.0 | 3.6 | 1 | 10.8 | |
| TMCLKL | HY/2012/07 | 2018/11/05 | Mid-Flood | CS(Mf)3(N) | 16:08 | 7.0 | Middle | 2 | 1 | 24.5 | 8.1 | 30.9 | 7.8 | 7.8 | 4.1 | 4.0 | 9.2 | 10.2 |
| TMCLKL | HY/2012/07 | 2018/11/05 | Mid-Flood | CS(Mf)3(N) | 16:08 | 7.0 | Middle | 2 | 2 | 24.5 | 8.1 | 30.8 | 7.8 | | 4.2 | 4.0 | 9.9 | 10.2 |
| TMCLKL | HY/2012/07 | 2018/11/05 | Mid-Flood | CS(Mf)3(N) | 16:08 | 7.0 | Bottom | 3 | 1 | 24.4 | 8.1 | 31.1 | 7.7 | | 4.1 | | 10.6 | |
| TMCLKL | HY/2012/07 | 2018/11/05 | Mid-Flood | CS(Mf)3(N) | 16:08 | 7.0 | Bottom | 3 | 2 | 24.4 | 8.1 | 31.3 | 7.7 | 7.7 | 4.3 | | 10.3 | |
| TMCLKL | HY/2012/07 | 2018/11/05 | Mid-Flood | IS(Mf)16 | 16:48 | 5.5 | Surface | 1 | 1 | 24.4 | 7.9 | 32.2 | 7.9 | | 4.6 | | 7.1 | |
| TMCLKL | HY/2012/07 | 2018/11/05 | Mid-Flood | IS(Mf)16 | 16:48 | 5.5 | Surface | 1 | 2 | 24.4 | 8.1 | 32.2 | 7.9 | 7.0 | 4.6 | | 7.2 | |
| TMCLKL | HY/2012/07 | 2018/11/05 | Mid-Flood | IS(Mf)16 | 16:48 | 5.5 | Middle | 2 | 1 | | | | | 7.9 | | 4 7 | | 0.1 |
| TMCLKL | HY/2012/07 | 2018/11/05 | Mid-Flood | IS(Mf)16 | 16:48 | 5.5 | Middle | 2 | 2 | | | | | | | 4.7 | | 8.1 |
| TMCLKL | HY/2012/07 | 2018/11/05 | Mid-Flood | IS(Mf)16 | 16:48 | 5.5 | Bottom | 3 | 1 | 24.4 | 8.0 | 32.2 | 7.9 | 7.0 | 4.7 | | 8.8 | |
| TMCLKL | HY/2012/07 | 2018/11/05 | Mid-Flood | IS(Mf)16 | 16:48 | 5.5 | Bottom | 3 | 2 | 24.4 | 8.1 | 32.2 | 7.9 | 7.9 | 4.8 | | 9.1 | |
| TMCLKL | HY/2012/07 | 2018/11/05 | Mid-Flood | SR4a | 16:38 | 4.2 | Surface | 1 | 1 | 24.6 | 7.9 | 32.2 | 8.6 | | 5.3 | | 7.4 | |
| TMCLKL | HY/2012/07 | 2018/11/05 | Mid-Flood | SR4a | 16:38 | 4.2 | Surface | 1 | 2 | 24.6 | 8.1 | 32.2 | 8.6 | | 5.4 | 1 | 6.1 | |
| TMCLKL | HY/2012/07 | 2018/11/05 | Mid-Flood | SR4a | 16:38 | 4.2 | Middle | 2 | 1 | | | | | 8.6 | | г.э. | | 7.0 |
| TMCLKL | HY/2012/07 | 2018/11/05 | Mid-Flood | SR4a | 16:38 | 4.2 | Middle | 2 | 2 | | | | | | | 5.3 | | 7.8 |
| TMCLKL | HY/2012/07 | 2018/11/05 | Mid-Flood | SR4a | 16:38 | 4.2 | Bottom | 3 | 1 | 24.6 | 7.9 | 32.2 | 8.5 | 8.5 | 5.2 | | 8.8 | |
| TMCLKL | HY/2012/07 | 2018/11/05 | Mid-Flood | SR4a | 16:38 | 4.2 | Bottom | 3 | 2 | 24.6 | 8.1 | 32.2 | 8.5 | 0.5 | 5.1 | | 8.9 | |
| TMCLKL | HY/2012/07 | 2018/11/05 | Mid-Flood | SR4(N) | 16:35 | 3.2 | Surface | 1 | 1 | 24.7 | 7.9 | 32.2 | 8.5 | | 4.8 | | 9.8 | |
| TMCLKL | HY/2012/07 | 2018/11/05 | Mid-Flood | SR4(N) | 16:35 | 3.2 | Surface | 1 | 2 | 24.7 | 8.1 | 32.2 | 8.5 | 8.5 | 4.7 | | 9.6 | |
| TMCLKL | HY/2012/07 | 2018/11/05 | Mid-Flood | SR4(N) | 16:35 | 3.2 | Middle | 2 | 1 | | | | | 0.5 | | 4.9 | | 10.7 |
| TMCLKL | HY/2012/07 | 2018/11/05 | Mid-Flood | SR4(N) | 16:35 | 3.2 | Middle | 2 | 2 | | | | | | | 4.5 | | 10.7 |
| TMCLKL | HY/2012/07 | 2018/11/05 | Mid-Flood | SR4(N) | 16:35 | 3.2 | Bottom | 3 | 1 | 24.7 | 7.9 | 32.2 | 8.4 | 8.4 | 5.0 | | 11.6 | |
| TMCLKL | HY/2012/07 | 2018/11/05 | Mid-Flood | SR4(N) | 16:35 | 3.2 | Bottom | 3 | 2 | 24.7 | 8.1 | 32.2 | 8.4 | 0.4 | 5.0 | | 11.6 | |
| TMCLKL | HY/2012/07 | 2018/11/05 | Mid-Flood | IS8 | 16:30 | 3.5 | Surface | 1 | 1 | 24.7 | 7.9 | 32.2 | 8.5 | | 5.2 | | 8.2 | |
| TMCLKL | HY/2012/07 | 2018/11/05 | Mid-Flood | IS8 | 16:30 | 3.5 | Surface | 1 | 2 | 24.7 | 8.1 | 32.2 | 8.6 | 8.6 | 5.3 | | 8.5 | |
| TMCLKL | HY/2012/07 | 2018/11/05 | Mid-Flood | IS8 | 16:30 | 3.5 | Middle | 2 | 1 | | | | | 8.0 | | 5.2 | | 85 |
| TMCLKL | HY/2012/07 | 2018/11/05 | Mid-Flood | IS8 | 16:30 | 3.5 | Middle | 2 | 2 | | | | | | | 5.2 | | 8.5 |
| TMCLKL | HY/2012/07 | 2018/11/05 | Mid-Flood | IS8 | 16:30 | 3.5 | Bottom | 3 | 1 | 24.7 | 7.9 | 32.2 | 8.5 | 8.5 | 5.0 | | 9.0 | |
| TMCLKL | HY/2012/07 | 2018/11/05 | Mid-Flood | IS8 | 16:30 | 3.5 | Bottom | 3 | 2 | 24.7 | 8.1 | 32.2 | 8.5 | 0.5 | 5.1 | | 8.3 | |
| TMCLKL | HY/2012/07 | 2018/11/05 | Mid-Flood | IS(Mf)9 | 16:22 | 3.0 | Surface | 1 | 1 | 24.5 | 7.9 | 32.0 | 8.1 | | 6.8 | | 8.9 | |
| TMCLKL | HY/2012/07 | 2018/11/05 | Mid-Flood | IS(Mf)9 | 16:22 | 3.0 | Surface | 1 | 2 | 24.5 | 8.1 | 32.0 | 8.1 | 8.1 | 6.8 | | 8.7 |] |
| TMCLKL | HY/2012/07 | 2018/11/05 | Mid-Flood | IS(Mf)9 | 16:22 | 3.0 | Middle | 2 | 1 | | | | | 0.1 | | 6.7 | | 9.7 |
| TMCLKL | HY/2012/07 | 2018/11/05 | Mid-Flood | IS(Mf)9 | 16:22 | 3.0 | Middle | 2 | 2 | | | | | | | 0.7 | | 5.7 |
| TMCLKL | HY/2012/07 | 2018/11/05 | Mid-Flood | IS(Mf)9 | 16:22 | 3.0 | Bottom | 3 | 1 | 24.5 | 7.9 | 32.0 | 8.0 | 8.0 | 6.5 | | 11.1 |] |
| TMCLKL | HY/2012/07 | 2018/11/05 | Mid-Flood | IS(Mf)9 | 16:22 | 3.0 | Bottom | 3 | 2 | 24.5 | 8.1 | 32.0 | 8.0 | 0.0 | 6.6 | | 10.0 | |

| Project | Works | Date (yyyy-mm-dd) | Tide | Station | Start Time | Depth (m) | Level | Level Code | Replicate | Temperature (°C) | рН | Salinity (ppt) | DO (mg/L) | Average DO | Turbidity (NTU) | Depth-Averaged Turbidity | SS (mg/L) | Depth-Averaged SS |
|---------|------------|-------------------|---------|------------|------------|-----------|---------|------------|-----------|------------------|-----|----------------|-----------|------------|-----------------|-----------------------------|-----------|-------------------|
| TMCLKL | HY/2012/07 | 2018/11/07 | Mid-Ebb | CS(Mf)5 | 11:38 | 12.9 | Surface | 1 | 1 | 25.0 | 8.3 | 31.7 | 7.8 | | 7.7 | | 4.1 | |
| TMCLKL | HY/2012/07 | 2018/11/07 | Mid-Ebb | CS(Mf)5 | 11:38 | 12.9 | Surface | 1 | 2 | 25.0 | 8.3 | 31.7 | 7.8 | 7.5 | 7.8 | | 4.2 | |
| TMCLKL | HY/2012/07 | 2018/11/07 | Mid-Ebb | CS(Mf)5 | 11:38 | 12.9 | Middle | 2 | 1 | 24.8 | 8.2 | 32.1 | 7.1 | 7.5 | 8.2 | 8.9 | 6.2 | 5.9 |
| TMCLKL | HY/2012/07 | 2018/11/07 | Mid-Ebb | CS(Mf)5 | 11:38 | 12.9 | Middle | 2 | 2 | 24.8 | 8.2 | 32.1 | 7.1 |] [| 7.9 | 0.5 | 6.3 | 5.9 |
| TMCLKL | HY/2012/07 | 2018/11/07 | Mid-Ebb | CS(Mf)5 | 11:38 | 12.9 | Bottom | 3 | 1 | 24.8 | 8.2 | 32.2 | 6.9 | 6.0 | 10.7 | | 7.3 | |
| TMCLKL | HY/2012/07 | 2018/11/07 | Mid-Ebb | CS(Mf)5 | 11:38 | 12.9 | Bottom | 3 | 2 | 24.8 | 8.2 | 32.2 | 6.9 | 6.9 | 10.9 | | 7.4 | |
| TMCLKL | HY/2012/07 | 2018/11/07 | Mid-Ebb | CS(Mf)3(N) | 12:55 | 7.2 | Surface | 1 | 1 | 25.3 | 8.2 | 29.4 | 8.0 | | 8.3 | | 6.1 | |
| TMCLKL | HY/2012/07 | 2018/11/07 | Mid-Ebb | CS(Mf)3(N) | 12:55 | 7.2 | Surface | 1 | 2 | 25.3 | 8.2 | 30.6 | 7.9 | 7.7 | 8.4 | | 5.6 | |
| TMCLKL | HY/2012/07 | 2018/11/07 | Mid-Ebb | CS(Mf)3(N) | 12:55 | 7.2 | Middle | 2 | 1 | 24.8 | 8.1 | 29.9 | 7.5 | /./ | 9.7 | 0.0 | 8.0 | 7.7 |
| TMCLKL | HY/2012/07 | 2018/11/07 | Mid-Ebb | CS(Mf)3(N) | 12:55 | 7.2 | Middle | 2 | 2 | 24.8 | 8.1 | 31.1 | 7.5 | 1 | 9.8 | 9.8 | 8.3 | /./ |
| TMCLKL | HY/2012/07 | 2018/11/07 | Mid-Ebb | CS(Mf)3(N) | 12:55 | 7.2 | Bottom | 3 | 1 | 24.8 | 8.1 | 30.4 | 7.6 | 7.0 | 11.2 | | 9.0 | |
| TMCLKL | HY/2012/07 | 2018/11/07 | Mid-Ebb | CS(Mf)3(N) | 12:55 | 7.2 | Bottom | 3 | 2 | 24.8 | 8.1 | 31.6 | 7.5 | 7.6 | 11.6 | | 9.3 | |
| TMCLKL | HY/2012/07 | 2018/11/07 | Mid-Ebb | IS(Mf)16 | 12:07 | 5.8 | Surface | 1 | 1 | 24.8 | 8.3 | 31.7 | 8.2 | | 10.6 | | 8.8 | |
| TMCLKL | HY/2012/07 | 2018/11/07 | Mid-Ebb | IS(Mf)16 | 12:07 | 5.8 | Surface | 1 | 2 | 24.8 | 8.3 | 31.7 | 8.2 | 0.0 | 10.6 | | 9.2 | |
| TMCLKL | HY/2012/07 | 2018/11/07 | Mid-Ebb | IS(Mf)16 | 12:07 | 5.8 | Middle | 2 | 1 | | | | | 8.2 | | 11 1 | | 10.4 |
| TMCLKL | HY/2012/07 | 2018/11/07 | Mid-Ebb | IS(Mf)16 | 12:07 | 5.8 | Middle | 2 | 2 | | | | | 1 | | 11.1 | | 10.4 |
| TMCLKL | HY/2012/07 | 2018/11/07 | Mid-Ebb | IS(Mf)16 | 12:07 | 5.8 | Bottom | 3 | 1 | 24.7 | 8.3 | 31.7 | 8.1 | 0.1 | 11.7 | | 11.6 | |
| TMCLKL | HY/2012/07 | 2018/11/07 | Mid-Ebb | IS(Mf)16 | 12:07 | 5.8 | Bottom | 3 | 2 | 24.7 | 8.3 | 31.7 | 8.1 | 8.1 | 11.6 | | 12.1 | |
| TMCLKL | HY/2012/07 | 2018/11/07 | Mid-Ebb | SR4a | 12:16 | 5.2 | Surface | 1 | 1 | 24.7 | 8.4 | 31.7 | 8.5 | | 9.3 | | 9.4 | |
| TMCLKL | HY/2012/07 | 2018/11/07 | Mid-Ebb | SR4a | 12:16 | 5.2 | Surface | 1 | 2 | 24.8 | 8.4 | 31.7 | 8.5 | 8.5 | 9.3 | | 9.2 | |
| TMCLKL | HY/2012/07 | 2018/11/07 | Mid-Ebb | SR4a | 12:16 | 5.2 | Middle | 2 | 1 | | | | | 6.5 | | 10.0 | | 10.2 |
| TMCLKL | HY/2012/07 | 2018/11/07 | Mid-Ebb | SR4a | 12:16 | 5.2 | Middle | 2 | 2 | | | | | | | 10.0 | | 10.2 |
| TMCLKL | HY/2012/07 | 2018/11/07 | Mid-Ebb | SR4a | 12:16 | 5.2 | Bottom | 3 | 1 | 24.6 | 8.4 | 31.7 | 8.0 | 8.0 | 10.8 | | 10.8 | |
| TMCLKL | HY/2012/07 | 2018/11/07 | Mid-Ebb | SR4a | 12:16 | 5.2 | Bottom | 3 | 2 | 24.6 | 8.4 | 31.7 | 8.0 | 8.0 | 10.4 | | 11.4 | |
| TMCLKL | HY/2012/07 | 2018/11/07 | Mid-Ebb | SR4(N) | 12:21 | 4.2 | Surface | 1 | 1 | 24.8 | 8.4 | 31.6 | 8.7 | | 8.7 | | 8.0 | |
| TMCLKL | HY/2012/07 | 2018/11/07 | Mid-Ebb | SR4(N) | 12:21 | 4.2 | Surface | 1 | 2 | 24.8 | 8.4 | 31.6 | 8.7 | 8.7 | 8.8 | | 8.4 | |
| TMCLKL | HY/2012/07 | 2018/11/07 | Mid-Ebb | SR4(N) | 12:21 | 4.2 | Middle | 2 | 1 | | | | | 0.7 | | 8.5 | | 8.8 |
| TMCLKL | HY/2012/07 | 2018/11/07 | Mid-Ebb | SR4(N) | 12:21 | 4.2 | Middle | 2 | 2 | | | | | | | 0.5 | | 0.0 |
| TMCLKL | HY/2012/07 | 2018/11/07 | Mid-Ebb | SR4(N) | 12:21 | 4.2 | Bottom | 3 | 1 | 24.7 | 8.4 | 31.7 | 8.6 | 8.7 | 8.4 | | 9.2 | |
| TMCLKL | HY/2012/07 | 2018/11/07 | Mid-Ebb | SR4(N) | 12:21 | 4.2 | Bottom | 3 | 2 | 24.7 | 8.4 | 31.7 | 8.7 | 0.7 | 8.2 | | 9.5 | |
| TMCLKL | HY/2012/07 | 2018/11/07 | Mid-Ebb | IS8 | 12:27 | 4.0 | Surface | 1 | 1 | 24.9 | 8.4 | 31.7 | 8.8 | | 8.5 | | 8.0 | |
| TMCLKL | HY/2012/07 | 2018/11/07 | Mid-Ebb | IS8 | 12:27 | 4.0 | Surface | 1 | 2 | 24.9 | 8.4 | 31.7 | 8.9 | 8.9 | 8.4 | | 8.3 | |
| TMCLKL | HY/2012/07 | 2018/11/07 | Mid-Ebb | IS8 | 12:27 | 4.0 | Middle | 2 | 1 | | | | | 0.5 | | 8.7 | | 10.3 |
| TMCLKL | HY/2012/07 | 2018/11/07 | Mid-Ebb | IS8 | 12:27 | 4.0 | Middle | 2 | 2 | | | | | | | | | 10.0 |
| TMCLKL | HY/2012/07 | 2018/11/07 | Mid-Ebb | IS8 | 12:27 | 4.0 | Bottom | 3 | 1 | 24.8 | 8.4 | 31.8 | 8.7 | 8.7 | 8.8 | | 12.1 | |
| | HY/2012/07 | 2018/11/07 | Mid-Ebb | IS8 | 12:27 | 4.0 | Bottom | 3 | 2 | 24.8 | 8.4 | 31.8 | 8.7 | 0.7 | 8.9 | | 12.6 | |
| TMCLKL | HY/2012/07 | 2018/11/07 | Mid-Ebb | IS(Mf)9 | 12:36 | 3.3 | Surface | 1 | 1 | 25.0 | 8.4 | 31.8 | 9.3 | | 7.9 | | 6.8 | |
| TMCLKL | HY/2012/07 | 2018/11/07 | Mid-Ebb | IS(Mf)9 | 12:36 | 3.3 | Surface | 1 | 2 | 25.0 | 8.4 | 31.8 | 9.3 | 9.3 | 7.9 | | 6.1 | |
| TMCLKL | HY/2012/07 | 2018/11/07 | Mid-Ebb | IS(Mf)9 | 12:36 | 3.3 | Middle | 2 | 1 | | | | | | | 7.9 | | 7.4 |
| TMCLKL | HY/2012/07 | 2018/11/07 | Mid-Ebb | IS(Mf)9 | 12:36 | 3.3 | Middle | 2 | 2 | | | | | | | | | |
| TMCLKL | HY/2012/07 | 2018/11/07 | Mid-Ebb | IS(Mf)9 | 12:36 | 3.3 | Bottom | 3 | 1 | 25.0 | 8.4 | 31.8 | 9.2 | 9.3 | 7.8 | | 8.3 | |
| TMCLKL | HY/2012/07 | 2018/11/07 | Mid-Ebb | IS(Mf)9 | 12:36 | 3.3 | Bottom | 3 | 2 | 25.0 | 8.4 | 31.8 | 9.3 | 2.10 | 7.9 | | 7.8 | |

| Project | Works | Date (yyyy-mm-dd) | Tide | Station | Start Time | Depth (m) | Level | Level Code | Replicate | Temperature (°C) | рН | Salinity (ppt) | DO (mg/L) | Average DO | Turbidity (NTU) | Depth-Averaged Turbidity | SS (mg/L) | Depth-Averaged SS |
|---------|------------|-------------------|-----------|------------|------------|-----------|---------|------------|-----------|------------------|-----|----------------|-----------|------------|-----------------|-----------------------------|-----------|-------------------|
| TMCLKL | HY/2012/07 | 2018/11/07 | Mid-Flood | CS(Mf)5 | 18:11 | 12.9 | Surface | 1 | 1 | 24.9 | 8.3 | 31.6 | 7.6 | | 8.1 | | 5.3 | |
| TMCLKL | HY/2012/07 | 2018/11/07 | Mid-Flood | CS(Mf)5 | 18:11 | 12.9 | Surface | 1 | 2 | 24.9 | 8.3 | 31.6 | 7.6 | 7.6 | 8.1 | | 5.7 | |
| TMCLKL | HY/2012/07 | 2018/11/07 | Mid-Flood | CS(Mf)5 | 18:11 | 12.9 | Middle | 2 | 1 | 24.9 | 8.3 | 31.8 | 7.5 | 7.0 | 10.1 | 11.6 | 8.0 | 7.5 |
| TMCLKL | HY/2012/07 | 2018/11/07 | Mid-Flood | CS(Mf)5 | 18:11 | 12.9 | Middle | 2 | 2 | 24.9 | 8.3 | 31.7 | 7.5 | | 10.0 | 11.0 | 7.8 | 7.5 |
| TMCLKL | HY/2012/07 | 2018/11/07 | Mid-Flood | CS(Mf)5 | 18:11 | 12.9 | Bottom | 3 | 1 | 24.9 | 8.3 | 31.8 | 7.5 | 7.5 | 16.5 | | 9.3 | |
| TMCLKL | HY/2012/07 | 2018/11/07 | Mid-Flood | CS(Mf)5 | 18:11 | 12.9 | Bottom | 3 | 2 | 24.9 | 8.3 | 31.8 | 7.5 | 7.5 | 16.5 | | 9.1 | |
| TMCLKL | HY/2012/07 | 2018/11/07 | Mid-Flood | CS(Mf)3(N) | 17:09 | 7.0 | Surface | 1 | 1 | 25.4 | 8.1 | 28.2 | 7.9 | | 10.1 | | 10.4 | |
| TMCLKL | HY/2012/07 | 2018/11/07 | Mid-Flood | CS(Mf)3(N) | 17:09 | 7.0 | Surface | 1 | 2 | 25.4 | 8.0 | 29.4 | 7.8 | 7.8 | 9.5 | | 10.6 | |
| TMCLKL | HY/2012/07 | 2018/11/07 | Mid-Flood | CS(Mf)3(N) | 17:09 | 7.0 | Middle | 2 | 1 | 25.4 | 8.1 | 28.4 | 7.8 | 7.0 | 11.2 | 10.6 | 11.1 | 10.9 |
| TMCLKL | HY/2012/07 | 2018/11/07 | Mid-Flood | CS(Mf)3(N) | 17:09 | 7.0 | Middle | 2 | 2 | 25.4 | 8.0 | 29.7 | 7.8 | | 10.6 | 10.6 | 11.5 | 10.9 |
| TMCLKL | HY/2012/07 | 2018/11/07 | Mid-Flood | CS(Mf)3(N) | 17:09 | 7.0 | Bottom | 3 | 1 | 25.4 | 8.1 | 28.6 | 7.8 | 7.0 | 11.3 | | 10.5 | |
| TMCLKL | HY/2012/07 | 2018/11/07 | Mid-Flood | CS(Mf)3(N) | 17:09 | 7.0 | Bottom | 3 | 2 | 25.3 | 8.0 | 29.8 | 7.8 | 7.8 | 10.8 | | 11.1 | |
| TMCLKL | HY/2012/07 | 2018/11/07 | Mid-Flood | IS(Mf)16 | 17:43 | 5.5 | Surface | 1 | 1 | 25.0 | 8.4 | 31.4 | 8.2 | | 8.3 | | 4.6 | |
| TMCLKL | HY/2012/07 | 2018/11/07 | Mid-Flood | IS(Mf)16 | 17:43 | 5.5 | Surface | 1 | 2 | 25.0 | 8.4 | 31.4 | 8.2 | 8.2 | 8.2 | | 5.0 | |
| TMCLKL | HY/2012/07 | 2018/11/07 | Mid-Flood | IS(Mf)16 | 17:43 | 5.5 | Middle | 2 | 1 | | | | | 0.2 | | 0.5 | | 5.7 |
| TMCLKL | HY/2012/07 | 2018/11/07 | Mid-Flood | IS(Mf)16 | 17:43 | 5.5 | Middle | 2 | 2 | | | | | | | 9.5 | | 5.7 |
| TMCLKL | HY/2012/07 | 2018/11/07 | Mid-Flood | IS(Mf)16 | 17:43 | 5.5 | Bottom | 3 | 1 | 24.8 | 8.4 | 31.5 | 8.0 | 8.0 | 10.8 | 1 | 6.6 | |
| TMCLKL | HY/2012/07 | 2018/11/07 | Mid-Flood | IS(Mf)16 | 17:43 | 5.5 | Bottom | 3 | 2 | 24.8 | 8.4 | 31.5 | 8.0 | 8.0 | 10.8 | | 6.5 | |
| TMCLKL | HY/2012/07 | 2018/11/07 | Mid-Flood | SR4a | 17:34 | 5.2 | Surface | 1 | 1 | 24.8 | 8.4 | 31.6 | 9.0 | | 10.3 | | 11.2 | |
| TMCLKL | HY/2012/07 | 2018/11/07 | Mid-Flood | SR4a | 17:34 | 5.2 | Surface | 1 | 2 | 24.8 | 8.4 | 31.6 | 9.0 | 9.0 | 10.3 | | 11.0 | |
| TMCLKL | HY/2012/07 | 2018/11/07 | Mid-Flood | SR4a | 17:34 | 5.2 | Middle | 2 | 1 | | | | | 5.0 | | 10.7 | | 12.4 |
| TMCLKL | HY/2012/07 | 2018/11/07 | Mid-Flood | SR4a | 17:34 | 5.2 | Middle | 2 | 2 | | | | | | | 10.7 | | 12.4 |
| TMCLKL | HY/2012/07 | 2018/11/07 | Mid-Flood | SR4a | 17:34 | 5.2 | Bottom | 3 | 1 | 24.9 | 8.4 | 31.6 | 8.7 | 8.7 | 11.1 | | 13.7 | |
| TMCLKL | HY/2012/07 | 2018/11/07 | Mid-Flood | SR4a | 17:34 | 5.2 | Bottom | 3 | 2 | 24.9 | 8.4 | 31.6 | 8.7 | 0.7 | 11.1 | | 13.5 | |
| TMCLKL | HY/2012/07 | 2018/11/07 | Mid-Flood | SR4(N) | 17:29 | 3.7 | Surface | 1 | 1 | 24.9 | 8.4 | 31.7 | 9.1 | | 11.2 | | 9.5 | |
| TMCLKL | HY/2012/07 | 2018/11/07 | Mid-Flood | SR4(N) | 17:29 | 3.7 | Surface | 1 | 2 | 24.9 | 8.4 | 31.7 | 9.1 | 9.1 | 11.1 | | 10.0 | |
| TMCLKL | HY/2012/07 | 2018/11/07 | Mid-Flood | SR4(N) | 17:29 | 3.7 | Middle | 2 | 1 | | | | | 5.1 | | 11.7 | | 10.9 |
| TMCLKL | HY/2012/07 | 2018/11/07 | Mid-Flood | SR4(N) | 17:29 | 3.7 | Middle | 2 | 2 | | | | | | | 11.7 | | 10.5 |
| TMCLKL | HY/2012/07 | 2018/11/07 | Mid-Flood | SR4(N) | 17:29 | 3.7 | Bottom | 3 | 1 | 24.9 | 8.4 | 31.7 | 9.1 | 9.1 | 12.2 | | 11.9 | |
| TMCLKL | HY/2012/07 | 2018/11/07 | Mid-Flood | SR4(N) | 17:29 | 3.7 | Bottom | 3 | 2 | 24.9 | 8.4 | 31.7 | 9.1 | 5.1 | 12.2 | | 12.3 | |
| TMCLKL | HY/2012/07 | 2018/11/07 | Mid-Flood | IS8 | 17:23 | 3.4 | Surface | 1 | 1 | 24.9 | 8.4 | 31.7 | 9.1 | | 16.5 | | 17.3 | |
| TMCLKL | HY/2012/07 | 2018/11/07 | Mid-Flood | IS8 | 17:23 | 3.4 | Surface | 1 | 2 | 24.9 | 8.4 | 31.7 | 9.1 | 9.1 | 15.3 | | 16.9 | |
| TMCLKL | HY/2012/07 | 2018/11/07 | Mid-Flood | IS8 | 17:23 | 3.4 | Middle | 2 | 1 | | | | | 5.1 | | 16.7 | | 19.7 |
| | HY/2012/07 | 2018/11/07 | Mid-Flood | IS8 | 17:23 | 3.4 | Middle | 2 | 2 | | | | | | | 10.7 | | 10.7 |
| TMCLKL | HY/2012/07 | 2018/11/07 | Mid-Flood | IS8 | 17:23 | 3.4 | Bottom | 3 | 1 | 24.9 | 8.4 | 31.7 | 9.1 | 9.1 | 17.5 | | 21.5 | |
| TMCLKL | HY/2012/07 | 2018/11/07 | Mid-Flood | IS8 | 17:23 | 3.4 | Bottom | 3 | 2 | 24.9 | 8.4 | 31.7 | 9.1 | 5.1 | 17.5 | | 22.9 | |
| TMCLKL | HY/2012/07 | 2018/11/07 | Mid-Flood | IS(Mf)9 | 17:15 | 2.8 | Surface | 1 | 1 | | | | | 1 | | | | |
| TMCLKL | HY/2012/07 | 2018/11/07 | Mid-Flood | IS(Mf)9 | 17:15 | 2.8 | Surface | 1 | 2 | | | | | 9.0 | | | | |
| TMCLKL | HY/2012/07 | 2018/11/07 | Mid-Flood | IS(Mf)9 | 17:15 | 2.8 | Middle | 2 | 1 | 25.1 | 8.4 | 31.8 | 9.0 | 5.0 | 13.8 | 13.7 | 8.2 | 8.1 |
| TMCLKL | HY/2012/07 | 2018/11/07 | Mid-Flood | IS(Mf)9 | 17:15 | 2.8 | Middle | 2 | 2 | 25.1 | 8.4 | 31.8 | 9.0 | | 13.5 | | 7.9 | |
| | HY/2012/07 | 2018/11/07 | Mid-Flood | IS(Mf)9 | 17:15 | 2.8 | Bottom | 3 | 1 | | | | |] | | | | |
| TMCLKL | HY/2012/07 | 2018/11/07 | Mid-Flood | IS(Mf)9 | 17:15 | 2.8 | Bottom | 3 | 2 | | | | | | | | | |

| Project | Works | Date (yyyy-mm-dd) | Tide | Station | Start Time | Depth (m) | Level | Level Code | Replicate | Temperature (°C) | рН | Salinity (ppt) | DO (mg/L) | Average DO | Turbidity (NTU) | Depth-Averaged Turbidity | SS (mg/L) | Depth-Averaged SS |
|---------|------------|-------------------|---------|------------|------------|-----------|---------|------------|-----------|------------------|-----|----------------|-----------|------------|-----------------|-----------------------------|-----------|-------------------|
| TMCLKL | HY/2012/07 | 2018/11/09 | Mid-Ebb | CS(Mf)5 | 13:10 | 11.9 | Surface | 1 | 1 | 25.0 | 8.2 | 31.2 | 7.9 | | 5.8 | | 5.2 | |
| TMCLKL | HY/2012/07 | 2018/11/09 | Mid-Ebb | CS(Mf)5 | 13:10 | 11.9 | Surface | 1 | 2 | 25.0 | 8.2 | 30.3 | 7.7 | 7.4 | 5.4 | | 5.5 | |
| TMCLKL | HY/2012/07 | 2018/11/09 | Mid-Ebb | CS(Mf)5 | 13:10 | 11.9 | Middle | 2 | 1 | 24.9 | 8.2 | 31.7 | 6.9 | 7.4 | 5.7 | 5.4 | 4.1 | 4.9 |
| TMCLKL | HY/2012/07 | 2018/11/09 | Mid-Ebb | CS(Mf)5 | 13:10 | 11.9 | Middle | 2 | 2 | 24.9 | 8.2 | 30.8 | 6.9 | | 5.2 | 5.4 | 5.3 | 4.5 |
| TMCLKL | HY/2012/07 | 2018/11/09 | Mid-Ebb | CS(Mf)5 | 13:10 | 11.9 | Bottom | 3 | 1 | 24.9 | 8.2 | 31.9 | 6.9 | 6.9 | 5.4 | | 5.3 | |
| TMCLKL | HY/2012/07 | 2018/11/09 | Mid-Ebb | CS(Mf)5 | 13:10 | 11.9 | Bottom | 3 | 2 | 24.9 | 8.2 | 31.0 | 6.9 | 0.9 | 5.1 | | 4.2 | |
| TMCLKL | HY/2012/07 | 2018/11/09 | Mid-Ebb | CS(Mf)3(N) | 14:32 | 7.5 | Surface | 1 | 1 | 25.2 | 8.1 | 28.4 | 7.7 | | 11.4 | | 11.0 | |
| TMCLKL | HY/2012/07 | 2018/11/09 | Mid-Ebb | CS(Mf)3(N) | 14:32 | 7.5 | Surface | 1 | 2 | 25.1 | 8.1 | 29.6 | 7.7 | 7.6 | 11.1 | | 12.1 | |
| TMCLKL | HY/2012/07 | 2018/11/09 | Mid-Ebb | CS(Mf)3(N) | 14:32 | 7.5 | Middle | 2 | 1 | 24.9 | 8.1 | 28.9 | 7.5 | 7.0 | 20.5 | 16.9 | 12.3 | 11.7 |
| TMCLKL | HY/2012/07 | 2018/11/09 | Mid-Ebb | CS(Mf)3(N) | 14:32 | 7.5 | Middle | 2 | 2 | 24.9 | 8.1 | 30.1 | 7.4 | | 20.3 | 10.5 | 11.9 | 11.7 |
| TMCLKL | HY/2012/07 | 2018/11/09 | Mid-Ebb | CS(Mf)3(N) | 14:32 | 7.5 | Bottom | 3 | 1 | 24.9 | 8.1 | 29.0 | 7.5 | 7.5 | 18.9 | | 12.0 | |
| TMCLKL | HY/2012/07 | 2018/11/09 | Mid-Ebb | CS(Mf)3(N) | 14:32 | 7.5 | Bottom | 3 | 2 | 24.9 | 8.1 | 30.2 | 7.5 | 7.5 | 18.9 | | 10.6 | |
| TMCLKL | HY/2012/07 | 2018/11/09 | Mid-Ebb | IS(Mf)16 | 13:43 | 5.7 | Surface | 1 | 1 | 24.9 | 8.2 | 30.7 | 7.5 | | 9.8 | | 12.2 | |
| TMCLKL | HY/2012/07 | 2018/11/09 | Mid-Ebb | IS(Mf)16 | 13:43 | 5.7 | Surface | 1 | 2 | 24.9 | 8.2 | 29.8 | 7.5 | 7.5 | 9.8 | | 11.7 | |
| TMCLKL | HY/2012/07 | 2018/11/09 | Mid-Ebb | IS(Mf)16 | 13:43 | 5.7 | Middle | 2 | 1 | | | | | 7.5 | | 11.7 | | 12.9 |
| TMCLKL | HY/2012/07 | 2018/11/09 | Mid-Ebb | IS(Mf)16 | 13:43 | 5.7 | Middle | 2 | 2 | | | | | | | 11.7 | | 12.5 |
| TMCLKL | HY/2012/07 | 2018/11/09 | Mid-Ebb | IS(Mf)16 | 13:43 | 5.7 | Bottom | 3 | 1 | 24.7 | 8.2 | 31.1 | 7.5 | 7.5 | 13.8 | | 13.8 | |
| TMCLKL | HY/2012/07 | 2018/11/09 | Mid-Ebb | IS(Mf)16 | 13:43 | 5.7 | Bottom | 3 | 2 | 24.7 | 8.2 | 30.3 | 7.4 | 7.5 | 13.5 | | 13.8 | |
| TMCLKL | HY/2012/07 | 2018/11/09 | Mid-Ebb | SR4a | 13:53 | 4.5 | Surface | 1 | 1 | 25.4 | 8.2 | 30.7 | 8.5 | | 5.5 | | 4.9 | |
| TMCLKL | HY/2012/07 | 2018/11/09 | Mid-Ebb | SR4a | 13:53 | 4.5 | Surface | 1 | 2 | 25.4 | 8.3 | 29.9 | 8.3 | 8.4 | 5.0 | | 4.9 | |
| TMCLKL | HY/2012/07 | 2018/11/09 | Mid-Ebb | SR4a | 13:53 | 4.5 | Middle | 2 | 1 | | | | | 0.4 | | 5.8 | | 8.9 |
| TMCLKL | HY/2012/07 | 2018/11/09 | Mid-Ebb | SR4a | 13:53 | 4.5 | Middle | 2 | 2 | | | | | | | 5.8 | | 0.5 |
| TMCLKL | HY/2012/07 | 2018/11/09 | Mid-Ebb | SR4a | 13:53 | 4.5 | Bottom | 3 | 1 | 25.0 | 8.2 | 30.9 | 8.0 | 8.0 | 6.2 | | 12.7 | |
| TMCLKL | HY/2012/07 | 2018/11/09 | Mid-Ebb | SR4a | 13:53 | 4.5 | Bottom | 3 | 2 | 25.0 | 8.3 | 30.1 | 7.9 | 0.0 | 6.5 | | 13.1 | |
| TMCLKL | HY/2012/07 | 2018/11/09 | Mid-Ebb | SR4(N) | 13:59 | 4.2 | Surface | 1 | 1 | 25.1 | 8.2 | 30.8 | 8.5 | | 6.3 | | 7.3 | |
| TMCLKL | HY/2012/07 | 2018/11/09 | Mid-Ebb | SR4(N) | 13:59 | 4.2 | Surface | 1 | 2 | 25.1 | 8.3 | 29.9 | 8.3 | 8.4 | 6.4 | | 6.7 | |
| TMCLKL | HY/2012/07 | 2018/11/09 | Mid-Ebb | SR4(N) | 13:59 | 4.2 | Middle | 2 | 1 | | | | | 0.4 | | 6.6 | | 8.3 |
| TMCLKL | HY/2012/07 | 2018/11/09 | Mid-Ebb | SR4(N) | 13:59 | 4.2 | Middle | 2 | 2 | | | | | | | 0.0 | | 0.0 |
| | HY/2012/07 | 2018/11/09 | Mid-Ebb | SR4(N) | 13:59 | 4.2 | Bottom | 3 | 1 | 25.0 | 8.2 | 30.9 | 8.0 | 8.1 | 6.5 | | 9.6 | |
| TMCLKL | HY/2012/07 | 2018/11/09 | Mid-Ebb | SR4(N) | 13:59 | 4.2 | Bottom | 3 | 2 | 24.9 | 8.3 | 30.1 | 8.1 | 0.1 | 7.2 | | 9.7 | |
| TMCLKL | HY/2012/07 | 2018/11/09 | Mid-Ebb | IS8 | 14:05 | 3.8 | Surface | 1 | 1 | 25.1 | 8.2 | 30.9 | 8.6 | | 8.5 | | 13.7 | |
| TMCLKL | HY/2012/07 | 2018/11/09 | Mid-Ebb | IS8 | 14:05 | 3.8 | Surface | 1 | 2 | 25.1 | 8.3 | 30.1 | 8.4 | 8.5 | 8.7 | | 13.2 | |
| TMCLKL | HY/2012/07 | 2018/11/09 | Mid-Ebb | IS8 | 14:05 | 3.8 | Middle | 2 | 1 | | | | | 0.0 | | 10.4 | | 13.9 |
| TMCLKL | HY/2012/07 | 2018/11/09 | Mid-Ebb | IS8 | 14:05 | 3.8 | Middle | 2 | 2 | | | | | | | 10.1 | | 10.0 |
| TMCLKL | HY/2012/07 | 2018/11/09 | Mid-Ebb | IS8 | 14:05 | 3.8 | Bottom | 3 | 1 | 24.9 | 8.2 | 31.3 | 8.0 | 8.0 | 12.6 | | 14.8 | |
| TMCLKL | HY/2012/07 | 2018/11/09 | Mid-Ebb | IS8 | 14:05 | 3.8 | Bottom | 3 | 2 | 24.8 | 8.3 | 30.4 | 7.9 | 2.0 | 11.9 | | 14.0 | |
| TMCLKL | HY/2012/07 | 2018/11/09 | Mid-Ebb | IS(Mf)9 | 14:12 | 3.5 | Surface | 1 | 1 | 25.1 | 8.2 | 31.1 | 8.5 | | 7.3 | | 7.1 | |
| TMCLKL | HY/2012/07 | 2018/11/09 | Mid-Ebb | IS(Mf)9 | 14:12 | 3.5 | Surface | 1 | 2 | 25.1 | 8.3 | 30.2 | 8.4 | 8.5 | 8.0 | | 6.9 | |
| TMCLKL | HY/2012/07 | 2018/11/09 | Mid-Ebb | IS(Mf)9 | 14:12 | 3.5 | Middle | 2 | 1 | | | | | 0.5 | | 7.6 | | 9.2 |
| TMCLKL | HY/2012/07 | 2018/11/09 | Mid-Ebb | IS(Mf)9 | 14:12 | 3.5 | Middle | 2 | 2 | | | | | | | , | | 5.2 |
| TMCLKL | HY/2012/07 | 2018/11/09 | Mid-Ebb | IS(Mf)9 | 14:12 | 3.5 | Bottom | 3 | 1 | 25.2 | 8.2 | 31.0 | 7.8 | 7.8 | 7.2 | | 11.7 | l l |
| TMCLKL | HY/2012/07 | 2018/11/09 | Mid-Ebb | IS(Mf)9 | 14:12 | 3.5 | Bottom | 3 | 2 | 25.1 | 8.3 | 30.2 | 7.7 | 7.0 | 8.0 | | 11.2 | |

| Project | Works | Date (yyyy-mm-dd) | Tide | Station | Start Time | Depth (m) | Level | Level Code | Replicate | Temperature (°C) | рН | Salinity (ppt) | DO (mg/L) | Average DO | Turbidity (NTU) | Depth-Averaged Turbidity | SS (mg/L) | Depth-Averaged SS |
|---------|------------|-------------------|-----------|------------|------------|-----------|---------|------------|-----------|------------------|-----|----------------|-----------|------------|-----------------|-----------------------------|-----------|-------------------|
| TMCLKL | HY/2012/07 | 2018/11/09 | Mid-Flood | CS(Mf)5 | 19:10 | 12.2 | Surface | 1 | 1 | 25.1 | 8.2 | 30.4 | 6.8 | | 5.1 | | 4.9 | |
| TMCLKL | HY/2012/07 | 2018/11/09 | Mid-Flood | CS(Mf)5 | 19:10 | 12.2 | Surface | 1 | 2 | 25.1 | 8.1 | 30.4 | 6.8 | 6.7 | 4.3 | | 5.0 | |
| TMCLKL | HY/2012/07 | 2018/11/09 | Mid-Flood | CS(Mf)5 | 19:10 | 12.2 | Middle | 2 | 1 | 25.0 | 8.2 | 30.7 | 6.6 | 0.7 | 8.4 | 10.2 | 6.4 | 5.7 |
| TMCLKL | HY/2012/07 | 2018/11/09 | Mid-Flood | CS(Mf)5 | 19:10 | 12.2 | Middle | 2 | 2 | 25.0 | 8.1 | 30.7 | 6.6 | | 7.6 | 10.2 | 5.9 | 5.7 |
| TMCLKL | HY/2012/07 | 2018/11/09 | Mid-Flood | CS(Mf)5 | 19:10 | 12.2 | Bottom | 3 | 1 | 25.0 | 8.2 | 30.8 | 6.7 | 6.7 | 18.3 | | 6.2 | |
| TMCLKL | HY/2012/07 | 2018/11/09 | Mid-Flood | CS(Mf)5 | 19:10 | 12.2 | Bottom | 3 | 2 | 25.0 | 8.1 | 30.8 | 6.6 | 0.7 | 17.2 | | 5.9 | |
| TMCLKL | HY/2012/07 | 2018/11/09 | Mid-Flood | CS(Mf)3(N) | 18:03 | 7.3 | Surface | 1 | 1 | 25.2 | 8.1 | 28.2 | 7.6 | | 9.4 | | 6.1 | |
| TMCLKL | HY/2012/07 | 2018/11/09 | Mid-Flood | CS(Mf)3(N) | 18:03 | 7.3 | Surface | 1 | 2 | 25.2 | 8.0 | 29.4 | 7.5 | 7.5 | 9.3 | | 6.5 | |
| TMCLKL | HY/2012/07 | 2018/11/09 | Mid-Flood | CS(Mf)3(N) | 18:03 | 7.3 | Middle | 2 | 1 | 25.1 | 8.1 | 28.5 | 7.4 | 7.5 | 10.6 | 10.4 | 6.8 | 7.2 |
| TMCLKL | HY/2012/07 | 2018/11/09 | Mid-Flood | CS(Mf)3(N) | 18:03 | 7.3 | Middle | 2 | 2 | 25.2 | 8.0 | 29.5 | 7.4 | | 10.4 | 10.4 | 7.7 | 7.2 |
| TMCLKL | HY/2012/07 | 2018/11/09 | Mid-Flood | CS(Mf)3(N) | 18:03 | 7.3 | Bottom | 3 | 1 | 25.0 | 8.0 | 28.8 | 7.4 | 7.4 | 11.4 | | 8.0 | |
| TMCLKL | HY/2012/07 | 2018/11/09 | Mid-Flood | CS(Mf)3(N) | 18:03 | 7.3 | Bottom | 3 | 2 | 25.0 | 8.0 | 30.0 | 7.4 | 7.4 | 11.3 | | 7.9 | |
| TMCLKL | HY/2012/07 | 2018/11/09 | Mid-Flood | IS(Mf)16 | 18:41 | 5.5 | Surface | 1 | 1 | 24.8 | 8.2 | 30.0 | 6.9 | | 11.5 | | 16.1 | |
| TMCLKL | HY/2012/07 | 2018/11/09 | Mid-Flood | IS(Mf)16 | 18:41 | 5.5 | Surface | 1 | 2 | 24.8 | 8.2 | 30.0 | 6.9 | 6.9 | 10.9 | | 16.4 | |
| TMCLKL | HY/2012/07 | 2018/11/09 | Mid-Flood | IS(Mf)16 | 18:41 | 5.5 | Middle | 2 | 1 | | | | | 0.5 | | 11.4 | | 16.1 |
| TMCLKL | HY/2012/07 | 2018/11/09 | Mid-Flood | IS(Mf)16 | 18:41 | 5.5 | Middle | 2 | 2 | | | | | | | 11.7 | | 10.1 |
| TMCLKL | HY/2012/07 | 2018/11/09 | Mid-Flood | IS(Mf)16 | 18:41 | 5.5 | Bottom | 3 | 1 | 24.8 | 8.2 | 30.0 | 6.8 | 6.8 | 11.7 | | 15.4 | |
| TMCLKL | HY/2012/07 | 2018/11/09 | Mid-Flood | IS(Mf)16 | 18:41 | 5.5 | Bottom | 3 | 2 | 24.8 | 8.2 | 30.0 | 6.8 | 0.0 | 11.3 | | 16.5 | |
| TMCLKL | HY/2012/07 | 2018/11/09 | Mid-Flood | SR4a | 18:30 | 4.3 | Surface | 1 | 1 | 25.0 | 8.3 | 29.9 | 7.6 | | 8.9 | | 10.2 | |
| TMCLKL | HY/2012/07 | 2018/11/09 | Mid-Flood | SR4a | 18:30 | 4.3 | Surface | 1 | 2 | 25.0 | 8.2 | 29.9 | 7.6 | 7.6 | 8.5 | | 9.4 | |
| TMCLKL | HY/2012/07 | 2018/11/09 | Mid-Flood | SR4a | 18:30 | 4.3 | Middle | 2 | 1 | | | | | 7.0 | | 8.2 | | 9.5 |
| TMCLKL | HY/2012/07 | 2018/11/09 | Mid-Flood | SR4a | 18:30 | 4.3 | Middle | 2 | 2 | | | | | | | 0.2 | | 5.5 |
| TMCLKL | HY/2012/07 | 2018/11/09 | Mid-Flood | SR4a | 18:30 | 4.3 | Bottom | 3 | 1 | 25.0 | 8.3 | 30.0 | 7.5 | 7.5 | 7.8 | | 9.1 | |
| TMCLKL | HY/2012/07 | 2018/11/09 | Mid-Flood | SR4a | 18:30 | 4.3 | Bottom | 3 | 2 | 25.0 | 8.2 | 30.0 | 7.5 | , | 7.4 | | 9.1 | |
| TMCLKL | HY/2012/07 | 2018/11/09 | Mid-Flood | SR4(N) | 18:26 | 4.0 | Surface | 1 | 1 | 25.0 | 8.3 | 30.0 | 7.6 | | 8.1 | | 7.5 | |
| TMCLKL | HY/2012/07 | 2018/11/09 | Mid-Flood | SR4(N) | 18:26 | 4.0 | Surface | 1 | 2 | 25.0 | 8.2 | 30.0 | 7.6 | 7.6 | 7.3 | | 6.4 | |
| TMCLKL | HY/2012/07 | 2018/11/09 | Mid-Flood | SR4(N) | 18:26 | 4.0 | Middle | 2 | 1 | | | | | | | 7.6 | | 7.4 |
| TMCLKL | HY/2012/07 | 2018/11/09 | Mid-Flood | SR4(N) | 18:26 | 4.0 | Middle | 2 | 2 | | | | | | | | | |
| | HY/2012/07 | 2018/11/09 | Mid-Flood | SR4(N) | 18:26 | 4.0 | Bottom | 3 | 1 | 25.0 | 8.3 | 30.0 | 7.6 | 7.6 | 7.8 | | 8.4 | |
| | HY/2012/07 | 2018/11/09 | Mid-Flood | SR4(N) | 18:26 | 4.0 | Bottom | 3 | 2 | 25.0 | 8.2 | 30.0 | 7.6 | | 7.3 | | 7.3 | |
| TMCLKL | HY/2012/07 | 2018/11/09 | Mid-Flood | IS8 | 18:21 | 3.7 | Surface | 1 | 1 | 25.0 | 8.3 | 30.0 | 7.7 | 4 | 9.2 | | 10.2 | |
| | HY/2012/07 | 2018/11/09 | Mid-Flood | IS8 | 18:21 | 3.7 | Surface | 1 | 2 | 25.0 | 8.2 | 30.0 | 7.7 | 7.7 | 8.6 | | 10.3 | |
| TMCLKL | HY/2012/07 | 2018/11/09 | Mid-Flood | IS8 | 18:21 | 3.7 | Middle | 2 | 1 | | | | | 4 | | 9.0 | | 9.8 |
| TMCLKL | HY/2012/07 | 2018/11/09 | Mid-Flood | IS8 | 18:21 | 3.7 | Middle | 2 | 2 | | | | | | | | | |
| TMCLKL | HY/2012/07 | 2018/11/09 | Mid-Flood | IS8 | 18:21 | 3.7 | Bottom | 3 | 1 | 25.0 | 8.3 | 30.0 | 7.7 | 7.7 | 9.2 | | 9.3 | |
| TMCLKL | HY/2012/07 | 2018/11/09 | Mid-Flood | IS8 | 18:21 | 3.7 | Bottom | 3 | 2 | 25.0 | 8.2 | 30.0 | 7.7 | | 8.8 | | 9.2 | |
| TMCLKL | HY/2012/07 | 2018/11/09 | Mid-Flood | IS(Mf)9 | 18:13 | 3.2 | Surface | 1 | 1 | 25.0 | 8.3 | 30.3 | 7.5 | 4 | 15.3 | | 11.7 | |
| TMCLKL | HY/2012/07 | 2018/11/09 | Mid-Flood | IS(Mf)9 | 18:13 | 3.2 | Surface | 1 | 2 | 25.0 | 8.2 | 30.3 | 7.4 | 7.5 | 14.9 | | 11.6 | |
| TMCLKL | HY/2012/07 | 2018/11/09 | Mid-Flood | IS(Mf)9 | 18:13 | 3.2 | Middle | 2 | 1 | | | | | | | 13.5 | | 11.5 |
| TMCLKL | HY/2012/07 | 2018/11/09 | Mid-Flood | IS(Mf)9 | 18:13 | 3.2 | Middle | 2 | 2 | | | | | | | 20.0 | | |
| TMCLKL | HY/2012/07 | 2018/11/09 | Mid-Flood | IS(Mf)9 | 18:13 | 3.2 | Bottom | 3 | 1 | 25.1 | 8.3 | 30.2 | 7.6 | 7.6 | 11.9 | | 11.2 | |
| TMCLKL | HY/2012/07 | 2018/11/09 | Mid-Flood | IS(Mf)9 | 18:13 | 3.2 | Bottom | 3 | 2 | 25.1 | 8.2 | 30.2 | 7.6 | , | 11.9 | | 11.3 | |

| Project | Works | Date (yyyy-mm-dd) | Tide | Station | Start Time | Depth (m) | Level | Level Code | Replicate | Temperature (°C) | рН | Salinity (ppt) | DO (mg/L) | Average DO | Turbidity (NTU) | Depth-Averaged Turbidity | SS (mg/L) | Depth-Averaged SS |
|---------|------------|-------------------|---------|------------|------------|-----------|---------|------------|-----------|------------------|-----|----------------|-----------|------------|-----------------|-----------------------------|-----------|-------------------|
| TMCLKL | HY/2012/07 | 2018/11/12 | Mid-Ebb | CS(Mf)5 | 2:58 | 11.8 | Surface | 1 | 1 | 24.8 | 8.2 | 30.7 | 6.7 | | 8.6 | | 9.0 | |
| TMCLKL | HY/2012/07 | 2018/11/12 | Mid-Ebb | CS(Mf)5 | 2:58 | 11.8 | Surface | 1 | 2 | 24.8 | 8.2 | 31.0 | 6.6 | 6.6 | 9.6 | | 10.8 | |
| TMCLKL | HY/2012/07 | 2018/11/12 | Mid-Ebb | CS(Mf)5 | 2:58 | 11.8 | Middle | 2 | 1 | 24.8 | 8.2 | 30.7 | 6.6 | 0.0 | 14.8 | 13.1 | 9.7 | 10.9 |
| TMCLKL | HY/2012/07 | 2018/11/12 | Mid-Ebb | CS(Mf)5 | 2:58 | 11.8 | Middle | 2 | 2 | 24.8 | 8.2 | 31.0 | 6.6 |] [| 14.2 | 15.1 | 10.2 | 10.9 |
| TMCLKL | HY/2012/07 | 2018/11/12 | Mid-Ebb | CS(Mf)5 | 2:58 | 11.8 | Bottom | 3 | 1 | 24.8 | 8.2 | 30.7 | 6.6 | 6.6 | 16.1 | | 12.8 | |
| TMCLKL | HY/2012/07 | 2018/11/12 | Mid-Ebb | CS(Mf)5 | 2:58 | 11.8 | Bottom | 3 | 2 | 24.8 | 8.2 | 31.0 | 6.6 | 0.0 | 15.3 | | 12.7 | |
| TMCLKL | HY/2012/07 | 2018/11/12 | Mid-Ebb | CS(Mf)3(N) | 3:42 | 7.2 | Surface | 1 | 1 | 24.7 | 8.2 | 28.8 | 6.3 | | 7.5 | | 5.7 | |
| TMCLKL | HY/2012/07 | 2018/11/12 | Mid-Ebb | CS(Mf)3(N) | 3:42 | 7.2 | Surface | 1 | 2 | 24.7 | 8.2 | 28.7 | 6.3 | 6.3 | 7.1 | | 5.5 | |
| TMCLKL | HY/2012/07 | 2018/11/12 | Mid-Ebb | CS(Mf)3(N) | 3:42 | 7.2 | Middle | 2 | 1 | 24.8 | 8.2 | 29.6 | 6.2 | 0.5 | 10.9 | 9.3 | 6.1 | 5.9 |
| TMCLKL | HY/2012/07 | 2018/11/12 | Mid-Ebb | CS(Mf)3(N) | 3:42 | 7.2 | Middle | 2 | 2 | 24.8 | 8.2 | 29.7 | 6.2 | | 11.0 | 5.5 | 5.4 | 5.5 |
| TMCLKL | HY/2012/07 | 2018/11/12 | Mid-Ebb | CS(Mf)3(N) | 3:42 | 7.2 | Bottom | 3 | 1 | 24.7 | 8.2 | 29.1 | 6.2 | 6.2 | 9.6 | | 6.5 | |
| TMCLKL | HY/2012/07 | 2018/11/12 | Mid-Ebb | CS(Mf)3(N) | 3:42 | 7.2 | Bottom | 3 | 2 | 24.7 | 8.2 | 29.1 | 6.2 | 0.2 | 9.9 | | 6.2 | |
| TMCLKL | HY/2012/07 | 2018/11/12 | Mid-Ebb | IS(Mf)16 | 3:28 | 5.9 | Surface | 1 | 1 | 24.8 | 8.3 | 30.6 | 7.2 | | 8.2 | | 11.1 | |
| TMCLKL | HY/2012/07 | 2018/11/12 | Mid-Ebb | IS(Mf)16 | 3:28 | 5.9 | Surface | 1 | 2 | 24.8 | 8.2 | 30.9 | 7.2 | 7.2 | 9.1 | | 10.7 | |
| TMCLKL | HY/2012/07 | 2018/11/12 | Mid-Ebb | IS(Mf)16 | 3:28 | 5.9 | Middle | 2 | 1 | | | | | 7.2 | | 8.9 | | 12.1 |
| TMCLKL | HY/2012/07 | 2018/11/12 | Mid-Ebb | IS(Mf)16 | 3:28 | 5.9 | Middle | 2 | 2 | | | | | | | 0.5 | | 12.1 |
| TMCLKL | HY/2012/07 | 2018/11/12 | Mid-Ebb | IS(Mf)16 | 3:28 | 5.9 | Bottom | 3 | 1 | 24.8 | 8.3 | 30.7 | 7.2 | 7.2 | 8.6 | | 13.1 | |
| TMCLKL | HY/2012/07 | 2018/11/12 | Mid-Ebb | IS(Mf)16 | 3:28 | 5.9 | Bottom | 3 | 2 | 24.8 | 8.2 | 30.9 | 7.1 | 7.2 | 9.6 | | 13.3 | |
| TMCLKL | HY/2012/07 | 2018/11/12 | Mid-Ebb | SR4a | 3:37 | 4.4 | Surface | 1 | 1 | 24.6 | 8.3 | 30.5 | 7.0 | | 6.9 | | 15.2 | |
| TMCLKL | HY/2012/07 | 2018/11/12 | Mid-Ebb | SR4a | 3:37 | 4.4 | Surface | 1 | 2 | 24.7 | 8.2 | 30.7 | 6.9 | 7.0 | 7.5 | | 14.0 | |
| TMCLKL | HY/2012/07 | 2018/11/12 | Mid-Ebb | SR4a | 3:37 | 4.4 | Middle | 2 | 1 | | | | | 7.0 | | 7.2 | | 15.2 |
| TMCLKL | HY/2012/07 | 2018/11/12 | Mid-Ebb | SR4a | 3:37 | 4.4 | Middle | 2 | 2 | | | | | | | 7.2 | | 13.2 |
| TMCLKL | HY/2012/07 | 2018/11/12 | Mid-Ebb | SR4a | 3:37 | 4.4 | Bottom | 3 | 1 | 24.6 | 8.3 | 30.5 | 6.9 | 6.9 | 6.9 | | 15.1 | |
| TMCLKL | HY/2012/07 | 2018/11/12 | Mid-Ebb | SR4a | 3:37 | 4.4 | Bottom | 3 | 2 | 24.6 | 8.2 | 30.8 | 6.9 | 0.5 | 7.4 | | 16.4 | |
| TMCLKL | HY/2012/07 | 2018/11/12 | Mid-Ebb | SR4(N) | 3:43 | 4.1 | Surface | 1 | 1 | 24.7 | 8.3 | 30.3 | 6.9 | | 7.0 | | 7.9 | |
| TMCLKL | HY/2012/07 | 2018/11/12 | Mid-Ebb | SR4(N) | 3:43 | 4.1 | Surface | 1 | 2 | 24.7 | 8.2 | 30.5 | 6.9 | 6.9 | 7.2 | | 8.0 | |
| TMCLKL | HY/2012/07 | 2018/11/12 | Mid-Ebb | SR4(N) | 3:43 | 4.1 | Middle | 2 | 1 | | | | | 0.5 | | 7.0 | | 7.7 |
| TMCLKL | HY/2012/07 | 2018/11/12 | Mid-Ebb | SR4(N) | 3:43 | 4.1 | Middle | 2 | 2 | | | | | | | | | |
| | HY/2012/07 | 2018/11/12 | Mid-Ebb | SR4(N) | 3:43 | 4.1 | Bottom | 3 | 1 | 24.7 | 8.3 | 30.3 | 6.9 | 6.9 | 6.9 | | 7.0 | |
| TMCLKL | HY/2012/07 | 2018/11/12 | Mid-Ebb | SR4(N) | 3:43 | 4.1 | Bottom | 3 | 2 | 24.7 | 8.2 | 30.5 | 6.9 | 0.0 | 7.0 | | 7.7 | |
| TMCLKL | HY/2012/07 | 2018/11/12 | Mid-Ebb | IS8 | 3:48 | 3.7 | Surface | 1 | 1 | 24.6 | 8.3 | 30.6 | 7.3 | | 5.7 | | 11.6 | |
| TMCLKL | HY/2012/07 | 2018/11/12 | Mid-Ebb | IS8 | 3:48 | 3.7 | Surface | 1 | 2 | 24.6 | 8.2 | 30.9 | 7.2 | 7.3 | 6.0 | | 12.5 | |
| TMCLKL | HY/2012/07 | 2018/11/12 | Mid-Ebb | IS8 | 3:48 | 3.7 | Middle | 2 | 1 | | | | | | | 6.0 | | 12.2 |
| TMCLKL | HY/2012/07 | 2018/11/12 | Mid-Ebb | IS8 | 3:48 | 3.7 | Middle | 2 | 2 | | | | | | | | | |
| TMCLKL | HY/2012/07 | 2018/11/12 | Mid-Ebb | IS8 | 3:48 | 3.7 | Bottom | 3 | 1 | 24.6 | 8.3 | 30.6 | 7.3 | 7.3 | 6.0 | | 12.1 | |
| TMCLKL | HY/2012/07 | 2018/11/12 | Mid-Ebb | IS8 | 3:48 | 3.7 | Bottom | 3 | 2 | 24.7 | 8.2 | 30.9 | 7.2 | | 6.2 | | 12.4 | |
| TMCLKL | HY/2012/07 | 2018/11/12 | Mid-Ebb | IS(Mf)9 | 3:56 | 3.4 | Surface | 1 | 1 | 24.7 | 8.3 | 30.6 | 6.9 | | 6.3 | | 7.7 | |
| TMCLKL | HY/2012/07 | 2018/11/12 | Mid-Ebb | IS(Mf)9 | 3:56 | 3.4 | Surface | 1 | 2 | 24.7 | 8.2 | 30.8 | 6.9 | 6.9 | 6.4 | | 7.2 | |
| TMCLKL | HY/2012/07 | 2018/11/12 | Mid-Ebb | IS(Mf)9 | 3:56 | 3.4 | Middle | 2 | 1 | | | | | 0.5 | | 6.7 | | 8.8 |
| TMCLKL | HY/2012/07 | 2018/11/12 | Mid-Ebb | IS(Mf)9 | 3:56 | 3.4 | Middle | 2 | 2 | | | | | | | 0.7 | | |
| TMCLKL | HY/2012/07 | 2018/11/12 | Mid-Ebb | IS(Mf)9 | 3:56 | 3.4 | Bottom | 3 | 1 | 24.7 | 8.3 | 30.7 | 6.9 | 6.9 | 6.9 | | 9.6 |] |
| TMCLKL | HY/2012/07 | 2018/11/12 | Mid-Ebb | IS(Mf)9 | 3:56 | 3.4 | Bottom | 3 | 2 | 24.8 | 8.2 | 31.0 | 6.8 | 0.5 | 7.1 | | 10.6 | |

| Project | Works | Date (yyyy-mm-dd) | Tide | Station | Start Time | Depth (m) | Level | Level Code | Replicate | Temperature (°C) | рН | Salinity (ppt) | DO (mg/L) | Average DO | Turbidity (NTU) | Depth-Averaged Turbidity | SS (mg/L) | Depth-Averaged SS |
|------------------|--------------------------|--------------------------|------------------------|------------------|--------------|-----------|-------------------|------------|-----------|------------------|------------|----------------|------------|------------|-----------------|-----------------------------|--------------|-------------------|
| TMCLKL | HY/2012/07 | 2018/11/12 | Mid-Flood | CS(Mf)5 | 10:36 | 11.5 | Surface | 1 | 1 | 24.9 | 8.2 | 30.8 | 6.6 | | 11.4 | | 7.4 | |
| TMCLKL | HY/2012/07 | 2018/11/12 | Mid-Flood | CS(Mf)5 | 10:36 | 11.5 | Surface | 1 | 2 | 24.9 | 8.3 | 30.6 | 6.7 | 6.6 | 11.1 | | 8.7 | |
| TMCLKL | HY/2012/07 | 2018/11/12 | Mid-Flood | CS(Mf)5 | 10:36 | 11.5 | Middle | 2 | 1 | 24.8 | 8.2 | 30.8 | 6.6 | 0.0 | 13.7 | 14.2 | 6.3 | 6.7 |
| TMCLKL | HY/2012/07 | 2018/11/12 | Mid-Flood | CS(Mf)5 | 10:36 | 11.5 | Middle | 2 | 2 | 24.8 | 8.3 | 30.6 | 6.6 | | 13.9 | 17.2 | 6.0 | 0.7 |
| TMCLKL | HY/2012/07 | 2018/11/12 | Mid-Flood | CS(Mf)5 | 10:36 | 11.5 | Bottom | 3 | 1 | 24.8 | 8.2 | 30.8 | 6.6 | 6.6 | 17.4 | | 5.8 | |
| TMCLKL | HY/2012/07 | 2018/11/12 | Mid-Flood | CS(Mf)5 | 10:36 | 11.5 | Bottom | 3 | 2 | 24.8 | 8.3 | 30.6 | 6.6 | 0.0 | 17.7 | | 5.8 | |
| TMCLKL | HY/2012/07 | 2018/11/12 | Mid-Flood | CS(Mf)3(N) | 9:20 | 6.8 | Surface | 1 | 1 | 24.9 | 8.1 | 26.2 | 6.1 | | 6.9 | | 8.3 | |
| TMCLKL | HY/2012/07 | 2018/11/12 | Mid-Flood | CS(Mf)3(N) | 9:20 | 6.8 | Surface | 1 | 2 | 24.9 | 8.1 | 26.1 | 6.1 | 6.1 | 6.8 | | 9.5 | |
| TMCLKL | HY/2012/07 | 2018/11/12 | Mid-Flood | CS(Mf)3(N) | 9:20 | 6.8 | Middle | 2 | 1 | 24.9 | 8.1 | 26.3 | 6.1 | | 8.1 | 7.7 | 10.2 | 9.3 |
| TMCLKL | HY/2012/07 | 2018/11/12 | Mid-Flood | CS(Mf)3(N) | 9:20 | 6.8 | Middle | 2 | 2 | 24.9 | 8.1 | 26.3 | 6.1 | | 8.0 | | 9.4 | |
| TMCLKL | HY/2012/07 | 2018/11/12 | Mid-Flood | CS(Mf)3(N) | 9:20 | 6.8 | Bottom | 3 | 1 | 24.9 | 8.1 | 26.4 | 6.1 | 6.1 | 8.2 | | 9.1 | |
| TMCLKL | HY/2012/07 | 2018/11/12 | Mid-Flood | CS(Mf)3(N) | 9:20 | 6.8 | Bottom | 3 | 2 | 24.9 | 8.1 | 26.4 | 6.1 | | 8.3 | | 9.2 | |
| TMCLKL | HY/2012/07 | 2018/11/12 | Mid-Flood | IS(Mf)16 | 10:08 | 5.6 | Surface | 1 | 1 | 24.8 | 8.2 | 30.1 | 6.9 | | 6.2 | | 12.4 | |
| TMCLKL | HY/2012/07 | 2018/11/12 | Mid-Flood | IS(Mf)16 | 10:08 | 5.6 | Surface | 1 | 2 | 24.8 | 8.3 | 29.9 | 6.9 | 6.9 | 6.6 | | 13.5 | |
| TMCLKL | HY/2012/07 | 2018/11/12 | Mid-Flood | IS(Mf)16 | 10:08 | 5.6 | Middle | 2 | 1 | | | | | - | | 8.0 | | 13.4 |
| TMCLKL | HY/2012/07 | 2018/11/12 | Mid-Flood | IS(Mf)16 | 10:08 | 5.6 | Middle | 2 | 2 | | | | | | | | | - |
| TMCLKL | HY/2012/07 | 2018/11/12 | Mid-Flood | IS(Mf)16 | 10:08 | 5.6 | Bottom | 3 | 1 | 24.7 | 8.2 | 30.6 | 6.7 | 6.8 | 9.3 | | 13.6 | - |
| TMCLKL | HY/2012/07 | 2018/11/12 | Mid-Flood | IS(Mf)16 | 10:08 | 5.6 | Bottom | 3 | 2 | 24.7 | 8.3 | 30.3 | 6.8 | | 9.9 | | 13.9 | |
| TMCLKL | HY/2012/07 | 2018/11/12 | Mid-Flood | SR4a | 9:56 | 4.1 | Surface | 1 | 1 | 24.7 | 8.3 | 30.7 | 6.7 | - | 11.8 | | 15.8 | - |
| TMCLKL | HY/2012/07 | 2018/11/12 | Mid-Flood | SR4a | 9:56 | 4.1 | Surface | 1 | 2 | 24.7 | 8.3 | 30.5 | 6.7 | 6.7 | 11.8 | | 14.8 | |
| TMCLKL | HY/2012/07 | 2018/11/12 | Mid-Flood | SR4a | 9:56 | 4.1 | Middle | 2 | 1 | | | | | - | | 12.0 | | 15.5 |
| TMCLKL | HY/2012/07 | 2018/11/12 | Mid-Flood | SR4a | 9:56 | 4.1 | Middle | 2 | 2 | 24.7 | 0.2 | 30.7 | 67 | | 12.0 | | 15.2 | |
| TMCLKL | HY/2012/07 | 2018/11/12 2018/11/12 | Mid-Flood Mid-Flood | SR4a SR4a | 9:56 9:56 | 4.1 | Bottom | 3 | 2 | 24.7 | 8.2 8.3 | 30.7 | 6.7 6.8 | 6.8 | 12.0 12.4 | | 15.2 16.3 | - |
| TMCLKL TMCLKL | HY/2012/07 HY/2012/07 | 2018/11/12 | Mid-Flood | | 9:52 | 3.7 | Bottom Surface | 1 | 2 1 | 24.7 | 8.2 | 30.8 | 6.8 | | 12.4 | | 16.4 | |
| TMCLKL | HY/2012/07 | 2018/11/12 | Mid-Flood | SR4(N) SR4(N) | 9:52 | 3.7 | Surface | 1 | 2 | 24.6 | 8.3 | 30.5 | 6.9 | - | 13.2 | | 15.6 | - |
| TMCLKL | HY/2012/07 | 2018/11/12 | Mid-Flood | SR4(N) | 9:52 | 3.7 | Middle | 2 | 1 | 24.0 | 0.5 | 50.5 | 0.9 | 6.9 | 13.2 | | 15.0 | |
| TMCLKL | HY/2012/07 | 2018/11/12 | Mid-Flood | SR4(N) | 9:52 | 3.7 | Middle | 2 | 2 | | | | | - | | 14.6 | | 15.7 |
| | HY/2012/07 | 2018/11/12 | Mid-Flood | SR4(N) | 9:52 | 3.7 | Bottom | 3 | 1 | 24.6 | 8.2 | 30.8 | 6.8 | | 16.1 | | 15.0 | |
| TMCLKL | HY/2012/07 | 2018/11/12 | Mid-Flood | SR4(N) | 9:52 | 3.7 | Bottom | 3 | 2 | 24.6 | 8.3 | 30.5 | 6.9 | 6.9 | 16.3 | | 15.9 | - |
| TMCLKL | HY/2012/07 | 2018/11/12 | Mid-Flood | IS8 | 9:46 | 3.4 | Surface | 1 | 1 | 24.6 | 8.2 | 30.8 | 6.9 | | 11.3 | | 15.9 | |
| TMCLKL | HY/2012/07 | 2018/11/12 | Mid-Flood | IS8 | 9:46 | 3.4 | Surface | 1 | 2 | 24.6 | 8.3 | 30.5 | 7.0 | 1 | 12.0 | | 16.0 | - |
| TMCLKL | HY/2012/07 | 2018/11/12 | Mid-Flood | IS8 | 9:46 | 3.4 | Middle | 2 | 1 | • | | | | 7.0 | | | | |
| TMCLKL | HY/2012/07 | 2018/11/12 | Mid-Flood | IS8 | 9:46 | 3.4 | Middle | 2 | 2 | | | | | 1 | | 11.8 | | 19.2 |
| TMCLKL | HY/2012/07 | 2018/11/12 | Mid-Flood | IS8 | 9:46 | 3.4 | Bottom | 3 | 1 | 24.6 | 8.2 | 30.8 | 6.9 | | 11.5 | | 22.4 | 1 |
| TMCLKL | HY/2012/07 | 2018/11/12 | Mid-Flood | IS8 | 9:46 | 3.4 | Bottom | 3 | 2 | 24.6 | 8.3 | 30.5 | 6.9 | 6.9 | 12.4 | | 22.3 | 1 |
| TMCLKL | HY/2012/07 | 2018/11/12 | Mid-Flood | IS(Mf)9 | 9:38 | 3.1 | Surface | 1 | 1 | 24.7 | 8.2 | 30.9 | 6.9 | | 20.2 | | 20.7 | |
| TMCLKL | HY/2012/07 | 2018/11/12 | Mid-Flood | IS(Mf)9 | 9:38 | 3.1 | Surface | 1 | 2 | 24.6 | 8.3 | 30.6 | 7.0 | 1 | 19.9 | | 20.7 | 1 |
| TMCLKL | HY/2012/07 | 2018/11/12 | Mid-Flood | IS(Mf)9 | 9:38 | 3.1 | Middle | 2 | 1 | - | _ | | | 7.0 | - | | | |
| TMCLKL | HY/2012/07 | 2018/11/12 | Mid-Flood | IS(Mf)9 | 9:38 | 3.1 | Middle | 2 | 2 | | | | | 1 | | 21.4 | | 20.1 |
| TMCLKL | HY/2012/07 | 2018/11/12 | Mid-Flood | IS(Mf)9 | 9:38 | 3.1 | Bottom | 3 | 1 | 24.7 | 8.2 | 30.9 | 6.9 | | 22.8 | | 20.0 | 1 |
| TMCLKL | HY/2012/07 | 2018/11/12 | Mid-Flood | IS(Mf)9 | 9:38 | 3.1 | Bottom | 3 | 2 | 24.6 | 8.3 | 30.6 | 7.0 | 7.0 | 22.5 | | 18.9 | 1 |

| Project | Works | Date (yyyy-mm-dd) | Tide | Station | Start Time | Depth (m) | Level | Level Code | Replicate | Temperature (°C) | рН | Salinity (ppt) | DO (mg/L) | Average DO | Turbidity (NTU) | Depth-Averaged Turbidity | SS (mg/L) | Depth-Averaged SS |
|---------|------------|-------------------|---------|------------|------------|-----------|---------|------------|-----------|------------------|-----|----------------|-----------|------------|-----------------|-----------------------------|-----------|-------------------|
| TMCLKL | HY/2012/07 | 2018/11/14 | Mid-Ebb | CS(Mf)5 | 4:22 | 13.4 | Surface | 1 | 1 | 24.7 | 8.2 | 29.3 | 6.6 | | 7.0 | | 6.0 | |
| TMCLKL | HY/2012/07 | 2018/11/14 | Mid-Ebb | CS(Mf)5 | 4:22 | 13.4 | Surface | 1 | 2 | 24.7 | 8.2 | 29.8 | 6.6 | 6.5 | 7.1 | | 6.7 | |
| TMCLKL | HY/2012/07 | 2018/11/14 | Mid-Ebb | CS(Mf)5 | 4:22 | 13.4 | Middle | 2 | 1 | 24.9 | 8.2 | 29.6 | 6.4 | 0.5 | 7.1 | 7.3 | 5.8 | 6.7 |
| TMCLKL | HY/2012/07 | 2018/11/14 | Mid-Ebb | CS(Mf)5 | 4:22 | 13.4 | Middle | 2 | 2 | 24.9 | 8.2 | 30.2 | 6.4 | | 7.3 | 7.5 | 5.3 | 0.7 |
| TMCLKL | HY/2012/07 | 2018/11/14 | Mid-Ebb | CS(Mf)5 | 4:22 | 13.4 | Bottom | 3 | 1 | 24.9 | 8.2 | 30.7 | 6.2 | 6.2 | 7.5 | | 8.4 | |
| TMCLKL | HY/2012/07 | 2018/11/14 | Mid-Ebb | CS(Mf)5 | 4:22 | 13.4 | Bottom | 3 | 2 | 24.9 | 8.2 | 31.3 | 6.1 | 0.2 | 7.5 | | 7.7 | |
| TMCLKL | HY/2012/07 | 2018/11/14 | Mid-Ebb | CS(Mf)3(N) | 5:34 | 7.1 | Surface | 1 | 1 | 24.8 | 8.1 | 29.0 | 6.6 | | 4.9 | | 5.0 | |
| TMCLKL | HY/2012/07 | 2018/11/14 | Mid-Ebb | CS(Mf)3(N) | 5:34 | 7.1 | Surface | 1 | 2 | 24.4 | 8.1 | 29.1 | 6.7 | 6.6 | 5.0 | | 4.9 | |
| TMCLKL | HY/2012/07 | 2018/11/14 | Mid-Ebb | CS(Mf)3(N) | 5:34 | 7.1 | Middle | 2 | 1 | 24.8 | 8.1 | 29.3 | 6.5 | 0.0 | 5.8 | 6.1 | 4.3 | 4.8 |
| TMCLKL | HY/2012/07 | 2018/11/14 | Mid-Ebb | CS(Mf)3(N) | 5:34 | 7.1 | Middle | 2 | 2 | 24.5 | 8.1 | 29.3 | 6.6 | | 5.5 | 0.1 | 4.1 | 4.0 |
| TMCLKL | HY/2012/07 | 2018/11/14 | Mid-Ebb | CS(Mf)3(N) | 5:34 | 7.1 | Bottom | 3 | 1 | 24.8 | 8.1 | 29.8 | 6.4 | 6.5 | 7.5 | | 5.1 | |
| TMCLKL | HY/2012/07 | 2018/11/14 | Mid-Ebb | CS(Mf)3(N) | 5:34 | 7.1 | Bottom | 3 | 2 | 24.5 | 8.1 | 29.9 | 6.6 | 0.5 | 7.7 | | 5.4 | |
| TMCLKL | HY/2012/07 | 2018/11/14 | Mid-Ebb | IS(Mf)16 | 4:52 | 5.7 | Surface | 1 | 1 | 24.7 | 8.2 | 29.2 | 6.7 | | 9.1 | | 7.3 | |
| TMCLKL | HY/2012/07 | 2018/11/14 | Mid-Ebb | IS(Mf)16 | 4:52 | 5.7 | Surface | 1 | 2 | 24.7 | 8.2 | 29.7 | 6.7 | 6.7 | 9.1 | | 7.7 | |
| TMCLKL | HY/2012/07 | 2018/11/14 | Mid-Ebb | IS(Mf)16 | 4:52 | 5.7 | Middle | 2 | 1 | | | | | 0.7 | | 9.3 | | 7.9 |
| TMCLKL | HY/2012/07 | 2018/11/14 | Mid-Ebb | IS(Mf)16 | 4:52 | 5.7 | Middle | 2 | 2 | | | | | | | 5.5 | | 7.9 |
| TMCLKL | HY/2012/07 | 2018/11/14 | Mid-Ebb | IS(Mf)16 | 4:52 | 5.7 | Bottom | 3 | 1 | 24.7 | 8.2 | 29.2 | 6.7 | 6.7 | 9.4 | | 8.1 | |
| TMCLKL | HY/2012/07 | 2018/11/14 | Mid-Ebb | IS(Mf)16 | 4:52 | 5.7 | Bottom | 3 | 2 | 24.7 | 8.2 | 29.8 | 6.6 | 0.7 | 9.6 | | 8.3 | |
| TMCLKL | HY/2012/07 | 2018/11/14 | Mid-Ebb | SR4a | 5:00 | 4.4 | Surface | 1 | 1 | 24.7 | 8.1 | 29.1 | 6.5 | | 8.3 | | 5.3 | |
| TMCLKL | HY/2012/07 | 2018/11/14 | Mid-Ebb | SR4a | 5:00 | 4.4 | Surface | 1 | 2 | 24.7 | 8.1 | 29.7 | 6.5 | 6.5 | 8.5 | | 6.1 | |
| TMCLKL | HY/2012/07 | 2018/11/14 | Mid-Ebb | SR4a | 5:00 | 4.4 | Middle | 2 | 1 | | | | | 0.5 | | 8.4 | | 6.1 |
| TMCLKL | HY/2012/07 | 2018/11/14 | Mid-Ebb | SR4a | 5:00 | 4.4 | Middle | 2 | 2 | | | | | | | 0.4 | | 0.1 |
| TMCLKL | HY/2012/07 | 2018/11/14 | Mid-Ebb | SR4a | 5:00 | 4.4 | Bottom | 3 | 1 | 24.7 | 8.1 | 29.1 | 6.6 | 6.6 | 8.3 | | 6.5 | |
| TMCLKL | HY/2012/07 | 2018/11/14 | Mid-Ebb | SR4a | 5:00 | 4.4 | Bottom | 3 | 2 | 24.7 | 8.1 | 29.7 | 6.6 | 0.0 | 8.5 | | 6.6 | |
| TMCLKL | HY/2012/07 | 2018/11/14 | Mid-Ebb | SR4(N) | 5:07 | 3.7 | Surface | 1 | 1 | 24.7 | 8.2 | 29.1 | 6.6 | | 8.2 | | 8.3 | |
| TMCLKL | HY/2012/07 | 2018/11/14 | Mid-Ebb | SR4(N) | 5:07 | 3.7 | Surface | 1 | 2 | 24.7 | 8.2 | 29.7 | 6.6 | 6.6 | 8.4 | | 8.3 | |
| TMCLKL | HY/2012/07 | 2018/11/14 | Mid-Ebb | SR4(N) | 5:07 | 3.7 | Middle | 2 | 1 | | | | | 0.0 | | 8.4 | | 8.9 |
| TMCLKL | HY/2012/07 | 2018/11/14 | Mid-Ebb | SR4(N) | 5:07 | 3.7 | Middle | 2 | 2 | | | | | | | 0.4 | | 0.5 |
| TMCLKL | HY/2012/07 | 2018/11/14 | Mid-Ebb | SR4(N) | 5:07 | 3.7 | Bottom | 3 | 1 | 24.7 | 8.2 | 29.1 | 6.6 | 6.6 | 8.2 | | 9.9 | |
| TMCLKL | HY/2012/07 | 2018/11/14 | Mid-Ebb | SR4(N) | 5:07 | 3.7 | Bottom | 3 | 2 | 24.7 | 8.2 | 29.7 | 6.6 | 0.0 | 8.6 | | 9.1 | |
| TMCLKL | HY/2012/07 | 2018/11/14 | Mid-Ebb | IS8 | 5:13 | 3.5 | Surface | 1 | 1 | 24.7 | 8.2 | 29.1 | 6.8 | | 9.1 | | 7.2 | |
| TMCLKL | HY/2012/07 | 2018/11/14 | Mid-Ebb | IS8 | 5:13 | 3.5 | Surface | 1 | 2 | 24.7 | 8.2 | 29.7 | 6.8 | 6.8 | 9.4 | | 8.0 | |
| TMCLKL | HY/2012/07 | 2018/11/14 | Mid-Ebb | IS8 | 5:13 | 3.5 | Middle | 2 | 1 | | | | | 0.8 | | 9.7 | | 8.0 |
| TMCLKL | HY/2012/07 | 2018/11/14 | Mid-Ebb | IS8 | 5:13 | 3.5 | Middle | 2 | 2 | | | | | | | 5.7 | | 0.0 |
| TMCLKL | HY/2012/07 | 2018/11/14 | Mid-Ebb | IS8 | 5:13 | 3.5 | Bottom | 3 | 1 | 24.7 | 8.2 | 29.2 | 6.8 | 6.8 | 10.3 | | 8.6 |] |
| TMCLKL | HY/2012/07 | 2018/11/14 | Mid-Ebb | IS8 | 5:13 | 3.5 | Bottom | 3 | 2 | 24.7 | 8.2 | 29.7 | 6.8 | 0.0 | 10.1 | | 8.3 | |
| TMCLKL | HY/2012/07 | 2018/11/14 | Mid-Ebb | IS(Mf)9 | 5:21 | 2.9 | Surface | 1 | 1 | | | | | | | | | |
| TMCLKL | HY/2012/07 | 2018/11/14 | Mid-Ebb | IS(Mf)9 | 5:21 | 2.9 | Surface | 1 | 2 | | | | | ٤ ٩ | | | | J |
| TMCLKL | HY/2012/07 | 2018/11/14 | Mid-Ebb | IS(Mf)9 | 5:21 | 2.9 | Middle | 2 | 1 | 24.6 | 8.2 | 29.0 | 6.8 | 6.8 | 8.6 | 8.6 | 11.2 | 11.1 |
| TMCLKL | HY/2012/07 | 2018/11/14 | Mid-Ebb | IS(Mf)9 | 5:21 | 2.9 | Middle | 2 | 2 | 24.6 | 8.2 | 29.6 | 6.8 | <u> </u> | 8.6 | 0.0 | 10.9 | |
| TMCLKL | HY/2012/07 | 2018/11/14 | Mid-Ebb | IS(Mf)9 | 5:21 | 2.9 | Bottom | 3 | 1 | | | | | | | | | |
| | HY/2012/07 | 2018/11/14 | Mid-Ebb | IS(Mf)9 | 5:21 | 2.9 | Bottom | 3 | 2 | | | | | 1 1 | |] | | |

| Project | Works | Date (yyyy-mm-dd) | Tide | Station | Start Time | Depth (m) | Level | Level Code | Replicate | Temperature (°C) | рН | Salinity (ppt) | DO (mg/L) | Average DO | Turbidity (NTU) | Depth-Averaged Turbidity | SS (mg/L) | Depth-Averaged SS |
|---------|------------|-------------------|-----------|------------|------------|-----------|---------|------------|-----------|------------------|-----|----------------|-----------|------------|-----------------|-----------------------------|-----------|-------------------|
| TMCLKL | HY/2012/07 | 2018/11/14 | Mid-Flood | CS(Mf)5 | 16:38 | 13.5 | Surface | 1 | 1 | 24.8 | 8.2 | 30.3 | 6.2 | | 7.1 | | 3.6 | |
| TMCLKL | HY/2012/07 | 2018/11/14 | Mid-Flood | CS(Mf)5 | 16:38 | 13.5 | Surface | 1 | 2 | 24.8 | 8.2 | 30.9 | 6.2 | 6.2 | 7.2 | | 4.5 | |
| TMCLKL | HY/2012/07 | 2018/11/14 | Mid-Flood | CS(Mf)5 | 16:38 | 13.5 | Middle | 2 | 1 | 24.8 | 8.2 | 30.4 | 6.2 | 0.2 | 7.5 | 7.4 | 6.5 | 6.2 |
| TMCLKL | HY/2012/07 | 2018/11/14 | Mid-Flood | CS(Mf)5 | 16:38 | 13.5 | Middle | 2 | 2 | 24.8 | 8.2 | 31.0 | 6.2 | | 7.7 | 7.4 | 6.3 | 0.2 |
| TMCLKL | HY/2012/07 | 2018/11/14 | Mid-Flood | CS(Mf)5 | 16:38 | 13.5 | Bottom | 3 | 1 | 24.8 | 8.2 | 30.3 | 6.2 | 6.2 | 7.2 | | 8.3 | |
| TMCLKL | HY/2012/07 | 2018/11/14 | Mid-Flood | CS(Mf)5 | 16:38 | 13.5 | Bottom | 3 | 2 | 24.8 | 8.2 | 30.9 | 6.2 | 0.2 | 7.4 | | 7.7 | |
| TMCLKL | HY/2012/07 | 2018/11/14 | Mid-Flood | CS(Mf)3(N) | 15:34 | 7.0 | Surface | 1 | 1 | 24.6 | 8.1 | 28.9 | 6.7 | | 6.1 | | 7.8 | |
| TMCLKL | HY/2012/07 | 2018/11/14 | Mid-Flood | CS(Mf)3(N) | 15:34 | 7.0 | Surface | 1 | 2 | 25.0 | 8.1 | 28.8 | 6.6 | 6.6 | 6.5 | | 8.2 | |
| TMCLKL | HY/2012/07 | 2018/11/14 | Mid-Flood | CS(Mf)3(N) | 15:34 | 7.0 | Middle | 2 | 1 | 24.6 | 8.1 | 29.2 | 6.6 | 0.0 | 7.4 | 8.4 | 8.8 | 9.4 |
| TMCLKL | HY/2012/07 | 2018/11/14 | Mid-Flood | CS(Mf)3(N) | 15:34 | 7.0 | Middle | 2 | 2 | 24.9 | 8.1 | 29.2 | 6.5 | | 6.9 | 0.4 | 9.6 | 5.4 |
| TMCLKL | HY/2012/07 | 2018/11/14 | Mid-Flood | CS(Mf)3(N) | 15:34 | 7.0 | Bottom | 3 | 1 | 24.5 | 8.1 | 29.6 | 6.6 | 6.6 | 11.7 | | 10.9 | |
| TMCLKL | HY/2012/07 | 2018/11/14 | Mid-Flood | CS(Mf)3(N) | 15:34 | 7.0 | Bottom | 3 | 2 | 24.8 | 8.1 | 29.6 | 6.5 | 0.0 | 11.6 | | 11.2 | |
| TMCLKL | HY/2012/07 | 2018/11/14 | Mid-Flood | IS(Mf)16 | 16:14 | 5.6 | Surface | 1 | 1 | 24.9 | 8.2 | 28.9 | 6.6 | | 7.4 | | 8.3 | |
| TMCLKL | HY/2012/07 | 2018/11/14 | Mid-Flood | IS(Mf)16 | 16:14 | 5.6 | Surface | 1 | 2 | 24.9 | 8.2 | 29.4 | 6.6 | 6.6 | 7.5 | | 7.6 | |
| TMCLKL | HY/2012/07 | 2018/11/14 | Mid-Flood | IS(Mf)16 | 16:14 | 5.6 | Middle | 2 | 1 | | | | | 0.0 | | 7.4 | | 9.0 |
| TMCLKL | HY/2012/07 | 2018/11/14 | Mid-Flood | IS(Mf)16 | 16:14 | 5.6 | Middle | 2 | 2 | | | | | | | 7.4 | | 5.0 |
| TMCLKL | HY/2012/07 | 2018/11/14 | Mid-Flood | IS(Mf)16 | 16:14 | 5.6 | Bottom | 3 | 1 | 24.9 | 8.2 | 28.9 | 6.7 | 6.7 | 7.3 | | 9.4 | |
| TMCLKL | HY/2012/07 | 2018/11/14 | Mid-Flood | IS(Mf)16 | 16:14 | 5.6 | Bottom | 3 | 2 | 24.9 | 8.2 | 29.4 | 6.7 | 0.7 | 7.4 | | 10.8 | |
| TMCLKL | HY/2012/07 | 2018/11/14 | Mid-Flood | SR4a | 16:03 | 4.3 | Surface | 1 | 1 | 24.9 | 8.2 | 29.0 | 6.6 | | 9.4 | | 6.8 | |
| TMCLKL | HY/2012/07 | 2018/11/14 | Mid-Flood | SR4a | 16:03 | 4.3 | Surface | 1 | 2 | 24.9 | 8.2 | 29.6 | 6.6 | 6.6 | 9.7 | | 6.5 | |
| TMCLKL | HY/2012/07 | 2018/11/14 | Mid-Flood | SR4a | 16:03 | 4.3 | Middle | 2 | 1 | | | | | 0.0 | | 10.3 | | 7.6 |
| TMCLKL | HY/2012/07 | 2018/11/14 | Mid-Flood | SR4a | 16:03 | 4.3 | Middle | 2 | 2 | | | | | | | 10.5 | | 7.0 |
| TMCLKL | HY/2012/07 | 2018/11/14 | Mid-Flood | SR4a | 16:03 | 4.3 | Bottom | 3 | 1 | 24.8 | 8.2 | 29.1 | 6.8 | 6.8 | 11.2 | | 8.4 | |
| TMCLKL | HY/2012/07 | 2018/11/14 | Mid-Flood | SR4a | 16:03 | 4.3 | Bottom | 3 | 2 | 24.8 | 8.2 | 29.6 | 6.8 | 0.0 | 10.9 | | 8.7 | |
| TMCLKL | HY/2012/07 | 2018/11/14 | Mid-Flood | SR4(N) | 15:59 | 4.1 | Surface | 1 | 1 | 24.9 | 8.2 | 29.2 | 6.6 | | 12.2 | | 11.3 | |
| TMCLKL | HY/2012/07 | 2018/11/14 | Mid-Flood | SR4(N) | 15:59 | 4.1 | Surface | 1 | 2 | 24.9 | 8.2 | 29.7 | 6.6 | 6.6 | 12.2 | | 10.6 | |
| TMCLKL | HY/2012/07 | 2018/11/14 | Mid-Flood | SR4(N) | 15:59 | 4.1 | Middle | 2 | 1 | | | | | | | 12.1 | | 11.0 |
| TMCLKL | HY/2012/07 | 2018/11/14 | Mid-Flood | SR4(N) | 15:59 | 4.1 | Middle | 2 | 2 | | | | | | | | | |
| | HY/2012/07 | 2018/11/14 | Mid-Flood | SR4(N) | 15:59 | 4.1 | Bottom | 3 | 1 | 24.9 | 8.2 | 29.1 | 6.6 | 6.6 | 11.9 | | 11.1 | |
| | HY/2012/07 | 2018/11/14 | Mid-Flood | SR4(N) | 15:59 | 4.1 | Bottom | 3 | 2 | 24.9 | 8.2 | 29.7 | 6.6 | | 12.1 | | 11.0 | |
| TMCLKL | HY/2012/07 | 2018/11/14 | Mid-Flood | IS8 | 15:54 | 3.3 | Surface | 1 | 1 | 24.8 | 8.2 | 28.9 | 6.7 | | 6.4 | | 6.4 | |
| | HY/2012/07 | 2018/11/14 | Mid-Flood | IS8 | 15:54 | 3.3 | Surface | 1 | 2 | 24.9 | 8.2 | 29.4 | 6.7 | 6.7 | 6.7 | | 7.3 | |
| TMCLKL | HY/2012/07 | 2018/11/14 | Mid-Flood | IS8 | 15:54 | 3.3 | Middle | 2 | 1 | | | | | - | | 6.6 | | 7.7 |
| TMCLKL | HY/2012/07 | 2018/11/14 | Mid-Flood | IS8 | 15:54 | 3.3 | Middle | 2 | 2 | | | | | | | | | |
| TMCLKL | HY/2012/07 | 2018/11/14 | Mid-Flood | IS8 | 15:54 | 3.3 | Bottom | 3 | 1 | 24.8 | 8.2 | 28.9 | 6.7 | 6.7 | 6.4 | | 8.7 | |
| TMCLKL | HY/2012/07 | 2018/11/14 | Mid-Flood | IS8 | 15:54 | 3.3 | Bottom | 3 | 2 | 24.8 | 8.2 | 29.4 | 6.7 | | 6.7 | | 8.5 | |
| TMCLKL | HY/2012/07 | 2018/11/14 | Mid-Flood | IS(Mf)9 | 15:48 | 2.8 | Surface | 1 | 1 | | | | ļ | | | | | |
| TMCLKL | HY/2012/07 | 2018/11/14 | Mid-Flood | IS(Mf)9 | 15:48 | 2.8 | Surface | 1 | 2 | | | | | 6.8 | | | | |
| TMCLKL | HY/2012/07 | 2018/11/14 | Mid-Flood | IS(Mf)9 | 15:48 | 2.8 | Middle | 2 | 1 | 24.8 | 8.2 | 29.1 | 6.8 | | 12.8 | 12.8 | 8.1 | 8.3 |
| TMCLKL | HY/2012/07 | 2018/11/14 | Mid-Flood | IS(Mf)9 | 15:48 | 2.8 | Middle | 2 | 2 | 24.8 | 8.2 | 29.6 | 6.8 | | 12.8 | 12.0 | 8.4 | 0.0 |
| | HY/2012/07 | 2018/11/14 | Mid-Flood | IS(Mf)9 | 15:48 | 2.8 | Bottom | 3 | 1 | | | | | | | | | |
| TMCLKL | HY/2012/07 | 2018/11/14 | Mid-Flood | IS(Mf)9 | 15:48 | 2.8 | Bottom | 3 | 2 | | | | | | | | | |

| Project | Works | Date (yyyy-mm-dd) | Tide | Station | Start Time | Depth (m) | Level | Level Code | Replicate | Temperature (°C) | рН | Salinity (ppt) | DO (mg/L) | Average DO | Turbidity (NTU) | Depth-Averaged Turbidity | SS (mg/L) | Depth-Averaged SS |
|---------|------------|-------------------|---------|------------|------------|-----------|---------|------------|-----------|------------------|-----|----------------|-----------|------------|-----------------|-----------------------------|-----------|-------------------|
| TMCLKL | HY/2012/07 | 2018/11/16 | Mid-Ebb | CS(Mf)5 | 21:18 | 12.0 | Surface | 1 | 1 | 24.7 | 8.2 | 29.8 | 6.4 | | 3.1 | | 12.9 | |
| TMCLKL | HY/2012/07 | 2018/11/16 | Mid-Ebb | CS(Mf)5 | 21:18 | 12.0 | Surface | 1 | 2 | 24.7 | 8.2 | 29.8 | 6.4 | 6.3 | 3.1 | | 12.1 | |
| TMCLKL | HY/2012/07 | 2018/11/16 | Mid-Ebb | CS(Mf)5 | 21:18 | 12.0 | Middle | 2 | 1 | 24.7 | 8.2 | 30.4 | 6.1 | 0.5 | 4.5 | 3.9 | 10.4 | 11.3 |
| TMCLKL | HY/2012/07 | 2018/11/16 | Mid-Ebb | CS(Mf)5 | 21:18 | 12.0 | Middle | 2 | 2 | 24.7 | 8.2 | 30.4 | 6.1 |] [| 4.4 | 5.5 | 10.1 | 11.5 |
| TMCLKL | HY/2012/07 | 2018/11/16 | Mid-Ebb | CS(Mf)5 | 21:18 | 12.0 | Bottom | 3 | 1 | 24.7 | 8.2 | 30.3 | 6.3 | 6.3 | 4.1 | | 11.0 | |
| TMCLKL | HY/2012/07 | 2018/11/16 | Mid-Ebb | CS(Mf)5 | 21:18 | 12.0 | Bottom | 3 | 2 | 24.7 | 8.2 | 30.4 | 6.2 | 0.5 | 4.3 | | 11.0 | |
| TMCLKL | HY/2012/07 | 2018/11/16 | Mid-Ebb | CS(Mf)3(N) | 20:17 | 7.3 | Surface | 1 | 1 | 25.2 | 8.0 | 25.8 | 6.6 | | 5.2 | | 10.9 | |
| TMCLKL | HY/2012/07 | 2018/11/16 | Mid-Ebb | CS(Mf)3(N) | 20:17 | 7.3 | Surface | 1 | 2 | 24.9 | 8.0 | 25.9 | 6.7 | 6.6 | 5.2 | | 11.0 | |
| TMCLKL | HY/2012/07 | 2018/11/16 | Mid-Ebb | CS(Mf)3(N) | 20:17 | 7.3 | Middle | 2 | 1 | 25.1 | 8.0 | 26.6 | 6.5 | 0.0 | 9.0 | 9.0 | 13.5 | 13.0 |
| TMCLKL | HY/2012/07 | 2018/11/16 | Mid-Ebb | CS(Mf)3(N) | 20:17 | 7.3 | Middle | 2 | 2 | 24.7 | 8.0 | 26.8 | 6.6 | | 8.8 | 5.0 | 13.4 | 15.0 |
| TMCLKL | HY/2012/07 | 2018/11/16 | Mid-Ebb | CS(Mf)3(N) | 20:17 | 7.3 | Bottom | 3 | 1 | 24.9 | 8.0 | 27.3 | 6.4 | 6.5 | 13.0 | | 14.0 | |
| TMCLKL | HY/2012/07 | 2018/11/16 | Mid-Ebb | CS(Mf)3(N) | 20:17 | 7.3 | Bottom | 3 | 2 | 24.6 | 8.0 | 27.4 | 6.5 | 0.5 | 13.0 | | 14.9 | |
| TMCLKL | HY/2012/07 | 2018/11/16 | Mid-Ebb | IS(Mf)16 | 20:52 | 5.8 | Surface | 1 | 1 | 24.7 | 8.2 | 29.2 | 6.6 | | 6.1 | | 8.4 | |
| TMCLKL | HY/2012/07 | 2018/11/16 | Mid-Ebb | IS(Mf)16 | 20:52 | 5.8 | Surface | 1 | 2 | 24.8 | 8.2 | 29.1 | 6.6 | 6.6 | 5.6 | | 8.7 | |
| TMCLKL | HY/2012/07 | 2018/11/16 | Mid-Ebb | IS(Mf)16 | 20:52 | 5.8 | Middle | 2 | 1 | | | | | 0.0 | | 6.4 | | 8.0 |
| TMCLKL | HY/2012/07 | 2018/11/16 | Mid-Ebb | IS(Mf)16 | 20:52 | 5.8 | Middle | 2 | 2 | | | | | | | 0.4 | | 0.0 |
| TMCLKL | HY/2012/07 | 2018/11/16 | Mid-Ebb | IS(Mf)16 | 20:52 | 5.8 | Bottom | 3 | 1 | 24.7 | 8.2 | 29.2 | 6.6 | 6.6 | 6.6 | | 7.3 | |
| TMCLKL | HY/2012/07 | 2018/11/16 | Mid-Ebb | IS(Mf)16 | 20:52 | 5.8 | Bottom | 3 | 2 | 24.7 | 8.2 | 29.3 | 6.6 | 0.0 | 7.1 | | 7.6 | |
| TMCLKL | HY/2012/07 | 2018/11/16 | Mid-Ebb | SR4a | 20:41 | 5.0 | Surface | 1 | 1 | 24.6 | 8.2 | 29.4 | 6.4 | | 9.3 | | 8.3 | |
| TMCLKL | HY/2012/07 | 2018/11/16 | Mid-Ebb | SR4a | 20:41 | 5.0 | Surface | 1 | 2 | 24.6 | 8.2 | 29.3 | 6.4 | 6.4 | 8.6 | | 8.4 | |
| TMCLKL | HY/2012/07 | 2018/11/16 | Mid-Ebb | SR4a | 20:41 | 5.0 | Middle | 2 | 1 | | | | | 0.4 | | 9.6 | | 8.9 |
| TMCLKL | HY/2012/07 | 2018/11/16 | Mid-Ebb | SR4a | 20:41 | 5.0 | Middle | 2 | 2 | | | | | | | 5.0 | | 0.5 |
| TMCLKL | HY/2012/07 | 2018/11/16 | Mid-Ebb | SR4a | 20:41 | 5.0 | Bottom | 3 | 1 | 24.4 | 8.2 | 29.6 | 6.5 | 6.5 | 10.2 | | 9.1 | |
| TMCLKL | HY/2012/07 | 2018/11/16 | Mid-Ebb | SR4a | 20:41 | 5.0 | Bottom | 3 | 2 | 24.5 | 8.2 | 29.6 | 6.5 | 0.5 | 10.3 | | 9.6 | |
| TMCLKL | HY/2012/07 | 2018/11/16 | Mid-Ebb | SR4(N) | 20:38 | 3.3 | Surface | 1 | 1 | 24.8 | 8.2 | 29.3 | 6.6 | | 7.0 | | 9.9 | |
| TMCLKL | HY/2012/07 | 2018/11/16 | Mid-Ebb | SR4(N) | 20:38 | 3.3 | Surface | 1 | 2 | 24.8 | 8.2 | 29.3 | 6.6 | 6.6 | 7.0 | | 10.2 | |
| TMCLKL | HY/2012/07 | 2018/11/16 | Mid-Ebb | SR4(N) | 20:38 | 3.3 | Middle | 2 | 1 | | | | | 0.0 | | 7.0 | | 11.4 |
| TMCLKL | HY/2012/07 | 2018/11/16 | Mid-Ebb | SR4(N) | 20:38 | 3.3 | Middle | 2 | 2 | | | | | | | , | | ±±.+ |
| TMCLKL | HY/2012/07 | 2018/11/16 | Mid-Ebb | SR4(N) | 20:38 | 3.3 | Bottom | 3 | 1 | 24.8 | 8.2 | 29.3 | 6.7 | 6.7 | 6.9 | | 12.8 | |
| TMCLKL | HY/2012/07 | 2018/11/16 | Mid-Ebb | SR4(N) | 20:38 | 3.3 | Bottom | 3 | 2 | 24.8 | 8.2 | 29.3 | 6.6 | 0.7 | 7.0 | | 12.5 | |
| TMCLKL | HY/2012/07 | 2018/11/16 | Mid-Ebb | IS8 | 20:33 | 4.0 | Surface | 1 | 1 | 24.7 | 8.2 | 29.3 | 6.5 | | 7.6 | | 8.1 | |
| TMCLKL | HY/2012/07 | 2018/11/16 | Mid-Ebb | IS8 | 20:33 | 4.0 | Surface | 1 | 2 | 24.7 | 8.2 | 29.3 | 6.5 | 6.5 | 7.6 | | 8.2 | |
| TMCLKL | HY/2012/07 | 2018/11/16 | Mid-Ebb | IS8 | 20:33 | 4.0 | Middle | 2 | 1 | | | | | 0.5 | | 7.5 | | 9.8 |
| TMCLKL | HY/2012/07 | 2018/11/16 | Mid-Ebb | IS8 | 20:33 | 4.0 | Middle | 2 | 2 | | | | | | | /.5 | | 5.0 |
| TMCLKL | HY/2012/07 | 2018/11/16 | Mid-Ebb | IS8 | 20:33 | 4.0 | Bottom | 3 | 1 | 24.7 | 8.2 | 29.2 | 6.6 | 6.6 | 7.4 | | 11.9 | |
| TMCLKL | HY/2012/07 | 2018/11/16 | Mid-Ebb | IS8 | 20:33 | 4.0 | Bottom | 3 | 2 | 24.7 | 8.2 | 29.3 | 6.6 | 0.0 | 7.4 | | 11.0 | |
| TMCLKL | HY/2012/07 | 2018/11/16 | Mid-Ebb | IS(Mf)9 | 20:25 | 3.4 | Surface | 1 | 1 | 24.6 | 8.2 | 29.5 | 6.5 |]] | 13.5 | | 14.9 | |
| TMCLKL | HY/2012/07 | 2018/11/16 | Mid-Ebb | IS(Mf)9 | 20:25 | 3.4 | Surface | 1 | 2 | 24.6 | 8.2 | 29.5 | 6.5 | 6.5 | 13.9 | ļ | 13.3 | |
| TMCLKL | HY/2012/07 | 2018/11/16 | Mid-Ebb | IS(Mf)9 | 20:25 | 3.4 | Middle | 2 | 1 | | | | | 0.5 | | 13.0 | | 13.7 |
| TMCLKL | HY/2012/07 | 2018/11/16 | Mid-Ebb | IS(Mf)9 | 20:25 | 3.4 | Middle | 2 | 2 | | | | | | | 13.0 | | 13.7 |
| TMCLKL | HY/2012/07 | 2018/11/16 | Mid-Ebb | IS(Mf)9 | 20:25 | 3.4 | Bottom | 3 | 1 | 24.6 | 8.2 | 29.5 | 6.6 | 6.6 | 11.8 | ļ | 12.9 | |
| TMCLKL | HY/2012/07 | 2018/11/16 | Mid-Ebb | IS(Mf)9 | 20:25 | 3.4 | Bottom | 3 | 2 | 24.6 | 8.2 | 29.5 | 6.6 | 0.0 | 12.6 | | 13.5 | |

| Project | Works | Date (yyyy-mm-dd) | Tide | Station | Start Time | Depth (m) | Level | Level Code | Replicate | Temperature (°C) | рН | Salinity (ppt) | DO (mg/L) | Average DO | Turbidity (NTU) | Depth-Averaged Turbidity | SS (mg/L) | Depth-Averaged SS |
|---------|------------|-------------------|-----------|------------|------------|-----------|---------|------------|-----------|------------------|-----|----------------|-----------|------------|-----------------|-----------------------------|-----------|-------------------|
| TMCLKL | HY/2012/07 | 2018/11/16 | Mid-Flood | CS(Mf)5 | 14:19 | 12.5 | Surface | 1 | 1 | 24.5 | 8.2 | 30.0 | 6.3 | | 3.3 | | 13.9 | |
| TMCLKL | HY/2012/07 | 2018/11/16 | Mid-Flood | CS(Mf)5 | 14:19 | 12.5 | Surface | 1 | 2 | 24.5 | 8.2 | 29.9 | 6.3 | 6.2 | 3.3 | | 13.8 | |
| TMCLKL | HY/2012/07 | 2018/11/16 | Mid-Flood | CS(Mf)5 | 14:19 | 12.5 | Middle | 2 | 1 | 24.7 | 8.1 | 30.5 | 6.1 | 0.2 | 3.7 | 3.6 | 14.6 | 14.1 |
| TMCLKL | HY/2012/07 | 2018/11/16 | Mid-Flood | CS(Mf)5 | 14:19 | 12.5 | Middle | 2 | 2 | 24.7 | 8.1 | 30.4 | 6.1 | | 3.5 | 5.0 | 14.2 | 14.1 |
| TMCLKL | HY/2012/07 | 2018/11/16 | Mid-Flood | CS(Mf)5 | 14:19 | 12.5 | Bottom | 3 | 1 | 24.7 | 8.1 | 30.6 | 6.2 | 6.2 | 3.8 | | 14.6 | |
| TMCLKL | HY/2012/07 | 2018/11/16 | Mid-Flood | CS(Mf)5 | 14:19 | 12.5 | Bottom | 3 | 2 | 24.7 | 8.1 | 30.8 | 6.2 | 0.2 | 3.9 | | 13.5 | |
| TMCLKL | HY/2012/07 | 2018/11/16 | Mid-Flood | CS(Mf)3(N) | 15:05 | 6.9 | Surface | 1 | 1 | 24.8 | 8.1 | 28.7 | 6.5 | | 2.8 | | 11.4 | |
| TMCLKL | HY/2012/07 | 2018/11/16 | Mid-Flood | CS(Mf)3(N) | 15:05 | 6.9 | Surface | 1 | 2 | 24.4 | 8.1 | 28.8 | 6.6 | 6.5 | 2.6 | | 10.7 | |
| TMCLKL | HY/2012/07 | 2018/11/16 | Mid-Flood | CS(Mf)3(N) | 15:05 | 6.9 | Middle | 2 | 1 | 24.8 | 8.1 | 29.3 | 6.4 | 0.5 | 3.2 | 2 1 | 10.3 | 10.4 |
| TMCLKL | HY/2012/07 | 2018/11/16 | Mid-Flood | CS(Mf)3(N) | 15:05 | 6.9 | Middle | 2 | 2 | 24.5 | 8.1 | 29.4 | 6.5 | | 3.1 | 3.1 | 10.5 | 10.4 |
| TMCLKL | HY/2012/07 | 2018/11/16 | Mid-Flood | CS(Mf)3(N) | 15:05 | 6.9 | Bottom | 3 | 1 | 24.8 | 8.1 | 29.7 | 6.4 | C F | 3.5 | | 9.5 | |
| TMCLKL | HY/2012/07 | 2018/11/16 | Mid-Flood | CS(Mf)3(N) | 15:05 | 6.9 | Bottom | 3 | 2 | 24.4 | 8.1 | 29.8 | 6.5 | 6.5 | 3.6 | 1 | 9.7 | |
| TMCLKL | HY/2012/07 | 2018/11/16 | Mid-Flood | IS(Mf)16 | 14:46 | 5.8 | Surface | 1 | 1 | 24.3 | 8.1 | 29.3 | 6.5 | | 6.0 | | 7.6 | |
| TMCLKL | HY/2012/07 | 2018/11/16 | Mid-Flood | IS(Mf)16 | 14:46 | 5.8 | Surface | 1 | 2 | 24.3 | 8.1 | 29.3 | 6.5 | 65 | 6.0 | | 7.2 | |
| TMCLKL | HY/2012/07 | 2018/11/16 | Mid-Flood | IS(Mf)16 | 14:46 | 5.8 | Middle | 2 | 1 | | | | | 6.5 | | 6.0 | | 8.4 |
| TMCLKL | HY/2012/07 | 2018/11/16 | Mid-Flood | IS(Mf)16 | 14:46 | 5.8 | Middle | 2 | 2 | | | | | | | 6.0 | | 0.4 |
| TMCLKL | HY/2012/07 | 2018/11/16 | Mid-Flood | IS(Mf)16 | 14:46 | 5.8 | Bottom | 3 | 1 | 24.3 | 8.1 | 29.4 | 6.5 | 6 5 | 6.0 | | 9.2 | |
| TMCLKL | HY/2012/07 | 2018/11/16 | Mid-Flood | IS(Mf)16 | 14:46 | 5.8 | Bottom | 3 | 2 | 24.4 | 8.1 | 29.4 | 6.5 | 6.5 | 6.0 | | 9.4 | |
| TMCLKL | HY/2012/07 | 2018/11/16 | Mid-Flood | SR4a | 14:56 | 5.2 | Surface | 1 | 1 | 24.3 | 8.1 | 29.2 | 6.4 | | 5.3 | | 11.2 | |
| TMCLKL | HY/2012/07 | 2018/11/16 | Mid-Flood | SR4a | 14:56 | 5.2 | Surface | 1 | 2 | 24.3 | 8.1 | 29.2 | 6.4 | 6.4 | 5.2 | | 11.0 | |
| TMCLKL | HY/2012/07 | 2018/11/16 | Mid-Flood | SR4a | 14:56 | 5.2 | Middle | 2 | 1 | | | | | 0.4 | | 5.4 | | 9.8 |
| TMCLKL | HY/2012/07 | 2018/11/16 | Mid-Flood | SR4a | 14:56 | 5.2 | Middle | 2 | 2 | | | | | | | 5.4 | | 5.0 |
| TMCLKL | HY/2012/07 | 2018/11/16 | Mid-Flood | SR4a | 14:56 | 5.2 | Bottom | 3 | 1 | 24.3 | 8.1 | 29.2 | 6.5 | 6.5 | 5.4 | | 8.2 | |
| TMCLKL | HY/2012/07 | 2018/11/16 | Mid-Flood | SR4a | 14:56 | 5.2 | Bottom | 3 | 2 | 24.3 | 8.1 | 29.2 | 6.5 | 0.5 | 5.5 | | 8.9 | |
| TMCLKL | HY/2012/07 | 2018/11/16 | Mid-Flood | SR4(N) | 15:01 | 3.2 | Surface | 1 | 1 | 24.1 | 8.1 | 29.0 | 6.4 | | 4.9 | | 9.0 | |
| TMCLKL | HY/2012/07 | 2018/11/16 | Mid-Flood | SR4(N) | 15:01 | 3.2 | Surface | 1 | 2 | 24.1 | 8.1 | 29.0 | 6.4 | 6.4 | 5.0 | | 10.0 | |
| TMCLKL | HY/2012/07 | 2018/11/16 | Mid-Flood | SR4(N) | 15:01 | 3.2 | Middle | 2 | 1 | | | | | 0.4 | | 5.0 | | 10.3 |
| TMCLKL | HY/2012/07 | 2018/11/16 | Mid-Flood | SR4(N) | 15:01 | 3.2 | Middle | 2 | 2 | | | | | | | | | 10.0 |
| TMCLKL | HY/2012/07 | 2018/11/16 | Mid-Flood | SR4(N) | 15:01 | 3.2 | Bottom | 3 | 1 | 24.1 | 8.1 | 29.0 | 6.4 | 6.4 | 5.0 | | 11.4 | |
| TMCLKL | HY/2012/07 | 2018/11/16 | Mid-Flood | SR4(N) | 15:01 | 3.2 | Bottom | 3 | 2 | 24.1 | 8.1 | 29.0 | 6.4 | 0 | 5.0 | | 10.9 | |
| TMCLKL | HY/2012/07 | 2018/11/16 | Mid-Flood | IS8 | 15:07 | 3.9 | Surface | 1 | 1 | 24.3 | 8.2 | 29.3 | 6.5 | | 5.9 | | 12.5 | |
| TMCLKL | HY/2012/07 | 2018/11/16 | Mid-Flood | IS8 | 15:07 | 3.9 | Surface | 1 | 2 | 24.3 | 8.2 | 29.3 | 6.5 | 6.5 | 5.8 | | 12.5 | |
| TMCLKL | HY/2012/07 | 2018/11/16 | Mid-Flood | IS8 | 15:07 | 3.9 | Middle | 2 | 1 | | | | | 0.0 | | 5.9 | | 12.8 |
| TMCLKL | HY/2012/07 | 2018/11/16 | Mid-Flood | IS8 | 15:07 | 3.9 | Middle | 2 | 2 | | | | | | | | | |
| TMCLKL | HY/2012/07 | 2018/11/16 | Mid-Flood | IS8 | 15:07 | 3.9 | Bottom | 3 | 1 | 24.3 | 8.2 | 29.3 | 6.5 | 6.5 | 5.9 | | 12.8 | |
| TMCLKL | HY/2012/07 | 2018/11/16 | Mid-Flood | IS8 | 15:07 | 3.9 | Bottom | 3 | 2 | 24.3 | 8.2 | 29.3 | 6.5 | 0.0 | 5.9 | | 13.2 | |
| TMCLKL | HY/2012/07 | 2018/11/16 | Mid-Flood | IS(Mf)9 | 15:15 | 3.2 | Surface | 1 | 1 | 24.2 | 8.1 | 29.3 | 6.6 | ↓ | 5.9 | | 13.8 | |
| TMCLKL | HY/2012/07 | 2018/11/16 | Mid-Flood | IS(Mf)9 | 15:15 | 3.2 | Surface | 1 | 2 | 24.2 | 8.1 | 29.3 | 6.5 | 6.6 | 5.9 | | 13.7 | |
| TMCLKL | HY/2012/07 | 2018/11/16 | Mid-Flood | IS(Mf)9 | 15:15 | 3.2 | Middle | 2 | 1 | | | | | | | 5.9 | | 13.5 |
| TMCLKL | HY/2012/07 | 2018/11/16 | Mid-Flood | IS(Mf)9 | 15:15 | 3.2 | Middle | 2 | 2 | | | | | | | | | |
| | HY/2012/07 | 2018/11/16 | Mid-Flood | IS(Mf)9 | 15:15 | 3.2 | Bottom | 3 | 1 | 24.2 | 8.1 | 29.3 | 6.6 | 6.6 | 5.9 | | 13.1 | |
| TMCLKL | HY/2012/07 | 2018/11/16 | Mid-Flood | IS(Mf)9 | 15:15 | 3.2 | Bottom | 3 | 2 | 24.2 | 8.1 | 29.3 | 6.6 | | 5.9 | | 13.3 | |

| Project | Works | Date (yyyy-mm-dd) | Tide | Station | Start Time | Depth (m) | Level | Level Code | Replicate | Temperature (°C) | рН | Salinity (ppt) | DO (mg/L) | Average DO | Turbidity (NTU) | Depth-Averaged Turbidity | SS (mg/L) | Depth-Averaged SS |
|---------|------------|-------------------|---------|------------|------------|-----------|---------|------------|-----------|------------------|-----|----------------|-----------|------------|-----------------|-----------------------------|-----------|-------------------|
| TMCLKL | HY/2012/07 | 2018/11/19 | Mid-Ebb | CS(Mf)5 | 9:00 | 12.0 | Surface | 1 | 1 | 24.5 | 8.1 | 29.1 | 6.5 | | 3.1 | | 4.1 | |
| TMCLKL | HY/2012/07 | 2018/11/19 | Mid-Ebb | CS(Mf)5 | 9:00 | 12.0 | Surface | 1 | 2 | 24.5 | 8.1 | 29.1 | 6.5 | 6.3 | 3.1 | | 4.8 | |
| TMCLKL | HY/2012/07 | 2018/11/19 | Mid-Ebb | CS(Mf)5 | 9:00 | 12.0 | Middle | 2 | 1 | 24.6 | 8.1 | 30.3 | 6.1 | 0.5 | 3.1 | 3.1 | 4.8 | 5.0 |
| TMCLKL | HY/2012/07 | 2018/11/19 | Mid-Ebb | CS(Mf)5 | 9:00 | 12.0 | Middle | 2 | 2 | 24.6 | 8.1 | 30.0 | 6.1 | | 3.1 | 5.1 | 5.2 | 5.0 |
| TMCLKL | HY/2012/07 | 2018/11/19 | Mid-Ebb | CS(Mf)5 | 9:00 | 12.0 | Bottom | 3 | 1 | 24.6 | 8.1 | 30.7 | 6.0 | 6.0 | 3.1 | | 5.9 | |
| TMCLKL | HY/2012/07 | 2018/11/19 | Mid-Ebb | CS(Mf)5 | 9:00 | 12.0 | Bottom | 3 | 2 | 24.6 | 8.1 | 30.9 | 6.0 | 6.0 | 3.2 | | 5.4 | |
| TMCLKL | HY/2012/07 | 2018/11/19 | Mid-Ebb | CS(Mf)3(N) | 10:13 | 7.0 | Surface | 1 | 1 | 24.8 | 7.9 | 26.3 | 6.6 | | 7.9 | | 4.7 | |
| TMCLKL | HY/2012/07 | 2018/11/19 | Mid-Ebb | CS(Mf)3(N) | 10:13 | 7.0 | Surface | 1 | 2 | 24.8 | 8.1 | 26.3 | 6.6 | 6.6 | 7.7 | | 4.8 | |
| TMCLKL | HY/2012/07 | 2018/11/19 | Mid-Ebb | CS(Mf)3(N) | 10:13 | 7.0 | Middle | 2 | 1 | 24.8 | 7.9 | 26.5 | 6.6 | 0.0 | 9.9 | 10.4 | 4.2 | 3.9 |
| TMCLKL | HY/2012/07 | 2018/11/19 | Mid-Ebb | CS(Mf)3(N) | 10:13 | 7.0 | Middle | 2 | 2 | 24.8 | 8.1 | 26.5 | 6.6 |] [| 9.5 | 10.4 | 4.2 | 5.9 |
| TMCLKL | HY/2012/07 | 2018/11/19 | Mid-Ebb | CS(Mf)3(N) | 10:13 | 7.0 | Bottom | 3 | 1 | 24.7 | 7.9 | 28.5 | 6.5 | 6 F | 13.5 | | 3.0 | |
| TMCLKL | HY/2012/07 | 2018/11/19 | Mid-Ebb | CS(Mf)3(N) | 10:13 | 7.0 | Bottom | 3 | 2 | 24.7 | 8.0 | 28.5 | 6.5 | 6.5 | 13.9 | | 2.3 | |
| TMCLKL | HY/2012/07 | 2018/11/19 | Mid-Ebb | IS(Mf)16 | 9:29 | 5.7 | Surface | 1 | 1 | 24.6 | 8.1 | 28.9 | 6.3 | | 8.0 | | 6.3 | |
| TMCLKL | HY/2012/07 | 2018/11/19 | Mid-Ebb | IS(Mf)16 | 9:29 | 5.7 | Surface | 1 | 2 | 24.6 | 8.1 | 28.9 | 6.3 | 6.3 | 7.7 | | 6.3 | |
| TMCLKL | HY/2012/07 | 2018/11/19 | Mid-Ebb | IS(Mf)16 | 9:29 | 5.7 | Middle | 2 | 1 | | | | | 0.5 | | 9.8 | | 6.1 |
| TMCLKL | HY/2012/07 | 2018/11/19 | Mid-Ebb | IS(Mf)16 | 9:29 | 5.7 | Middle | 2 | 2 | | | | | | | 5.0 | | 0.1 |
| TMCLKL | HY/2012/07 | 2018/11/19 | Mid-Ebb | IS(Mf)16 | 9:29 | 5.7 | Bottom | 3 | 1 | 24.6 | 8.1 | 28.9 | 6.4 | 6.4 | 12.0 | | 5.9 | |
| TMCLKL | HY/2012/07 | 2018/11/19 | Mid-Ebb | IS(Mf)16 | 9:29 | 5.7 | Bottom | 3 | 2 | 24.6 | 8.1 | 28.9 | 6.4 | 0.4 | 11.4 | | 5.7 | |
| TMCLKL | HY/2012/07 | 2018/11/19 | Mid-Ebb | SR4a | 9:35 | 4.9 | Surface | 1 | 1 | 24.5 | 8.1 | 28.7 | 6.5 | | 6.2 | | 4.4 | |
| TMCLKL | HY/2012/07 | 2018/11/19 | Mid-Ebb | SR4a | 9:35 | 4.9 | Surface | 1 | 2 | 24.5 | 8.1 | 28.7 | 6.5 | 6.5 | 5.8 | | 4.0 | |
| TMCLKL | HY/2012/07 | 2018/11/19 | Mid-Ebb | SR4a | 9:35 | 4.9 | Middle | 2 | 1 | | | | | 0.5 | | 6.8 | | 5.2 |
| TMCLKL | HY/2012/07 | 2018/11/19 | Mid-Ebb | SR4a | 9:35 | 4.9 | Middle | 2 | 2 | | | | | | | | | 5.2 |
| TMCLKL | HY/2012/07 | 2018/11/19 | Mid-Ebb | SR4a | 9:35 | 4.9 | Bottom | 3 | 1 | 24.5 | 8.2 | 28.9 | 6.8 | 6.8 | 7.6 | | 6.1 | |
| TMCLKL | HY/2012/07 | 2018/11/19 | Mid-Ebb | SR4a | 9:35 | 4.9 | Bottom | 3 | 2 | 24.5 | 8.2 | 28.9 | 6.7 | 0.0 | 7.7 | | 6.2 | |
| TMCLKL | HY/2012/07 | 2018/11/19 | Mid-Ebb | SR4(N) | 9:41 | 3.2 | Surface | 1 | 1 | 24.5 | 8.1 | 28.6 | 6.2 | | 5.5 | | 5.3 | |
| TMCLKL | HY/2012/07 | 2018/11/19 | Mid-Ebb | SR4(N) | 9:41 | 3.2 | Surface | 1 | 2 | 24.5 | 8.1 | 28.6 | 6.2 | 6.2 | 5.5 | | 5.6 | |
| TMCLKL | HY/2012/07 | 2018/11/19 | Mid-Ebb | SR4(N) | 9:41 | 3.2 | Middle | 2 | 1 | | | | | 0.2 | | 5.4 | | 5.4 |
| TMCLKL | HY/2012/07 | 2018/11/19 | Mid-Ebb | SR4(N) | 9:41 | 3.2 | Middle | 2 | 2 | | | | | | | | | |
| | | 2018/11/19 | Mid-Ebb | SR4(N) | 9:41 | 3.2 | Bottom | 3 | 1 | 24.5 | 8.1 | 28.6 | 6.3 | 6.3 | 5.3 | | 5.8 | |
| TMCLKL | HY/2012/07 | 2018/11/19 | Mid-Ebb | SR4(N) | 9:41 | 3.2 | Bottom | 3 | 2 | 24.5 | 8.1 | 28.6 | 6.3 | 0.0 | 5.3 | | 5.0 | |
| TMCLKL | HY/2012/07 | 2018/11/19 | Mid-Ebb | IS8 | 9:47 | 3.9 | Surface | 1 | 1 | 24.6 | 8.1 | 29.0 | 6.3 | 4 4 | 6.5 | | 5.8 | |
| TMCLKL | HY/2012/07 | 2018/11/19 | Mid-Ebb | IS8 | 9:47 | 3.9 | Surface | 1 | 2 | 24.6 | 8.1 | 29.0 | 6.3 | 6.3 | 6.3 | | 5.8 | |
| TMCLKL | HY/2012/07 | 2018/11/19 | Mid-Ebb | IS8 | 9:47 | 3.9 | Middle | 2 | 1 | | | | | | | 6.1 | | 6.7 |
| TMCLKL | HY/2012/07 | 2018/11/19 | Mid-Ebb | IS8 | 9:47 | 3.9 | Middle | 2 | 2 | | | | | | | | | |
| TMCLKL | HY/2012/07 | 2018/11/19 | Mid-Ebb | IS8 | 9:47 | 3.9 | Bottom | 3 | 1 | 24.6 | 8.1 | 29.0 | 6.4 | 6.4 | 5.5 | | 7.6 | |
| TMCLKL | HY/2012/07 | 2018/11/19 | Mid-Ebb | IS8 | 9:47 | 3.9 | Bottom | 3 | 2 | 24.6 | 8.1 | 29.0 | 6.4 | | 6.0 | | 7.6 | |
| TMCLKL | HY/2012/07 | 2018/11/19 | Mid-Ebb | IS(Mf)9 | 9:55 | 3.3 | Surface | 1 | 1 | 24.4 | 8.1 | 29.1 | 6.7 | 4 | 7.6 | | 8.7 | |
| TMCLKL | HY/2012/07 | 2018/11/19 | Mid-Ebb | IS(Mf)9 | 9:55 | 3.3 | Surface | 1 | 2 | 24.4 | 8.1 | 29.1 | 6.6 | 6.7 | 6.9 | | 8.8 | |
| TMCLKL | HY/2012/07 | 2018/11/19 | Mid-Ebb | IS(Mf)9 | 9:55 | 3.3 | Middle | 2 | 1 | | | | | 4 | | 8.1 | | 9.0 |
| TMCLKL | HY/2012/07 | 2018/11/19 | Mid-Ebb | IS(Mf)9 | 9:55 | 3.3 | Middle | 2 | 2 | | | | | | | | | |
| TMCLKL | HY/2012/07 | 2018/11/19 | Mid-Ebb | IS(Mf)9 | 9:55 | 3.3 | Bottom | 3 | 1 | 24.3 | 8.1 | 29.1 | 6.8 | 6.8 | 8.9 | | 9.2 | |
| TMCLKL | HY/2012/07 | 2018/11/19 | Mid-Ebb | IS(Mf)9 | 9:55 | 3.3 | Bottom | 3 | 2 | 24.3 | 8.1 | 29.1 | 6.7 | | 9.1 | | 9.3 | |

| Project | Works | Date (yyyy-mm-dd) | Tide | Station | Start Time | Depth (m) | Level | Level Code | Replicate | Temperature (°C) | рН | Salinity (ppt) | DO (mg/L) | Average DO | Turbidity (NTU) | Depth-Averaged Turbidity | SS (mg/L) | Depth-Averaged SS |
|---------|------------|-------------------|-----------|------------|------------|-----------|---------|------------|-----------|------------------|-----|----------------|-----------|------------|-----------------|-----------------------------|------------|-------------------|
| TMCLKL | HY/2012/07 | 2018/11/19 | Mid-Flood | CS(Mf)5 | 16:21 | 11.5 | Surface | 1 | 1 | 24.7 | 8.1 | 28.9 | 6.7 | | 3.1 | | 2.6 | |
| TMCLKL | HY/2012/07 | 2018/11/19 | Mid-Flood | CS(Mf)5 | 16:21 | 11.5 | Surface | 1 | 2 | 24.7 | 8.1 | 28.8 | 6.8 | 6.5 | 3.1 | | 2.4 | |
| TMCLKL | HY/2012/07 | 2018/11/19 | Mid-Flood | CS(Mf)5 | 16:21 | 11.5 | Middle | 2 | 1 | 24.6 | 8.1 | 29.8 | 6.2 | 0.5 | 3.4 | 4.8 | 2.5 | 2.8 |
| TMCLKL | HY/2012/07 | 2018/11/19 | Mid-Flood | CS(Mf)5 | 16:21 | 11.5 | Middle | 2 | 2 | 24.6 | 8.1 | 29.8 | 6.2 | | 2.8 | 4.0 | 2.1 | 2.0 |
| TMCLKL | HY/2012/07 | 2018/11/19 | Mid-Flood | CS(Mf)5 | 16:21 | 11.5 | Bottom | 3 | 1 | 24.6 | 8.1 | 30.7 | 6.2 | 6.2 | 8.0 | | 3.9 | |
| TMCLKL | HY/2012/07 | 2018/11/19 | Mid-Flood | CS(Mf)5 | 16:21 | 11.5 | Bottom | 3 | 2 | 24.6 | 8.1 | 30.7 | 6.1 | 0.2 | 8.4 | | 3.1 | |
| TMCLKL | HY/2012/07 | 2018/11/19 | Mid-Flood | CS(Mf)3(N) | 15:19 | 7.1 | Surface | 1 | 1 | 25.2 | 8.1 | 27.7 | 6.7 | | 7.1 | | 4.7 | |
| TMCLKL | HY/2012/07 | 2018/11/19 | Mid-Flood | CS(Mf)3(N) | 15:19 | 7.1 | Surface | 1 | 2 | 25.2 | 8.0 | 27.7 | 6.7 | 6.6 | 7.2 | | 4.6 | |
| TMCLKL | HY/2012/07 | 2018/11/19 | Mid-Flood | CS(Mf)3(N) | 15:19 | 7.1 | Middle | 2 | 1 | 25.1 | 8.1 | 27.9 | 6.5 | 0.0 | 7.6 | 8.0 | 4.3 | 5.1 |
| TMCLKL | HY/2012/07 | 2018/11/19 | Mid-Flood | CS(Mf)3(N) | 15:19 | 7.1 | Middle | 2 | 2 | 25.1 | 8.0 | 27.9 | 6.5 | | 7.8 | 8.0 | 4.2 | 5.1 |
| TMCLKL | HY/2012/07 | 2018/11/19 | Mid-Flood | CS(Mf)3(N) | 15:19 | 7.1 | Bottom | 3 | 1 | 24.9 | 8.1 | 28.6 | 6.5 | 6.5 | 9.4 | | 6.0 | |
| TMCLKL | HY/2012/07 | 2018/11/19 | Mid-Flood | CS(Mf)3(N) | 15:19 | 7.1 | Bottom | 3 | 2 | 24.9 | 7.9 | 28.6 | 6.5 | 0.5 | 9.1 | | 6.6 | |
| TMCLKL | HY/2012/07 | 2018/11/19 | Mid-Flood | IS(Mf)16 | 15:53 | 5.7 | Surface | 1 | 1 | 24.9 | 8.1 | 27.9 | 6.7 | | 5.7 | | 4.9 | |
| TMCLKL | HY/2012/07 | 2018/11/19 | Mid-Flood | IS(Mf)16 | 15:53 | 5.7 | Surface | 1 | 2 | 24.9 | 8.1 | 27.8 | 6.7 | 6.7 | 5.7 | | 5.3 | |
| TMCLKL | HY/2012/07 | 2018/11/19 | Mid-Flood | IS(Mf)16 | 15:53 | 5.7 | Middle | 2 | 1 | | | | | 0.7 | | 8.3 | | 5.9 |
| TMCLKL | HY/2012/07 | 2018/11/19 | Mid-Flood | IS(Mf)16 | 15:53 | 5.7 | Middle | 2 | 2 | | | | | | | 0.5 | | 5.5 |
| TMCLKL | HY/2012/07 | 2018/11/19 | Mid-Flood | IS(Mf)16 | 15:53 | 5.7 | Bottom | 3 | 1 | 24.9 | 8.1 | 28.0 | 6.7 | 6.7 | 10.6 | | 6.4 | |
| TMCLKL | HY/2012/07 | 2018/11/19 | Mid-Flood | IS(Mf)16 | 15:53 | 5.7 | Bottom | 3 | 2 | 24.9 | 8.1 | 28.2 | 6.7 | 0.7 | 11.0 | | 7.1 | |
| TMCLKL | HY/2012/07 | 2018/11/19 | Mid-Flood | SR4a | 15:43 | 4.9 | Surface | 1 | 1 | 25.0 | 8.1 | 27.9 | 6.9 |] | 6.2 | | 6.6 | - |
| TMCLKL | HY/2012/07 | 2018/11/19 | Mid-Flood | SR4a | 15:43 | 4.9 | Surface | 1 | 2 | 25.0 | 8.1 | 27.8 | 6.9 | 6.9 | 6.0 | | 6.3 | |
| TMCLKL | HY/2012/07 | 2018/11/19 | Mid-Flood | SR4a | 15:43 | 4.9 | Middle | 2 | 1 | | | | | | | 6.8 | | 6.0 |
| TMCLKL | HY/2012/07 | 2018/11/19 | Mid-Flood | SR4a | 15:43 | 4.9 | Middle | 2 | 2 | | | | | | | | | |
| TMCLKL | HY/2012/07 | 2018/11/19 | Mid-Flood | SR4a | 15:43 | 4.9 | Bottom | 3 | 1 | 24.9 | 8.1 | 28.2 | 7.0 | 7.0 | 7.5 | | 5.7 | |
| TMCLKL | HY/2012/07 | 2018/11/19 | Mid-Flood | SR4a | 15:43 | 4.9 | Bottom | 3 | 2 | 24.9 | 8.1 | 28.3 | 7.0 | | 7.6 | | 5.2 | |
| TMCLKL | HY/2012/07 | 2018/11/19 | Mid-Flood | SR4(N) | 15:40 | 3.2 | Surface | 1 | 1 | 25.0 | 8.1 | 27.8 | 6.9 | 4 | 5.3 | | 6.5 | |
| TMCLKL | HY/2012/07 | 2018/11/19 | Mid-Flood | SR4(N) | 15:40 | 3.2 | Surface | 1 | 2 | 25.0 | 8.1 | 27.8 | 6.9 | 6.9 | 5.3 | | 6.0 | |
| TMCLKL | HY/2012/07 | 2018/11/19 | Mid-Flood | SR4(N) | 15:40 | 3.2 | Middle | 2 | 1 | | | | | 4 | | 5.4 | | 5.7 |
| TMCLKL | HY/2012/07 | 2018/11/19 | Mid-Flood | SR4(N) | 15:40 | 3.2 | Middle | 2 | 2 | | | | | | | | | - |
| | HY/2012/07 | 2018/11/19 | Mid-Flood | SR4(N) | 15:40 | 3.2 | Bottom | 3 | 1 | 25.0 | 8.1 | 27.8 | 6.9 | 6.9 | 5.4 | | 5.0 | - |
| TMCLKL | HY/2012/07 | 2018/11/19 | Mid-Flood | SR4(N) | 15:40 | 3.2 | Bottom | 3 | 2 | 25.0 | 8.1 | 27.8 | 6.9 | | 5.4 | | 5.1 | |
| TMCLKL | HY/2012/07 | 2018/11/19 | Mid-Flood | IS8 | 15:35 | 4.0 | Surface | 1 | 1 | 24.9 | 8.1 | 28.1 | 6.7 | 4 | 6.2 | 4 | 9.4 | 4 |
| TMCLKL | HY/2012/07 | 2018/11/19 | Mid-Flood | IS8 | 15:35 | 4.0 | Surface | 1 | 2 | 24.9 | 8.1 | 28.0 | 6.7 | 6.7 | 6.1 | | 9.6 | - |
| TMCLKL | HY/2012/07 | 2018/11/19 | Mid-Flood | IS8 | 15:35 | 4.0 | Middle | 2 | | | | | | 4 | | 6.2 | | 8.9 |
| TMCLKL | HY/2012/07 | 2018/11/19 | Mid-Flood | IS8 | 15:35 | 4.0 | Middle | 2 | 2 | 24.0 | 0.1 | 28.0 | 67 | | 6.2 | 4 | 0.5 | 4 |
| TMCLKL | HY/2012/07 | 2018/11/19 | Mid-Flood | IS8 | 15:35 | 4.0 | Bottom | 3 | 1 | 24.9 | 8.1 | 28.0 | 6.7 | 6.7 | 6.2 | 4 | 8.5 | 4 |
| TMCLKL | HY/2012/07 | 2018/11/19 | Mid-Flood | IS8 | 15:35 | 4.0 | Bottom | 3 | 2 | 24.9 | 8.1 | 28.0 | 6.7 | | 6.2 | | 8.2 | |
| TMCLKL | HY/2012/07 | 2018/11/19 | Mid-Flood | IS(Mf)9 | 15:27 | 3.1 | Surface | 1 | 1 | 24.9 | 8.1 | 28.8 | 6.7 | 4 | 6.8 | 4 | 5.1 4.5 | 4 |
| TMCLKL | HY/2012/07 | 2018/11/19 | Mid-Flood | IS(Mf)9 | 15:27 | 3.1 | Surface | 1 | 2 | 24.9 | 8.1 | 28.8 | 6.7 | 6.7 | 6.8 | 4 | 4.5 | 4 |
| TMCLKL | HY/2012/07 | 2018/11/19 | Mid-Flood | IS(Mf)9 | 15:27 | 3.1 | Middle | 2 | 1 | | | | | 4 | | 6.5 | | 5.8 |
| TMCLKL | HY/2012/07 | 2018/11/19 | Mid-Flood | IS(Mf)9 | 15:27 | 3.1 | Middle | 2 | 2 | 25.0 | 0 1 | 28.7 | 60 | | 6.0 | 4 | 7.0 | 4 |
| TMCLKL | HY/2012/07 | 2018/11/19 | Mid-Flood | IS(Mf)9 | 15:27 | 3.1 | Bottom | 3 | 1 | | 8.1 | | 6.8 | 6.8 | 6.0 | 4 | | 4 |
| TMCLKL | HY/2012/07 | 2018/11/19 | Mid-Flood | IS(Mf)9 | 15:27 | 3.1 | Bottom | 3 | 2 | 25.0 | 8.1 | 28.8 | 6.8 | | 6.4 | | 6.5 | |

| Project | Works | Date (yyyy-mm-dd) | Tide | Station | Start Time | Depth (m) | Level | Level Code | Replicate | Temperature (°C) | рН | Salinity (ppt) | DO (mg/L) | Average DO | Turbidity (NTU) | Depth-Averaged Turbidity | SS (mg/L) | Depth-Averaged SS |
|---------|------------|-------------------|---------|------------|------------|-----------|---------|------------|-----------|------------------|-----|----------------|-----------|------------|-----------------|-----------------------------|-----------|-------------------|
| TMCLKL | HY/2012/07 | 2018/11/21 | Mid-Ebb | CS(Mf)5 | 10:37 | 12.6 | Surface | 1 | 1 | 24.7 | 8.1 | 30.9 | 6.2 | | 3.6 | | 4.6 | |
| TMCLKL | HY/2012/07 | 2018/11/21 | Mid-Ebb | CS(Mf)5 | 10:37 | 12.6 | Surface | 1 | 2 | 24.6 | 8.1 | 30.1 | 6.1 | 6.1 | 3.8 | | 4.9 | |
| TMCLKL | HY/2012/07 | 2018/11/21 | Mid-Ebb | CS(Mf)5 | 10:37 | 12.6 | Middle | 2 | 1 | 24.6 | 8.1 | 31.2 | 5.9 | 0.1 | 3.9 | 4.6 | 6.7 | 6.1 |
| TMCLKL | HY/2012/07 | 2018/11/21 | Mid-Ebb | CS(Mf)5 | 10:37 | 12.6 | Middle | 2 | 2 | 24.5 | 8.1 | 30.4 | 6.0 |] [| 4.1 | 4.0 | 6.1 | 0.1 |
| TMCLKL | HY/2012/07 | 2018/11/21 | Mid-Ebb | CS(Mf)5 | 10:37 | 12.6 | Bottom | 3 | 1 | 24.5 | 8.1 | 31.5 | 5.9 | 6.0 | 6.2 | | 7.3 | |
| TMCLKL | HY/2012/07 | 2018/11/21 | Mid-Ebb | CS(Mf)5 | 10:37 | 12.6 | Bottom | 3 | 2 | 24.5 | 8.1 | 30.6 | 6.0 | 0.0 | 5.7 | | 7.0 | |
| TMCLKL | HY/2012/07 | 2018/11/21 | Mid-Ebb | CS(Mf)3(N) | 11:52 | 7.1 | Surface | 1 | 1 | 24.7 | 8.1 | 29.9 | 6.5 | | 7.3 | | 8.4 | |
| TMCLKL | HY/2012/07 | 2018/11/21 | Mid-Ebb | CS(Mf)3(N) | 11:52 | 7.1 | Surface | 1 | 2 | 24.3 | 8.1 | 30.2 | 6.5 | 6.5 | 7.3 | | 8.9 | |
| TMCLKL | HY/2012/07 | 2018/11/21 | Mid-Ebb | CS(Mf)3(N) | 11:52 | 7.1 | Middle | 2 | 1 | 24.5 | 8.1 | 30.1 | 6.5 | 0.5 | 9.0 | 9.2 | 9.4 | 9.7 |
| TMCLKL | HY/2012/07 | 2018/11/21 | Mid-Ebb | CS(Mf)3(N) | 11:52 | 7.1 | Middle | 2 | 2 | 24.2 | 8.1 | 30.5 | 6.5 |] [| 8.8 | 5.2 | 9.7 | 5.7 |
| TMCLKL | HY/2012/07 | 2018/11/21 | Mid-Ebb | CS(Mf)3(N) | 11:52 | 7.1 | Bottom | 3 | 1 | 24.4 | 8.1 | 30.4 | 6.5 | 6.5 | 11.1 | | 11.0 | |
| TMCLKL | HY/2012/07 | 2018/11/21 | Mid-Ebb | CS(Mf)3(N) | 11:52 | 7.1 | Bottom | 3 | 2 | 24.1 | 8.1 | 30.8 | 6.5 | 6.5 | 11.4 | | 10.5 | |
| TMCLKL | HY/2012/07 | 2018/11/21 | Mid-Ebb | IS(Mf)16 | 11:06 | 5.8 | Surface | 1 | 1 | 24.6 | 8.1 | 30.1 | 6.2 | | 11.2 | | 6.6 | |
| TMCLKL | HY/2012/07 | 2018/11/21 | Mid-Ebb | IS(Mf)16 | 11:06 | 5.8 | Surface | 1 | 2 | 24.6 | 8.1 | 29.3 | 6.3 | 6.3 | 11.9 | | 6.7 | |
| TMCLKL | HY/2012/07 | 2018/11/21 | Mid-Ebb | IS(Mf)16 | 11:06 | 5.8 | Middle | 2 | 1 | | | | | 0.5 | | 12.0 | | 6.1 |
| TMCLKL | HY/2012/07 | 2018/11/21 | Mid-Ebb | IS(Mf)16 | 11:06 | 5.8 | Middle | 2 | 2 | | | | | | | 12.0 | | 0.1 |
| TMCLKL | HY/2012/07 | 2018/11/21 | Mid-Ebb | IS(Mf)16 | 11:06 | 5.8 | Bottom | 3 | 1 | 24.5 | 8.1 | 30.3 | 6.1 | 6.2 | 12.3 | | 5.6 | |
| TMCLKL | HY/2012/07 | 2018/11/21 | Mid-Ebb | IS(Mf)16 | 11:06 | 5.8 | Bottom | 3 | 2 | 24.5 | 8.1 | 29.5 | 6.3 | 0.2 | 12.4 | | 5.3 | |
| TMCLKL | HY/2012/07 | 2018/11/21 | Mid-Ebb | SR4a | 11:15 | 5.3 | Surface | 1 | 1 | 24.6 | 8.1 | 30.1 | 6.0 | | 6.8 | | 15.2 | |
| TMCLKL | HY/2012/07 | 2018/11/21 | Mid-Ebb | SR4a | 11:15 | 5.3 | Surface | 1 | 2 | 24.6 | 8.1 | 29.4 | 6.1 | 6.1 | 6.0 | | 15.7 | |
| TMCLKL | HY/2012/07 | 2018/11/21 | Mid-Ebb | SR4a | 11:15 | 5.3 | Middle | 2 | 1 | | | | | 0.1 | | 7.1 | | 13.6 |
| TMCLKL | HY/2012/07 | 2018/11/21 | Mid-Ebb | SR4a | 11:15 | 5.3 | Middle | 2 | 2 | | | | | | | , | | 13.0 |
| TMCLKL | HY/2012/07 | 2018/11/21 | Mid-Ebb | SR4a | 11:15 | 5.3 | Bottom | 3 | 1 | 24.6 | 8.1 | 30.3 | 6.0 | 6.1 | 8.4 | | 12.3 | |
| TMCLKL | HY/2012/07 | 2018/11/21 | Mid-Ebb | SR4a | 11:15 | 5.3 | Bottom | 3 | 2 | 24.5 | 8.1 | 29.5 | 6.2 | 0.1 | 7.3 | | 11.2 | |
| TMCLKL | HY/2012/07 | 2018/11/21 | Mid-Ebb | SR4(N) | 11:20 | 4.4 | Surface | 1 | 1 | 24.7 | 8.1 | 29.8 | 6.1 | | 5.6 | | 4.9 | |
| TMCLKL | HY/2012/07 | 2018/11/21 | Mid-Ebb | SR4(N) | 11:20 | 4.4 | Surface | 1 | 2 | 24.6 | 8.1 | 29.0 | 6.3 | 6.2 | 5.2 | | 4.2 | |
| TMCLKL | HY/2012/07 | 2018/11/21 | Mid-Ebb | SR4(N) | 11:20 | 4.4 | Middle | 2 | 1 | | | | | 0.2 | | 5.5 | | 5.1 |
| TMCLKL | HY/2012/07 | 2018/11/21 | Mid-Ebb | SR4(N) | 11:20 | 4.4 | Middle | 2 | 2 | | | | | | | | | |
| | | 2018/11/21 | Mid-Ebb | SR4(N) | 11:20 | 4.4 | Bottom | 3 | 1 | 24.7 | 8.1 | 29.8 | 6.1 | 6.2 | 5.7 | | 5.4 | |
| TMCLKL | HY/2012/07 | 2018/11/21 | Mid-Ebb | SR4(N) | 11:20 | 4.4 | Bottom | 3 | 2 | 24.6 | 8.1 | 29.0 | 6.3 | | 5.3 | | 5.8 | |
| TMCLKL | HY/2012/07 | 2018/11/21 | Mid-Ebb | IS8 | 11:24 | 4.2 | Surface | 1 | 1 | 24.7 | 8.1 | 29.9 | 6.4 | | 5.4 | | 5.1 | |
| TMCLKL | HY/2012/07 | 2018/11/21 | Mid-Ebb | IS8 | 11:24 | 4.2 | Surface | 1 | 2 | 24.7 | 8.1 | 29.1 | 6.5 | 6.5 | 5.1 | | 5.2 | |
| TMCLKL | HY/2012/07 | 2018/11/21 | Mid-Ebb | IS8 | 11:24 | 4.2 | Middle | 2 | 1 | | | | | | | 5.2 | | 5.2 |
| TMCLKL | HY/2012/07 | 2018/11/21 | Mid-Ebb | IS8 | 11:24 | 4.2 | Middle | 2 | 2 | | | | | | | | | |
| TMCLKL | HY/2012/07 | 2018/11/21 | Mid-Ebb | IS8 | 11:24 | 4.2 | Bottom | 3 | 1 | 24.8 | 8.1 | 29.8 | 6.4 | 6.5 | 5.2 | | 5.2 | |
| TMCLKL | HY/2012/07 | 2018/11/21 | Mid-Ebb | IS8 | 11:24 | 4.2 | Bottom | 3 | 2 | 24.7 | 8.1 | 29.1 | 6.5 | | 5.0 | | 5.3 | |
| TMCLKL | HY/2012/07 | 2018/11/21 | Mid-Ebb | IS(Mf)9 | 11:32 | 3.3 | Surface | 1 | 1 | 24.6 | 8.1 | 29.7 | 6.5 | 4 | 9.1 | | 12.5 | |
| TMCLKL | HY/2012/07 | 2018/11/21 | Mid-Ebb | IS(Mf)9 | 11:32 | 3.3 | Surface | 1 | 2 | 24.6 | 8.1 | 28.9 | 6.6 | 6.6 | 8.0 | | 13.4 | |
| TMCLKL | HY/2012/07 | 2018/11/21 | Mid-Ebb | IS(Mf)9 | 11:32 | 3.3 | Middle | 2 | 1 | | | | | 4 | | 8.4 | | 11.9 |
| TMCLKL | HY/2012/07 | 2018/11/21 | Mid-Ebb | IS(Mf)9 | 11:32 | 3.3 | Middle | 2 | 2 | | | | | | | | | |
| | HY/2012/07 | 2018/11/21 | Mid-Ebb | IS(Mf)9 | 11:32 | 3.3 | Bottom | 3 | 1 | 24.7 | 8.1 | 29.7 | 6.5 | 6.6 | 8.7 | | 11.1 | |
| TMCLKL | HY/2012/07 | 2018/11/21 | Mid-Ebb | IS(Mf)9 | 11:32 | 3.3 | Bottom | 3 | 2 | 24.6 | 8.1 | 28.9 | 6.6 | | 7.6 | | 10.4 | |

| Project | Works | Date (yyyy-mm-dd) | Tide | Station | Start Time | Depth (m) | Level | Level Code | Replicate | Temperature (°C) | рН | Salinity (ppt) | DO (mg/L) | Average DO | Turbidity (NTU) | Depth-Averaged Turbidity | SS (mg/L) | Depth-Averaged SS |
|---------|------------|-------------------|-----------|------------|------------|-----------|---------|------------|-----------|------------------|-----|----------------|-----------|-------------------------|-----------------|-----------------------------|-----------|-------------------|
| TMCLKL | HY/2012/07 | 2018/11/21 | Mid-Flood | CS(Mf)5 | 17:10 | 12.2 | Surface | 1 | 1 | 24.8 | 8.1 | 30.6 | 6.2 | | 5.7 | | 7.1 | |
| TMCLKL | HY/2012/07 | 2018/11/21 | Mid-Flood | CS(Mf)5 | 17:10 | 12.2 | Surface | 1 | 2 | 24.8 | 8.1 | 29.8 | 6.3 | 6.2 | 5.3 | | 6.9 | |
| TMCLKL | HY/2012/07 | 2018/11/21 | Mid-Flood | CS(Mf)5 | 17:10 | 12.2 | Middle | 2 | 1 | 24.7 | 8.1 | 30.9 | 6.0 | 0.2 | 5.8 | 7.9 | 6.6 | 7.1 |
| TMCLKL | HY/2012/07 | 2018/11/21 | Mid-Flood | CS(Mf)5 | 17:10 | 12.2 | Middle | 2 | 2 | 24.7 | 8.1 | 30.1 | 6.1 |] [| 6.8 | 7.5 | 6.8 | /.1 |
| TMCLKL | HY/2012/07 | 2018/11/21 | Mid-Flood | CS(Mf)5 | 17:10 | 12.2 | Bottom | 3 | 1 | 24.6 | 8.1 | 31.1 | 5.9 | 6.0 | 11.9 | | 7.5 | |
| TMCLKL | HY/2012/07 | 2018/11/21 | Mid-Flood | CS(Mf)5 | 17:10 | 12.2 | Bottom | 3 | 2 | 24.6 | 8.1 | 30.3 | 6.1 | 0.0 | 11.6 | | 7.8 | |
| TMCLKL | HY/2012/07 | 2018/11/21 | Mid-Flood | CS(Mf)3(N) | 16:03 | 7.0 | Surface | 1 | 1 | 24.9 | 8.0 | 28.5 | 6.8 | | 5.0 | | 6.5 | |
| TMCLKL | HY/2012/07 | 2018/11/21 | Mid-Flood | CS(Mf)3(N) | 16:03 | 7.0 | Surface | 1 | 2 | 25.2 | 8.0 | 28.2 | 6.8 | 6.7 | 5.0 | | 6.0 | |
| TMCLKL | HY/2012/07 | 2018/11/21 | Mid-Flood | CS(Mf)3(N) | 16:03 | 7.0 | Middle | 2 | 1 | 24.7 | 8.0 | 29.1 | 6.6 | 0.7 | 7.7 | 74 | 7.8 | 8.0 |
| TMCLKL | HY/2012/07 | 2018/11/21 | Mid-Flood | CS(Mf)3(N) | 16:03 | 7.0 | Middle | 2 | 2 | 25.0 | 8.0 | 28.8 | 6.6 | | 7.6 | 7.4 | 8.0 | 8.0 |
| TMCLKL | HY/2012/07 | 2018/11/21 | Mid-Flood | CS(Mf)3(N) | 16:03 | 7.0 | Bottom | 3 | 1 | 24.5 | 8.0 | 29.5 | 6.5 | C F | 9.3 | | 10.3 | |
| TMCLKL | HY/2012/07 | 2018/11/21 | Mid-Flood | CS(Mf)3(N) | 16:03 | 7.0 | Bottom | 3 | 2 | 24.9 | 8.0 | 29.2 | 6.5 | 6.5 | 9.5 | | 9.5 | |
| TMCLKL | HY/2012/07 | 2018/11/21 | Mid-Flood | IS(Mf)16 | 16:44 | 5.7 | Surface | 1 | 1 | 24.8 | 8.2 | 30.2 | 6.3 | | 8.0 | | 4.5 | |
| TMCLKL | HY/2012/07 | 2018/11/21 | Mid-Flood | IS(Mf)16 | 16:44 | 5.7 | Surface | 1 | 2 | 24.8 | 8.2 | 29.4 | 6.5 | 6.4 | 7.2 | 1 | 4.4 | |
| TMCLKL | HY/2012/07 | 2018/11/21 | Mid-Flood | IS(Mf)16 | 16:44 | 5.7 | Middle | 2 | 1 | | | | | 6.4 | | 7.0 | | F 2 |
| TMCLKL | HY/2012/07 | 2018/11/21 | Mid-Flood | IS(Mf)16 | 16:44 | 5.7 | Middle | 2 | 2 | | | | | | | 7.8 | | 5.2 |
| TMCLKL | HY/2012/07 | 2018/11/21 | Mid-Flood | IS(Mf)16 | 16:44 | 5.7 | Bottom | 3 | 1 | 24.7 | 8.2 | 30.3 | 6.3 | 6.4 | 8.4 | | 5.8 | |
| TMCLKL | HY/2012/07 | 2018/11/21 | Mid-Flood | IS(Mf)16 | 16:44 | 5.7 | Bottom | 3 | 2 | 24.7 | 8.2 | 29.5 | 6.5 | 6.4 | 7.4 | 1 | 6.0 | |
| TMCLKL | HY/2012/07 | 2018/11/21 | Mid-Flood | SR4a | 16:33 | 4.6 | Surface | 1 | 1 | 25.1 | 8.1 | 30.2 | 6.3 | | 7.8 | | 8.5 | |
| TMCLKL | HY/2012/07 | 2018/11/21 | Mid-Flood | SR4a | 16:33 | 4.6 | Surface | 1 | 2 | 25.0 | 8.2 | 29.4 | 6.4 | 6.4 | 7.1 | 1 | 8.4 | |
| TMCLKL | HY/2012/07 | 2018/11/21 | Mid-Flood | SR4a | 16:33 | 4.6 | Middle | 2 | 1 | | | | | 6.4 | | 07 | | 8.0 |
| TMCLKL | HY/2012/07 | 2018/11/21 | Mid-Flood | SR4a | 16:33 | 4.6 | Middle | 2 | 2 | | | | | | | 8.7 | | 8.9 |
| TMCLKL | HY/2012/07 | 2018/11/21 | Mid-Flood | SR4a | 16:33 | 4.6 | Bottom | 3 | 1 | 25.0 | 8.2 | 30.3 | 6.2 | 6.3 | 10.5 | | 9.4 | |
| TMCLKL | HY/2012/07 | 2018/11/21 | Mid-Flood | SR4a | 16:33 | 4.6 | Bottom | 3 | 2 | 24.9 | 8.1 | 29.5 | 6.4 | 0.5 | 9.2 | | 9.1 | |
| TMCLKL | HY/2012/07 | 2018/11/21 | Mid-Flood | SR4(N) | 16:29 | 4.2 | Surface | 1 | 1 | 25.1 | 8.1 | 30.2 | 6.5 | | 5.5 | | 5.0 | |
| TMCLKL | HY/2012/07 | 2018/11/21 | Mid-Flood | SR4(N) | 16:29 | 4.2 | Surface | 1 | 2 | 25.0 | 8.2 | 29.4 | 6.6 | 6.6 | 5.3 | | 5.3 | |
| TMCLKL | HY/2012/07 | 2018/11/21 | Mid-Flood | SR4(N) | 16:29 | 4.2 | Middle | 2 | 1 | | | | | 0.0 | | 5.4 | | 5.8 |
| TMCLKL | HY/2012/07 | 2018/11/21 | Mid-Flood | SR4(N) | 16:29 | 4.2 | Middle | 2 | 2 | | | | | | | .4 | | 5.8 |
| TMCLKL | HY/2012/07 | 2018/11/21 | Mid-Flood | SR4(N) | 16:29 | 4.2 | Bottom | 3 | 1 | 25.1 | 8.2 | 30.2 | 6.5 | 6.6 | 5.5 | | 6.1 | |
| TMCLKL | HY/2012/07 | 2018/11/21 | Mid-Flood | SR4(N) | 16:29 | 4.2 | Bottom | 3 | 2 | 25.0 | 8.2 | 29.4 | 6.6 | 0.0 | 5.2 | | 6.9 | |
| TMCLKL | HY/2012/07 | 2018/11/21 | Mid-Flood | IS8 | 16:25 | 3.3 | Surface | 1 | 1 | 25.0 | 8.1 | 30.1 | 6.5 | | 5.6 | | 15.5 | |
| TMCLKL | HY/2012/07 | 2018/11/21 | Mid-Flood | IS8 | 16:25 | 3.3 | Surface | 1 | 2 | 25.0 | 8.2 | 29.3 | 6.7 | 6.6 | 5.2 | | 14.9 | |
| TMCLKL | HY/2012/07 | 2018/11/21 | Mid-Flood | IS8 | 16:25 | 3.3 | Middle | 2 | 1 | | | | | 0.0 | | 5.4 | | 15.0 |
| TMCLKL | HY/2012/07 | 2018/11/21 | Mid-Flood | IS8 | 16:25 | 3.3 | Middle | 2 | 2 | | | | | | | 5.4 | | 13.0 |
| TMCLKL | HY/2012/07 | 2018/11/21 | Mid-Flood | IS8 | 16:25 | 3.3 | Bottom | 3 | 1 | 25.0 | 8.2 | 30.1 | 6.5 | 6.6 | 5.5 | | 15.4 | |
| TMCLKL | HY/2012/07 | 2018/11/21 | Mid-Flood | IS8 | 16:25 | 3.3 | Bottom | 3 | 2 | 25.0 | 8.2 | 29.3 | 6.7 | 0.0 | 5.1 | | 14.3 | |
| TMCLKL | HY/2012/07 | 2018/11/21 | Mid-Flood | IS(Mf)9 | 16:17 | 2.9 | Surface | 1 | 1 | | | | | | | | | |
| TMCLKL | HY/2012/07 | 2018/11/21 | Mid-Flood | IS(Mf)9 | 16:17 | 2.9 | Surface | 1 | 2 | | | | | 64 | | | |] |
| TMCLKL | HY/2012/07 | 2018/11/21 | Mid-Flood | IS(Mf)9 | 16:17 | 2.9 | Middle | 2 | 1 | 24.8 | 8.1 | 29.9 | 6.3 | 6.4 <u>12.4</u> 10.8 | 12.4 | 11.6 | 7.2 | 7.2 |
| TMCLKL | HY/2012/07 | 2018/11/21 | Mid-Flood | IS(Mf)9 | 16:17 | 2.9 | Middle | 2 | 2 | 24.7 | 8.1 | 29.1 | 6.4 | | 10.8 | 11.0 | 7.2 | 1.2 |
| TMCLKL | HY/2012/07 | 2018/11/21 | Mid-Flood | IS(Mf)9 | 16:17 | 2.9 | Bottom | 3 | 1 | | | | | | | |] | |
| TMCLKL | HY/2012/07 | 2018/11/21 | Mid-Flood | IS(Mf)9 | 16:17 | 2.9 | Bottom | 3 | 2 | | | | | | | | | |

| Project | Works | Date (yyyy-mm-dd) | Tide | Station | Start Time | Depth (m) | Level | Level Code | Replicate | Temperature (°C) | рН | Salinity (ppt) | DO (mg/L) | Average DO | Turbidity (NTU) | Depth-Averaged Turbidity | SS (mg/L) | Depth-Averaged SS |
|---------|------------|-------------------|---------|------------|------------|-----------|---------|------------|-----------|------------------|-----|----------------|-----------|------------|-----------------|-----------------------------|-----------|-------------------|
| TMCLKL | HY/2012/07 | 2018/11/23 | Mid-Ebb | CS(Mf)5 | 11:58 | 9.2 | Surface | 1 | 1 | 24.1 | 8.0 | 31.7 | 6.2 | | 6.5 | | 10.3 | |
| TMCLKL | HY/2012/07 | 2018/11/23 | Mid-Ebb | CS(Mf)5 | 11:58 | 9.2 | Surface | 1 | 2 | 23.8 | 8.1 | 32.0 | 6.2 | 6.2 | 6.8 | | 10.7 | |
| TMCLKL | HY/2012/07 | 2018/11/23 | Mid-Ebb | CS(Mf)5 | 11:58 | 9.2 | Middle | 2 | 1 | 24.1 | 8.0 | 31.8 | 6.1 | 0.2 | 5.7 | 5.9 | 10.8 | 10.9 |
| TMCLKL | HY/2012/07 | 2018/11/23 | Mid-Ebb | CS(Mf)5 | 11:58 | 9.2 | Middle | 2 | 2 | 23.8 | 8.1 | 32.2 | 6.2 | | 5.9 | 5.5 | 10.4 | 10.9 |
| TMCLKL | HY/2012/07 | 2018/11/23 | Mid-Ebb | CS(Mf)5 | 11:58 | 9.2 | Bottom | 3 | 1 | 24.1 | 8.0 | 31.8 | 6.2 | 6.3 | 5.2 | | 11.7 | |
| TMCLKL | HY/2012/07 | 2018/11/23 | Mid-Ebb | CS(Mf)5 | 11:58 | 9.2 | Bottom | 3 | 2 | 23.8 | 8.1 | 32.2 | 6.3 | 0.5 | 5.0 | | 11.6 | |
| TMCLKL | HY/2012/07 | 2018/11/23 | Mid-Ebb | CS(Mf)3(N) | 12:54 | 7.1 | Surface | 1 | 1 | 23.8 | 8.2 | 30.1 | 6.7 | | 10.8 | | 9.3 | |
| TMCLKL | HY/2012/07 | 2018/11/23 | Mid-Ebb | CS(Mf)3(N) | 12:54 | 7.1 | Surface | 1 | 2 | 23.8 | 8.1 | 30.1 | 6.7 | 6.7 | 11.0 | | 9.2 | |
| TMCLKL | HY/2012/07 | 2018/11/23 | Mid-Ebb | CS(Mf)3(N) | 12:54 | 7.1 | Middle | 2 | 1 | 23.7 | 8.2 | 30.4 | 6.7 | 0.7 | 13.1 | 14.2 | 10.9 | 10.9 |
| TMCLKL | HY/2012/07 | 2018/11/23 | Mid-Ebb | CS(Mf)3(N) | 12:54 | 7.1 | Middle | 2 | 2 | 23.7 | 8.1 | 30.3 | 6.7 | | 13.4 | 14.2 | 11.2 | 10.9 |
| TMCLKL | HY/2012/07 | 2018/11/23 | Mid-Ebb | CS(Mf)3(N) | 12:54 | 7.1 | Bottom | 3 | 1 | 23.6 | 8.2 | 30.7 | 6.7 | 67 | 18.0 | | 13.0 | |
| TMCLKL | HY/2012/07 | 2018/11/23 | Mid-Ebb | CS(Mf)3(N) | 12:54 | 7.1 | Bottom | 3 | 2 | 23.6 | 8.1 | 30.7 | 6.7 | 6.7 | 18.6 | | 11.9 | |
| TMCLKL | HY/2012/07 | 2018/11/23 | Mid-Ebb | IS(Mf)16 | 12:32 | 6.3 | Surface | 1 | 1 | 23.9 | 8.1 | 30.8 | 6.5 | | 14.2 | | 12.5 | |
| TMCLKL | HY/2012/07 | 2018/11/23 | Mid-Ebb | IS(Mf)16 | 12:32 | 6.3 | Surface | 1 | 2 | 23.6 | 8.1 | 31.1 | 6.5 | сг | 14.2 | | 13.4 | |
| TMCLKL | HY/2012/07 | 2018/11/23 | Mid-Ebb | IS(Mf)16 | 12:32 | 6.3 | Middle | 2 | 1 | 23.9 | 8.1 | 30.8 | 6.5 | 6.5 | 13.6 | 1.1.1 | 15.0 | 15.3 |
| TMCLKL | HY/2012/07 | 2018/11/23 | Mid-Ebb | IS(Mf)16 | 12:32 | 6.3 | Middle | 2 | 2 | 23.6 | 8.1 | 31.1 | 6.5 | | 13.5 | 14.1 | 15.7 | 15.3 |
| TMCLKL | HY/2012/07 | 2018/11/23 | Mid-Ebb | IS(Mf)16 | 12:32 | 6.3 | Bottom | 3 | 1 | 23.9 | 8.1 | 30.8 | 6.5 | 6.6 | 14.6 | | 18.1 | |
| TMCLKL | HY/2012/07 | 2018/11/23 | Mid-Ebb | IS(Mf)16 | 12:32 | 6.3 | Bottom | 3 | 2 | 23.6 | 8.1 | 31.1 | 6.6 | 6.6 | 14.4 | | 17.2 | |
| TMCLKL | HY/2012/07 | 2018/11/23 | Mid-Ebb | SR4a | 12:44 | 4.1 | Surface | 1 | 1 | 23.8 | 8.1 | 30.3 | 6.5 | | 6.9 | | 10.0 | |
| TMCLKL | HY/2012/07 | 2018/11/23 | Mid-Ebb | SR4a | 12:44 | 4.1 | Surface | 1 | 2 | 23.5 | 8.1 | 30.7 | 6.5 | 6 F | 7.3 | | 10.9 | |
| TMCLKL | HY/2012/07 | 2018/11/23 | Mid-Ebb | SR4a | 12:44 | 4.1 | Middle | 2 | 1 | | | | | 6.5 | | 7.4 | | 9.7 |
| TMCLKL | HY/2012/07 | 2018/11/23 | Mid-Ebb | SR4a | 12:44 | 4.1 | Middle | 2 | 2 | | | | | | | 7.4 | | 9.7 |
| TMCLKL | HY/2012/07 | 2018/11/23 | Mid-Ebb | SR4a | 12:44 | 4.1 | Bottom | 3 | 1 | 23.8 | 8.1 | 30.4 | 6.5 | 6.6 | 7.6 | | 9.2 | |
| TMCLKL | HY/2012/07 | 2018/11/23 | Mid-Ebb | SR4a | 12:44 | 4.1 | Bottom | 3 | 2 | 23.4 | 8.1 | 30.7 | 6.6 | 0.0 | 7.7 | | 8.6 | |
| TMCLKL | HY/2012/07 | 2018/11/23 | Mid-Ebb | SR4(N) | 12:50 | 4.2 | Surface | 1 | 1 | 23.8 | 8.1 | 30.4 | 6.6 | | 10.7 | | 10.1 | |
| TMCLKL | HY/2012/07 | 2018/11/23 | Mid-Ebb | SR4(N) | 12:50 | 4.2 | Surface | 1 | 2 | 23.5 | 8.1 | 30.8 | 6.6 | 6.6 | 10.9 | | 10.3 | |
| TMCLKL | HY/2012/07 | 2018/11/23 | Mid-Ebb | SR4(N) | 12:50 | 4.2 | Middle | 2 | 1 | | | | | 0.0 | | 10.5 | | 11.4 |
| TMCLKL | HY/2012/07 | 2018/11/23 | Mid-Ebb | SR4(N) | 12:50 | 4.2 | Middle | 2 | 2 | | | | | | | 10.5 | | 11.4 |
| TMCLKL | HY/2012/07 | 2018/11/23 | Mid-Ebb | SR4(N) | 12:50 | 4.2 | Bottom | 3 | 1 | 23.8 | 8.0 | 30.4 | 6.8 | 6.8 | 10.2 | | 12.3 | |
| TMCLKL | HY/2012/07 | 2018/11/23 | Mid-Ebb | SR4(N) | 12:50 | 4.2 | Bottom | 3 | 2 | 23.4 | 8.1 | 30.7 | 6.8 | 0.8 | 10.1 | | 13.0 | |
| TMCLKL | HY/2012/07 | 2018/11/23 | Mid-Ebb | IS8 | 12:58 | 4.6 | Surface | 1 | 1 | 23.9 | 8.1 | 30.3 | 6.6 | | 11.6 | | 14.7 | |
| TMCLKL | HY/2012/07 | 2018/11/23 | Mid-Ebb | IS8 | 12:58 | 4.6 | Surface | 1 | 2 | 23.5 | 8.1 | 30.7 | 6.6 | 6.6 | 11.2 | | 15.5 | |
| TMCLKL | HY/2012/07 | 2018/11/23 | Mid-Ebb | IS8 | 12:58 | 4.6 | Middle | 2 | 1 | | | | | 0.0 | | 12.0 | | 15.6 |
| TMCLKL | HY/2012/07 | 2018/11/23 | Mid-Ebb | IS8 | 12:58 | 4.6 | Middle | 2 | 2 | | | | | | | 12.0 | | 13.0 |
| TMCLKL | HY/2012/07 | 2018/11/23 | Mid-Ebb | IS8 | 12:58 | 4.6 | Bottom | 3 | 1 | 23.8 | 8.0 | 30.5 | 6.8 | 6.8 | 12.8 | | 16.7 | ļ |
| TMCLKL | HY/2012/07 | 2018/11/23 | Mid-Ebb | IS8 | 12:58 | 4.6 | Bottom | 3 | 2 | 23.4 | 8.1 | 30.8 | 6.8 | 0.0 | 12.3 | | 15.4 | |
| TMCLKL | HY/2012/07 | 2018/11/23 | Mid-Ebb | IS(Mf)9 | 13:07 | 4.0 | Surface | 1 | 1 | 24.1 | 8.1 | 30.3 | 6.7 | | 8.3 | | 11.6 | |
| TMCLKL | HY/2012/07 | 2018/11/23 | Mid-Ebb | IS(Mf)9 | 13:07 | 4.0 | Surface | 1 | 2 | 23.6 | 8.1 | 30.7 | 6.6 | 6.7 | 8.5 | | 11.1 | |
| TMCLKL | HY/2012/07 | 2018/11/23 | Mid-Ebb | IS(Mf)9 | 13:07 | 4.0 | Middle | 2 | 1 | | | | | 0.7 | | 9.7 | | 10.9 |
| TMCLKL | HY/2012/07 | 2018/11/23 | Mid-Ebb | IS(Mf)9 | 13:07 | 4.0 | Middle | 2 | 2 | | | | | | | 5.7 | | 10.5 |
| TMCLKL | HY/2012/07 | 2018/11/23 | Mid-Ebb | IS(Mf)9 | 13:07 | 4.0 | Bottom | 3 | 1 | 23.7 | 8.1 | 30.4 | 6.7 | 6.7 | 11.1 | | 10.3 | |
| TMCLKL | HY/2012/07 | 2018/11/23 | Mid-Ebb | IS(Mf)9 | 13:07 | 4.0 | Bottom | 3 | 2 | 23.4 | 8.1 | 30.7 | 6.7 | 0.7 | 11.0 | | 10.7 | |

| Project | Works | Date (yyyy-mm-dd) | Tide | Station | Start Time | Depth (m) | Level | Level Code | Replicate | Temperature (°C) | рН | Salinity (ppt) | DO (mg/L) | Average DO | Turbidity (NTU) | Depth-Averaged Turbidity | SS (mg/L) | Depth-Averaged SS |
|---------|------------|-------------------|-----------|------------|------------|-----------|---------|------------|-----------|------------------|-----|----------------|-----------|------------|-----------------|-----------------------------|-----------|-------------------|
| TMCLKL | HY/2012/07 | 2018/11/23 | Mid-Flood | CS(Mf)5 | 18:03 | 12.7 | Surface | 1 | 1 | 24.1 | 8.1 | 31.3 | 6.3 | | 5.1 | | 7.5 | |
| TMCLKL | HY/2012/07 | 2018/11/23 | Mid-Flood | CS(Mf)5 | 18:03 | 12.7 | Surface | 1 | 2 | 23.8 | 8.1 | 31.7 | 6.2 | 6.2 | 5.0 | | 8.2 | |
| TMCLKL | HY/2012/07 | 2018/11/23 | Mid-Flood | CS(Mf)5 | 18:03 | 12.7 | Middle | 2 | 1 | 24.2 | 8.0 | 31.7 | 6.1 | 0.2 | 12.4 | 9.6 | 8.7 | 9.0 |
| TMCLKL | HY/2012/07 | 2018/11/23 | Mid-Flood | CS(Mf)5 | 18:03 | 12.7 | Middle | 2 | 2 | 23.8 | 8.1 | 32.1 | 6.1 | | 12.4 | 5.0 | 8.2 | 9.0 |
| TMCLKL | HY/2012/07 | 2018/11/23 | Mid-Flood | CS(Mf)5 | 18:03 | 12.7 | Bottom | 3 | 1 | 24.1 | 8.0 | 31.6 | 6.2 | 6.2 | 11.4 | | 10.8 | |
| TMCLKL | HY/2012/07 | 2018/11/23 | Mid-Flood | CS(Mf)5 | 18:03 | 12.7 | Bottom | 3 | 2 | 23.8 | 8.1 | 31.9 | 6.2 | 0.2 | 11.3 | | 10.6 | |
| TMCLKL | HY/2012/07 | 2018/11/23 | Mid-Flood | CS(Mf)3(N) | 17:01 | 7.0 | Surface | 1 | 1 | 24.0 | 8.1 | 29.9 | 6.6 | | 8.1 | | 9.4 | |
| TMCLKL | HY/2012/07 | 2018/11/23 | Mid-Flood | CS(Mf)3(N) | 17:01 | 7.0 | Surface | 1 | 2 | 24.0 | 8.0 | 29.9 | 6.6 | 6.6 | 7.7 | | 9.4 | |
| TMCLKL | HY/2012/07 | 2018/11/23 | Mid-Flood | CS(Mf)3(N) | 17:01 | 7.0 | Middle | 2 | 1 | 24.0 | 8.1 | 30.0 | 6.6 | 0.0 | 9.6 | 10.0 | 12.0 | 11.6 |
| TMCLKL | HY/2012/07 | 2018/11/23 | Mid-Flood | CS(Mf)3(N) | 17:01 | 7.0 | Middle | 2 | 2 | 24.0 | 8.0 | 29.9 | 6.6 | | 8.7 | 10.0 | 13.0 | 11.0 |
| TMCLKL | HY/2012/07 | 2018/11/23 | Mid-Flood | CS(Mf)3(N) | 17:01 | 7.0 | Bottom | 3 | 1 | 23.9 | 8.1 | 30.1 | 6.6 | 6.6 | 12.8 | | 12.4 | |
| TMCLKL | HY/2012/07 | 2018/11/23 | Mid-Flood | CS(Mf)3(N) | 17:01 | 7.0 | Bottom | 3 | 2 | 23.9 | 8.0 | 30.1 | 6.6 | 6.6 | 12.9 | | 13.3 | |
| TMCLKL | HY/2012/07 | 2018/11/23 | Mid-Flood | IS(Mf)16 | 17:34 | 5.8 | Surface | 1 | 1 | 23.9 | 8.1 | 30.8 | 6.5 | | 13.5 | | 16.8 | |
| TMCLKL | HY/2012/07 | 2018/11/23 | Mid-Flood | IS(Mf)16 | 17:34 | 5.8 | Surface | 1 | 2 | 23.6 | 8.2 | 31.1 | 6.5 | 65 | 13.7 | | 16.8 | |
| TMCLKL | HY/2012/07 | 2018/11/23 | Mid-Flood | IS(Mf)16 | 17:34 | 5.8 | Middle | 2 | 1 | | | | | 6.5 | | 12.9 | | 16.9 |
| TMCLKL | HY/2012/07 | 2018/11/23 | Mid-Flood | IS(Mf)16 | 17:34 | 5.8 | Middle | 2 | 2 | | | | | | | 12.9 | | 10.9 |
| TMCLKL | HY/2012/07 | 2018/11/23 | Mid-Flood | IS(Mf)16 | 17:34 | 5.8 | Bottom | 3 | 1 | 23.9 | 8.1 | 30.8 | 6.6 | 6.6 | 12.1 | | 17.4 | |
| TMCLKL | HY/2012/07 | 2018/11/23 | Mid-Flood | IS(Mf)16 | 17:34 | 5.8 | Bottom | 3 | 2 | 23.6 | 8.2 | 31.1 | 6.6 | 6.6 | 12.1 | | 16.7 | |
| TMCLKL | HY/2012/07 | 2018/11/23 | Mid-Flood | SR4a | 17:24 | 4.5 | Surface | 1 | 1 | 24.0 | 8.1 | 30.6 | 6.6 | | 12.3 | | 10.4 | |
| TMCLKL | HY/2012/07 | 2018/11/23 | Mid-Flood | SR4a | 17:24 | 4.5 | Surface | 1 | 2 | 23.7 | 8.2 | 30.9 | 6.7 | 6.7 | 12.4 | | 11.2 | |
| TMCLKL | HY/2012/07 | 2018/11/23 | Mid-Flood | SR4a | 17:24 | 4.5 | Middle | 2 | 1 | | | | | 0.7 | | 12.4 | | 12.3 |
| TMCLKL | HY/2012/07 | 2018/11/23 | Mid-Flood | SR4a | 17:24 | 4.5 | Middle | 2 | 2 | | | | | | | 12.4 | | 12.5 |
| TMCLKL | HY/2012/07 | 2018/11/23 | Mid-Flood | SR4a | 17:24 | 4.5 | Bottom | 3 | 1 | 24.0 | 8.1 | 30.6 | 6.7 | 6.7 | 12.5 | | 13.7 | |
| TMCLKL | HY/2012/07 | 2018/11/23 | Mid-Flood | SR4a | 17:24 | 4.5 | Bottom | 3 | 2 | 23.7 | 8.1 | 30.9 | 6.7 | 0.7 | 12.4 | | 14.0 | |
| TMCLKL | HY/2012/07 | 2018/11/23 | Mid-Flood | SR4(N) | 17:21 | 4.3 | Surface | 1 | 1 | 24.0 | 8.1 | 30.7 | 6.7 | | 8.5 | | 13.5 | |
| TMCLKL | HY/2012/07 | 2018/11/23 | Mid-Flood | SR4(N) | 17:21 | 4.3 | Surface | 1 | 2 | 23.7 | 8.1 | 31.0 | 6.7 | 6.7 | 8.6 | | 14.1 | |
| TMCLKL | HY/2012/07 | 2018/11/23 | Mid-Flood | SR4(N) | 17:21 | 4.3 | Middle | 2 | 1 | | | | | 0.7 | | 9.4 | | 14.4 |
| TMCLKL | HY/2012/07 | 2018/11/23 | Mid-Flood | SR4(N) | 17:21 | 4.3 | Middle | 2 | 2 | | | | | | | | | 14.4 |
| TMCLKL | HY/2012/07 | 2018/11/23 | Mid-Flood | SR4(N) | 17:21 | 4.3 | Bottom | 3 | 1 | 24.0 | 8.1 | 30.7 | 6.7 | 6.7 | 10.1 | | 15.4 | |
| TMCLKL | HY/2012/07 | 2018/11/23 | Mid-Flood | SR4(N) | 17:21 | 4.3 | Bottom | 3 | 2 | 23.7 | 8.1 | 31.0 | 6.7 | 0.7 | 10.2 | | 14.6 | |
| TMCLKL | HY/2012/07 | 2018/11/23 | Mid-Flood | IS8 | 17:17 | 4.1 | Surface | 1 | 1 | 24.0 | 8.1 | 30.6 | 6.7 | | 9.5 | | 10.0 | |
| TMCLKL | HY/2012/07 | 2018/11/23 | Mid-Flood | IS8 | 17:17 | 4.1 | Surface | 1 | 2 | 23.7 | 8.2 | 30.9 | 6.7 | 6.7 | 9.5 | | 10.7 | |
| TMCLKL | HY/2012/07 | 2018/11/23 | Mid-Flood | IS8 | 17:17 | 4.1 | Middle | 2 | 1 | | | | | 0.7 | | 9.0 | | 10.6 |
| TMCLKL | HY/2012/07 | 2018/11/23 | Mid-Flood | IS8 | 17:17 | 4.1 | Middle | 2 | 2 | | | | | | | | | 10.0 |
| TMCLKL | HY/2012/07 | 2018/11/23 | Mid-Flood | IS8 | 17:17 | 4.1 | Bottom | 3 | 1 | 24.0 | 8.1 | 30.6 | 6.7 | 6.7 | 8.8 | | 10.8 | |
| TMCLKL | HY/2012/07 | 2018/11/23 | Mid-Flood | IS8 | 17:17 | 4.1 | Bottom | 3 | 2 | 23.7 | 8.1 | 30.9 | 6.7 | 0.7 | 8.0 | | 11.0 | |
| TMCLKL | HY/2012/07 | 2018/11/23 | Mid-Flood | IS(Mf)9 | 17:09 | 3.2 | Surface | 1 | 1 | 23.9 | 8.1 | 30.5 | 6.5 | | 13.1 | | 15.1 | |
| TMCLKL | HY/2012/07 | 2018/11/23 | Mid-Flood | IS(Mf)9 | 17:09 | 3.2 | Surface | 1 | 2 | 23.6 | 8.1 | 30.8 | 6.5 | 6.5 | 13.0 | | 14.4 | |
| TMCLKL | HY/2012/07 | 2018/11/23 | Mid-Flood | IS(Mf)9 | 17:09 | 3.2 | Middle | 2 | 1 | | | | | 0.5 | | 13.2 | | 15.6 |
| TMCLKL | HY/2012/07 | 2018/11/23 | Mid-Flood | IS(Mf)9 | 17:09 | 3.2 | Middle | 2 | 2 | | | | | | | 10.2 | | 10.0 |
| TMCLKL | HY/2012/07 | 2018/11/23 | Mid-Flood | IS(Mf)9 | 17:09 | 3.2 | Bottom | 3 | 1 | 23.9 | 8.1 | 30.5 | 6.5 | 6.5 | 13.3 | | 16.1 | |
| TMCLKL | HY/2012/07 | 2018/11/23 | Mid-Flood | IS(Mf)9 | 17:09 | 3.2 | Bottom | 3 | 2 | 23.6 | 8.1 | 30.8 | 6.5 | 0.0 | 13.2 | | 16.9 | |

| Project | Works | Date (yyyy-mm-dd) | Tide | Station | Start Time | Depth (m) | Level | Level Code | Replicate | Temperature (°C) | рН | Salinity (ppt) | DO (mg/L) | Average DO | Turbidity (NTU) | Depth-Averaged Turbidity | SS (mg/L) | Depth-Averaged SS |
|---------|------------|-------------------|---------|------------|------------|-----------|---------|------------|-----------|------------------|-----|----------------|-----------|------------|-----------------|-----------------------------|-----------|-------------------|
| TMCLKL | HY/2012/07 | 2018/11/26 | Mid-Ebb | CS(Mf)5 | 15:05 | 14.0 | Surface | 1 | 1 | 23.1 | 8.1 | 31.0 | 6.4 | | 6.5 | | 7.5 | |
| TMCLKL | HY/2012/07 | 2018/11/26 | Mid-Ebb | CS(Mf)5 | 15:05 | 14.0 | Surface | 1 | 2 | 23.4 | 8.1 | 30.1 | 6.4 | 6.3 | 5.4 | | 7.0 | |
| TMCLKL | HY/2012/07 | 2018/11/26 | Mid-Ebb | CS(Mf)5 | 15:05 | 14.0 | Middle | 2 | 1 | 23.2 | 8.1 | 31.4 | 6.2 | 0.5 | 6.5 | 7.8 | 6.4 | 6.6 |
| TMCLKL | HY/2012/07 | 2018/11/26 | Mid-Ebb | CS(Mf)5 | 15:05 | 14.0 | Middle | 2 | 2 | 23.5 | 8.1 | 30.5 | 6.2 |] [| 5.4 | 7.0 | 6.3 | 0.0 |
| TMCLKL | HY/2012/07 | 2018/11/26 | Mid-Ebb | CS(Mf)5 | 15:05 | 14.0 | Bottom | 3 | 1 | 23.2 | 8.1 | 31.8 | 6.1 | 6.1 | 11.7 | | 6.1 | |
| TMCLKL | HY/2012/07 | 2018/11/26 | Mid-Ebb | CS(Mf)5 | 15:05 | 14.0 | Bottom | 3 | 2 | 23.6 | 8.1 | 30.9 | 6.1 | 0.1 | 11.5 | | 6.3 | |
| TMCLKL | HY/2012/07 | 2018/11/26 | Mid-Ebb | CS(Mf)3(N) | 13:49 | 7.3 | Surface | 1 | 1 | 23.3 | 7.9 | 30.0 | 6.4 | | 16.0 | | 15.0 | |
| TMCLKL | HY/2012/07 | 2018/11/26 | Mid-Ebb | CS(Mf)3(N) | 13:49 | 7.3 | Surface | 1 | 2 | 23.4 | 7.9 | 30.5 | 6.4 | 6.4 | 16.1 | | 15.2 | |
| TMCLKL | HY/2012/07 | 2018/11/26 | Mid-Ebb | CS(Mf)3(N) | 13:49 | 7.3 | Middle | 2 | 1 | 23.3 | 7.9 | 30.2 | 6.4 | 0.4 | 18.4 | 18.4 | 13.7 | 14.7 |
| TMCLKL | HY/2012/07 | 2018/11/26 | Mid-Ebb | CS(Mf)3(N) | 13:49 | 7.3 | Middle | 2 | 2 | 23.3 | 7.9 | 30.7 | 6.4 |] [| 18.7 | 10.4 | 14.5 | 14.7 |
| TMCLKL | HY/2012/07 | 2018/11/26 | Mid-Ebb | CS(Mf)3(N) | 13:49 | 7.3 | Bottom | 3 | 1 | 23.2 | 7.9 | 30.6 | 6.4 | 6.4 | 20.6 | | 14.5 | |
| TMCLKL | HY/2012/07 | 2018/11/26 | Mid-Ebb | CS(Mf)3(N) | 13:49 | 7.3 | Bottom | 3 | 2 | 23.2 | 7.9 | 31.1 | 6.4 | 0.4 | 20.8 | | 15.2 | |
| TMCLKL | HY/2012/07 | 2018/11/26 | Mid-Ebb | IS(Mf)16 | 14:33 | 5.4 | Surface | 1 | 1 | 22.8 | 8.1 | 30.9 | 6.5 | | 12.5 | | 15.9 | |
| TMCLKL | HY/2012/07 | 2018/11/26 | Mid-Ebb | IS(Mf)16 | 14:33 | 5.4 | Surface | 1 | 2 | 23.1 | 8.1 | 30.0 | 6.5 | 6.5 | 10.6 | | 16.5 | |
| TMCLKL | HY/2012/07 | 2018/11/26 | Mid-Ebb | IS(Mf)16 | 14:33 | 5.4 | Middle | 2 | 1 | | | | | 0.5 | | 11.6 | | 15.6 |
| TMCLKL | HY/2012/07 | 2018/11/26 | Mid-Ebb | IS(Mf)16 | 14:33 | 5.4 | Middle | 2 | 2 | | | | | | | 11.0 | | 15.0 |
| TMCLKL | HY/2012/07 | 2018/11/26 | Mid-Ebb | IS(Mf)16 | 14:33 | 5.4 | Bottom | 3 | 1 | 22.8 | 8.1 | 30.9 | 6.5 | 6.5 | 12.5 | | 14.8 | |
| TMCLKL | HY/2012/07 | 2018/11/26 | Mid-Ebb | IS(Mf)16 | 14:33 | 5.4 | Bottom | 3 | 2 | 23.1 | 8.1 | 30.0 | 6.5 | 0.5 | 10.6 | | 15.1 | |
| TMCLKL | HY/2012/07 | 2018/11/26 | Mid-Ebb | SR4a | 14:21 | 5.4 | Surface | 1 | 1 | 22.8 | 8.1 | 31.0 | 6.5 | | 7.1 | | 5.5 | |
| TMCLKL | HY/2012/07 | 2018/11/26 | Mid-Ebb | SR4a | 14:21 | 5.4 | Surface | 1 | 2 | 23.1 | 8.1 | 30.1 | 6.5 | 6.5 | 5.9 | | 6.0 | |
| TMCLKL | HY/2012/07 | 2018/11/26 | Mid-Ebb | SR4a | 14:21 | 5.4 | Middle | 2 | 1 | | | | | 0.5 | | 6.9 | | 6.6 |
| TMCLKL | HY/2012/07 | 2018/11/26 | Mid-Ebb | SR4a | 14:21 | 5.4 | Middle | 2 | 2 | | | | | | | 0.5 | | 0.0 |
| TMCLKL | HY/2012/07 | 2018/11/26 | Mid-Ebb | SR4a | 14:21 | 5.4 | Bottom | 3 | 1 | 22.8 | 8.1 | 31.0 | 6.6 | 6.6 | 7.9 | | 7.2 | |
| TMCLKL | HY/2012/07 | 2018/11/26 | Mid-Ebb | SR4a | 14:21 | 5.4 | Bottom | 3 | 2 | 23.1 | 8.1 | 30.1 | 6.6 | 0.0 | 6.6 | | 7.8 | |
| TMCLKL | HY/2012/07 | 2018/11/26 | Mid-Ebb | SR4(N) | 14:16 | 4.1 | Surface | 1 | 1 | 22.8 | 8.1 | 30.9 | 6.6 | | 8.8 | | 8.0 | |
| TMCLKL | HY/2012/07 | 2018/11/26 | Mid-Ebb | SR4(N) | 14:16 | 4.1 | Surface | 1 | 2 | 23.1 | 8.1 | 30.0 | 6.6 | 6.6 | 9.0 | | 8.0 | |
| TMCLKL | HY/2012/07 | 2018/11/26 | Mid-Ebb | SR4(N) | 14:16 | 4.1 | Middle | 2 | 1 | | | | | 0.0 | | 8.8 | | 7.9 |
| TMCLKL | HY/2012/07 | 2018/11/26 | Mid-Ebb | SR4(N) | 14:16 | 4.1 | Middle | 2 | 2 | | | | | | | | | , |
| TMCLKL | HY/2012/07 | 2018/11/26 | Mid-Ebb | SR4(N) | 14:16 | 4.1 | Bottom | 3 | 1 | 22.8 | 8.1 | 30.9 | 6.7 | 6.7 | 9.0 | | 7.8 | |
| TMCLKL | HY/2012/07 | 2018/11/26 | Mid-Ebb | SR4(N) | 14:16 | 4.1 | Bottom | 3 | 2 | 23.1 | 8.1 | 30.0 | 6.7 | 0.7 | 8.3 | | 7.8 | |
| TMCLKL | HY/2012/07 | 2018/11/26 | Mid-Ebb | IS8 | 14:07 | 4.6 | Surface | 1 | 1 | 22.8 | 8.1 | 30.9 | 6.5 | | 9.8 | | 11.1 | |
| TMCLKL | HY/2012/07 | 2018/11/26 | Mid-Ebb | IS8 | 14:07 | 4.6 | Surface | 1 | 2 | 23.2 | 8.1 | 30.1 | 6.5 | 6.5 | 9.4 | | 11.1 | |
| TMCLKL | HY/2012/07 | 2018/11/26 | Mid-Ebb | IS8 | 14:07 | 4.6 | Middle | 2 | 1 | | | | | | | 10.0 | | 10.8 |
| TMCLKL | HY/2012/07 | 2018/11/26 | Mid-Ebb | IS8 | 14:07 | 4.6 | Middle | 2 | 2 | | | | | | | | | |
| TMCLKL | HY/2012/07 | 2018/11/26 | Mid-Ebb | IS8 | 14:07 | 4.6 | Bottom | 3 | 1 | 22.8 | 8.1 | 31.0 | 6.6 | 6.7 | 10.5 | | 10.1 | |
| TMCLKL | HY/2012/07 | 2018/11/26 | Mid-Ebb | IS8 | 14:07 | 4.6 | Bottom | 3 | 2 | 23.1 | 8.1 | 30.1 | 6.7 | 0.7 | 10.4 | | 10.8 | |
| TMCLKL | HY/2012/07 | 2018/11/26 | Mid-Ebb | IS(Mf)9 | 14:00 | 2.9 | Surface | 1 | 1 | | | | | | | | | |
| TMCLKL | HY/2012/07 | 2018/11/26 | Mid-Ebb | IS(Mf)9 | 14:00 | 2.9 | Surface | 1 | 2 | | | | | 6.5 | | | | |
| TMCLKL | HY/2012/07 | 2018/11/26 | Mid-Ebb | IS(Mf)9 | 14:00 | 2.9 | Middle | 2 | 1 | 22.8 | 8.1 | 31.0 | 6.5 | | 13.2 | 13.6 | 14.4 | 15.0 |
| TMCLKL | HY/2012/07 | 2018/11/26 | Mid-Ebb | IS(Mf)9 | 14:00 | 2.9 | Middle | 2 | 2 | 23.1 | 8.1 | 30.2 | 6.4 | 13.2 13.6 | 15.5 | | | |
| | HY/2012/07 | 2018/11/26 | Mid-Ebb | IS(Mf)9 | 14:00 | 2.9 | Bottom | 3 | 1 | | | | | | | | | |
| TMCLKL | HY/2012/07 | 2018/11/26 | Mid-Ebb | IS(Mf)9 | 14:00 | 2.9 | Bottom | 3 | 2 | | | | | | | | | |

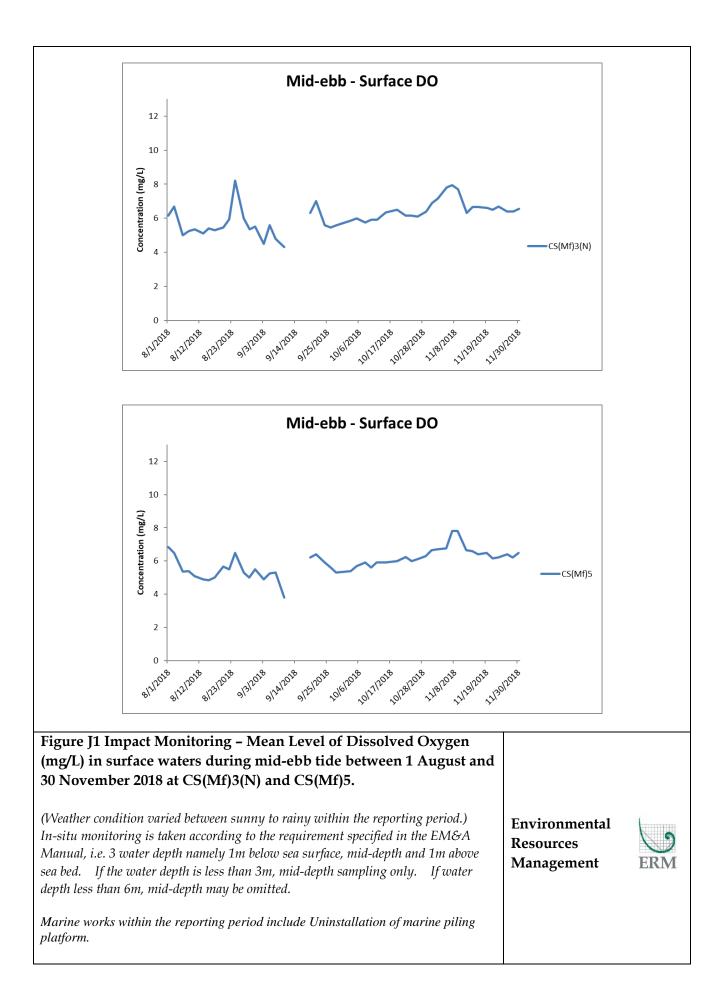
| Project | Works | Date (yyyy-mm-dd) | Tide | Station | Start Time | Depth (m) | Level | Level Code | Replicate | Temperature (°C) | рН | Salinity (ppt) | DO (mg/L) | Average DO | Turbidity (NTU) | Depth-Averaged Turbidity | SS (mg/L) | Depth-Averaged SS |
|---------|------------|-------------------|-----------|------------|------------|-----------|---------|------------|-----------|------------------|-----|----------------|-----------|------------|-----------------|-----------------------------|-----------|-------------------|
| TMCLKL | HY/2012/07 | 2018/11/26 | Mid-Flood | CS(Mf)5 | 9:07 | 12.1 | Surface | 1 | 1 | 23.4 | 8.1 | 30.1 | 6.4 | | 7.3 | | 9.5 | |
| TMCLKL | HY/2012/07 | 2018/11/26 | Mid-Flood | CS(Mf)5 | 9:07 | 12.1 | Surface | 1 | 2 | 23.1 | 8.1 | 30.9 | 6.4 | 6.4 | 8.8 | | 9.5 | |
| TMCLKL | HY/2012/07 | 2018/11/26 | Mid-Flood | CS(Mf)5 | 9:07 | 12.1 | Middle | 2 | 1 | 23.2 | 8.1 | 30.0 | 6.4 | 0.4 | 8.9 | 8.5 | 9.4 | 9.5 |
| TMCLKL | HY/2012/07 | 2018/11/26 | Mid-Flood | CS(Mf)5 | 9:07 | 12.1 | Middle | 2 | 2 | 22.9 | 8.1 | 30.9 | 6.4 | | 8.1 | 0.5 | 9.6 | 9.5 |
| TMCLKL | HY/2012/07 | 2018/11/26 | Mid-Flood | CS(Mf)5 | 9:07 | 12.1 | Bottom | 3 | 1 | 23.2 | 8.1 | 30.0 | 6.4 | 6.4 | 9.0 | | 9.3 | |
| TMCLKL | HY/2012/07 | 2018/11/26 | Mid-Flood | CS(Mf)5 | 9:07 | 12.1 | Bottom | 3 | 2 | 22.9 | 8.1 | 30.9 | 6.4 | 6.4 | 8.9 | | 9.5 | |
| TMCLKL | HY/2012/07 | 2018/11/26 | Mid-Flood | CS(Mf)3(N) | 10:09 | 7.5 | Surface | 1 | 1 | 23.3 | 7.9 | 30.6 | 6.5 | | 15.7 | | 14.7 | |
| TMCLKL | HY/2012/07 | 2018/11/26 | Mid-Flood | CS(Mf)3(N) | 10:09 | 7.5 | Surface | 1 | 2 | 23.3 | 7.8 | 31.1 | 6.5 | сг | 15.3 | | 15.0 | |
| TMCLKL | HY/2012/07 | 2018/11/26 | Mid-Flood | CS(Mf)3(N) | 10:09 | 7.5 | Middle | 2 | 1 | | | | | 6.5 | | 17.9 | 18.4 | 17.5 |
| TMCLKL | HY/2012/07 | 2018/11/26 | Mid-Flood | CS(Mf)3(N) | 10:09 | 7.5 | Middle | 2 | 2 | | | | | | | 17.9 | 17.6 | 17.5 |
| TMCLKL | HY/2012/07 | 2018/11/26 | Mid-Flood | CS(Mf)3(N) | 10:09 | 7.5 | Bottom | 3 | 1 | 23.4 | 7.9 | 29.6 | 6.2 | 6.2 | 20.5 | | 20.1 | |
| TMCLKL | HY/2012/07 | 2018/11/26 | Mid-Flood | CS(Mf)3(N) | 10:09 | 7.5 | Bottom | 3 | 2 | 23.4 | 7.8 | 30.0 | 6.1 | 6.2 | 20.0 | | 19.0 | |
| TMCLKL | HY/2012/07 | 2018/11/26 | Mid-Flood | IS(Mf)16 | 9:31 | 5.5 | Surface | 1 | 1 | 23.1 | 8.1 | 30.1 | 6.5 | | 14.1 | | 10.1 | |
| TMCLKL | HY/2012/07 | 2018/11/26 | Mid-Flood | IS(Mf)16 | 9:31 | 5.5 | Surface | 1 | 2 | 22.7 | 8.1 | 31.0 | 6.4 | сг | 14.3 | | 10.0 | |
| TMCLKL | HY/2012/07 | 2018/11/26 | Mid-Flood | IS(Mf)16 | 9:31 | 5.5 | Middle | 2 | 1 | | | | | 6.5 | | 15.2 | | 9.6 |
| TMCLKL | HY/2012/07 | 2018/11/26 | Mid-Flood | IS(Mf)16 | 9:31 | 5.5 | Middle | 2 | 2 | | | | | | | 15.3 | | 5.0 |
| TMCLKL | HY/2012/07 | 2018/11/26 | Mid-Flood | IS(Mf)16 | 9:31 | 5.5 | Bottom | 3 | 1 | 23.1 | 8.1 | 30.1 | 6.5 | C F | 16.7 | 1 | 9.5 | |
| TMCLKL | HY/2012/07 | 2018/11/26 | Mid-Flood | IS(Mf)16 | 9:31 | 5.5 | Bottom | 3 | 2 | 22.7 | 8.1 | 31.0 | 6.4 | 6.5 | 16.2 | 1 | 8.8 | |
| TMCLKL | HY/2012/07 | 2018/11/26 | Mid-Flood | SR4a | 9:39 | 4.6 | Surface | 1 | 1 | 23.1 | 8.2 | 30.1 | 6.5 | | 12.6 | | 13.4 | |
| TMCLKL | HY/2012/07 | 2018/11/26 | Mid-Flood | SR4a | 9:39 | 4.6 | Surface | 1 | 2 | 22.8 | 8.1 | 30.9 | 6.5 | 6 F | 12.5 |] | 13.8 | |
| TMCLKL | HY/2012/07 | 2018/11/26 | Mid-Flood | SR4a | 9:39 | 4.6 | Middle | 2 | 1 | | | | | 6.5 | | 14.6 | | 13.6 |
| TMCLKL | HY/2012/07 | 2018/11/26 | Mid-Flood | SR4a | 9:39 | 4.6 | Middle | 2 | 2 | | | | | | | | | 13.0 |
| TMCLKL | HY/2012/07 | 2018/11/26 | Mid-Flood | SR4a | 9:39 | 4.6 | Bottom | 3 | 1 | 23.1 | 8.2 | 30.1 | 6.6 | 6.6 | 16.8 | | 13.5 | |
| TMCLKL | HY/2012/07 | 2018/11/26 | Mid-Flood | SR4a | 9:39 | 4.6 | Bottom | 3 | 2 | 22.7 | 8.1 | 31.0 | 6.6 | 0.0 | 16.4 | | 13.5 | <u> </u> |
| TMCLKL | HY/2012/07 | 2018/11/26 | Mid-Flood | SR4(N) | 9:44 | 4.0 | Surface | 1 | 1 | 23.1 | 8.2 | 30.1 | 6.4 | | 12.5 | | 11.8 | |
| TMCLKL | HY/2012/07 | 2018/11/26 | Mid-Flood | SR4(N) | 9:44 | 4.0 | Surface | 1 | 2 | 22.8 | 8.1 | 31.0 | 6.4 | 6.4 | 12.0 | | 11.0 | |
| TMCLKL | HY/2012/07 | 2018/11/26 | Mid-Flood | SR4(N) | 9:44 | 4.0 | Middle | 2 | 1 | | | | | 0.4 | | 12.4 | | 11.9 |
| TMCLKL | HY/2012/07 | 2018/11/26 | Mid-Flood | SR4(N) | 9:44 | 4.0 | Middle | 2 | 2 | | | | | | | 12.4 | | 11.5 |
| TMCLKL | HY/2012/07 | 2018/11/26 | Mid-Flood | SR4(N) | 9:44 | 4.0 | Bottom | 3 | 1 | 23.1 | 8.2 | 30.1 | 6.4 | 6.4 | 12.5 | | 12.5 | |
| TMCLKL | HY/2012/07 | 2018/11/26 | Mid-Flood | SR4(N) | 9:44 | 4.0 | Bottom | 3 | 2 | 22.8 | 8.1 | 31.0 | 6.4 | 0.4 | 12.4 | | 12.2 | |
| TMCLKL | HY/2012/07 | 2018/11/26 | Mid-Flood | IS8 | 9:49 | 3.4 | Surface | 1 | 1 | 23.1 | 8.1 | 30.0 | 6.5 | | 9.7 | | 12.9 | |
| TMCLKL | HY/2012/07 | 2018/11/26 | Mid-Flood | IS8 | 9:49 | 3.4 | Surface | 1 | 2 | 22.8 | 8.1 | 30.9 | 6.5 | 6.5 | 12.0 | ļ | 12.3 | |
| TMCLKL | HY/2012/07 | 2018/11/26 | Mid-Flood | IS8 | 9:49 | 3.4 | Middle | 2 | 1 | | | | | 0.5 | | 11.8 | | 12.6 |
| TMCLKL | HY/2012/07 | 2018/11/26 | Mid-Flood | IS8 | 9:49 | 3.4 | Middle | 2 | 2 | | | | | | | 11.0 | | 12.0 |
| TMCLKL | HY/2012/07 | 2018/11/26 | Mid-Flood | IS8 | 9:49 | 3.4 | Bottom | 3 | 1 | 23.1 | 8.1 | 30.0 | 6.5 | 6.5 | 12.8 | | 12.0 | |
| TMCLKL | HY/2012/07 | 2018/11/26 | Mid-Flood | IS8 | 9:49 | 3.4 | Bottom | 3 | 2 | 22.8 | 8.1 | 30.9 | 6.5 | 0.5 | 12.7 | | 13.1 | |
| TMCLKL | HY/2012/07 | 2018/11/26 | Mid-Flood | IS(Mf)9 | 9:57 | 2.9 | Surface | 1 | 1 | | | | | | | | | |
| TMCLKL | HY/2012/07 | 2018/11/26 | Mid-Flood | IS(Mf)9 | 9:57 | 2.9 | Surface | 1 | 2 | | | | | 6.4 | | | | |
| TMCLKL | HY/2012/07 | 2018/11/26 | Mid-Flood | IS(Mf)9 | 9:57 | 2.9 | Middle | 2 | 1 | 23.2 | 8.1 | 30.2 | 6.4 | 0.4 | 9.4 | 10.5 | 16.1 | 15.6 |
| TMCLKL | HY/2012/07 | 2018/11/26 | Mid-Flood | IS(Mf)9 | 9:57 | 2.9 | Middle | 2 | 2 | 22.9 | 8.1 | 31.1 | 6.4 | | 11.5 | 10.5 | 15.0 | 15.6 |
| TMCLKL | HY/2012/07 | 2018/11/26 | Mid-Flood | IS(Mf)9 | 9:57 | 2.9 | Bottom | 3 | 1 | | | | | | | | | |
| TMCLKL | HY/2012/07 | 2018/11/26 | Mid-Flood | IS(Mf)9 | 9:57 | 2.9 | Bottom | 3 | 2 | | | | | | | | | |

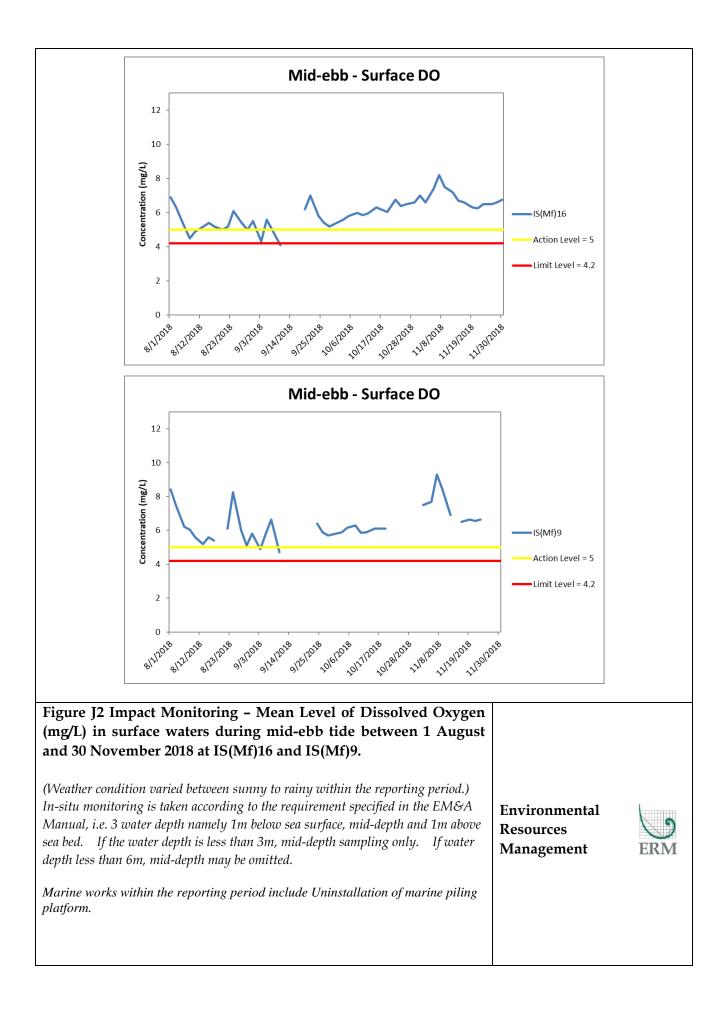
| Project | Works | Date (yyyy-mm-dd) | Tide | Station | Start Time | Depth (m) | Level | Level Code | Replicate | Temperature (°C) | рН | Salinity (ppt) | DO (mg/L) | Average DO | Turbidity (NTU) | Depth-Averaged Turbidity | SS (mg/L) | Depth-Averaged SS |
|---------|------------|-------------------|---------|------------|------------|-----------|---------|------------|-----------|------------------|-----|----------------|-----------|------------|-----------------|-----------------------------|-----------|-------------------|
| TMCLKL | HY/2012/07 | 2018/11/28 | Mid-Ebb | CS(Mf)5 | 17:14 | 12.5 | Surface | 1 | 1 | 23.1 | 8.0 | 30.7 | 6.2 | | 9.3 | | 7.6 | |
| TMCLKL | HY/2012/07 | 2018/11/28 | Mid-Ebb | CS(Mf)5 | 17:14 | 12.5 | Surface | 1 | 2 | 23.1 | 8.0 | 30.7 | 6.2 | 6.2 | 9.1 | | 7.5 | |
| TMCLKL | HY/2012/07 | 2018/11/28 | Mid-Ebb | CS(Mf)5 | 17:14 | 12.5 | Middle | 2 | 1 | 23.2 | 8.0 | 31.0 | 6.1 | 0.2 | 12.2 | 11.0 | 7.7 | 8.1 |
| TMCLKL | HY/2012/07 | 2018/11/28 | Mid-Ebb | CS(Mf)5 | 17:14 | 12.5 | Middle | 2 | 2 | 23.2 | 8.0 | 30.9 | 6.1 | | 12.4 | 11.0 | 8.1 | 0.1 |
| TMCLKL | HY/2012/07 | 2018/11/28 | Mid-Ebb | CS(Mf)5 | 17:14 | 12.5 | Bottom | 3 | 1 | 23.2 | 8.0 | 31.1 | 6.2 | 6.2 | 11.4 | | 8.9 | |
| TMCLKL | HY/2012/07 | 2018/11/28 | Mid-Ebb | CS(Mf)5 | 17:14 | 12.5 | Bottom | 3 | 2 | 23.2 | 8.0 | 31.1 | 6.2 | 0.2 | 11.4 | | 9.0 | |
| TMCLKL | HY/2012/07 | 2018/11/28 | Mid-Ebb | CS(Mf)3(N) | 16:24 | 7.1 | Surface | 1 | 1 | 23.1 | 7.9 | 28.4 | 6.4 | | 10.9 | | 10.7 | |
| TMCLKL | HY/2012/07 | 2018/11/28 | Mid-Ebb | CS(Mf)3(N) | 16:24 | 7.1 | Surface | 1 | 2 | 23.1 | 7.9 | 28.4 | 6.4 | 6.5 | 10.9 | | 11.0 | |
| TMCLKL | HY/2012/07 | 2018/11/28 | Mid-Ebb | CS(Mf)3(N) | 16:24 | 7.1 | Middle | 2 | 1 | 22.9 | 8.0 | 29.7 | 6.6 | 0.5 | 11.7 | 12.0 | 10.6 | 11.1 |
| TMCLKL | HY/2012/07 | 2018/11/28 | Mid-Ebb | CS(Mf)3(N) | 16:24 | 7.1 | Middle | 2 | 2 | 22.9 | 8.0 | 29.5 | 6.6 | | 11.7 | 12.0 | 11.4 | 11.1 |
| TMCLKL | HY/2012/07 | 2018/11/28 | Mid-Ebb | CS(Mf)3(N) | 16:24 | 7.1 | Bottom | 3 | 1 | 22.9 | 8.0 | 29.9 | 6.7 | 6.7 | 13.4 | | 11.0 | |
| TMCLKL | HY/2012/07 | 2018/11/28 | Mid-Ebb | CS(Mf)3(N) | 16:24 | 7.1 | Bottom | 3 | 2 | 22.9 | 8.0 | 29.9 | 6.7 | 0.7 | 13.4 | | 12.0 | |
| TMCLKL | HY/2012/07 | 2018/11/28 | Mid-Ebb | IS(Mf)16 | 15:45 | 5.5 | Surface | 1 | 1 | 22.9 | 8.0 | 30.1 | 6.6 | | 13.6 | | 18.3 | |
| TMCLKL | HY/2012/07 | 2018/11/28 | Mid-Ebb | IS(Mf)16 | 15:45 | 5.5 | Surface | 1 | 2 | 22.9 | 8.0 | 30.1 | 6.6 | 6.6 | 13.6 | | 19.6 | |
| TMCLKL | HY/2012/07 | 2018/11/28 | Mid-Ebb | IS(Mf)16 | 15:45 | 5.5 | Middle | 2 | 1 | | | | | 0.0 | | 13.8 | | 19.5 |
| TMCLKL | HY/2012/07 | 2018/11/28 | Mid-Ebb | IS(Mf)16 | 15:45 | 5.5 | Middle | 2 | 2 | | | | | | | 13.0 | | 15.5 |
| TMCLKL | HY/2012/07 | 2018/11/28 | Mid-Ebb | IS(Mf)16 | 15:45 | 5.5 | Bottom | 3 | 1 | 22.9 | 8.0 | 30.1 | 6.7 | 6.7 | 13.9 | | 20.3 | |
| TMCLKL | HY/2012/07 | 2018/11/28 | Mid-Ebb | IS(Mf)16 | 15:45 | 5.5 | Bottom | 3 | 2 | 22.9 | 8.0 | 30.1 | 6.7 | 0.7 | 13.9 | | 19.8 | |
| TMCLKL | HY/2012/07 | 2018/11/28 | Mid-Ebb | SR4a | 15:35 | 4.5 | Surface | 1 | 1 | 23.0 | 8.1 | 30.2 | 6.3 | | 10.8 | | 10.3 | |
| TMCLKL | HY/2012/07 | 2018/11/28 | Mid-Ebb | SR4a | 15:35 | 4.5 | Surface | 1 | 2 | 23.0 | 8.1 | 30.2 | 6.3 | 6.3 | 10.8 | 10.9 | 9.3 | |
| TMCLKL | HY/2012/07 | 2018/11/28 | Mid-Ebb | SR4a | 15:35 | 4.5 | Middle | 2 | 1 | | | | | | | | | 9.1 |
| TMCLKL | HY/2012/07 | 2018/11/28 | Mid-Ebb | SR4a | 15:35 | 4.5 | Middle | 2 | 2 | | | | | | | | | |
| TMCLKL | HY/2012/07 | 2018/11/28 | Mid-Ebb | SR4a | 15:35 | 4.5 | Bottom | 3 | 1 | 23.0 | 8.1 | 30.3 | 6.3 | 6.3 | 10.9 | | 8.0 | |
| TMCLKL | HY/2012/07 | 2018/11/28 | Mid-Ebb | SR4a | 15:35 | 4.5 | Bottom | 3 | 2 | 23.0 | 8.1 | 30.3 | 6.3 | 0.5 | 10.9 | | 8.8 | |
| TMCLKL | HY/2012/07 | 2018/11/28 | Mid-Ebb | SR4(N) | 15:31 | 4.2 | Surface | 1 | 1 | 22.9 | 8.0 | 30.3 | 6.3 |] | 10.8 | | 14.3 | 13.0 |
| TMCLKL | HY/2012/07 | 2018/11/28 | Mid-Ebb | SR4(N) | 15:31 | 4.2 | Surface | 1 | 2 | 22.9 | 8.0 | 30.3 | 6.3 | 6.3 | 10.7 | | 13.5 | |
| TMCLKL | HY/2012/07 | 2018/11/28 | Mid-Ebb | SR4(N) | 15:31 | 4.2 | Middle | 2 | 1 | | | | | 0.5 | | 10.9 | | |
| TMCLKL | HY/2012/07 | 2018/11/28 | Mid-Ebb | SR4(N) | 15:31 | 4.2 | Middle | 2 | 2 | | | | | | | 10.0 | | 10.0 |
| TMCLKL | HY/2012/07 | 2018/11/28 | Mid-Ebb | SR4(N) | 15:31 | 4.2 | Bottom | 3 | 1 | 22.9 | 8.0 | 30.3 | 6.4 | 6.4 | 11.0 | | 12.2 | |
| TMCLKL | HY/2012/07 | 2018/11/28 | Mid-Ebb | SR4(N) | 15:31 | 4.2 | Bottom | 3 | 2 | 22.9 | 8.0 | 30.3 | 6.3 | 0.1 | 10.9 | | 11.8 | |
| TMCLKL | HY/2012/07 | 2018/11/28 | Mid-Ebb | IS8 | 15:24 | 4.2 | Surface | 1 | 1 | 23.0 | 8.0 | 30.3 | 6.3 | | 13.6 | | 10.2 | - |
| TMCLKL | HY/2012/07 | 2018/11/28 | Mid-Ebb | IS8 | 15:24 | 4.2 | Surface | 1 | 2 | 23.0 | 8.0 | 30.2 | 6.3 | 6.3 | 13.5 | | 11.3 | - |
| TMCLKL | HY/2012/07 | 2018/11/28 | Mid-Ebb | IS8 | 15:24 | 4.2 | Middle | 2 | 1 | | | | | 0.0 | | 13.6 | | 11.6 |
| TMCLKL | HY/2012/07 | 2018/11/28 | Mid-Ebb | IS8 | 15:24 | 4.2 | Middle | 2 | 2 | | | | | | | 20.0 | | |
| TMCLKL | HY/2012/07 | 2018/11/28 | Mid-Ebb | IS8 | 15:24 | 4.2 | Bottom | 3 | 1 | 23.0 | 8.0 | 30.3 | 6.3 | 6.3 | 13.7 | | 12.1 | |
| TMCLKL | HY/2012/07 | 2018/11/28 | Mid-Ebb | IS8 | 15:24 | 4.2 | Bottom | 3 | 2 | 23.0 | 8.0 | 30.3 | 6.3 | 0.0 | 13.7 | | 12.7 | |
| TMCLKL | HY/2012/07 | 2018/11/28 | Mid-Ebb | IS(Mf)9 | 15:17 | 4.1 | Surface | 1 | 1 | 22.9 | 8.0 | 30.3 | 6.4 | 4 | 12.3 | | 10.0 | |
| TMCLKL | HY/2012/07 | 2018/11/28 | Mid-Ebb | IS(Mf)9 | 15:17 | 4.1 | Surface | 1 | 2 | 22.9 | 8.0 | 30.3 | 6.4 | 6.4 | 12.2 | | 10.3 | |
| TMCLKL | HY/2012/07 | 2018/11/28 | Mid-Ebb | IS(Mf)9 | 15:17 | 4.1 | Middle | 2 | 1 | | | | | | | 13.7 | | 10.8 |
| TMCLKL | HY/2012/07 | 2018/11/28 | Mid-Ebb | IS(Mf)9 | 15:17 | 4.1 | Middle | 2 | 2 | | | | | | | 2017 | | |
| TMCLKL | HY/2012/07 | 2018/11/28 | Mid-Ebb | IS(Mf)9 | 15:17 | 4.1 | Bottom | 3 | 1 | 22.9 | 8.0 | 30.3 | 6.4 | 6.4 | 15.1 | | 11.8 | |
| TMCLKL | HY/2012/07 | 2018/11/28 | Mid-Ebb | IS(Mf)9 | 15:17 | 4.1 | Bottom | 3 | 2 | 22.9 | 8.0 | 30.3 | 6.3 | | 15.1 | | 11.1 | |

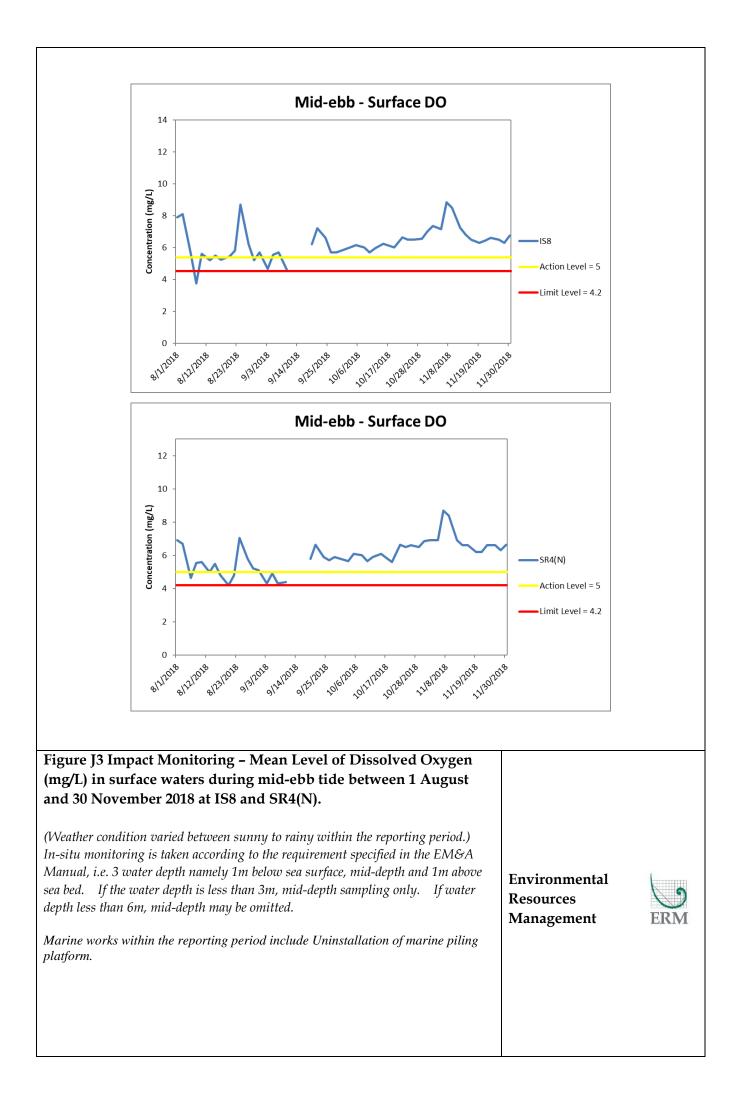
| Project | Works | Date (yyyy-mm-dd) | Tide | Station | Start Time | Depth (m) | Level | Level Code | Replicate | Temperature (°C) | рН | Salinity (ppt) | DO (mg/L) | Average DO | Turbidity (NTU) | Depth-Averaged Turbidity | SS (mg/L) | Depth-Averaged SS |
|---------|------------|-------------------|-----------|------------|------------|-----------|---------|------------|-----------|------------------|-----|----------------|-----------|------------|-----------------|-----------------------------|-----------|-------------------|
| TMCLKL | HY/2012/07 | 2018/11/28 | Mid-Flood | CS(Mf)5 | 10:16 | 12.5 | Surface | 1 | 1 | 22.9 | 7.9 | 30.2 | 6.4 | | 6.7 | | 12.0 | |
| TMCLKL | HY/2012/07 | 2018/11/28 | Mid-Flood | CS(Mf)5 | 10:16 | 12.5 | Surface | 1 | 2 | 22.9 | 7.9 | 30.2 | 6.4 | 6.4 | 6.6 | | 12.7 | |
| TMCLKL | HY/2012/07 | 2018/11/28 | Mid-Flood | CS(Mf)5 | 10:16 | 12.5 | Middle | 2 | 1 | 22.9 | 7.9 | 30.2 | 6.4 | 0.4 | 8.5 | 8.5 | 12.0 | 12.4 |
| TMCLKL | HY/2012/07 | 2018/11/28 | Mid-Flood | CS(Mf)5 | 10:16 | 12.5 | Middle | 2 | 2 | 22.9 | 7.9 | 30.2 | 6.4 |] [| 8.4 | 0.5 | 12.7 | 12.4 |
| TMCLKL | HY/2012/07 | 2018/11/28 | Mid-Flood | CS(Mf)5 | 10:16 | 12.5 | Bottom | 3 | 1 | 22.9 | 7.9 | 30.2 | 6.4 | 6.4 | 10.5 | | 12.1 | |
| TMCLKL | HY/2012/07 | 2018/11/28 | Mid-Flood | CS(Mf)5 | 10:16 | 12.5 | Bottom | 3 | 2 | 22.9 | 7.9 | 30.2 | 6.4 | 6.4 | 10.4 | | 12.9 | |
| TMCLKL | HY/2012/07 | 2018/11/28 | Mid-Flood | CS(Mf)3(N) | 11:08 | 6.9 | Surface | 1 | 1 | 23.1 | 7.9 | 28.5 | 6.2 | | 20.1 | | 28.8 | |
| TMCLKL | HY/2012/07 | 2018/11/28 | Mid-Flood | CS(Mf)3(N) | 11:08 | 6.9 | Surface | 1 | 2 | 23.1 | 7.9 | 28.5 | 6.2 | 6.2 | 20.1 | | 29.5 | |
| TMCLKL | HY/2012/07 | 2018/11/28 | Mid-Flood | CS(Mf)3(N) | 11:08 | 6.9 | Middle | 2 | 1 | 23.0 | 7.9 | 28.8 | 6.3 | 6.3 | 23.4 | 22.0 | 27.6 | 29.6 |
| TMCLKL | HY/2012/07 | 2018/11/28 | Mid-Flood | CS(Mf)3(N) | 11:08 | 6.9 | Middle | 2 | 2 | 23.0 | 7.9 | 28.7 | 6.3 | 1 | 23.4 | 23.0 | 28.1 | 29.0 |
| TMCLKL | HY/2012/07 | 2018/11/28 | Mid-Flood | CS(Mf)3(N) | 11:08 | 6.9 | Bottom | 3 | 1 | 23.0 | 7.9 | 28.9 | 6.3 | 6.2 | 25.5 | | 32.2 | |
| TMCLKL | HY/2012/07 | 2018/11/28 | Mid-Flood | CS(Mf)3(N) | 11:08 | 6.9 | Bottom | 3 | 2 | 23.0 | 7.9 | 28.9 | 6.3 | 6.3 | 25.5 | 1 | 31.6 | |
| TMCLKL | HY/2012/07 | 2018/11/28 | Mid-Flood | IS(Mf)16 | 11:50 | 5.3 | Surface | 1 | 1 | 22.9 | 8.0 | 30.2 | 6.4 | | 18.8 | | 17.3 | |
| TMCLKL | HY/2012/07 | 2018/11/28 | Mid-Flood | IS(Mf)16 | 11:50 | 5.3 | Surface | 1 | 2 | 22.9 | 8.0 | 30.2 | 6.4 | 6.4 | 18.8 | | 17.1 | |
| TMCLKL | HY/2012/07 | 2018/11/28 | Mid-Flood | IS(Mf)16 | 11:50 | 5.3 | Middle | 2 | 1 | | | | | 6.4 | | 20 г | | 19.0 |
| TMCLKL | HY/2012/07 | 2018/11/28 | Mid-Flood | IS(Mf)16 | 11:50 | 5.3 | Middle | 2 | 2 | | | | | 1 | | 20.5 | | 18.9 |
| TMCLKL | HY/2012/07 | 2018/11/28 | Mid-Flood | IS(Mf)16 | 11:50 | 5.3 | Bottom | 3 | 1 | 22.9 | 8.0 | 30.2 | 6.4 | 6.4 | 22.2 | 1 | 20.5 | |
| TMCLKL | HY/2012/07 | 2018/11/28 | Mid-Flood | IS(Mf)16 | 11:50 | 5.3 | Bottom | 3 | 2 | 22.9 | 8.0 | 30.2 | 6.4 | 6.4 | 22.2 | 1 | 20.6 | |
| TMCLKL | HY/2012/07 | 2018/11/28 | Mid-Flood | SR4a | 12:01 | 3.8 | Surface | 1 | 1 | 22.9 | 8.1 | 30.1 | 6.4 | | 13.2 | | 17.6 | |
| TMCLKL | HY/2012/07 | 2018/11/28 | Mid-Flood | SR4a | 12:01 | 3.8 | Surface | 1 | 2 | 22.9 | 8.1 | 30.1 | 6.4 | 6.4 | 12.4 |] | 18.1 | |
| TMCLKL | HY/2012/07 | 2018/11/28 | Mid-Flood | SR4a | 12:01 | 3.8 | Middle | 2 | 1 | | | | | - 6.4 | | 12.9 | | 16.6 |
| TMCLKL | HY/2012/07 | 2018/11/28 | Mid-Flood | SR4a | 12:01 | 3.8 | Middle | 2 | 2 | | | | | | | 12.9 | | 10.0 |
| TMCLKL | HY/2012/07 | 2018/11/28 | Mid-Flood | SR4a | 12:01 | 3.8 | Bottom | 3 | 1 | 22.9 | 8.1 | 30.2 | 6.6 | 6.6 | 13.0 | | 15.5 | |
| TMCLKL | HY/2012/07 | 2018/11/28 | Mid-Flood | SR4a | 12:01 | 3.8 | Bottom | 3 | 2 | 22.9 | 8.1 | 30.2 | 6.5 | 0.0 | 12.9 | | 15.3 | |
| TMCLKL | HY/2012/07 | 2018/11/28 | Mid-Flood | SR4(N) | 12:07 | 4.2 | Surface | 1 | 1 | 22.9 | 8.1 | 30.2 | 6.4 | | 14.6 | | 20.0 | |
| TMCLKL | HY/2012/07 | 2018/11/28 | Mid-Flood | SR4(N) | 12:07 | 4.2 | Surface | 1 | 2 | 22.9 | 8.1 | 30.2 | 6.4 | 6.4 | 12.8 | | 19.4 | |
| TMCLKL | HY/2012/07 | 2018/11/28 | Mid-Flood | SR4(N) | 12:07 | 4.2 | Middle | 2 | 1 | | | | | 0.4 | | 14.3 | | 19.9 |
| TMCLKL | HY/2012/07 | 2018/11/28 | Mid-Flood | SR4(N) | 12:07 | 4.2 | Middle | 2 | 2 | | | | | | | 14.5 | | 15.5 |
| TMCLKL | HY/2012/07 | 2018/11/28 | Mid-Flood | SR4(N) | 12:07 | 4.2 | Bottom | 3 | 1 | 22.9 | 8.1 | 30.2 | 6.5 | 6.5 | 14.8 | | 19.8 | |
| TMCLKL | HY/2012/07 | 2018/11/28 | Mid-Flood | SR4(N) | 12:07 | 4.2 | Bottom | 3 | 2 | 22.9 | 8.1 | 30.2 | 6.5 | 0.5 | 14.8 | | 20.3 | |
| TMCLKL | HY/2012/07 | 2018/11/28 | Mid-Flood | IS8 | 12:11 | 3.6 | Surface | 1 | 1 | 22.9 | 8.0 | 30.2 | 6.4 | | 16.5 | | 22.2 | |
| TMCLKL | HY/2012/07 | 2018/11/28 | Mid-Flood | IS8 | 12:11 | 3.6 | Surface | 1 | 2 | 22.9 | 8.0 | 30.2 | 6.4 | 6.4 | 16.5 | | 21.6 | |
| TMCLKL | HY/2012/07 | 2018/11/28 | Mid-Flood | IS8 | 12:11 | 3.6 | Middle | 2 | 1 | | | | | | | 18.4 | | 21.6 |
| TMCLKL | HY/2012/07 | 2018/11/28 | Mid-Flood | IS8 | 12:11 | 3.6 | Middle | 2 | 2 | | | | | | | 10.4 | | |
| TMCLKL | HY/2012/07 | 2018/11/28 | Mid-Flood | IS8 | 12:11 | 3.6 | Bottom | 3 | 1 | 22.9 | 8.0 | 30.2 | 6.5 | 6.5 | 20.2 | | 21.8 | |
| TMCLKL | HY/2012/07 | 2018/11/28 | Mid-Flood | IS8 | 12:11 | 3.6 | Bottom | 3 | 2 | 22.9 | 8.0 | 30.2 | 6.5 | 0.0 | 20.2 | | 20.8 | |
| TMCLKL | HY/2012/07 | 2018/11/28 | Mid-Flood | IS(Mf)9 | 12:19 | 3.6 | Surface | 1 | 1 | 22.9 | 8.0 | 30.2 | 6.4 | | 15.2 | | 14.7 | |
| TMCLKL | HY/2012/07 | 2018/11/28 | Mid-Flood | IS(Mf)9 | 12:19 | 3.6 | Surface | 1 | 2 | 22.9 | 8.0 | 30.2 | 6.5 | 6.5 | 14.6 | | 14.4 | |
| TMCLKL | HY/2012/07 | 2018/11/28 | Mid-Flood | IS(Mf)9 | 12:19 | 3.6 | Middle | 2 | 1 | | | | | | | 16.4 | | 15.4 |
| TMCLKL | HY/2012/07 | 2018/11/28 | Mid-Flood | IS(Mf)9 | 12:19 | 3.6 | Middle | 2 | 2 | | | | | | | | | |
| | HY/2012/07 | 2018/11/28 | Mid-Flood | IS(Mf)9 | 12:19 | 3.6 | Bottom | 3 | 1 | 22.9 | 8.0 | 30.3 | 6.5 | 6.5 | 17.9 | | 16.7 | |
| TMCLKL | HY/2012/07 | 2018/11/28 | Mid-Flood | IS(Mf)9 | 12:19 | 3.6 | Bottom | 3 | 2 | 22.9 | 8.0 | 30.3 | 6.5 | | 17.9 | | 15.9 | |

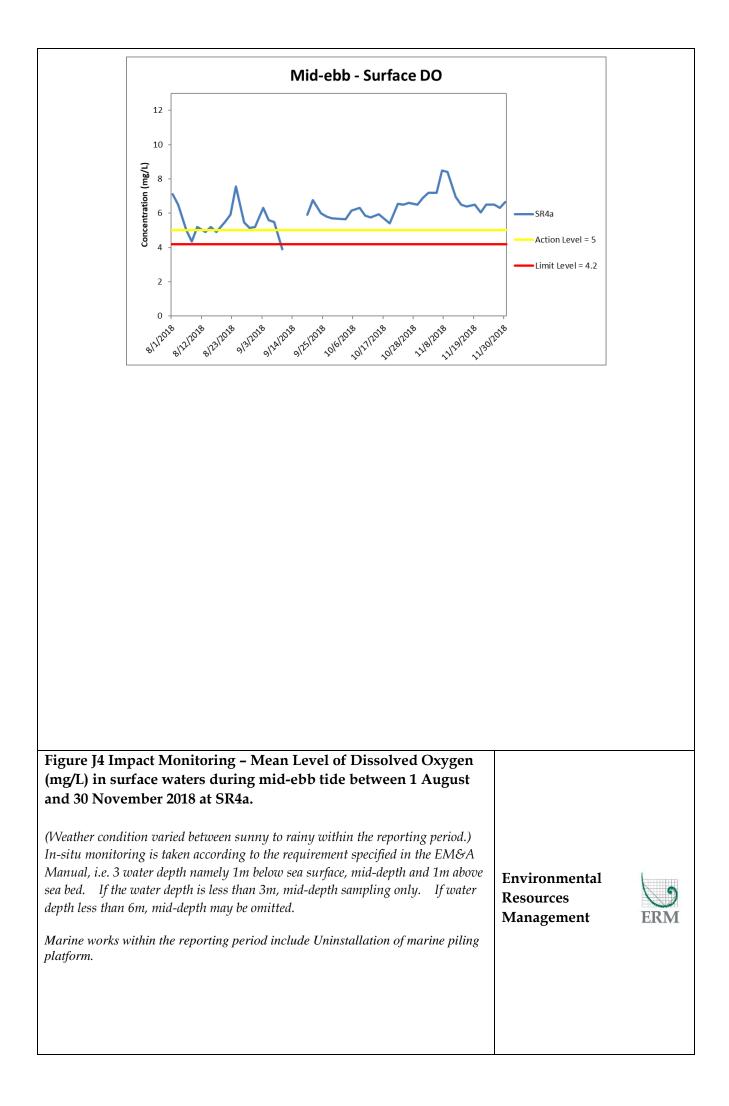
| Project | Works | Date (yyyy-mm-dd) | Tide | Station | Start Time | Depth (m) | Level | Level Code | Replicate | Temperature (°C) | рН | Salinity (ppt) | DO (mg/L) | Average DO | Turbidity (NTU) | Depth-Averaged Turbidity | SS (mg/L) | Depth-Averaged SS |
|---------|------------|-------------------|---------|------------|------------|-----------|---------|------------|-----------|------------------|-----|----------------|-----------|------------|-----------------|-----------------------------|-----------|-------------------|
| TMCLKL | HY/2012/07 | 2018/11/30 | Mid-Ebb | CS(Mf)5 | 20:37 | 12.2 | Surface | 1 | 1 | 22.9 | 8.1 | 29.6 | 6.5 | | 4.1 | | 6.7 | |
| TMCLKL | HY/2012/07 | 2018/11/30 | Mid-Ebb | CS(Mf)5 | 20:37 | 12.2 | Surface | 1 | 2 | 22.6 | 8.1 | 30.5 | 6.4 | 6.3 | 4.0 | | 6.5 | |
| TMCLKL | HY/2012/07 | 2018/11/30 | Mid-Ebb | CS(Mf)5 | 20:37 | 12.2 | Middle | 2 | 1 | 23.0 | 8.1 | 29.8 | 6.2 | 0.5 | 5.3 | 5.7 | 6.3 | 7.2 |
| TMCLKL | HY/2012/07 | 2018/11/30 | Mid-Ebb | CS(Mf)5 | 20:37 | 12.2 | Middle | 2 | 2 | 22.7 | 8.1 | 30.7 | 6.2 |] [| 5.4 | 5.7 | 6.9 | 1.2 |
| TMCLKL | HY/2012/07 | 2018/11/30 | Mid-Ebb | CS(Mf)5 | 20:37 | 12.2 | Bottom | 3 | 1 | 23.1 | 8.1 | 30.3 | 6.2 | 6.2 | 7.8 | | 8.1 | |
| TMCLKL | HY/2012/07 | 2018/11/30 | Mid-Ebb | CS(Mf)5 | 20:37 | 12.2 | Bottom | 3 | 2 | 22.7 | 8.1 | 31.1 | 6.2 | 0.2 | 7.5 | | 8.8 | |
| TMCLKL | HY/2012/07 | 2018/11/30 | Mid-Ebb | CS(Mf)3(N) | 19:44 | 7.2 | Surface | 1 | 1 | 22.9 | 8.1 | 28.0 | 6.7 | | 6.2 | | 7.7 | |
| TMCLKL | HY/2012/07 | 2018/11/30 | Mid-Ebb | CS(Mf)3(N) | 19:44 | 7.2 | Surface | 1 | 2 | 22.7 | 8.1 | 28.8 | 6.6 | 6.7 | 6.6 | | 7.9 | |
| TMCLKL | HY/2012/07 | 2018/11/30 | Mid-Ebb | CS(Mf)3(N) | 19:44 | 7.2 | Middle | 2 | 1 | 23.0 | 8.1 | 29.0 | 6.7 | 0.7 | 11.0 | 11.1 | 7.8 | 8.7 |
| TMCLKL | HY/2012/07 | 2018/11/30 | Mid-Ebb | CS(Mf)3(N) | 19:44 | 7.2 | Middle | 2 | 2 | 22.7 | 8.1 | 29.9 | 6.7 |] [| 11.0 | 11.1 | 8.4 | 0.7 |
| TMCLKL | HY/2012/07 | 2018/11/30 | Mid-Ebb | CS(Mf)3(N) | 19:44 | 7.2 | Bottom | 3 | 1 | 23.0 | 8.1 | 29.4 | 6.8 | 6.9 | 15.9 | | 10.2 | |
| TMCLKL | HY/2012/07 | 2018/11/30 | Mid-Ebb | CS(Mf)3(N) | 19:44 | 7.2 | Bottom | 3 | 2 | 22.7 | 8.1 | 30.2 | 6.8 | 6.8 | 16.0 | | 9.9 | |
| TMCLKL | HY/2012/07 | 2018/11/30 | Mid-Ebb | IS(Mf)16 | 18:51 | 5.7 | Surface | 1 | 1 | 22.9 | 8.1 | 29.3 | 6.8 | | 11.9 | | 14.8 | |
| TMCLKL | HY/2012/07 | 2018/11/30 | Mid-Ebb | IS(Mf)16 | 18:51 | 5.7 | Surface | 1 | 2 | 22.6 | 8.1 | 30.2 | 6.7 | 6.8 | 11.9 | | 15.3 | |
| TMCLKL | HY/2012/07 | 2018/11/30 | Mid-Ebb | IS(Mf)16 | 18:51 | 5.7 | Middle | 2 | 1 | | | | | 0.8 | | 13.7 | | 15.8 |
| TMCLKL | HY/2012/07 | 2018/11/30 | Mid-Ebb | IS(Mf)16 | 18:51 | 5.7 | Middle | 2 | 2 | | | | | | | 13.7 | | 15.8 |
| TMCLKL | HY/2012/07 | 2018/11/30 | Mid-Ebb | IS(Mf)16 | 18:51 | 5.7 | Bottom | 3 | 1 | 22.9 | 8.1 | 29.3 | 6.7 | 6.7 | 15.1 | | 16.9 | |
| TMCLKL | HY/2012/07 | 2018/11/30 | Mid-Ebb | IS(Mf)16 | 18:51 | 5.7 | Bottom | 3 | 2 | 22.6 | 8.1 | 30.2 | 6.7 | 0.7 | 15.9 | | 16.3 | |
| TMCLKL | HY/2012/07 | 2018/11/30 | Mid-Ebb | SR4a | 18:38 | 4.7 | Surface | 1 | 1 | 23.1 | 8.1 | 29.4 | 6.8 | | 6.9 | | 11.7 | |
| TMCLKL | HY/2012/07 | 2018/11/30 | Mid-Ebb | SR4a | 18:38 | 4.7 | Surface | 1 | 2 | 22.8 | 8.1 | 30.3 | 6.7 | 6.8 | 6.2 | | 10.8 | |
| TMCLKL | HY/2012/07 | 2018/11/30 | Mid-Ebb | SR4a | 18:38 | 4.7 | Middle | 2 | 1 | | | | | 0.0 | | 8.0 | | 11.0 |
| TMCLKL | HY/2012/07 | 2018/11/30 | Mid-Ebb | SR4a | 18:38 | 4.7 | Middle | 2 | 2 | | | | | | | | | |
| TMCLKL | HY/2012/07 | 2018/11/30 | Mid-Ebb | SR4a | 18:38 | 4.7 | Bottom | 3 | 1 | 23.1 | 8.1 | 29.5 | 6.7 | 6.7 | 9.7 | | 11.1 | |
| TMCLKL | HY/2012/07 | 2018/11/30 | Mid-Ebb | SR4a | 18:38 | 4.7 | Bottom | 3 | 2 | 22.8 | 8.1 | 30.3 | 6.7 | 0.7 | 9.0 | | 10.2 | |
| TMCLKL | HY/2012/07 | 2018/11/30 | Mid-Ebb | SR4(N) | 18:33 | 4.0 | Surface | 1 | 1 | 23.0 | 8.1 | 29.4 | 6.7 | | 6.3 | | 13.0 | |
| TMCLKL | HY/2012/07 | 2018/11/30 | Mid-Ebb | SR4(N) | 18:33 | 4.0 | Surface | 1 | 2 | 22.7 | 8.1 | 30.3 | 6.6 | 6.7 | 6.6 | | 12.5 | |
| TMCLKL | HY/2012/07 | 2018/11/30 | Mid-Ebb | SR4(N) | 18:33 | 4.0 | Middle | 2 | 1 | | | | | | | 8.5 | | 11.7 |
| TMCLKL | HY/2012/07 | 2018/11/30 | Mid-Ebb | SR4(N) | 18:33 | 4.0 | Middle | 2 | 2 | | | | | | | | | |
| | | 2018/11/30 | Mid-Ebb | SR4(N) | 18:33 | 4.0 | Bottom | 3 | 1 | 23.0 | 8.1 | 29.5 | 6.7 | 6.7 | 10.5 | | 10.2 | |
| TMCLKL | HY/2012/07 | 2018/11/30 | Mid-Ebb | SR4(N) | 18:33 | 4.0 | Bottom | 3 | 2 | 22.7 | 8.1 | 30.3 | 6.6 | • | 10.7 | | 11.1 | |
| TMCLKL | HY/2012/07 | 2018/11/30 | Mid-Ebb | IS8 | 18:28 | 3.5 | Surface | 1 | 1 | 23.0 | 8.1 | 29.4 | 6.8 | 4 | 8.0 | | 12.4 | |
| TMCLKL | HY/2012/07 | 2018/11/30 | Mid-Ebb | IS8 | 18:28 | 3.5 | Surface | 1 | 2 | 22.7 | 8.1 | 30.2 | 6.7 | 6.8 | 7.3 | | 13.4 | |
| TMCLKL | HY/2012/07 | 2018/11/30 | Mid-Ebb | IS8 | 18:28 | 3.5 | Middle | 2 | 1 | | | | | | | 9.1 | | 13.3 |
| TMCLKL | HY/2012/07 | 2018/11/30 | Mid-Ebb | IS8 | 18:28 | 3.5 | Middle | 2 | 2 | | | | | | | | | |
| TMCLKL | HY/2012/07 | 2018/11/30 | Mid-Ebb | IS8 | 18:28 | 3.5 | Bottom | 3 | 1 | 23.0 | 8.1 | 29.4 | 6.8 | 6.8 | 10.7 | | 13.5 | |
| TMCLKL | HY/2012/07 | 2018/11/30 | Mid-Ebb | IS8 | 18:28 | 3.5 | Bottom | 3 | 2 | 22.7 | 8.1 | 30.2 | 6.7 | | 10.3 | | 13.9 | |
| TMCLKL | HY/2012/07 | 2018/11/30 | Mid-Ebb | IS(Mf)9 | 18:21 | 3.3 | Surface | 1 | 1 | 23.0 | 8.1 | 29.5 | 6.7 | 4 | 10.6 | | 16.3 | |
| TMCLKL | HY/2012/07 | 2018/11/30 | Mid-Ebb | IS(Mf)9 | 18:21 | 3.3 | Surface | 1 | 2 | 22.7 | 8.1 | 30.4 | 6.7 | 6.7 | 10.8 | | 17.1 | |
| TMCLKL | HY/2012/07 | 2018/11/30 | Mid-Ebb | IS(Mf)9 | 18:21 | 3.3 | Middle | 2 | 1 | | | | | 4 | | 11.6 | | 16.8 |
| TMCLKL | HY/2012/07 | 2018/11/30 | Mid-Ebb | IS(Mf)9 | 18:21 | 3.3 | Middle | 2 | 2 | | | | | | | - | | |
| | HY/2012/07 | 2018/11/30 | Mid-Ebb | IS(Mf)9 | 18:21 | 3.3 | Bottom | 3 | 1 | 23.0 | 8.1 | 29.5 | 6.7 | 6.7 | 12.5 | | 17.2 | |
| TMCLKL | HY/2012/07 | 2018/11/30 | Mid-Ebb | IS(Mf)9 | 18:21 | 3.3 | Bottom | 3 | 2 | 22.7 | 8.1 | 30.4 | 6.7 | | 12.4 | | 16.4 | |

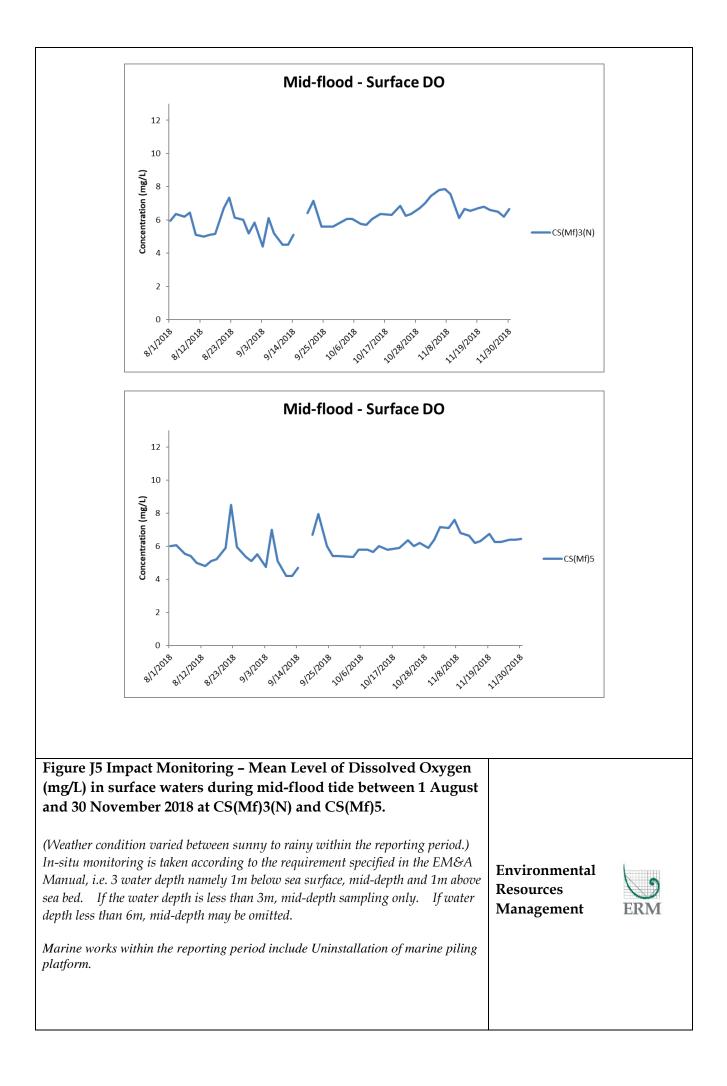
| Project | Works | Date (yyyy-mm-dd) | Tide | Station | Start Time | Depth (m) | Level | Level Code | Replicate | Temperature (°C) | рН | Salinity (ppt) | DO (mg/L) | Average DO | Turbidity (NTU) | Depth-Averaged Turbidity | SS (mg/L) | Depth-Averaged SS |
|---------|------------|-------------------|-----------|------------|------------|-----------|---------|------------|-----------|------------------|-----|----------------|-----------|------------|-----------------|-----------------------------|-----------|-------------------|
| TMCLKL | HY/2012/07 | 2018/11/30 | Mid-Flood | CS(Mf)5 | 12:35 | 11.8 | Surface | 1 | 1 | 22.7 | 8.0 | 30.2 | 6.5 | | 6.0 | | 9.2 | |
| TMCLKL | HY/2012/07 | 2018/11/30 | Mid-Flood | CS(Mf)5 | 12:35 | 11.8 | Surface | 1 | 2 | 22.7 | 8.0 | 30.2 | 6.5 | 6.5 | 6.1 | | 9.1 | |
| TMCLKL | HY/2012/07 | 2018/11/30 | Mid-Flood | CS(Mf)5 | 12:35 | 11.8 | Middle | 2 | 1 | 22.5 | 8.0 | 30.3 | 6.5 | 0.5 | 6.8 | 6.8 | 8.5 | 8.9 |
| TMCLKL | HY/2012/07 | 2018/11/30 | Mid-Flood | CS(Mf)5 | 12:35 | 11.8 | Middle | 2 | 2 | 22.5 | 8.0 | 30.3 | 6.5 | | 6.8 | 0.0 | 8.5 | 0.5 |
| TMCLKL | HY/2012/07 | 2018/11/30 | Mid-Flood | CS(Mf)5 | 12:35 | 11.8 | Bottom | 3 | 1 | 22.5 | 8.1 | 30.3 | 6.5 | 6.5 | 7.6 | | 9.3 | |
| TMCLKL | HY/2012/07 | 2018/11/30 | Mid-Flood | CS(Mf)5 | 12:35 | 11.8 | Bottom | 3 | 2 | 22.5 | 8.1 | 30.3 | 6.5 | 0.5 | 7.6 | | 8.5 | |
| TMCLKL | HY/2012/07 | 2018/11/30 | Mid-Flood | CS(Mf)3(N) | 13:24 | 7.0 | Surface | 1 | 1 | 22.9 | 8.0 | 29.1 | 6.5 | | 7.7 | | 13.9 | |
| TMCLKL | HY/2012/07 | 2018/11/30 | Mid-Flood | CS(Mf)3(N) | 13:24 | 7.0 | Surface | 1 | 2 | 23.3 | 8.0 | 28.3 | 6.6 | 6.6 | 7.4 | | 13.0 | |
| TMCLKL | HY/2012/07 | 2018/11/30 | Mid-Flood | CS(Mf)3(N) | 13:24 | 7.0 | Middle | 2 | 1 | 22.9 | 8.0 | 29.2 | 6.5 | 0.0 | 9.1 | 10.2 | 14.1 | 13.0 |
| TMCLKL | HY/2012/07 | 2018/11/30 | Mid-Flood | CS(Mf)3(N) | 13:24 | 7.0 | Middle | 2 | 2 | 23.2 | 8.0 | 28.3 | 6.6 | | 9.8 | 10.2 | 13.9 | 15.0 |
| TMCLKL | HY/2012/07 | 2018/11/30 | Mid-Flood | CS(Mf)3(N) | 13:24 | 7.0 | Bottom | 3 | 1 | 22.9 | 8.0 | 29.2 | 6.5 | 6.6 | 13.5 | | 11.4 | |
| TMCLKL | HY/2012/07 | 2018/11/30 | Mid-Flood | CS(Mf)3(N) | 13:24 | 7.0 | Bottom | 3 | 2 | 23.2 | 8.0 | 28.4 | 6.6 | 0.0 | 13.5 | | 11.9 | |
| TMCLKL | HY/2012/07 | 2018/11/30 | Mid-Flood | IS(Mf)16 | 14:16 | 5.5 | Surface | 1 | 1 | 22.6 | 8.1 | 30.2 | 6.7 | | 7.0 | | 11.2 | |
| TMCLKL | HY/2012/07 | 2018/11/30 | Mid-Flood | IS(Mf)16 | 14:16 | 5.5 | Surface | 1 | 2 | 22.9 | 8.1 | 29.3 | 6.8 | 6.8 | 7.0 | | 10.2 | |
| TMCLKL | HY/2012/07 | 2018/11/30 | Mid-Flood | IS(Mf)16 | 14:16 | 5.5 | Middle | 2 | 1 | | | | | 0.8 | | 7.7 | | 11.0 |
| TMCLKL | HY/2012/07 | 2018/11/30 | Mid-Flood | IS(Mf)16 | 14:16 | 5.5 | Middle | 2 | 2 | | | | | | | 1.1 | | |
| TMCLKL | HY/2012/07 | 2018/11/30 | Mid-Flood | IS(Mf)16 | 14:16 | 5.5 | Bottom | 3 | 1 | 22.6 | 8.1 | 30.2 | 6.7 | 6.8 | 8.2 | | 11.5 | |
| TMCLKL | HY/2012/07 | 2018/11/30 | Mid-Flood | IS(Mf)16 | 14:16 | 5.5 | Bottom | 3 | 2 | 22.9 | 8.1 | 29.3 | 6.8 | 0.8 | 8.6 | | 11.0 | |
| TMCLKL | HY/2012/07 | 2018/11/30 | Mid-Flood | SR4a | 14:26 | 4.5 | Surface | 1 | 1 | 22.9 | 8.1 | 30.4 | 6.6 | | 5.9 | | 11.4 | |
| TMCLKL | HY/2012/07 | 2018/11/30 | Mid-Flood | SR4a | 14:26 | 4.5 | Surface | 1 | 2 | 23.2 | 8.1 | 29.5 | 6.7 | 6.7 | 6.0 | | 12.6 | |
| TMCLKL | HY/2012/07 | 2018/11/30 | Mid-Flood | SR4a | 14:26 | 4.5 | Middle | 2 | 1 | | | | | 0.7 | | 6.9 | | 11.6 |
| TMCLKL | HY/2012/07 | 2018/11/30 | Mid-Flood | SR4a | 14:26 | 4.5 | Middle | 2 | 2 | | | | | | | | | 11.0 |
| TMCLKL | HY/2012/07 | 2018/11/30 | Mid-Flood | SR4a | 14:26 | 4.5 | Bottom | 3 | 1 | 22.7 | 8.1 | 30.4 | 6.5 | 6.6 | 8.0 | | 11.2 | |
| TMCLKL | HY/2012/07 | 2018/11/30 | Mid-Flood | SR4a | 14:26 | 4.5 | Bottom | 3 | 2 | 23.1 | 8.1 | 29.5 | 6.6 | 0.0 | 7.8 | | 10.3 | |
| TMCLKL | HY/2012/07 | 2018/11/30 | Mid-Flood | SR4(N) | 14:31 | 3.7 | Surface | 1 | 1 | 22.8 | 8.1 | 30.3 | 6.6 | | 7.4 | | 12.0 | 11.0 |
| TMCLKL | HY/2012/07 | 2018/11/30 | Mid-Flood | SR4(N) | 14:31 | 3.7 | Surface | 1 | 2 | 23.1 | 8.1 | 29.5 | 6.7 | 6.7 | 7.5 | | 11.9 | |
| TMCLKL | HY/2012/07 | 2018/11/30 | Mid-Flood | SR4(N) | 14:31 | 3.7 | Middle | 2 | 1 | | | | | 0.7 | | 8.5 | | |
| TMCLKL | HY/2012/07 | 2018/11/30 | Mid-Flood | SR4(N) | 14:31 | 3.7 | Middle | 2 | 2 | | | | | | | 0.5 | | 11.0 |
| TMCLKL | HY/2012/07 | 2018/11/30 | Mid-Flood | SR4(N) | 14:31 | 3.7 | Bottom | 3 | 1 | 22.7 | 8.1 | 30.3 | 6.6 | 6.7 | 9.2 | | 10.8 | |
| TMCLKL | HY/2012/07 | 2018/11/30 | Mid-Flood | SR4(N) | 14:31 | 3.7 | Bottom | 3 | 2 | 23.1 | 8.1 | 29.5 | 6.7 | 0.7 | 9.7 | | 11.2 | |
| TMCLKL | HY/2012/07 | 2018/11/30 | Mid-Flood | IS8 | 14:36 | 3.5 | Surface | 1 | 1 | 22.7 | 8.1 | 30.2 | 6.7 | | 8.3 | | 9.4 | |
| TMCLKL | HY/2012/07 | 2018/11/30 | Mid-Flood | IS8 | 14:36 | 3.5 | Surface | 1 | 2 | 23.0 | 8.1 | 29.4 | 6.8 | 6.8 | 8.6 | | 10.6 | |
| TMCLKL | HY/2012/07 | 2018/11/30 | Mid-Flood | IS8 | 14:36 | 3.5 | Middle | 2 | 1 | | | | | 0.8 | | 9.4 | | 10.7 |
| TMCLKL | HY/2012/07 | 2018/11/30 | Mid-Flood | IS8 | 14:36 | 3.5 | Middle | 2 | 2 | | | | | | | 5.4 | | 10.7 |
| TMCLKL | HY/2012/07 | 2018/11/30 | Mid-Flood | IS8 | 14:36 | 3.5 | Bottom | 3 | 1 | 22.6 | 8.1 | 30.3 | 6.7 | 6.7 | 10.3 | | 11.8 | |
| TMCLKL | HY/2012/07 | 2018/11/30 | Mid-Flood | IS8 | 14:36 | 3.5 | Bottom | 3 | 2 | 23.0 | 8.1 | 29.4 | 6.7 | 0.7 | 10.5 | | 10.8 | |
| TMCLKL | HY/2012/07 | 2018/11/30 | Mid-Flood | IS(Mf)9 | 14:47 | 2.8 | Surface | 1 | 1 | | | | | | | | | |
| TMCLKL | HY/2012/07 | 2018/11/30 | Mid-Flood | IS(Mf)9 | 14:47 | 2.8 | Surface | 1 | 2 | | | | | 6.7 | | | | |
| TMCLKL | HY/2012/07 | 2018/11/30 | Mid-Flood | IS(Mf)9 | 14:47 | 2.8 | Middle | 2 | 1 | 22.6 | 8.1 | 30.3 | 6.6 | 0.7 | 15.1 | 15.4 | 13.6 | 14.0 |
| TMCLKL | HY/2012/07 | 2018/11/30 | Mid-Flood | IS(Mf)9 | 14:47 | 2.8 | Middle | 2 | 2 | 23.0 | 8.1 | 29.5 | 6.7 | | 15.6 | 15.4 | 14.3 | 14.0 |
| TMCLKL | HY/2012/07 | 2018/11/30 | Mid-Flood | IS(Mf)9 | 14:47 | 2.8 | Bottom | 3 | 1 | | | | | | | | | |
| TMCLKL | HY/2012/07 | 2018/11/30 | Mid-Flood | IS(Mf)9 | 14:47 | 2.8 | Bottom | 3 | 2 | | | | | | | | | |

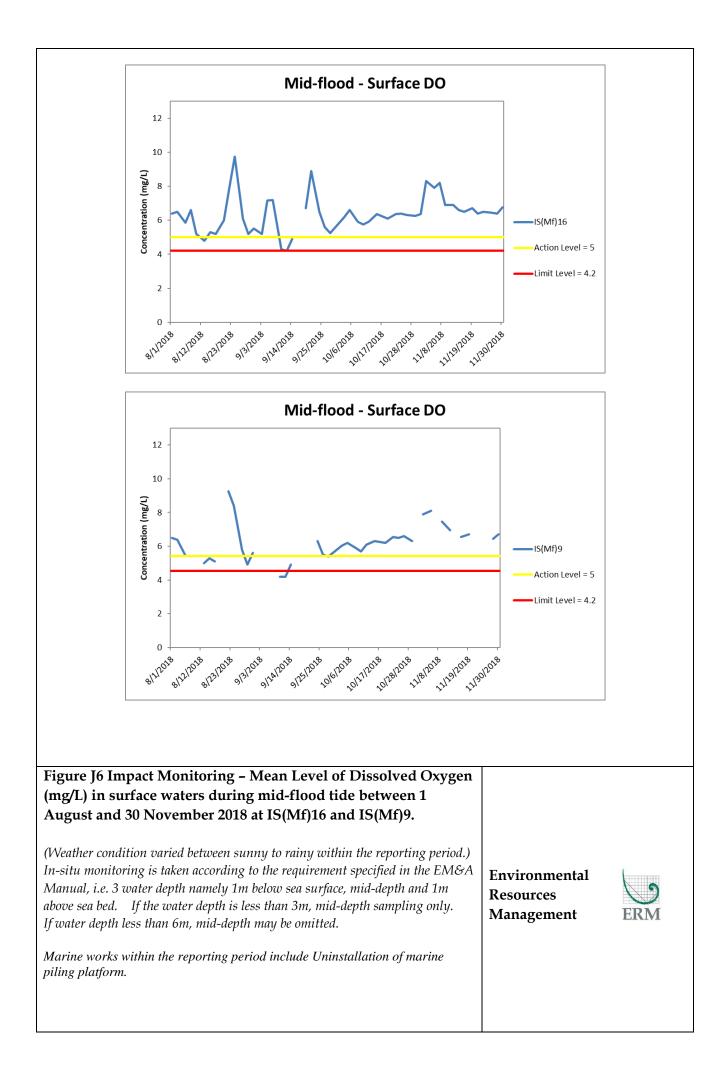


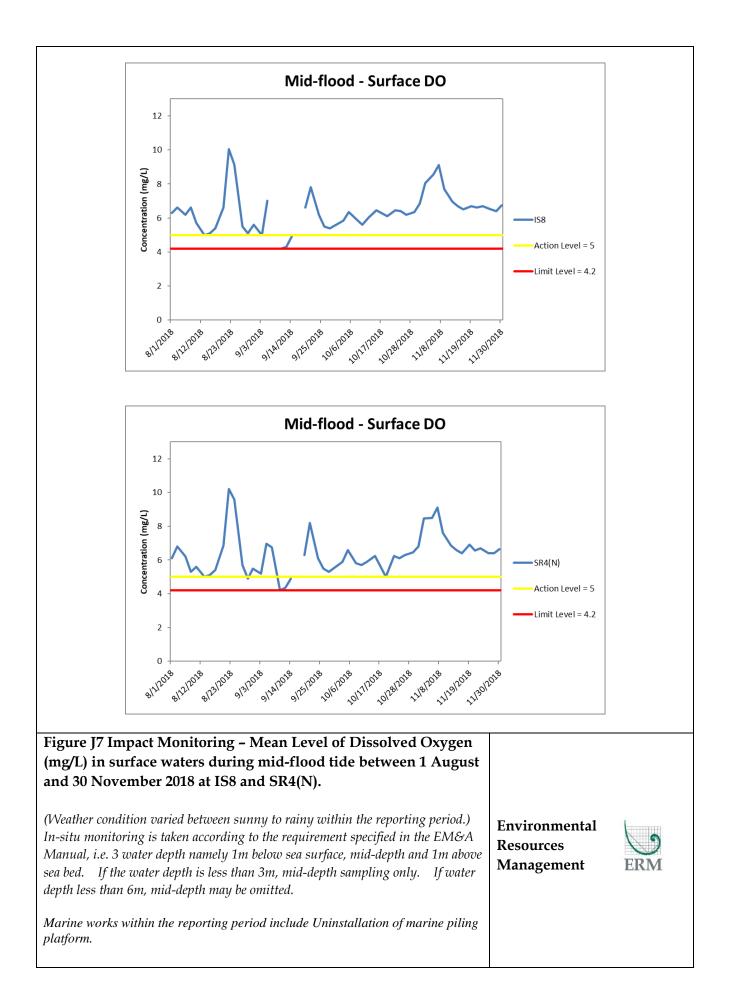


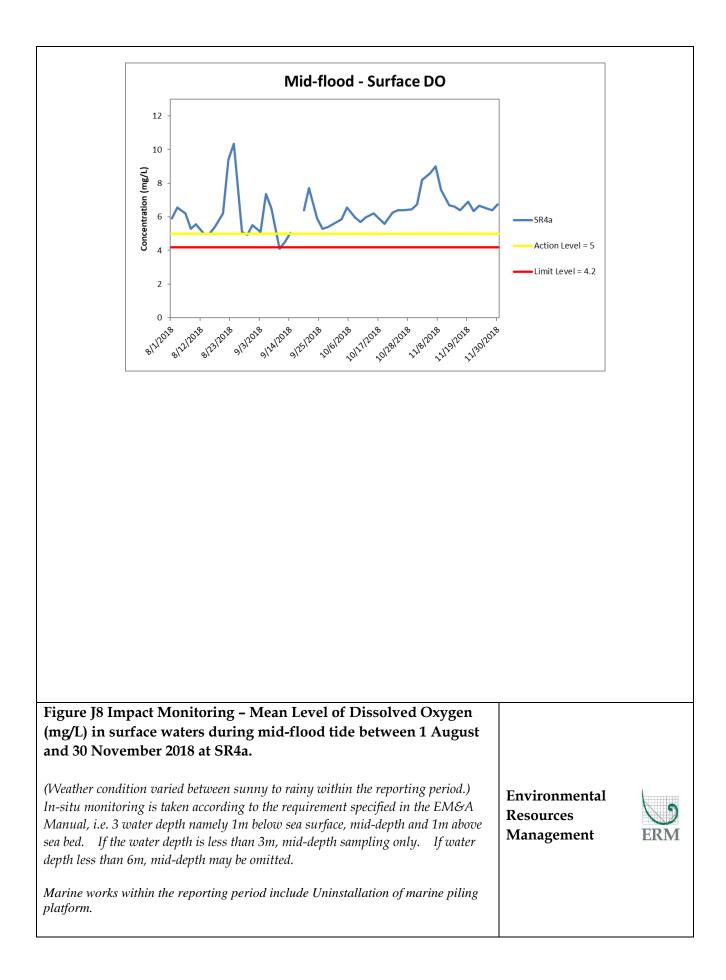


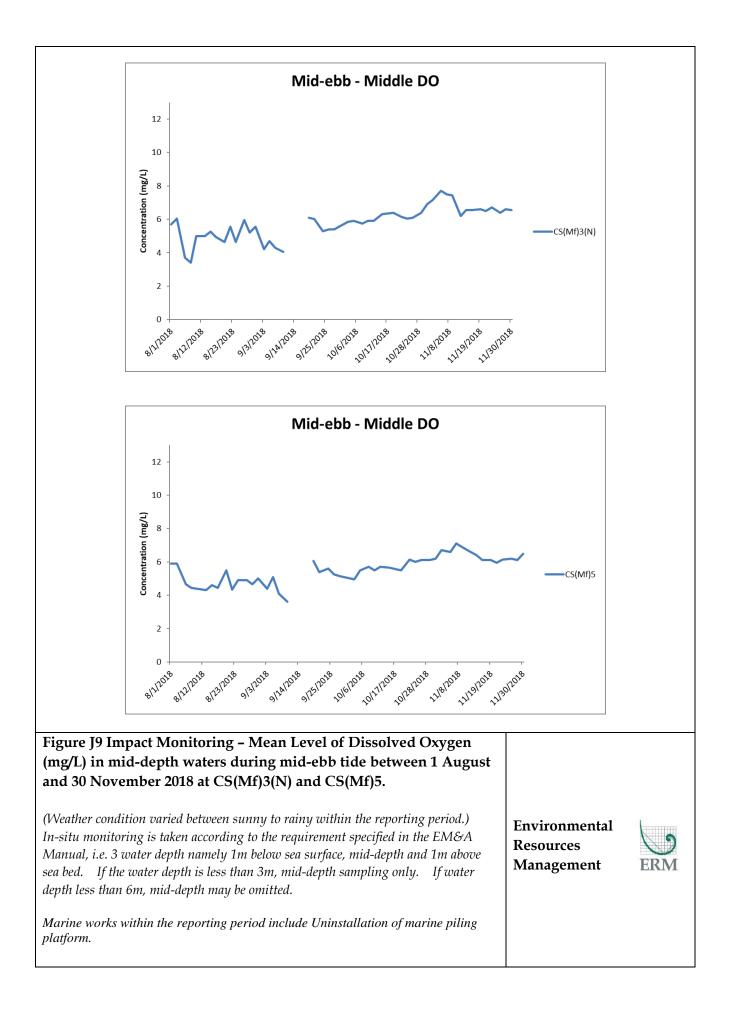


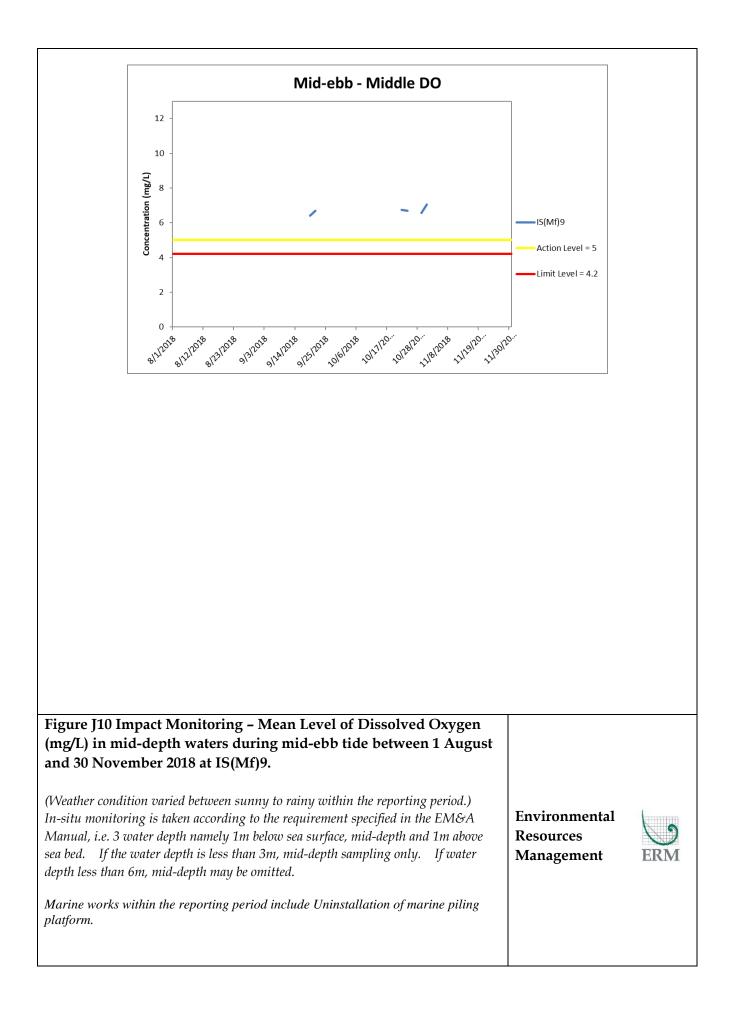


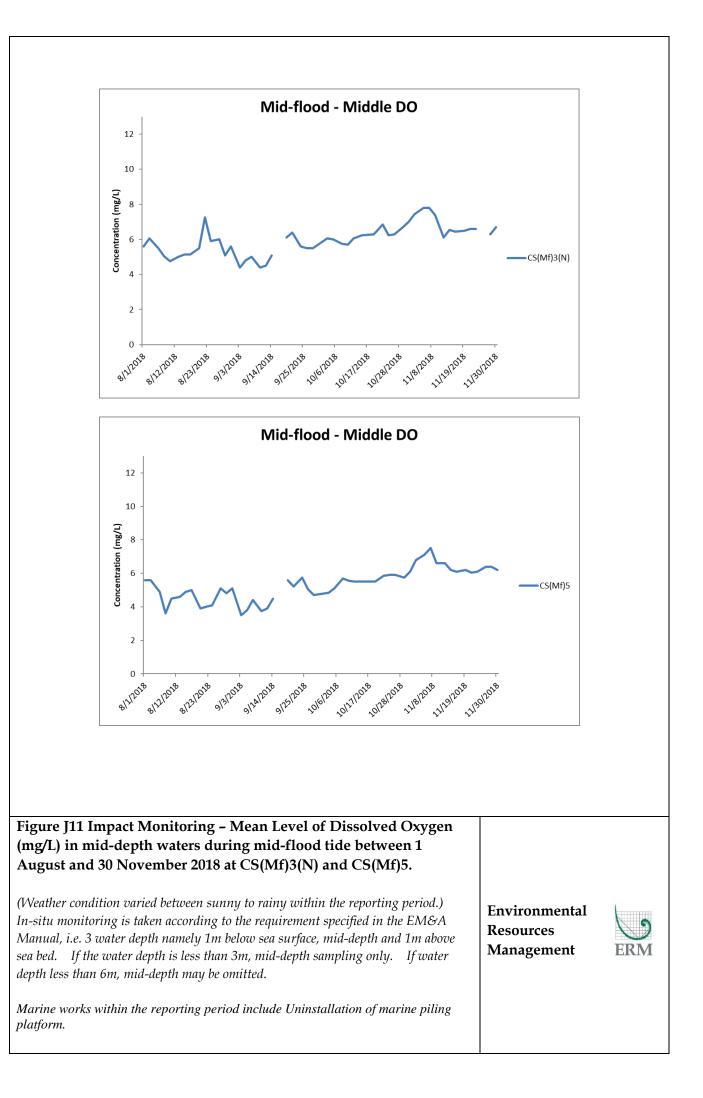


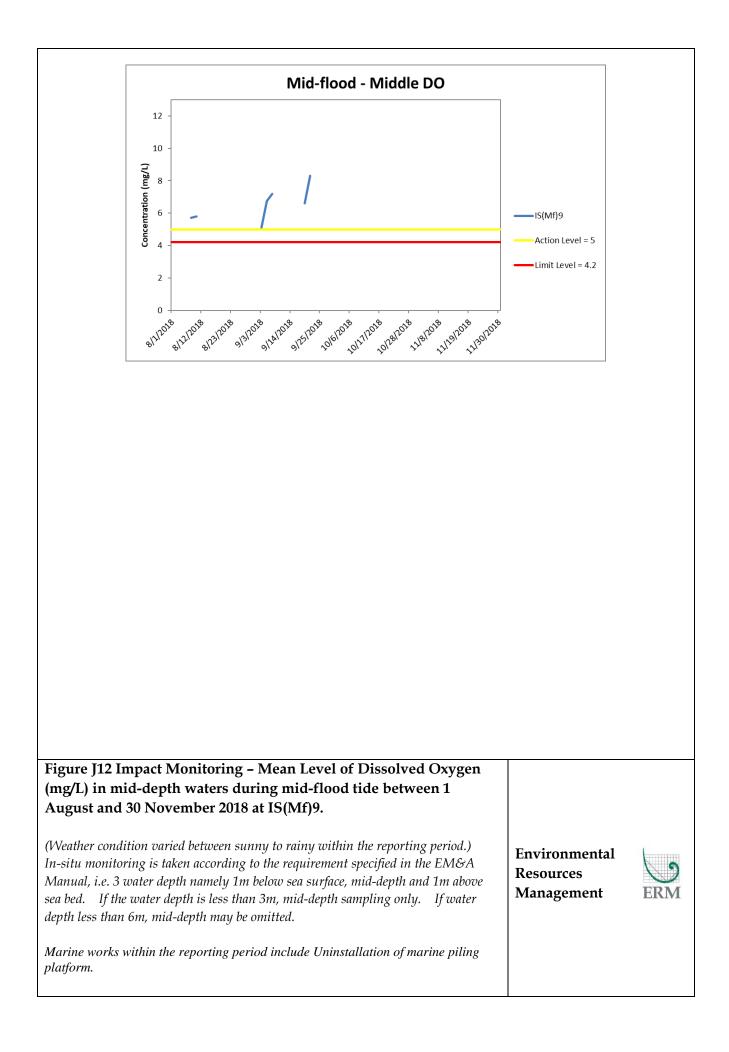


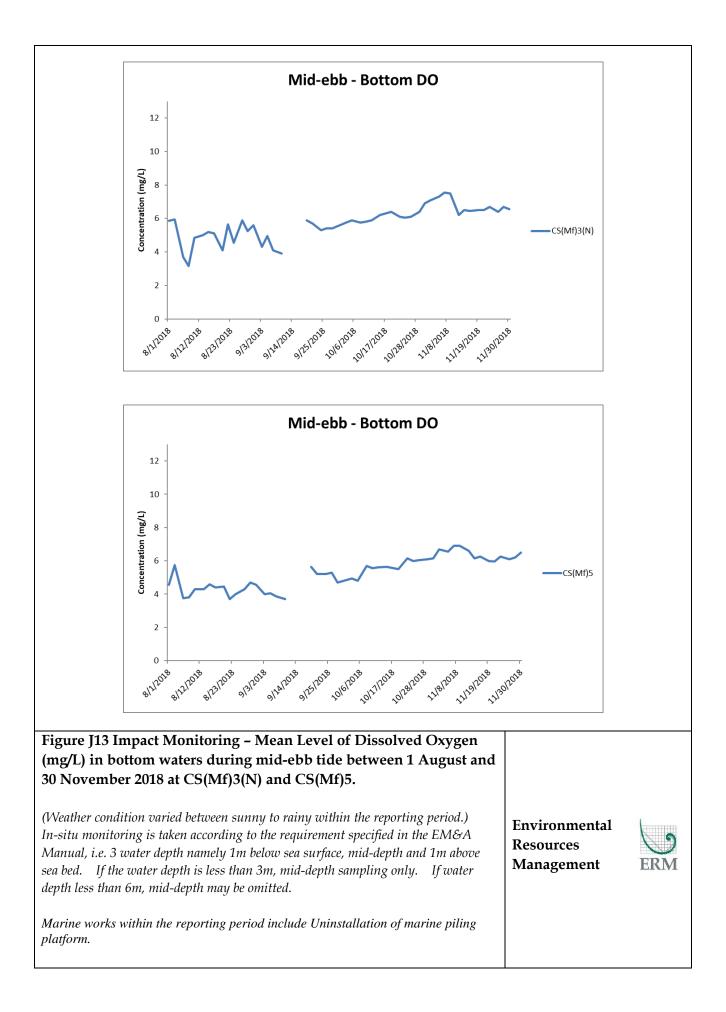


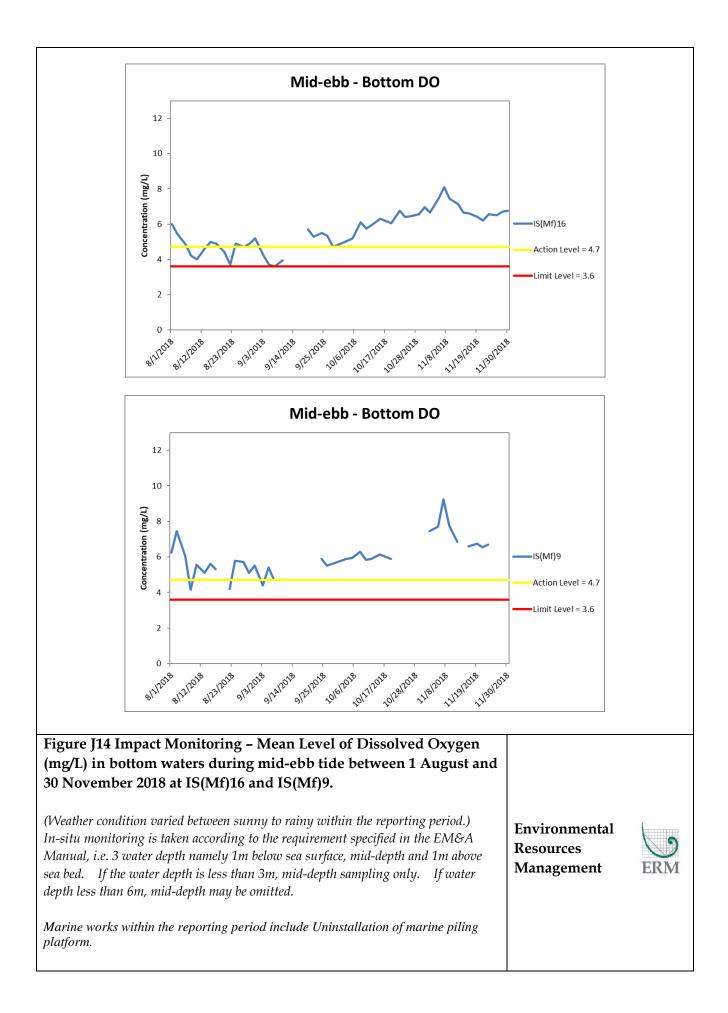


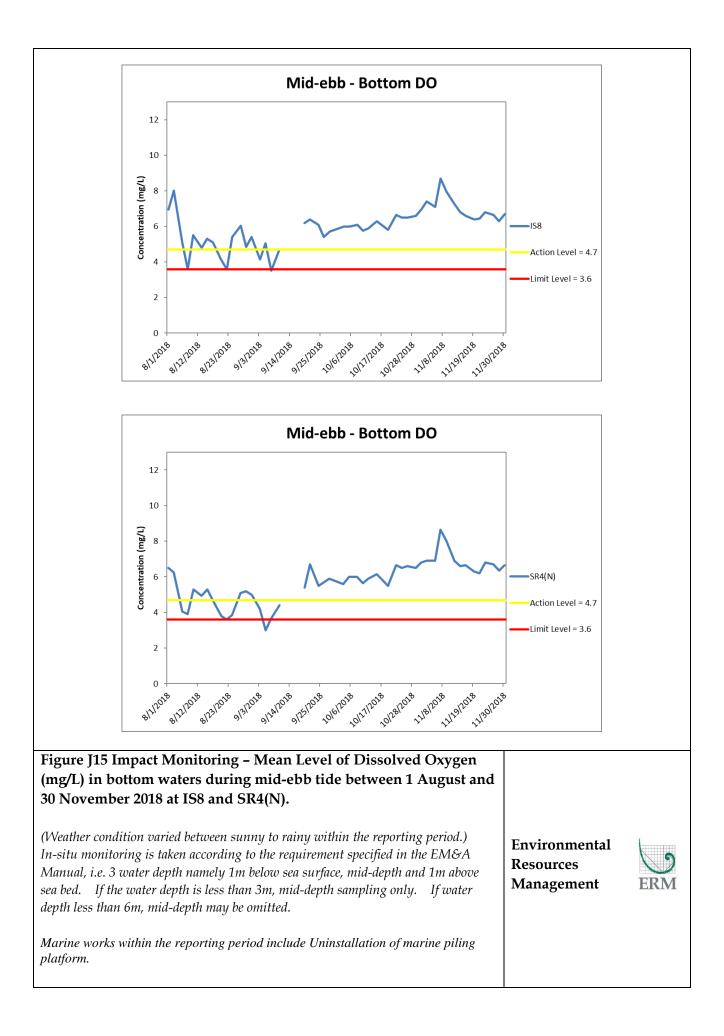


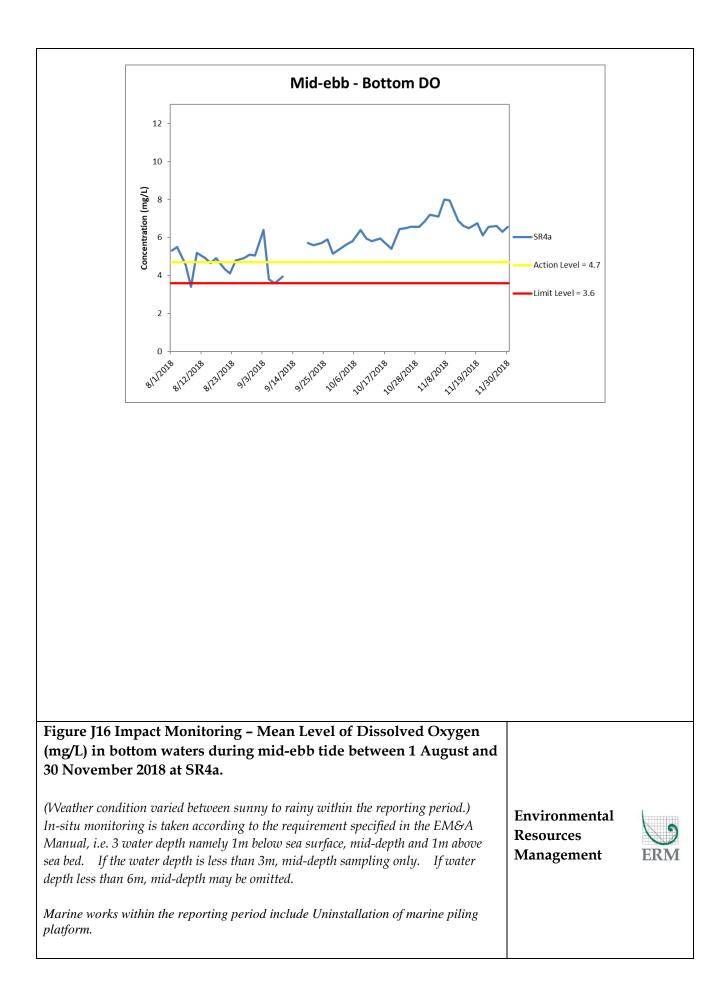


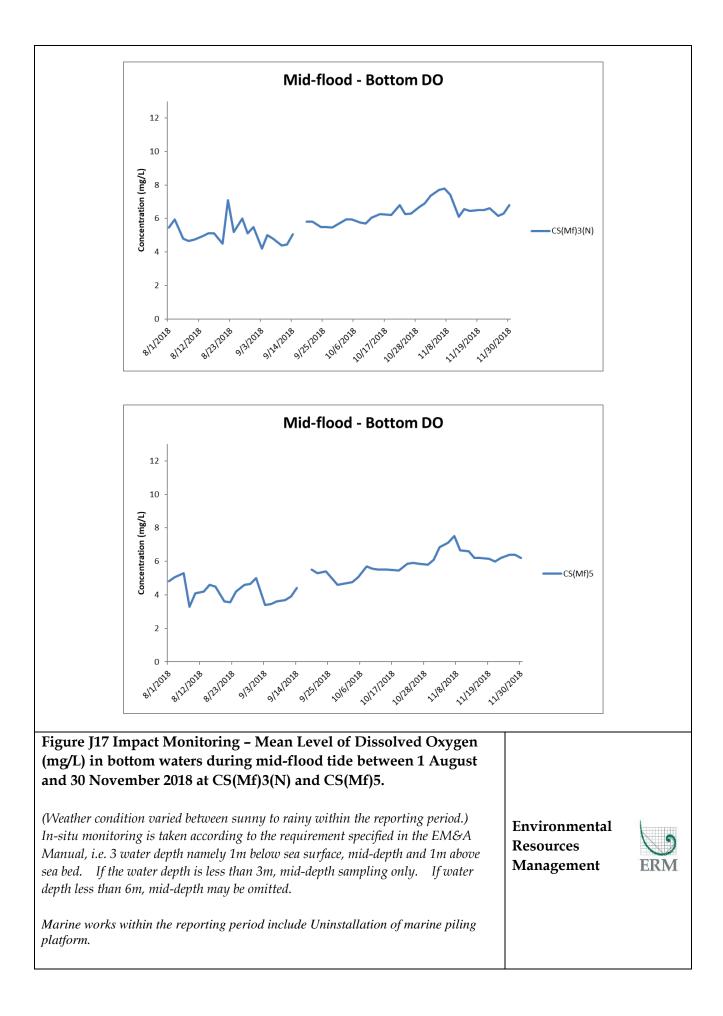


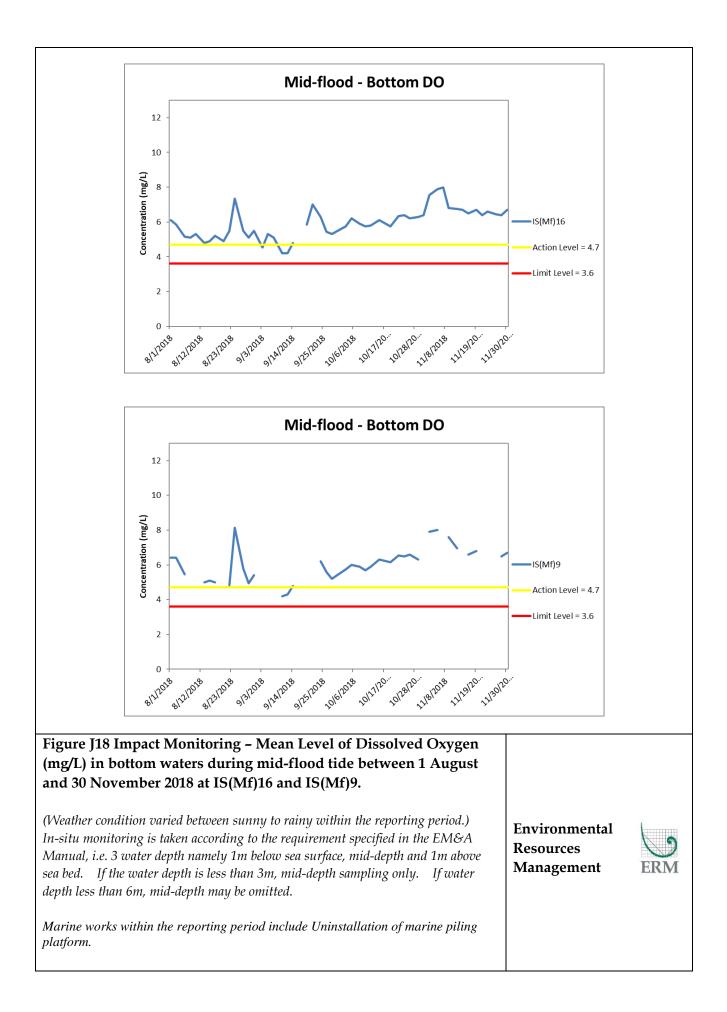


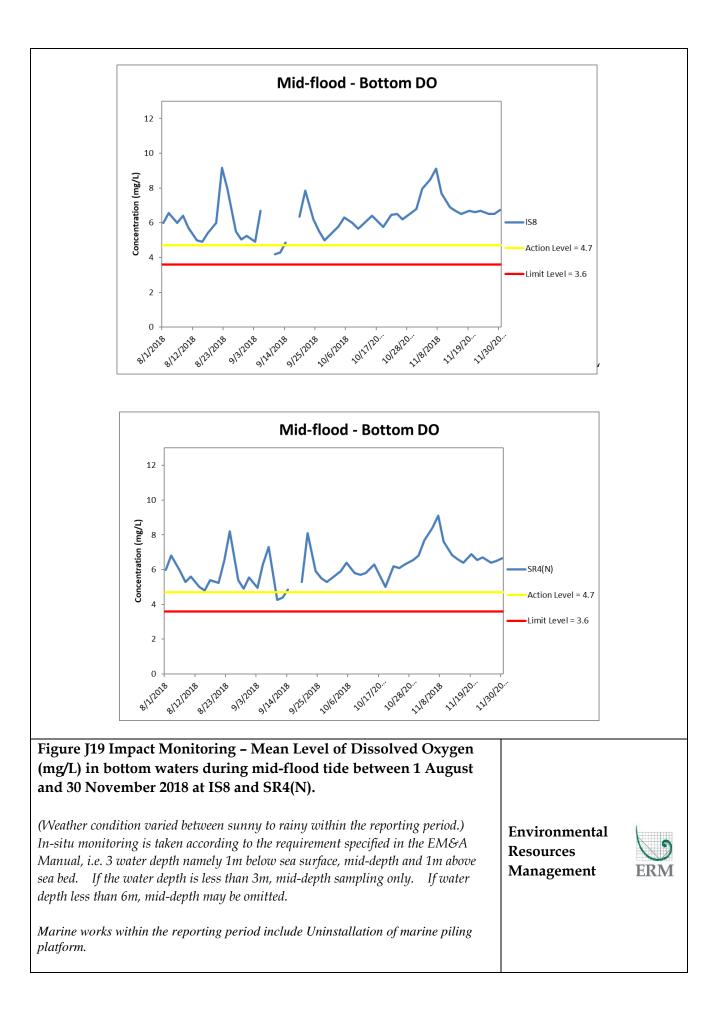


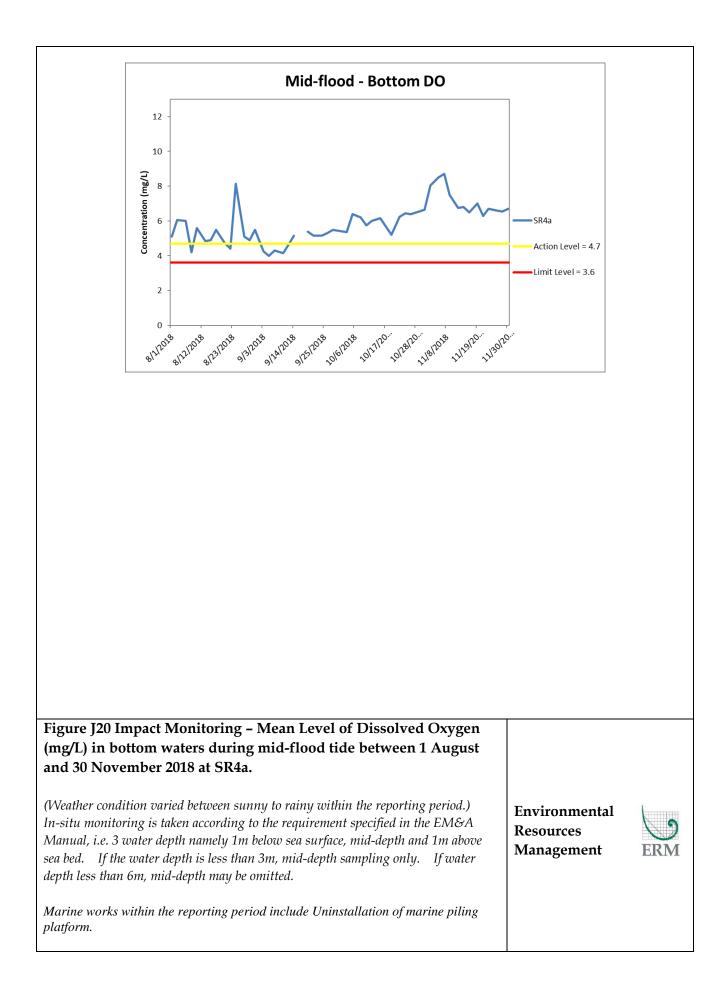


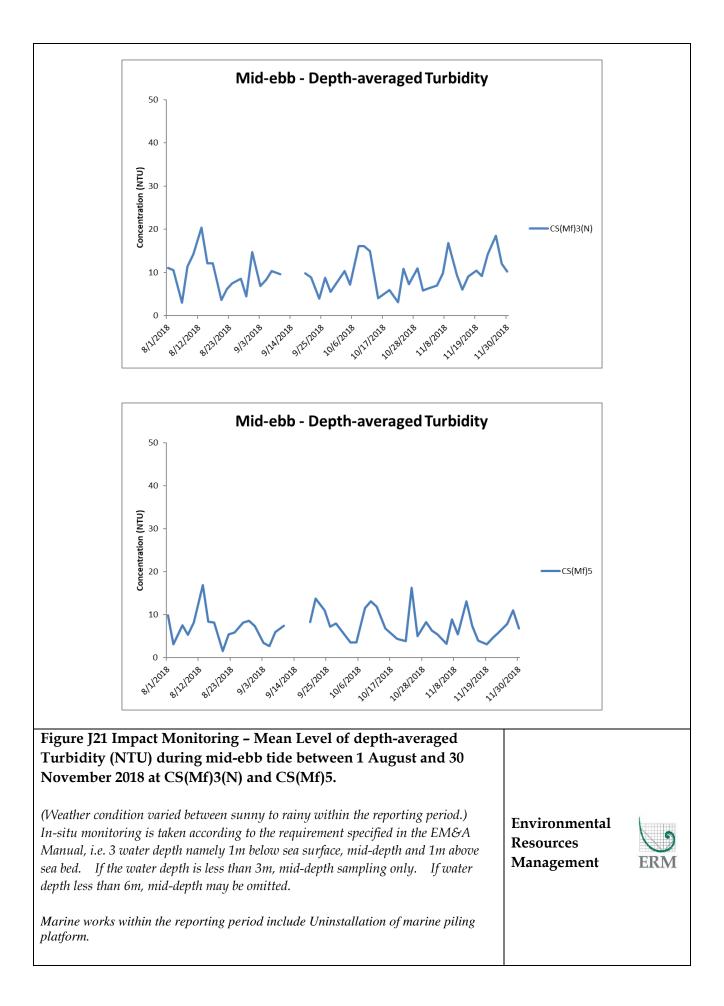


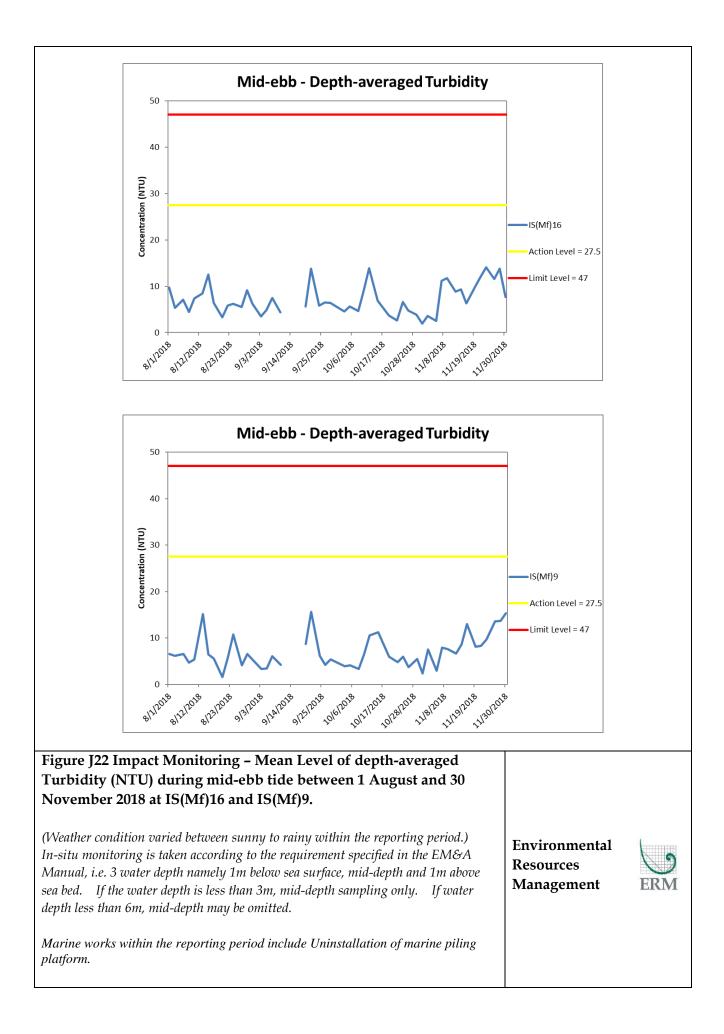


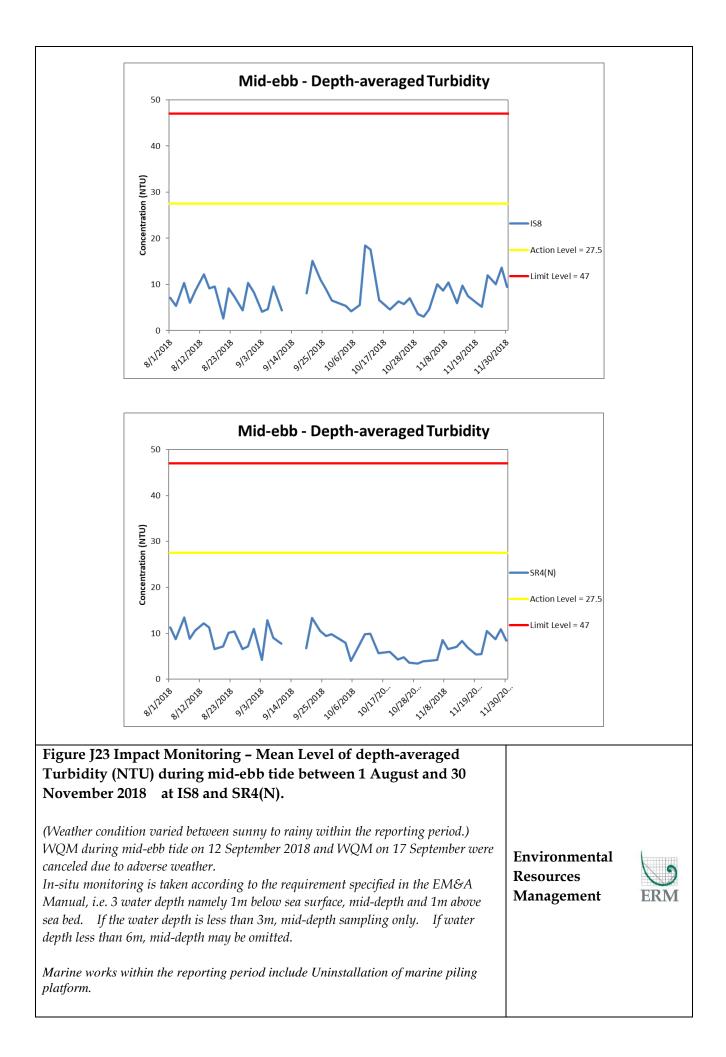


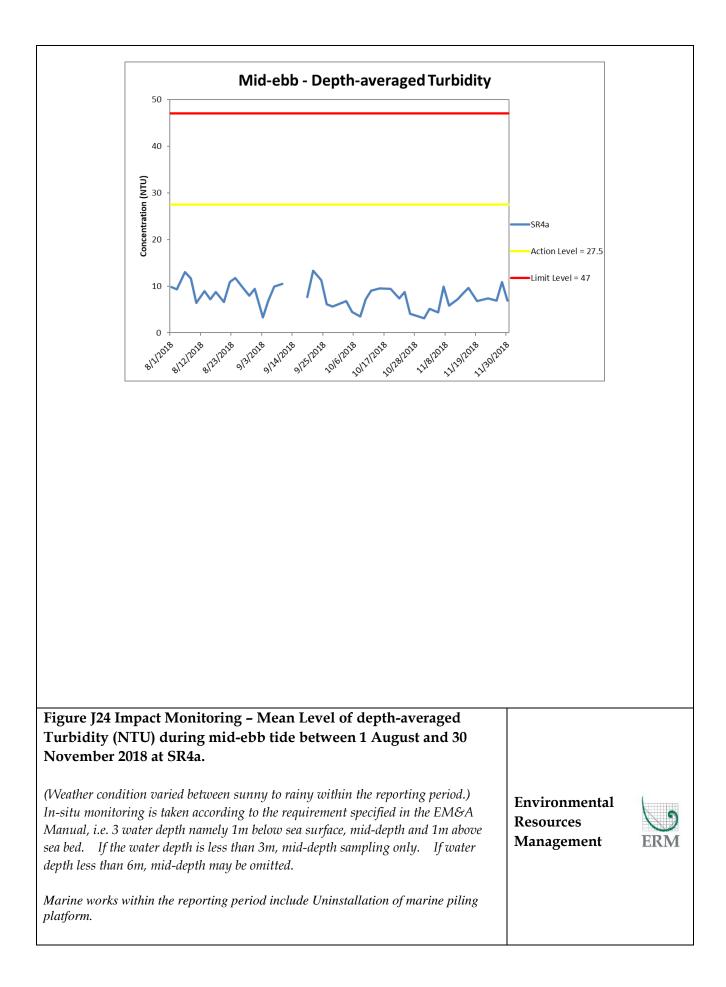


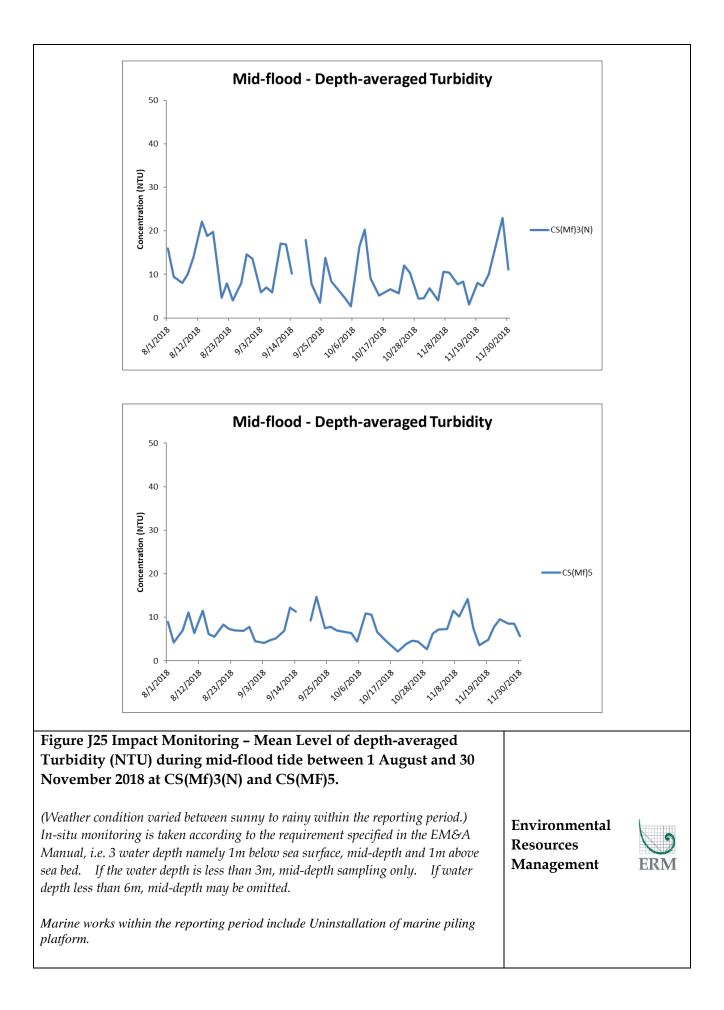


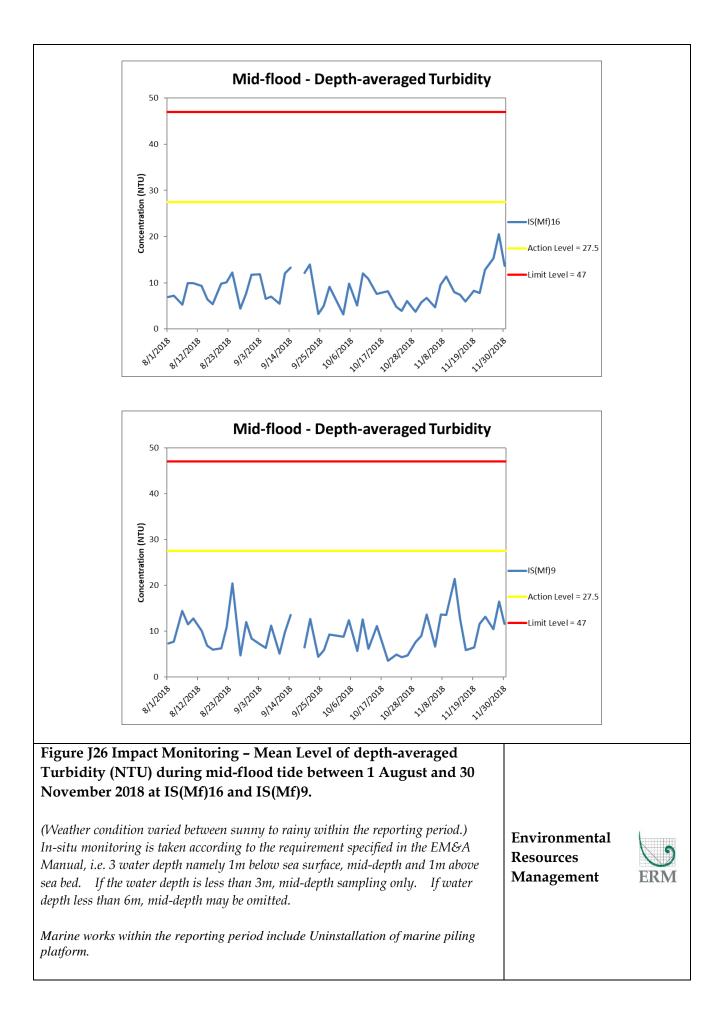


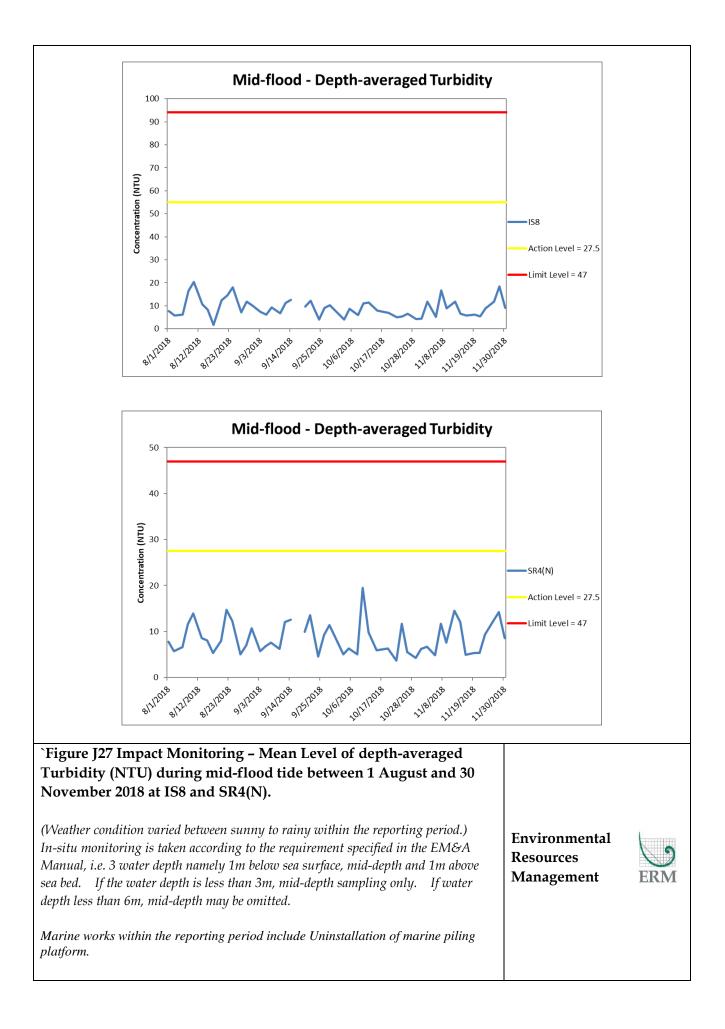


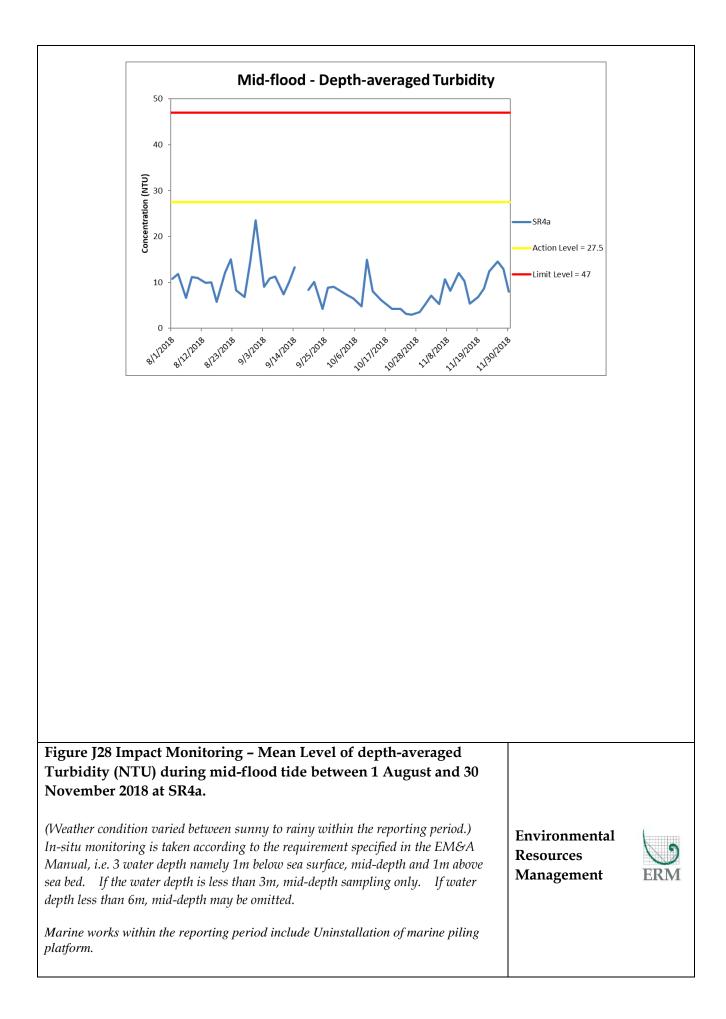


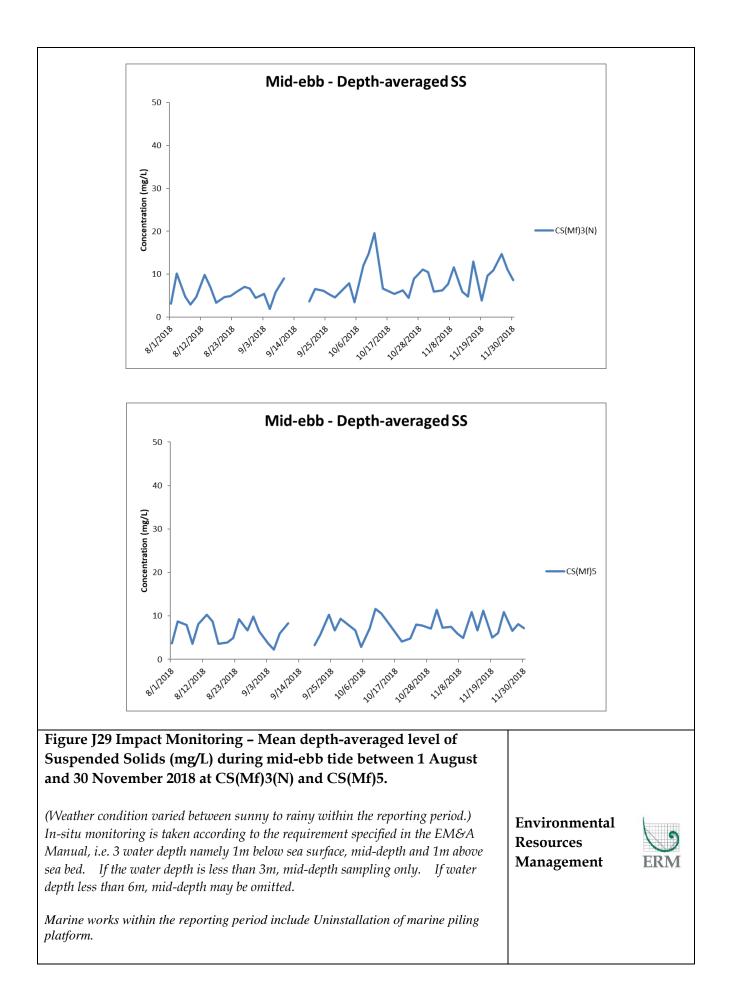


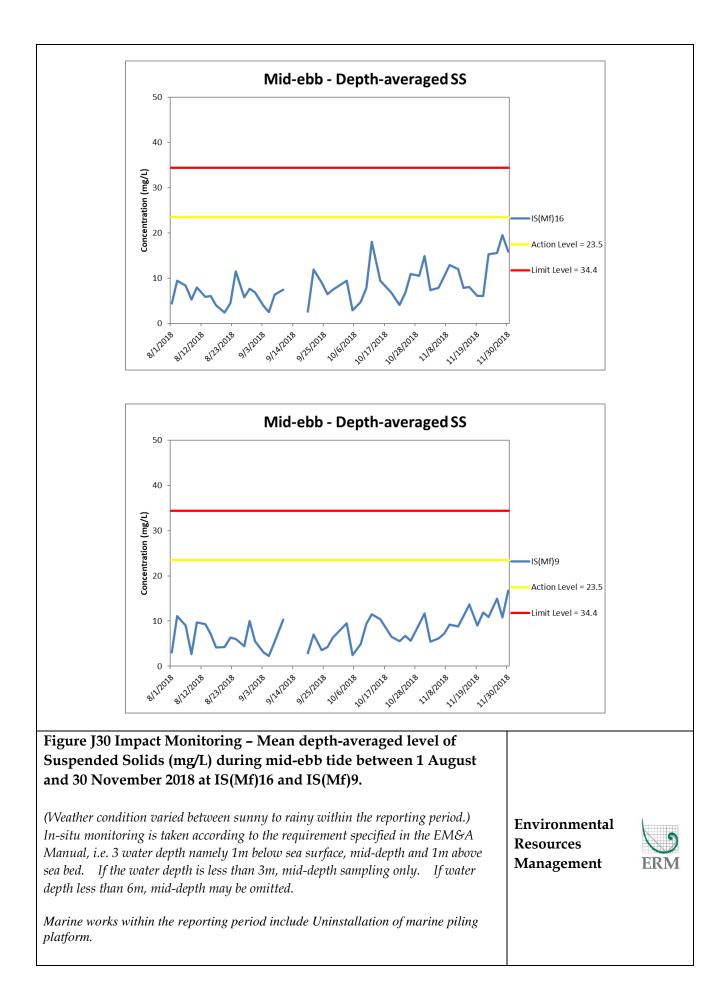


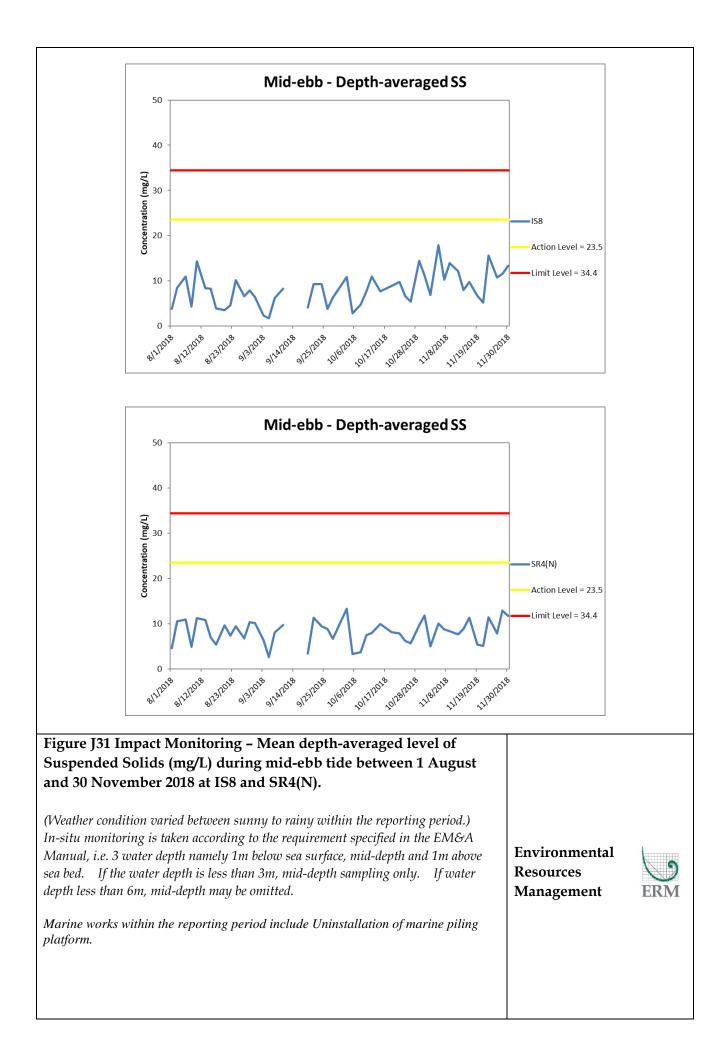


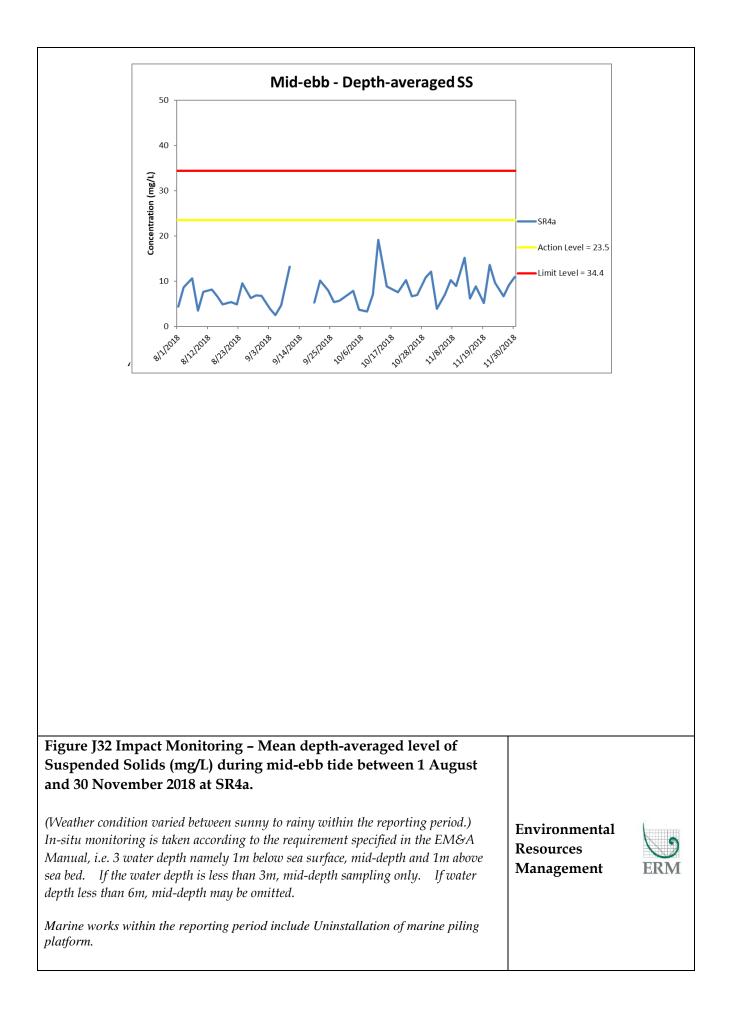


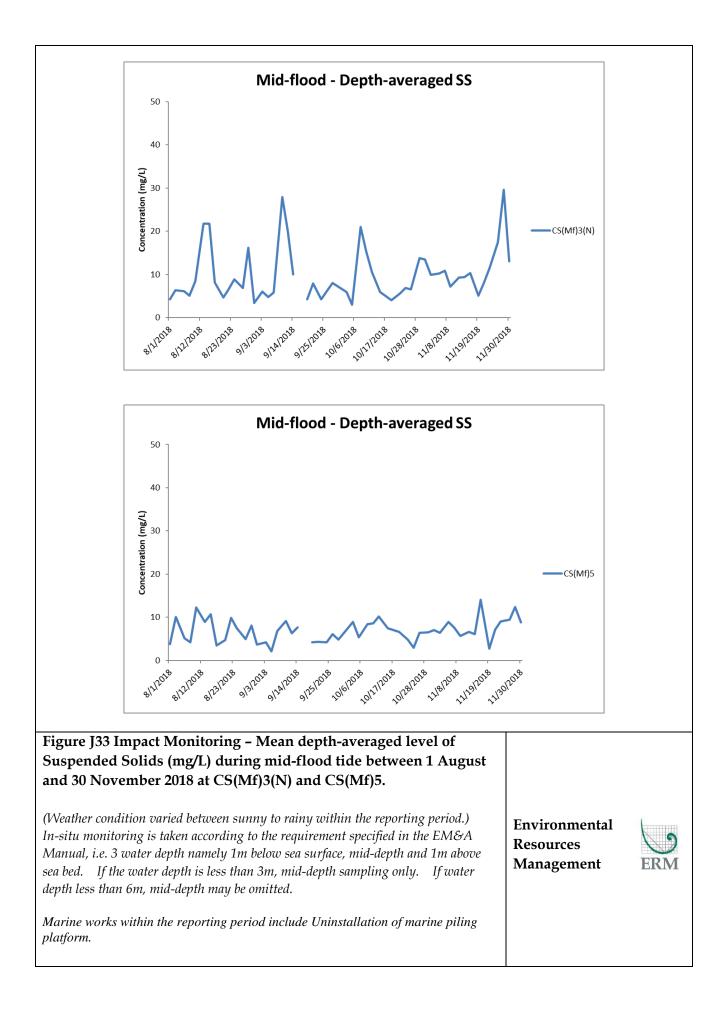


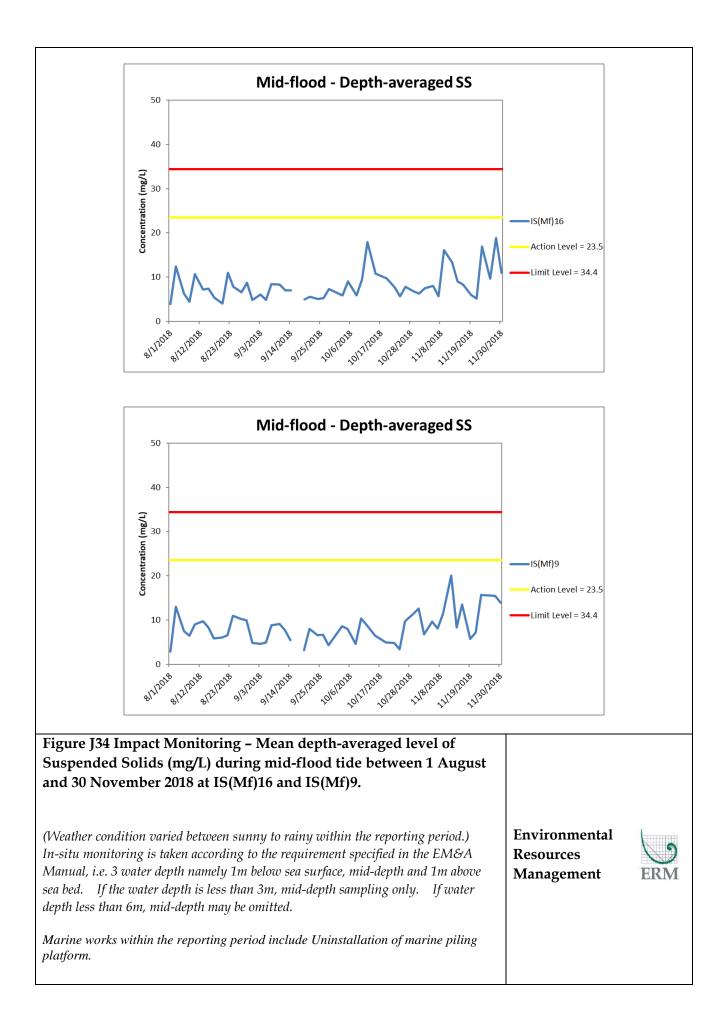


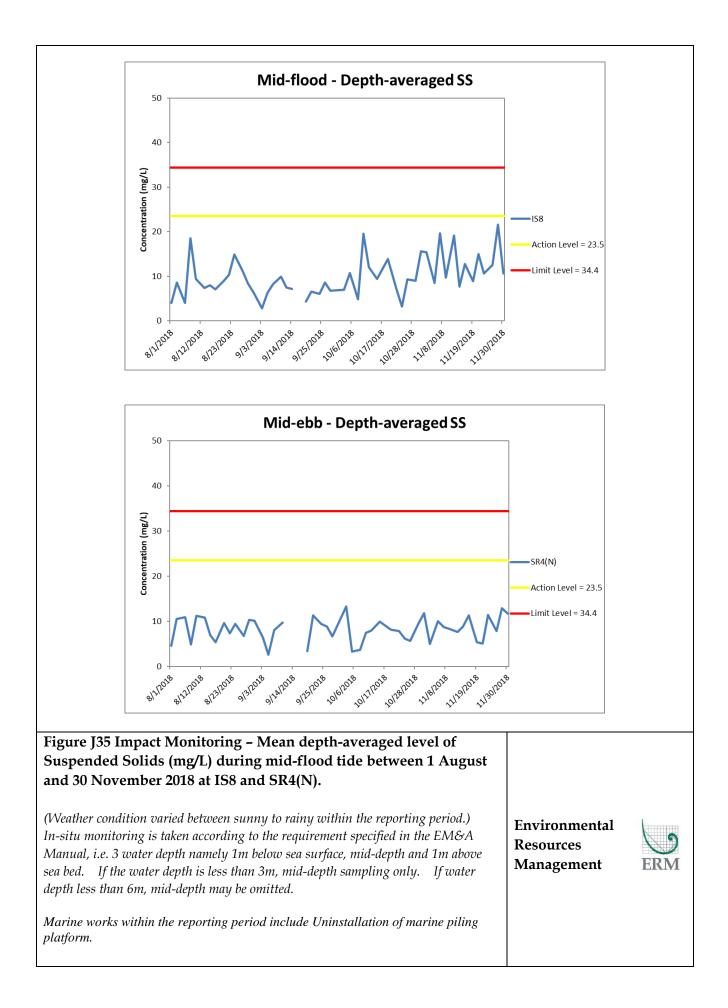


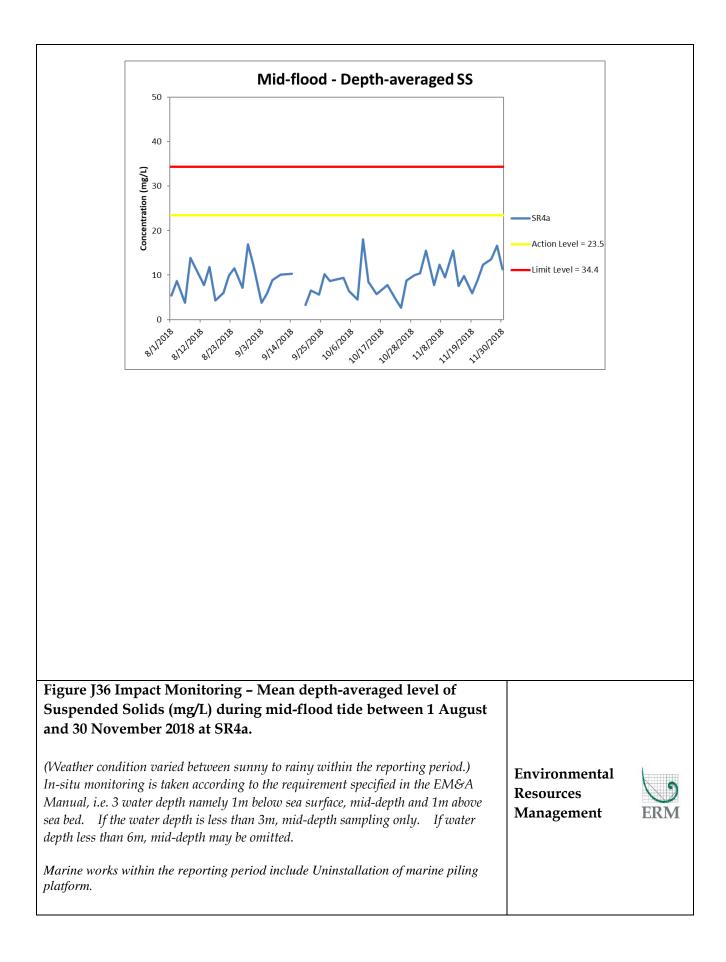












Appendix K

Impact Dolphin Monitoring Survey Results

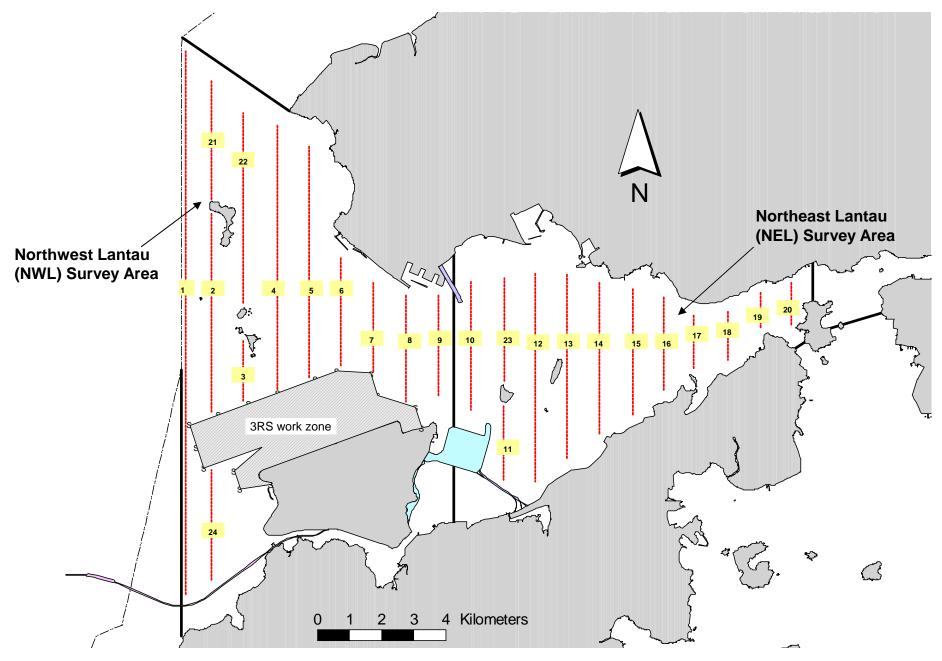


Figure 1. Transect Line Layout in Northwest and Northeast Lantau Survey Areas

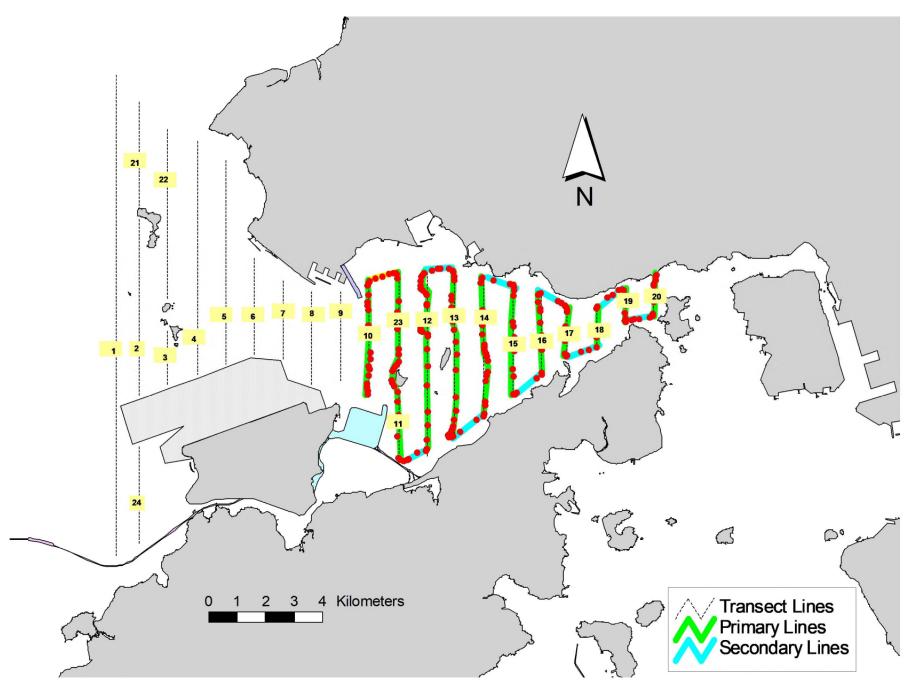


Figure 2. Survey Route on November 1st, 2018 (from HKLR03 project)

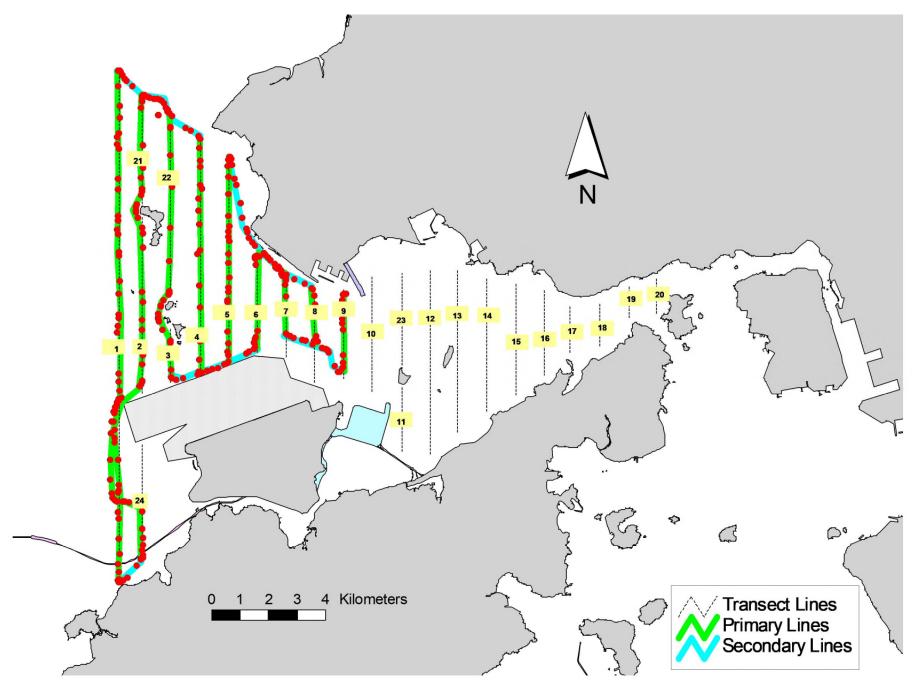


Figure 3. Survey Route on November 6th, 2018 (from HKLR03 project)

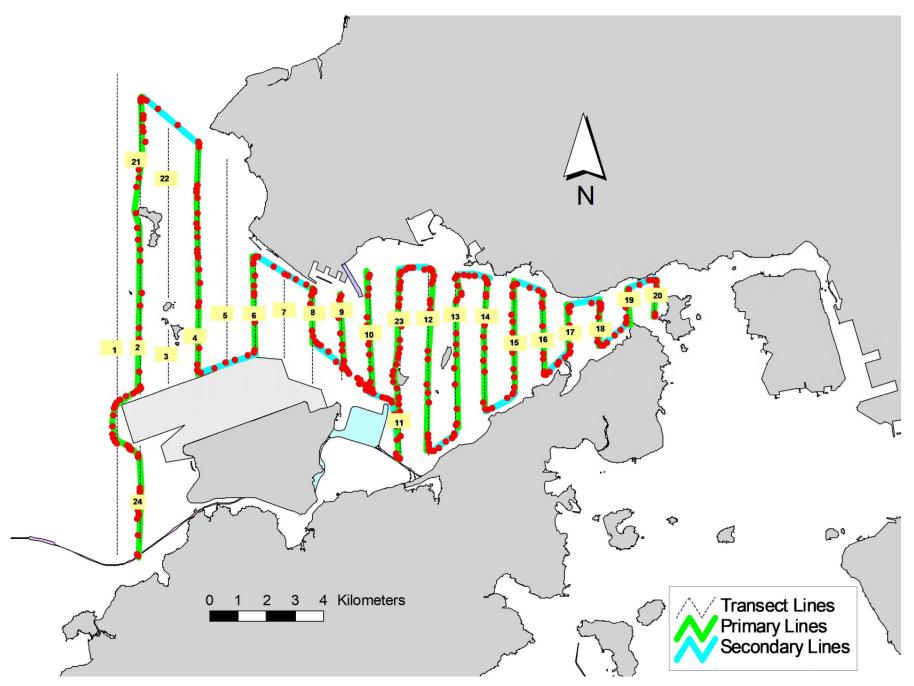


Figure 4. Survey Route on November 8th, 2018 (from HKLR03 project)

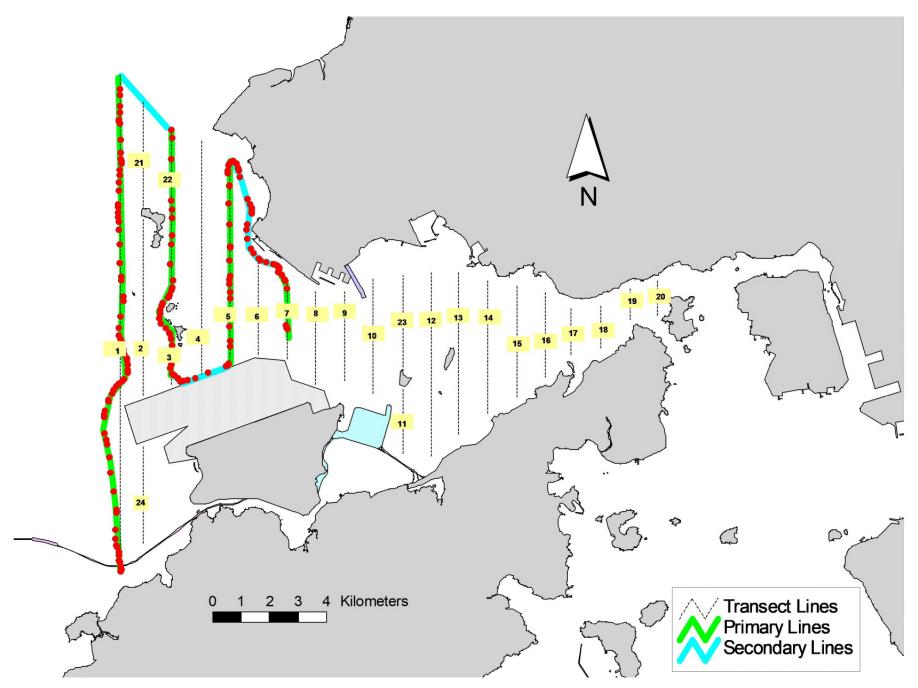


Figure 5. Survey Route on November 13th, 2018 (from HKLR03 project)

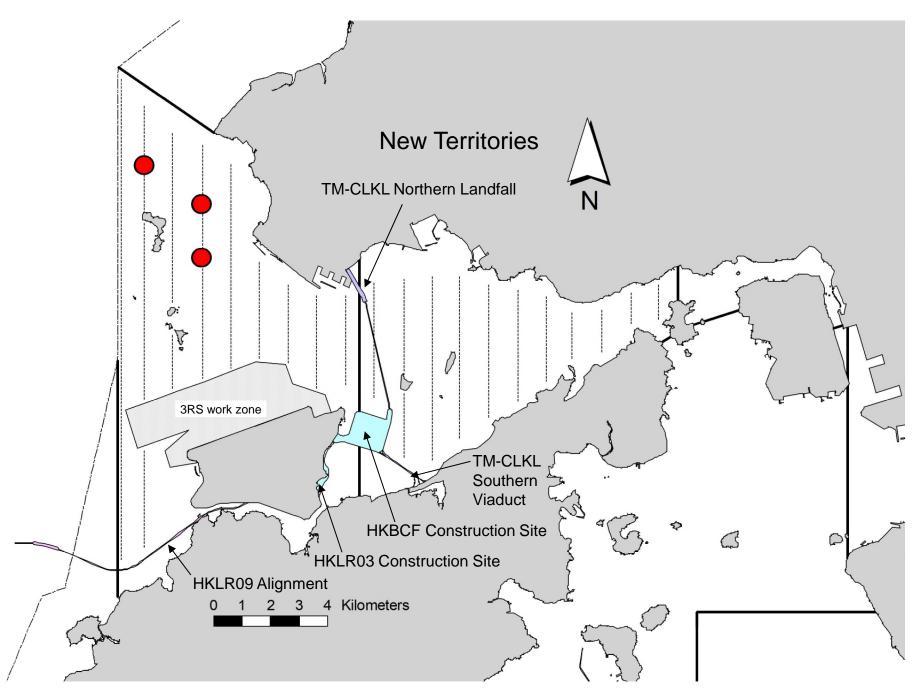


Figure 6. Distribution of Chinese White Dolphin Sightings during November 2018 HKLR03 Monitoring Surveys

Appendix I. HKLR03 Survey Effort Database (November 2018)

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

| DATE | AREA | BEAU | EFFORT | SEASON | VESSEL | TYPE | P/S |
|-----------|-----------|------|--------|--------|---------------|------|-----|
| 01-Nov-18 | NE LANTAU | 2 | 10.78 | AUTUMN | STANDARD36826 | HKLR | Р |
| 01-Nov-18 | NE LANTAU | 3 | 19.78 | AUTUMN | STANDARD36826 | HKLR | Р |
| 01-Nov-18 | NE LANTAU | 4 | 6.85 | AUTUMN | STANDARD36826 | HKLR | Р |
| 01-Nov-18 | NE LANTAU | 2 | 4.88 | AUTUMN | STANDARD36826 | HKLR | S |
| 01-Nov-18 | NE LANTAU | 3 | 7.41 | AUTUMN | STANDARD36826 | HKLR | S |
| 06-Nov-18 | NW LANTAU | 2 | 32.12 | AUTUMN | STANDARD36826 | HKLR | Р |
| 06-Nov-18 | NW LANTAU | 3 | 19.50 | AUTUMN | STANDARD36826 | HKLR | Р |
| 06-Nov-18 | NW LANTAU | 4 | 6.80 | AUTUMN | STANDARD36826 | HKLR | Р |
| 06-Nov-18 | NW LANTAU | 2 | 17.37 | AUTUMN | STANDARD36826 | HKLR | S |
| 06-Nov-18 | NW LANTAU | 3 | 7.91 | AUTUMN | STANDARD36826 | HKLR | S |
| 06-Nov-18 | NW LANTAU | 4 | 2.70 | AUTUMN | STANDARD36826 | HKLR | S |
| 08-Nov-18 | NW LANTAU | 3 | 9.12 | AUTUMN | STANDARD36826 | HKLR | Р |
| 08-Nov-18 | NW LANTAU | 4 | 16.42 | AUTUMN | STANDARD36826 | HKLR | Р |
| 08-Nov-18 | NW LANTAU | 5 | 1.50 | AUTUMN | STANDARD36826 | HKLR | Р |
| 08-Nov-18 | NW LANTAU | 3 | 5.80 | AUTUMN | STANDARD36826 | HKLR | S |
| 08-Nov-18 | NW LANTAU | 4 | 5.75 | AUTUMN | STANDARD36826 | HKLR | S |
| 08-Nov-18 | NW LANTAU | 5 | 1.40 | AUTUMN | STANDARD36826 | HKLR | S |
| 08-Nov-18 | NE LANTAU | 2 | 21.83 | AUTUMN | STANDARD36826 | HKLR | Р |
| 08-Nov-18 | NE LANTAU | 3 | 13.92 | AUTUMN | STANDARD36826 | HKLR | Р |
| 08-Nov-18 | NE LANTAU | 4 | 1.30 | AUTUMN | STANDARD36826 | HKLR | Р |
| 08-Nov-18 | NE LANTAU | 2 | 7.10 | AUTUMN | STANDARD36826 | HKLR | S |
| 08-Nov-18 | NE LANTAU | 3 | 5.64 | AUTUMN | STANDARD36826 | HKLR | S |
| 08-Nov-18 | NE LANTAU | 4 | 0.81 | AUTUMN | STANDARD36826 | HKLR | S |
| 13-Nov-18 | NW LANTAU | 2 | 18.07 | AUTUMN | STANDARD36826 | HKLR | Р |
| 13-Nov-18 | NW LANTAU | 3 | 14.72 | AUTUMN | STANDARD36826 | HKLR | Р |
| 13-Nov-18 | NW LANTAU | 2 | 6.80 | AUTUMN | STANDARD36826 | HKLR | S |
| 13-Nov-18 | NW LANTAU | 3 | 1.71 | AUTUMN | STANDARD36826 | HKLR | S |
| | | | | | | | |

Appendix II. HKLR03 Chinese White Dolphin Sighting Database (November 2018)

(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 |
|-----------|-------|------|--------|-----------|------|-----|--------|------|----------|---------|--------|-------------|-----|
| 06-Nov-18 | 1 | 1107 | 1 | NW LANTAU | 2 | 364 | ON | HKLR | 825486 | 807443 | AUTUMN | NONE | Р |
| 06-Nov-18 | 2 | 1119 | 2 | NW LANTAU | 2 | 221 | ON | HKLR | 827280 | 807456 | AUTUMN | NONE | Р |
| 06-Nov-18 | 3 | 1202 | 2 | NW LANTAU | 2 | 84 | ON | HKLR | 828546 | 805451 | AUTUMN | NONE | Р |
| | | | | | | | | | | | | | |

Appendix III. Individual dolphins identified during HKLR03 monitoring surveys in (November 2018)

| ID# | DATE | STG# | AREA |
|-------|----------|------|-----------|
| NL261 | 06/11/18 | 3 | NW LANTAU |
| NL286 | 06/11/18 | 2 | NW LANTAU |
| NL328 | 06/11/18 | 3 | NW LANTAU |
| | | | |



Appendix IV. Photographs of Identified Individual Dolphins in November 2018 (HKLR03)

Appendix L

Event Action Plan

Appendix L1 Event/ Action Plan for Air Quality

| | ACTION | | | | | | | | |
|--|--|--|---|---|--|--|--|--|--|
| EVENT | ET ⁽¹⁾ | IEC ⁽¹⁾ | SOR ⁽¹⁾ | Contractor | | | | | |
| Action Level | | | | | | | | | |
| 1. Exceedance for one sample | Identify the source. Inform the IEC and the SOR. | Check monitoring data submitted by the ET. | 1. Notify Contractor. | Rectify any unacceptable practice Amend working methods if | | | | | |
| | Repeat measurement to confirm finding. Increase monitoring frequency to | 2. Check Contractor's working method. | | appropriate | | | | | |
| | daily. | | | | | | | | |
| 2. Exceedance for two or more consecutive | 1. Identify the source. | submitted by the ET. 2. Check the Contractor's working | 1. Confirm receipt of notification of | 1. Submit proposals for remedial | | | | | |
| | 2. Inform the IEC and the SOR. | | failure in writing. | actions to IEC within 3 working days of notification | | | | | |
| samples | 3. Repeat measurements to confirm findings. | | Notify the Contractor. Ensure remedial measures properly | 2. Implement the agreed proposa | | | | | |
| | 4. Increase monitoring frequency to daily. | 3. Discuss with the ET and the Contractor on possible remedial | implemented. | 3. Amend proposal if appropriate | | | | | |
| | 5. Discuss with the IEC and the Contractor on remedial actions required. | measures. 4. Advise the SOR on the effectiveness of the proposed remedial measures. | | | | | | | |
| | If exceedance continues, arrange meeting with the IEC and the SOR. | Supervisor implementation of remedial measures. | | | | | | | |
| | 7. If exceedance stops, cease additional monitoring. | | | | | | | | |

| | ACTION | | | | | | | | |
|---|--|---|--|--|--|--|--|--|--|
| EVENT | ET ⁽¹⁾ | IEC ⁽¹⁾ | SOR ⁽¹⁾ | Contractor | | | | | |
| Limit Level | | | | | | | | | |
| 1. Exceedance for one sample | Identify the source. Inform the SOR and the DEP. | 1. Check monitoring data submitted by the ET. | 1. Confirm receipt of notification of failure in writing. | 1. Take immediate action to avoid further exceedance | | | | | |
| | 3. Repeat measurement to confirm finding. | 2. Check Contractor's working method. | Notify the Contractor. Ensure remedial measures are | 2. Submit proposals for remedial actions to IEC within 3 working | | | | | |
| | 4. Increase monitoring frequency to daily. | 3. Discuss with the ET and the Contractor on possible remedial | properly implemented. | days of notification 3. Implement the agreed proposals | | | | | |
| | 5. Assess effectiveness of Contractor's remedial actions and keep the IEC, the DEP and the SOR informed of | measures. 4. Advise the SOR on the effectiveness of the proposed remedial measures. | | 4. Amend proposal if appropriate | | | | | |
| | the results. | 5. Supervisor implementation of remedial measures. | | | | | | | |
| 2. Exceedance for two or more consecutive | 1. Notify the IEC, the SOR, the DEP and the Contractor. | 1. Discuss amongst the SOR, ET and the Contractor on the | Confirm receipt of notification of failure in writing. | Take immediate action to avoid further exceedance. Submit proposals for remedial | | | | | |
| samples | 2. Identify the source. | potential remedial actions. | 2. Notify the Contractor. | | | | | | |
| | Repeat measurements to confirm findings. | 2. Review the Contractor's remedial actions whenever | 3. In consultation with the IEC, agree with the Contractor on the | actions to IEC within 3 working days of notification. | | | | | |
| | 4. Increase monitoring frequency to | necessary to assure their effectiveness and advise the | remedial measures to be | 3. Implement the agreed proposals. | | | | | |
| | daily. | SOR accordingly. | implemented. | 4. Resubmit proposals if problem stil | | | | | |
| | 5. Carry out analysis of the Contractor's working procedures to determine possible mitigation to be | 3. Supervise the implementation of remedial measures. | Ensure remedial measures are properly implemented. If exceedance continues, consider what activity of the work is | not under control. 5. Stop the relevant activity of work as determined by the SOR until exceedance is abated. | | | | | |
| | implemented. | | responsible and instruct the | | | | | | |
| | Arrange meeting with the IEC and the SOR to discuss the remedial actions to be taken. | | Contractor to stop that activity of work until the exceedance is abated. | | | | | | |
| | 7. Assess effectiveness of the Contractor's remedial actions | | | | | | | | |

and keep the IEC, the DEP and the SOR informed of the results.

8. If the exceedance stops, cease additional monitoring.

Appendix L2 Event/Action Plan for Construction Noise

| | ACTION | | | | | | | | | | |
|--|--|--|---|--|--|--|--|--|--|--|--|
| EVENT | ET | IEC | SOR | Contractor | | | | | | | |
| Action Level | Notify the IEC and the Contractor. Carry out investigation. | 1. Review the analysed results submitted by the ET. | 1. Confirm receipt of notification of failure in writing. | 1. Submit noise mitigation proposals to IEC | | | | | | | |
| | Report the results of investigation to the IEC and the Contractor. | measures by the Contractor and | Notify the Contractor. Require the Contractor to propose remedial measures for the analysed noise problem. | 2. Implement noise mitigation proposals | | | | | | | |
| Discuss with the Contractor and formulate remedial measures. Increase monitoring frequency to check mitigation effectiveness. | | advise the SOR accordingly.3. Supervise the implementation of | | | | | | | | | |
| | remedial measures. | Ensure remedial measures are properly implemented. | | | | | | | | | |
| and the Contractor. 2. Identify the source. 3. Repeat measurement to confir | 1. Notify the IEC, the SOR, the DEP and the Contractor. | and the Contractor on the potential | 1. Confirm receipt of notification of failure in writing. | 1. Take immediate action to avoid further exceedance | | | | | | | |
| | 2. Identify the source. | remedial actions. | 2. Notify the Contractor. | 2. Submit proposals for remedial | | | | | | | |
| | Repeat measurement to confirm findings. | Review the Contractor's remedial actions whenever necessary to | 3. Require the Contractor to propose remedial measures for the analysed | actions to IEC within 3 working days of notification | | | | | | | |
| | 4. Increase monitoring frequency. | assure their effectiveness and advise the SOR accordingly. | noise problem. | 3. Implement the agreed proposals | | | | | | | |
| | Carry out analysis of Contractor's working procedures to determine | Supervise the implementation of remedial measures. | 4. Ensure remedial measures are properly implemented. | 4. Resubmit proposals if problem standar control | | | | | | | |
| | possible mitigation to be implemented. | | 5. If exceedance continues, consider what activity of the work is | 5. Stop the relevant activity of works as determined by the SOR until th | | | | | | | |
| 6. 7. | Inform the IEC, the SOR and the DEP the causes & actions taken for the exceedances. | | responsible and instruct the Contractor to stop that activity of work until the exceedance is abated. | exceedance is abated. | | | | | | | |
| | Assess effectiveness of the Contractor's remedial actions and keep the IEC, the DEP and the SOR informed of the results. | | | | | | | | | | |
| | 8. If exceedance stops, cease additional monitoring. | | | | | | | | | | |

Appendix L3Event/Action Plan for Water Quality

| Event | ET | Leader | | IEC | S | OR | | Contractor |
|--|----|---|----|--|----|---|----|---|
| Action level being exceeded by one sampling day | 1. | Repeat in situ measurement on next day of exceedance to confirm findings; | 1. | Check monitoring data submitted by ET and Contractor's working methods. | 1. | Confirm receipt of notification of non-compliance in writing; | 1. | Inform the SOR and confirm notification of the non- compliance in writing; |
| | 2. | Identify source(s) of impact; | | | 2. | Notify Contractor. | 2. | Rectify unacceptable practice; |
| | 3. | Inform IEC, contractor and SOR; | | | | | 3. | Amend working methods if appropriate. |
| | 4. | Check monitoring data, all plant, equipment and Contractor's working methods. | | | | | | appropriate. |
| Action level being exceeded by two or more consecutive sampling days | 1. | Repeat measurement on next day of exceedance to confirm findings; | 1. | Check monitoring data submitted by ET and Contractor's working method; | 1. | Discuss with IEC on the proposed mitigation measures; | 1. | Inform the Supervising Officer and confirm notification of the non- |
| * 0 7 | 2. | Identify source(s) of impact; | • | | • | | | compliance in writing; |
| | 3. | Inform IEC, contractor, SOR and EPD; | 2. | Discuss with ET and Contractor on possible remedial actions; | 2. | Ensure mitigation measures are properly implemented; | 2. | Rectify unacceptable practice; |
| | 4. | Check monitoring data, all plant, equipment and Contractor's working methods; | 3. | Review the proposed mitigation measures submitted by Contractor and advise the SOR accordingly; | 3. | Assess the effectiveness of the implemented mitigation measures. | 3. | Check all plant and equipment and consider changes of working methods; |
| | 5. | Discuss mitigation measures with IEC, SOR and Contractor; | 4. | Supervise the implementation of mitigation measures. | | | 4. | Submit proposal of additional mitigation measures to SOR within 3 working days of |
| | 6. | Ensure mitigation measures are implemented; | | mugaton neusures. | | | | notification and discuss with ET, IEC and SOR; |
| | 7. | Increase the monitoring frequency to daily until no exceedance of Action level; | | | | | 5. | Implement the agreed mitigation measures. |
| Limit level being exceeded by one sampling day | 1. | Repeat measurement on next day of exceedance to confirm findings; | 1. | Check monitoring data submitted by ET and Contractor's working method; | 1. | Confirm receipt of notification of failure in writing; | 1. | Inform the SOR and confirm notification of the non-compliance in writing; |

| Event | ET | Leader | | IEC | SC | DR | | Contractor |
|---|----|---|----|--|----|---|----|---|
| | 2. | Identify source(s) of impact; | | 2 | 2. | Discuss with IEC, ET and | | |
| | 3. | Inform IEC, contractor, SOR and EPD; | 2. | Discuss with ET and Contractor on possible remedial actions; | | Contractor on the proposed mitigation measures; | 2. | Rectify unacceptable practice; |
| | 4. | Check monitoring data, all plant, equipment and Contractor's working methods; | 3. | Review the proposed mitigation 3 measures submitted by Contractor and advise the SOR | 3. | Request Contractor to review the working methods. | 3. | Check all plant and equipment and consider changes of working methods; |
| | 5. | Discuss mitigation measures with IEC, SOR and Contractor; | | accordingly. | | | 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 | 1. | Repeat measurement on next day of exceedance to confirm findings; | 1. | Check monitoring data submitted by ET and Contractor's working method; | | 1. Discuss with IEC, ET and Contractor on the proposed mitigation | 1. | Take immediate action to avoid further exceedance; |
| sampling days | 2. | Identify source(s) of impact; | 2. | Discuss with ET and Contractor | | measures; 2. Request Contractor to | 2. | Submit proposal of mitigation measures to SOR within 3 |
| | 3. | Inform IEC, contractor, SOR and EPD; | | on possible remedial actions; | | critically review the working methods; | | working days of notification and discuss with ET, IEC and |
| | 4. | Check monitoring data, all plant, equipment and Contractor's working | 3. | Review the Contractor's mitigation measures whenever | | 3. Make agreement on the mitigation measures to be | | SOR; |
| | | methods; | | necessary to assure their effectiveness and advise the | | implemented; 4. | 3. | Implement the agreed mitigation measures; |
| | 5. | Discuss mitigation measures with IEC, SOR and Contractor; | | SOR accordingly; | | 5. Ensure mitigation measures are properly implemented; | 4. | Resubmit proposals of |
| | 6. | Ensure mitigation measures are implemented; | 4. | Supervise the implementation of mitigation measures. | | 6.7. Consider and instruct, if necessary, the Contractor to slow down or to stop all | | mitigation measures if problem still not under control; |
| | 7. | Increase the monitoring frequency to daily until no exceedance of Limit level for two consecutive days; | | | | or part of the construction activities until no exceedance of Limit level. | 5. | As directed by the Supervising Officer, to slow down or to stop all or part of the construction activities until no exceedance of Limit level. |

| Event | ET Leader | IEC | SOR | Contractor | |
|--------------|---|--|---|--|--|
| Action Level | 1. Repeat statistical data analysis to confirm findings; | 1. Check monitoring data submitted by ET and Contractor; | 1. Discuss monitoring with the IEC and any other measures | 1. Inform the SOR and confirm notification of the non- | |
| | 2. Review all available and relevant data, including | | proposed by the ET; | compliance in writing; | |
| | raw data and statistical analysis results of other | 2. Discuss monitoring results and | | | |
| | parameters covered in the EM&A, to ascertain if | findings with the ET and the | 2. If SOR is satisfied with the | 2. Discuss with the ET and the | |
| | differences are as a result of natural variation or | Contractor. | proposal of any other measures, | IEC and propose measures to | |
| | previously observed seasonal differences; | | SOR to signify the agreement in writing on the measures to be | the IEC and the SOR; | |
| | 3. Identify source(s) of impact; | | implemented. | Implement the agreed measures. | |
| | 4. Inform the IEC, SOR and Contractor; | | | incusures. | |
| 5. 0 | 5. Check monitoring data. | | | | |
| | Review to ensure all the dolphin protective measures are fully and properly implemented and advise on additional measures if necessary. | | | | |

Appendix L4Implementation of Event-Action Plan for Dolphin Monitoring

| Event ET | Leader | IEC | SOR | Contractor |
|--|---|--|--|--|
| Limit Level 1. 1 2. 1 3. 1 4. 1 5. 0 6. 1 7. 1 4 7. 1 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 | 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, ER/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, ER/SOR and Contractor the necessity of additional dolphin monitoring and/or any other potential mitigation measures (e.g., consider to modify the perimeter silt curtain or consider to control/temporarily stop relevant construction activity etc.) and submit to IEC a proposal of additional dolphin monitoring and/or mitigation measures where necessary. | 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, ER/SOR and Contractor the necessity of additional dolphin monitoring and any other potential mitigation measures; Review proposals for additional monitoring and any other mitigation measures submitted by ET and Contractor and advise ER/SOR of the results and findings accordingly; Supervise / Audit the implementation of additional monitoring and/or any other mitigation measures and advise ER/SOR the results and findings accordingly. | Attend the meeting to discuss with ET, IEC and Contractor the necessity of additional dolphin monitoring and any other potential mitigation measures; If ER/SOR is satisfied with the proposals for additional dolphin monitoring and/or any other mitigation measures submitted by ET and Contractor and verified by IEC, ER/SOR to signify the agreement in writing | Inform the ER/SOR and confirm notification of the non- compliance in writing; Attend the meeting to discuss with ET, IEC and ER/SOR the necessity of additional dolphin monitoring and any other potential mitigation measures; Jointly submit with ET to IEC a proposal of additional dolphin monitoring and/or any other mitigation measures when necessary; Implement the agreed additional dolphin monitoring and/or any other mitigation measures. |

| EVENT | | ACTION | | |
|---|--|---|--|--|
| | ET Leader | IEC | SO | Contractor |
| Action Level | | | | |
| With the numerical values presented in <i>Table 5.7</i> of <i>Baseline Monitoring Report</i> , when any of the response variable for dolphin acoustic behaviour recorded in the construction phase monitoring is 20% lower or higher than that recorded in the baseline monitoring (see <i>Table 5.8</i> of <i>Baseline</i> <i>Monitoring Report</i>), or when there is a difference of 20% in dolphin acoustic signal detection at nighttime period at Site C1 only, the action level should be triggered | Repeat statistical data analysis to confirm findings; Review all available and relevant data to ascertain if differences are as a result of natural variation or seasonal differences; Identify source(s) of impact; Inform the IEC, SO and Contractor; Check monitoring data; Carry out audit to ensure all dolphin protective measures are implemented fully and additional measures be proposed if necessary | Check monitoring data submitted by ET and Contractor; Discuss monitoring with the ET and the Contractor; | Discuss with the IEC the repeat monitoring and any other measures proposed by the ET; Make agreement on measures to be implemented. | Inform the SO and confirm notification of the non- compliance in writing; Discuss with the ET and the IEC and propose measures to the IEC and the SO; Implement the agreed measures. |

Appendix L5 Event and Action Plan on Dolphin Acoustic Behaviour

| EVENT | | ACTION | | |
|---|--|---|--|--|
| | ET Leader | IEC | SO | Contractor |
| Limit Level | | | | |
| With the numerical values presented in Table 5.7 of <i>Baseline Monitoring Report</i> , when any of the response variable for dolphin acoustic behaviour recorded in the construction phase monitoring is 40% lower or higher than that recorded in the baseline monitoring (see Table 5.8 of <i>Baseline Monitoring Report</i>), or when there is a difference of 40% in dolphin acoustic signal detection at nighttime at Site C1 only, the limit level should be triggered | Repeat statistical data analysis to confirm findings; Review all available and relevant data to ascertain if differences are as a result of natural variation or seasonal differences; Identify source(s) of impact; Inform the IEC, SO and Contractor; Check monitoring data; Carry out audit to ensure all dolphin protective measures are implemented fully and additional measures be proposed if necessary Discuss additional dolphin monitoring and any other potential mitigation measures (eg consider to temporarily stop relevant portion of construction activity) with the IEC and Contractor. | Check monitoring data submitted by ET and Contractor; Discuss monitoring with the ET and the Contractor; Review proposals for additional monitoring and any other measures submitted by the Contractor and advise ER accordingly. | Discuss with the IEC the repeat monitoring and any other measures proposed by the ET; Make agreement on measures to be implemented. | Inform the SO and confirm notification of the non- compliance in writing; Discuss with the ET and the IEC and propose measures to the IEC and the SO; Implement the agreed measures. |

Abbreviations: ET - Environmental Team, IEC - Independent Environmental Checker, SO - Supervising Office, DEP - Director of Environmental Protection

Appendix M

Monthly Summary of Waste Flow Table

Contract No. : HY/2012/07 Tuen Mun Chek Lap Kok Link – Southern Connection Viaduct Section Monthly Summary Waste Flow Table for 2018 (Year)

| | Actual Quantities of Inert C&D Materials Generation | | | | | | Actual Quantities of C&D wastes Generation | | | | | Actual Quantities of Recyclables Generation | | | | |
|----------------|---|--|---------------------------|--------------------------|-----------------------------|-----------------------|--|--------------------------------|--------------------------------|-------------------------------|-------------------|---|----------|--------------|----------------------------------|----------|
| Month\Material | Total Quantity Generated | Hard Rock and Large Broken Concrete | Reused in the Contract | Reused in other Projects | Disposed as Public Fills | Imported Fill | Marine Sediment, Cat. L | Marine Sediment, Cat. Mp | Marine Sediment, Cat. Mf | Marine Sediment, Cat. H | Chemical Waste | General Refuse | Metals | Felled trees | Paper/ cardboard packaging | Plastics |
| Unit | ('000m ³) | ('000m ³) | ('000m ³) | ('000m ³) | ('000m ³) | ('000m ³) | ('000m ³) | ('000m ³) | ('000m ³) | ('000m ³) | ('000Kg) | ('000Kg) | ('000Kg) | ('000Kg) | ('000Kg) | ('000Kg) |
| Jan | 4.288 | 0.405 | 0.137 | - | 4.151 | - | - | - | - | - | - | 211.060 | - | 2.540 | 0.084 | - |
| Feb | 2.662 | 0.241 | 0.826 | - | 1.836 | - | - | - | - | - | - | 184.880 | - | 12.280 | 0.028 | - |
| Mar | 5.916 | 0.289 | 2.503 | - | 1.536 | 1.877 | - | - | - | - | 1.200 | 307.670 | - | 30.190 | 0.161 | - |
| Apr | 6.103 | 0.352 | 0.852 | - | 1.274 | 3.977 | - | - | - | - | - | 349.640 | - | 19.150 | 0.112 | - |
| May | 4.492 | 0.616 | 1.333 | 0.148 | 1.676 | 1.336 | - | - | - | - | - | 438.160 | - | - | 0.056 | - |
| Jun | 2.801 | 0.763 | 1.134 | - | 1.600 | 0.067 | - | - | - | - | | 669.690 | - | 9.570 | 0.035 | - |
| SUB-TOTAL | 26.262 | 2.666 | 6.783 | 0.148 | 12.074 | 7.257 | • | - | - | - | 1.200 | 2161.100 | - | 73.730 | 0.476 | - |
| Jul | 1.361 | 0.555 | 0.208 | - | 0.973 | 0.181 | - | - | - | - | - | 639.210 | - | 13.260 | 0.056 | - |
| Aug | 2.369 | 0.357 | 0.104 | 0.085 | 0.726 | 1.455 | - | - | - | - | 1.200 | 508.670 | - | - | - | - |
| Sep | 1.866 | 0.700 | - | - | 1.866 | - | - | - | - | - | 4.000 | 419.480 | - | 4.930 | 0.056 | - |
| Oct | 3.182 | 1.956 | 0.059 | - | 3.123 | - | - | - | - | - | 4.800 | 365.740 | - | - | 0.056 | - |
| Nov | 5.090 | 1.592 | - | - | 5.090 | - | - | - | - | - | 2.600 | 406.980 | - | - | - | - |
| Dec | - | | - | - | - | - | - | - | - | - | | | - | | | - |
| TOTAL | 40.130 | 7.825 | 7.153 | 0.233 | 23.851 | 8.893 | - | - | - | - | 13.800 | 4,501.180 | - | 91.920 | 0.644 | - |

Notes :

1 - The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.

2 - Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material.

3 - Broken concrete for recycling into aggregates.

4 - Assumed 5 kg per damaged water-filled barrier.

5 - Disposed as Public Fills includes Hard Rock and Large Broken Concrete.

Appendix N

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

Appendix N1 Cumulative Statistics on Exceedances

| | | Total No. recorded in this reporting month | Total No. recorded since project commencement | | |
|----------------|--------|--|---|--|--|
| 1-Hr TSP | Action | 0 | 0 | | |
| | Limit | 0 | 1 | | |
| 24-Hr TSP | Action | 0 | 2 | | |
| | Limit | 0 | 0 | | |
| Noise | Action | 0 | 0 | | |
| | Limit | 0 | 0 | | |
| Water Quality | Action | 0 | 224 | | |
| - | Limit | 0 | 24 | | |
| Impact Dolphin | Action | 0 | 11 | | |
| Monitoring | Limit | 1 | 14 | | |

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

| Reporting Period | Cumulative Statistics | | | | | | |
|---|-----------------------|------------------|--------------|--|--|--|--|
| | Complaints | Notifications of | Successful | | | | |
| | | Summons | Prosecutions | | | | |
| This Reporting Month (November 2018) | 0 | 0 | 0 | | | | |
| Total No. received since project commencement | 14 | 0 | 0 | | | | |