

PCCW Global®

Pacific Light Cable Network (PLCN) - Deep Water Bay (EP-539/2017)

Phase 2 - 1st Weekly Water Quality
Impact Monitoring Report

Jul 2018

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

www.erm.com





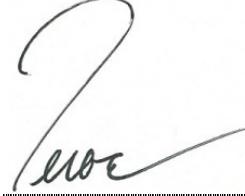
Pacific Light Cable Network (PLCN) – Deep Water Bay (EP-539/2017)

Phase 2 - 1st Weekly Water Quality Impact Monitoring Report

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Environmental Resources Management

2507, 25/F
One Harbourfront,
18 Tak Fung Street
Hung Hom, 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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		Date: 19 Jul 2018	Approved by :		
					
		<i>Terence Fong</i> <i>Partner</i>			
0	Phase 2 - 1st Weekly Water Quality Impact Monitoring Report	NN	FZino	TFONG	19 Jul 18
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Pacific Light Cable Network (PLCN) – Deep Water Bay

Environmental Certification Sheet

EP-539/2017

Reference Document/Plan

Document/Plan to be Certified / Verified:	<i>Phase 2 - 1st Weekly Water Quality Impact Monitoring Report</i>
Date of Report:	18 July 2018
Date prepared by ET:	ERM-Hong Kong Ltd
Date received by IEC:	Ecosystem Ltd

Reference EM&A Manual/ EP Requirement

EM&A Manual Requirement:	Section 2
Content:	<i>Water Quality Monitoring</i>
G.2.3.1 "The impact monitoring works shall cover all monitoring stations within the same area (Area A or Area B as shown in Figure G1, G2a and G2b) as the works being undertaken for the cable installation/ repair operation. ..."	
G2.5 The reports to be provided shall include: <ul style="list-style-type: none">• Baseline Monitoring Report;• Weekly Impact Monitoring Reports; and• Post Project Monitoring Report. ...The Impact Monitoring Report will be provided weekly within three days after the relevant monitoring data are collected or become available during the cable installation/ repair operation work.	
EP Condition:	Conditions No. 3.2 – 3.3
Content:	<i>Water Quality Monitoring</i>
3.2	Samples, measurements and necessary remedial actions shall be taken in accordance with the EM&A requirements described in the Project Profile (Register No. PP-550/2017) by: <ul style="list-style-type: none">(a) conducting baseline environmental monitoring;(b) conducting impact monitoring; and(c) carrying out remedial actions in accordance to the EM&A requirements as described in the Project Profile (Register No. PP-550/2017), or as agreed by the Director, in case where specified criteria in the EM&A requirements are exceeded.
3.3	Submit to the Director three hard copies and one electronic copy of the following, as defined in the EM&A requirements described in the Project Profile (Register No. PP-550/2017): <ul style="list-style-type: none">(a) Baseline Monitoring Report on water quality no later than 2 week before the commencement of cable installation works;(b) Weekly EM&A Report no later than 3 days after the relevant monitoring data are collected or become available during the cable installation works; and(c) Final EM&A Report within one month after completion of the construction works.



ET Certification

I hereby certify that the above referenced document/~~plan~~ complies with the above referenced condition of EP-539/2017.

A handwritten signature in black ink, appearing to read "Terence Fong".

Terence Fong, Environmental
Team Leader:

Date: 19 July 2018

IEC Verification

I hereby verify that the above referenced document/~~plan~~ complies with the above referenced condition of EP-539/2017.

A handwritten signature in black ink, appearing to read "Dr Vincent Lai".

Dr Vincent Lai, Independent
Environmental Checker:

Date: 24 Jul 2018

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EXECUTIVE SUMMARY

The cable installation works for the **Pacific Light Cable Network – Deep Water Bay** (the ‘Project’) are scheduled to be carried out in phases:

- **Phase 1 Land Cable Installation and Shore-End Cable Installation (**Zone A only**)** – completed on 4 April.
- **Phase 2 Submarine Cable Installation (**Zones A and B**)** – currently ongoing.

Phase 2 of the Project commenced within Zone A on 10 July 2018, proceeded beyond Zone A on 11 July 2018 and has not proceeded into Zone B by the end of this reporting period. Cable installation works is ongoing at time of this report.

This is the *Phase 2 –1st Weekly Water Quality Impact Monitoring Report* presenting the water quality impact monitoring conducted during the period from 10 to 16 July 2018, in accordance with the EM&A Manual.

Summary of Construction Works undertaken during the Reporting Period

Phase 2 of the Project commenced within Zone A on 10 July 2018 and proceeded beyond Zone A on 11 July 2018. Operation stopped due to adverse weather on 12 July 2018 and was on standby throughout the rest of the reporting period. All works were either within Zone A or section between Zone A and Zone B.

Water Quality

Daily monitoring events were conducted for all work days between 10 to 16 July 2018. All monitoring at all designated monitoring stations within Zone A and Zone B were performed on schedule, ie on 10 to 12 July 2018.

Recorded levels of dissolved oxygen were frequently recorded as being below the corresponding Action and Limit Levels, but upon review, were deemed to be due to the presence of naturally occurring marine water stratification and natural fluctuations. Fluctuation in suspended solids levels were observed during some monitoring days, again considered upon careful review to be due to natural seasonal variations. The above is supported by the recorded low DO levels, as well as fluctuations of SS levels recorded across all stations, including control stations in Zone A even before works had commenced, as well as at monitoring stations in Zone B, at which no cable burial operation was conducted throughout the reporting period.

Environmental Non-conformance

No non-conformance was recorded; results of detailed investigations indicated none of the exceedances recorded were attributed to the Project construction works:

- Three Notification of Exceedances (NOEs) with detailed investigation reports were issued to EPD and AFCD during the reporting period for recording daily exceedances of Action and Limit Levels for both bottom dissolved oxygen, surface and middle dissolved oxygen and suspended solids.
- The Contractors have been requested by the Environmental Team (ET) to be aware that exceedances have recently occurred and take care to ensure all necessary procedures are followed to avoid the Project impacting the water environment.

No complaint and summons/prosecution was received during the reporting week.

Future Key Issues

There are no key issues identified.

Over the next monitoring period (17 to 23 July), *Phase 2 Submarine Cable Installation* the weather is expected to get better and installation works resume, starting up again within the section between Zone A and Zone B and potentially reaching Zone B.

ERM-Hong Kong, Limited (ERM) was appointed by PCCWG as the Environmental Team (ET) to implement the Environmental Monitoring and Audit (EM&A) programme for the Pacific Light Cable Networks (PLCN) – Deep Water Bay Project (hereinafter called the ‘Project’).

1.1**PURPOSE OF THE REPORT**

This is the 1st Weekly Water Quality Impact Monitoring Report for Phase 2 of the Project (Submarine Cable Installation), and summarises the water quality (WQ) impact monitoring results during the reporting period from 10 to 16 July 2018.

1.2**STRUCTURE OF THE REPORT**

The structure of the report is as follows:

Section 1 : Introduction

Details the background, purpose and structure of the report.

Section 2 : Project Information

Summarises background and scope of the project, the construction works undertaken and the status of Environmental Permits/Licenses during the reporting period.

Section 3 : Water Quality Monitoring Requirements

Summarises the monitoring parameters, monitoring programmes, monitoring methodologies, monitoring frequency, monitoring locations, Action and Limit Levels, and Event / Action Plans.

Section 4 : Monitoring Results

Summarises the monitoring results obtained in the reporting period.

Section 5 : Environmental Non-conformance

Summarises any monitoring exceedance, environmental complaints and environmental summons within the reporting period.

Section 6 : Future Key Issues

Summarises the monitoring schedule for the next week.

Section 7 : Conclusions

Presents the key findings of the impact monitoring results.

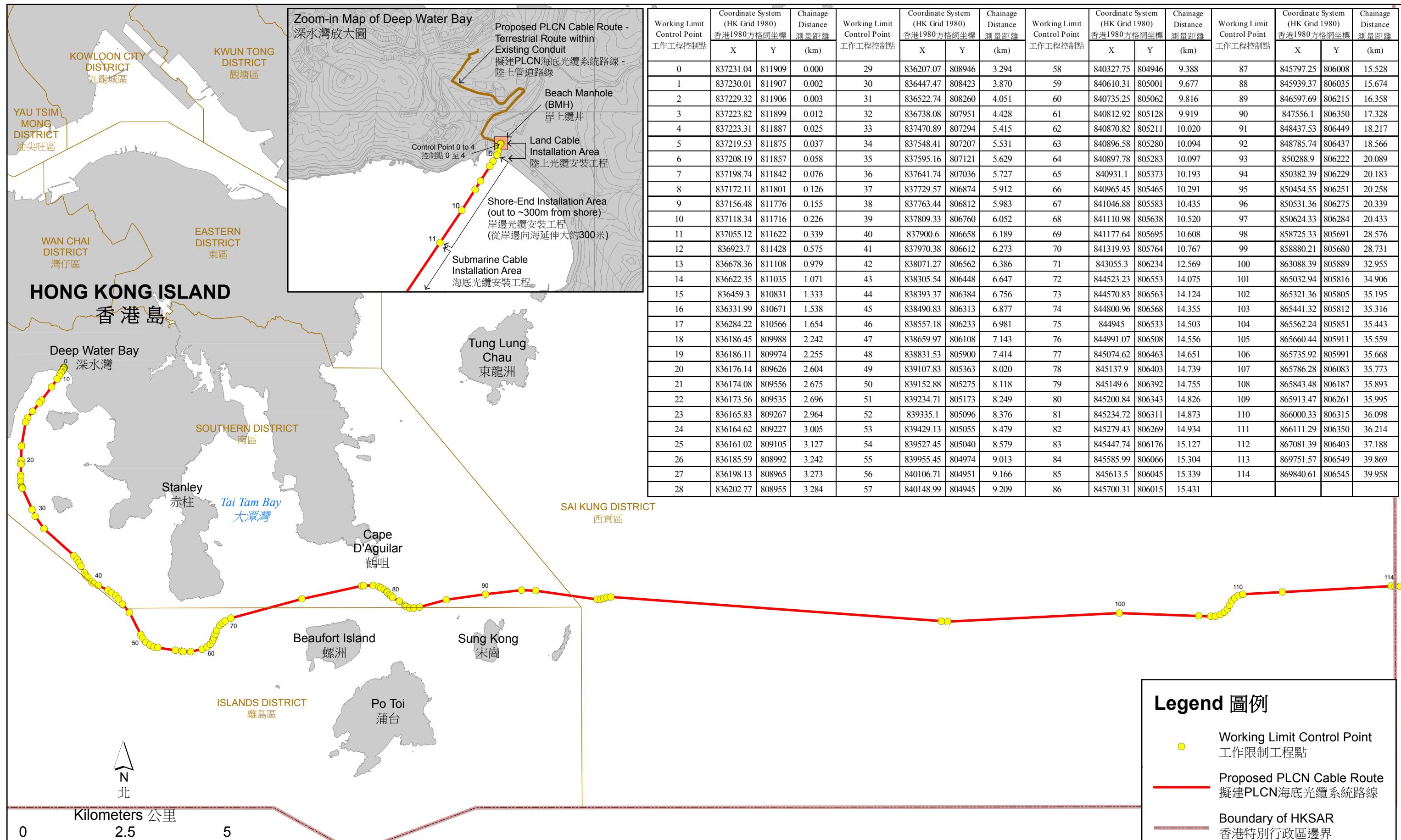


Figure 1.1

圖 1.1

Proposed PLCN Cable Route

擬建PLCN海底光纜系統路線

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Date: 29/3/2017

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2.1**BACKGROUND**

In order to help meet the tremendous telecommunication services requirements between Asia and North America, the **PLCN Consortium** has decided to build a submarine telecommunication cable system, which will be approximately 12,800 km in length, connecting Hong Kong and the United States. The cable will connect to Deep Water Bay (DWB) within the HKSAR. **PCCW Global (HK) Limited (PCCWG)** is providing the cable landing point and the associated cable landing service in Hong Kong for the PLCN Consortium.

The proposed cable will land at an existing Beach Man Hole location at Deep Water Bay (DWB) in Hong Kong and the full route of the proposed PLCN submarine cable system is depicted in *Figure 1.1*. It should be noted that DWB is currently the landing site for a number of submarine cables.

The Project Profile (PP-550/2017) which includes an assessment of the potential environmental impacts associated with the installation and operation of the submarine telecommunications cable system within HKSAR (including connection to land at DWB) was prepared and submitted to the Environmental Protection Department (EPD) under section 5.(1) (b) and 5.(11) of the *Environmental Impact Assessment Ordinance* (EIAO) for the application for Permission to apply directly for Environmental Permit (EP). On 1 June 2017, EPD issued a letter to PCCWG permitting direct application for an environmental permit and following an application, EPD subsequently issued an Environmental Permit (EP-539/2017) on 10 July 2017.

Pursuant to *Condition 3.1* of the EP, an environmental monitoring and audit (EM&A) programme, as set out in the Project Profile is required for this Project. As per *Condition 3.2* of the EP regarding Water Quality Monitoring, there is a requirement to conduct water quality baseline monitoring and impact monitoring. The corresponding Action and Limit Levels will be derived from the baseline data.

Cable installation for this Project has been scheduled to be carried out in two phases, with Phase 1 situated in part of Zone A only and Phase 2 covering Zones A and B (as well as the alignment outside both Zone A or Zone B). The phasing of the cable installation works is indicated in the key in *Figures 2.1 to 2.3* and the current schedule and works carried out to date for each Phase is as follows:

- **Phase 1 Land Cable Installation and Shore-End Cable Installation (Zone A only):** Mini shore-end cable installation to Beach Manhole at Deep Water Bay (DWB), involving land trench excavation and shore-end cable installation of the PLCN cable (ie from Beach Manhole out to approximately 650 m from Beach Man Hole) using diver jetting;

- Baseline data were collected prior to the start of Phase 1 cable installation works (between 5th and 9th February 2018) and Action and Limit Levels derived from these data, as presented in the final *Baseline Water Quality Monitoring Report (Zone A)*.
- Land trenching commenced 6 March 2018. Following issue of Marine Department Notice on 23 March 2018, land trenching completed with LCSD inspection of restored beach area, on 24 March 2018.
- Near shore marine diver jetting works within silt curtain commenced 24 Mar 2018 and was completed on 4 April.
- **Phase 2 Submarine Cable Installation (Zones A and B):** Installation of PLCN cable from shore-end (ie approximately 650m from Beach Manhole) to HK SAR marine eastern boundary, involving jetting technique and potential diver jetting in specific areas (eg HK Electric Pipeline crossing).
 - Baseline data were collected prior to the start of Phase 2 cable installation works (between 28 May and 2 June 2018) and Action and Limit Levels derived from these data, as presented in the final *Baseline Water Quality Monitoring Report (Zone A and Zone B for Phase 2 Installation)*.
 - Marine installation works using jetting commenced on 10 July 2018 and was suspended on 12 July due to adverse weather, remaining on standby for the remainder of this reporting period.

This report covers the first week of the Project's *Phase 2 Submarine Cable Installation* and refers to the *Baseline Water Quality Monitoring Report (Zone A and Zone B for Phase 2 Installation)* for Action and Limit Levels.

2.2

MARINE CONSTRUCTION WORKS UNDERTAKEN DURING REPORTING WEEK

A summary of the key works undertaken during the reporting week is shown in *Table 2.1*.

Table 2.1 *Summary of Marine Works Undertaken During the Reporting Week*

Date	Works Area	Activity
Tue 10 July 2018	Zone A	Jetting and burial of cable within Zone A
Wed 11 July 2018	Zone A to beyond Zone A	Jetting and burial of cable within Zone A, proceeding beyond Zone A at 11:20
Thu 12 July 2018	Between Zone A and Zone B	Jetting and burial of cable at section between Zone A and Zone B; operation stopped due to adverse weather conditions at 12:15
Fri 13 July 2018	Between Zone A and Zone B	No construction activity due to adverse weather condition. Works on standby.
Sat 14 July 2018	Between Zone A and Zone B	No construction activity due to adverse weather condition. Works on standby.

Date	Works Area	Activity
Sun 15 July 2018	Between Zone A and Zone B	No construction activity due to adverse weather condition. Works on standby.
Mon 16 July 2018	Between Zone A and Zone B	No construction activity due to adverse weather condition. Works on standby.

2.3

STATUS OF ENVIRONMENTAL APPROVAL DOCUMENTS

A summary of the relevant permits, licences, notifications and/or reports on environmental protection for this Project is presented in *Table 2.2*.

Table 2.2 *Summary of Environmental Licensing, Notification, Permit and Reporting Status*

Permit / Licence / Notification / Report	Reference	Validity Period	Remarks
Environmental Permit	(EP-539/2017) Available at http://www.epd.gov.hk/eia/english/alpha/asp_d_717.html	Throughout construction & operation period	Granted on 10 July 2017
EM&A Manual	(PP-550/2017) (as part of the Project Profile – see above)	Throughout construction & operation period	Approved by EPD on 1 June 2017
<i>Baseline Water Quality Monitoring Report (Zone A)</i>	Available at http://www.epd.gov.hk/eia/english/register/ae_p/ep5392017_content.html	Throughout construction period for Phase 1 works in Zone A	Approved by EPD on 15 March 2018
<i>1st Weekly WQ Impact Monitoring Report</i>	Available at http://www.epd.gov.hk/eia/english/register/ae_p/ep5392017_content.html	Throughout first week for Phase 1 works in Zone A	Final Submission to EPD on 18 April 2018
<i>2nd Weekly WQ Impact Monitoring Report</i>	Available at http://www.epd.gov.hk/eia/english/register/ae_p/ep5392017_content.html	Throughout second week for Phase 1 works in Zone A	Final Submission to EPD on 20 April 2018
<i>Phase 1- Post Project Monitoring Report</i>	Available at http://www.epd.gov.hk/eia/english/register/ae_p/ep5392017_content.html	Throughout construction period for Phase 1 works in Zone A	Final Submission to EPD on 15 May 2018
<i>Baseline Water Quality Monitoring Report (Zone A and Zone B for Phase 2 Installation)</i>	Available at http://www.epd.gov.hk/eia/english/register/ae_p/ep5392017_content.html	Throughout construction period for Phase 2 works in Zone A and Zone B	Final Submission to EPD on 29 June 2018

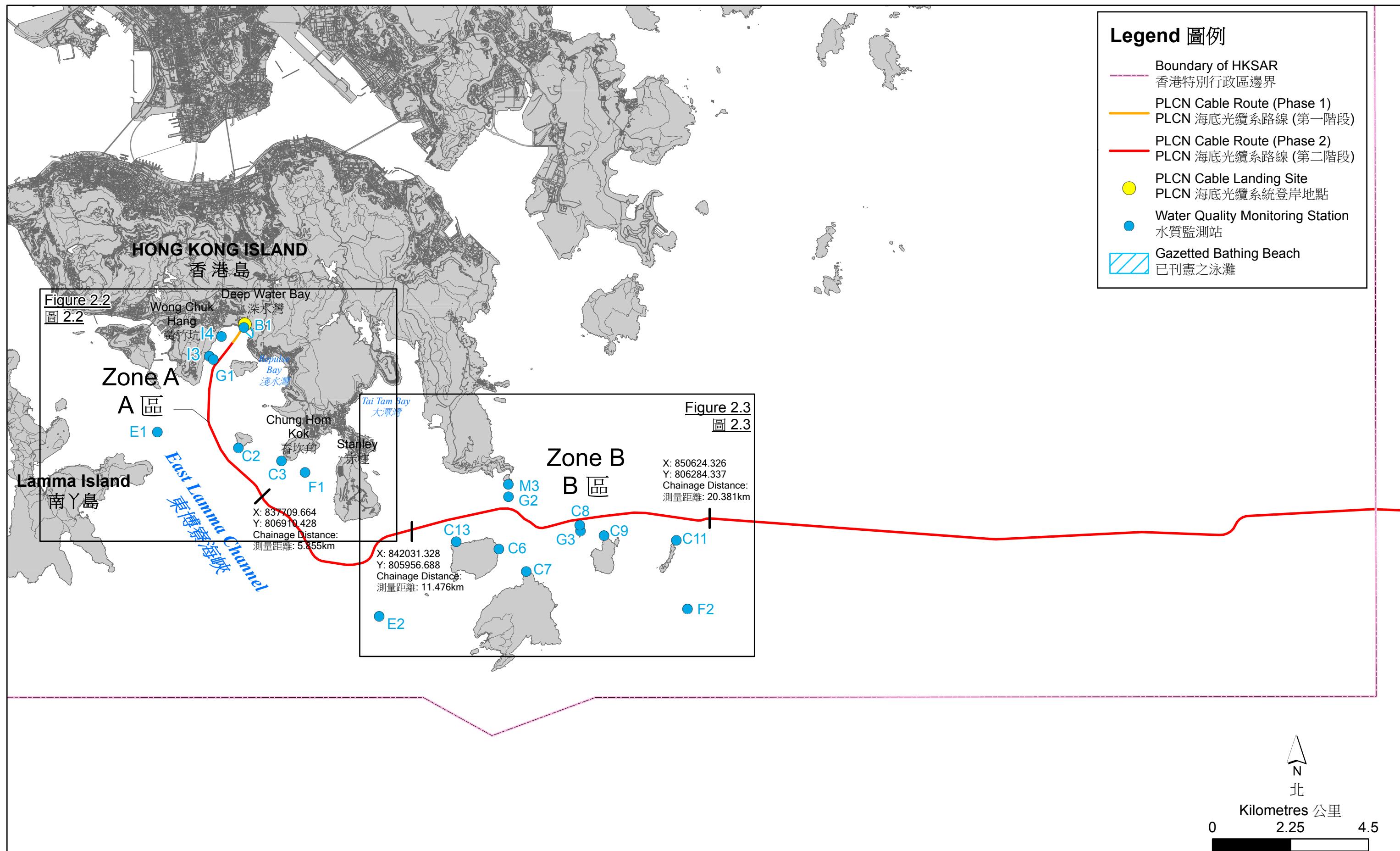


Figure 2.1
圖 2.1

Water Quality Monitoring Stations - Overview
水質監測圖 - 概覽

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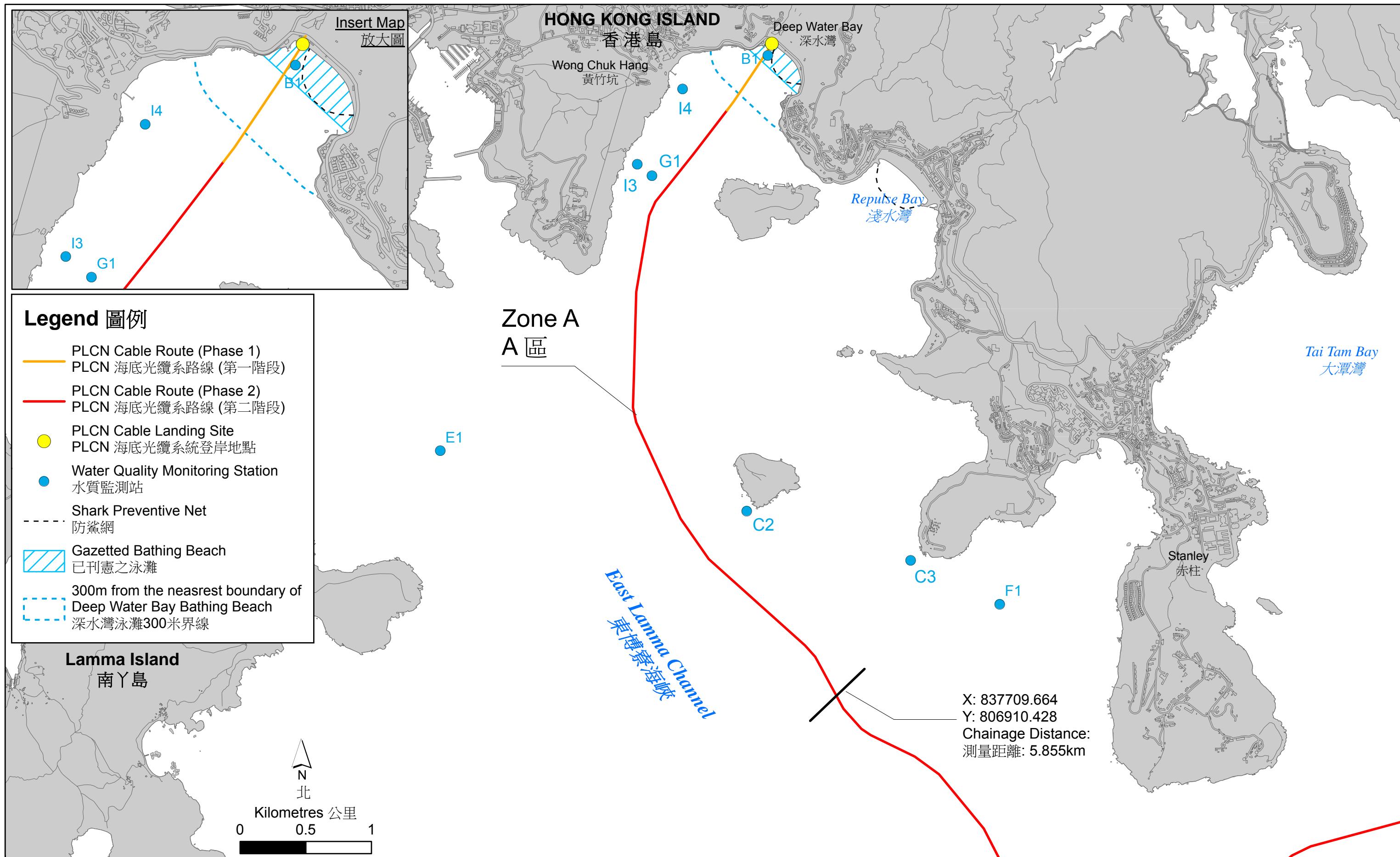


Figure 2.2
圖 2.2

Water Quality Monitoring Stations - Zone A
水質監測站 - A區

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HONG KONG ISLAND

香港島

Tai Tam Bay
大潭灣

Sheung Sze Mun
雙四門

X: 842031.328
Y: 805956.688
Chainage Distance:
測量距離: 11.476km

M3

G2

G3
C8

C9

C11

C13
Beaufort Island
螺洲

C6
C7

Sung Kong
宋崗

Waglan Island
橫瀾島

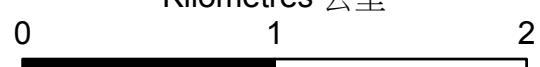
E2

Po Toi
蒲台

F2



Kilometres 公里



Legend 圖例

Water Quality Monitoring Station
水質監測站

PLCN Cable Route (Phase 2)
PLCN 海底光纜系路線 (第二階段)



Figure 2.3

圖 2.3

Water Quality Monitoring Stations - Zone B
水質監測站 - B 區

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3.1 MONITORING LOCATIONS

In accordance with the *Annex G of the Project Profile*, during the installation of the cable in Zone A, water quality sampling was undertaken at stations situated in Zone A. Furthermore, water quality sampling was also undertaken at stations within Zone B upon the completion of cable installation within Zone A, in anticipation of cable installation proceeding to Zone B, however during the reporting period, installation did not reach Zone B. The locations of the sampling stations within Zone A and Zone B are shown in Figures 2.1 to 2.3. The co-ordinates of the two zones and the above monitoring stations are listed in *Table 3.1* and *Table 3.2*, respectively.

Table 3.1 Co-ordinates of Starting Points and Ending Points for Zones A and Zone B (HK Grid)

Zone	Starting Point		Ending Point	
	Easting	Northing	Easting	Northing
A	Start from shore end.		837709.664	806910.428
B	842031.328	805956.688	850624.326	806284.337

Table 3.2 Co-ordinates of Baseline Monitoring Stations (HK Grid)

Station	Nature	Corresponding Control Station	Easting	Northing
Zone A: The waters from Aberdeen to Chung Hom Kok where a number of sensitive receivers are located close to the cable alignment.				
Covers the cable alignment between Chainage 0 and 5.851 km.				
B1	Impact Station (Adjacent to Deep Water Bay Beach)	E1, F1	837188	811783
I3	Impact Station (Ocean Park's Main Seawater Intake)	E1, F1	836195	810956
I4	Impact Station (Ocean Park's Training Yard Seawater Intake)	E1, F1	836539	811529
C2	Impact Station (Coral sites along the coast of Round Island)	E1, F1	847579	805787
C3	Impact Station (Coral sites along the coast of Chung Hom Kok)	E1, F1	838275	807941
G1	Gradient Station (Between Ocean Park's Main Seawater Intake and cable alignment)	E1, F1	836306	810867
E1	Control Station for Zone A in Ebb Tide	-	834695	808775
F1	Control Station for Zone A in Flood Tide	-	838953	807607
Zone B: The waters from Beaufort Island to Waglan Island where a number of sensitive receivers are located close to the cable alignment.				
Covers the cable alignment between Chainage 11.117 km and 20.014 km.				
C6	Impact Station (Coral sites along the coast of south & east Beaufort Island)	E2, F2	844548	805397

Station	Nature	Corresponding Control Station	Easting	Northing
C7	Impact Station (Coral sites along the coast of Po Toi Island)	E2, F2	845334	804749
C8	Impact Station (Coral sites along the coast of Sung Kong Islet)	E2, F2	846901	805922
C9	Impact Station (Coral sites along the coast of Sung Kong)	E2, F2	837028	808316
C11	Impact Station (Coral sites along the coast of Waglan Island)	E2, F2	849664	805649
C13	Impact Station (Coral site along the coast of north Beaufort Island)	E2, F2	843316	805606
M3	Impact Station (Cape d'Aguilar Marine Reserve)	E2, F2	844817	807259
G2	Gradient Station (Between M3 Cape d'Aguilar Marine Reserve and cable alignment)	E2, F2	844824	806909
G3	Gradient Station (Between C8 Coral sites along the coast of Sung Kong Islet and cable alignment)	E2, F2	846878	806086
E2	Control Station for Area B in Ebb Tide	-	841090	803463
F2	Control Station for Area B in Flood Tide	-	849986	803673

3.2 MONITORING PARAMETERS AND FREQUENCY

The impact water quality monitoring was conducted in accordance with the requirements stated in the *Annex G of the Project Profile*. These are presented below.

3.2.1 Monitoring Parameters

Parameters measured *in situ* were:

- dissolved oxygen (DO) (% saturation and mg L⁻¹);
- temperature (°C);
- turbidity (NTU); and
- salinity (‰).

The only parameter measured in the laboratory was:

- suspended solids (SS) (mg L⁻¹).

In addition to the water quality parameters, other relevant data were measured and recorded in field logs, including the location of the sampling stations, water depth, time, weather conditions, sea conditions, tidal state, current direction and speed, special phenomena and work activities undertaken around the monitoring and works area that may influence the monitoring results.

3.2.2

Monitoring Frequency

Impact Monitoring at all monitoring stations within Zone A (B1, I3, I4, C2, C3, G1, E1 and F1) took place when the cable installation works were undertaken within Zone A as shown in *Figure 2.1*. The sampling works ceased when no cable installation works were conducted inside Zone A. Monitoring at all monitoring stations within Zone B (C6, C7, C8, C9, C11, C13, M3, G2, G3, E2 and F2) were conducted on the day (11 July 2018) when cable burial proceeded beyond Zone A and the following day (12 July 2018), although in reality the cable burial still did not proceed as anticipated into Zone B and was then stopped due to adverse weather.

All Phase 2 construction works were undertaken during normal working hours (07:00 - 19:00), and impact monitoring (including the collection of *In-situ* and SS data) was conducted at 2 to 3-hour intervals during the cable installation works, depending on the vessel travel time between stations. The monitoring frequency and parameters for Impact Monitoring are summarised in *Table 3.3*.

Table 3.3 Monitoring Frequency and Parameters for Impact Monitoring at Zone A and Zone B

Zone	Station Type	Monitoring Station	Monitoring Frequency	Monitoring Parameter
A	Control	E1 and F1	At two-hour interval from 07:00 to 19:00	Temperature,
	Impact	B1, I3, I4, C2, C3 and G1	daily when cable installation works undertaken in Zone A	Turbidity, Salinity, DO, SS
B	Control	E2 and F2	At two- to three-hour interval (subject to the sampling vessel travelling time among stations) from 07:00 to 19:00	Temperature,
	Impact	C6, C7, C8, C9, C11, C13, M3, G2 and G3	daily when cable installation works undertaken in Zone B *	Turbidity, Salinity, DO, SS

Note: Monitoring was conducted for stations within Zone B after the end of cable burial within Zone A, in anticipation of the works reaching Zone B. However, no cable installation work was conducted within Zone B during the reporting period.

3.3 MONITORING EQUIPMENT AND METHODOLOGY

3.3.1 Monitoring Equipment

Table 3.4 summarises the equipment used for the water quality impact monitoring.

Table 3.4 Equipment used during Baseline Water Quality Monitoring

Equipment	Model
Global Positioning Device	Garmin etrex 20x & Furuno GP-170E (dGPS)
Water Depth Gauge	Sontek Hydrosurveyor / Sontek Riversurveyor
Water Sampling Equipment	Wildlife 1120 – 2.2L alpha vertical sampler
Salinity, DO, Temperature Measuring Meter	YSI ProDSS (Multi-Parameter)
Current Velocity and Direction	Sontek Hydrosurveyor / Sontek Riversurveyor
Turbidity Meter	YSI ProDSS (Multi-Parameter)

3.3.2 Monitoring Methodology

Timing & Frequency

The water quality monitoring was conducted on all work days within Zone A at 2-hour intervals during the cable installation works. A total of 6 monitoring rounds were conducted during the 12-hour work period on 10 July 2018 from 07:00 to 19:00. Only 4 monitoring rounds were conducted on 11 July 2018 because cable installation works then moved outside Zone A at 11:20. Survey team was then deployed to conduct monitoring survey for Zone B in anticipation of the works arriving at Zone B shortly.

Monitoring within Zone B was conducted upon the completion of cable installation works within Zone A, however as explained above, cable installation works did not proceed into Zone B within the reporting period. Monitoring interval of 2 to 3-hours was followed. One monitoring survey round was conducted for Zone B on 11 July 2018 and 3 monitoring survey rounds were conducted for Zone B on 12 July 2018. The cable installation

works stopped due to adverse weather condition at 12:15 on 12 July 2018 and were on standby for the remainder of the reporting period, meaning no further WQ monitoring was conducted.

Depths

Each station was sampled and measurements were taken at three depths, 1 m below the sea surface, mid depth and 1m above the sea bed. (All stations were at least 3 m in depth)

Protocols

All *in situ* monitoring instruments were checked, calibrated and certified by a laboratory accredited under HOKLAS or any other international accreditation scheme before use (see calibration reports in *Annex A*), and will subsequently be re-calibrated at-monthly intervals throughout all stages of the water quality monitoring. Responses of sensors and electrodes were checked with certified standard solutions before each use.

For the on-site calibration of field equipment, the *BS 1427: 1993, Guide to Field and On-Site Test Methods for the Analysis of Waters* was observed. Sufficient stocks of spare parts were maintained for replacements when necessary. Backup monitoring equipment was made available.

Water samples for SS measurements were collected in high density polythene bottles, packed in ice (cooled to 4° C without being frozen), and delivered to a HOKLAS laboratory (ALS Technichem [HK] Pty Ltd) as soon as possible after collection.

Laboratory Analysis

All laboratory work was carried out in a HOKLAS accredited laboratory (ALS Technichem [HK] Pty Ltd). Water samples of about 1,000 mL were collected at the monitoring and control stations for carrying out the laboratory determinations. The determination work started within the next working day after collection of the water samples. The SS laboratory measurements were provided within 2 days of the sampling event (48 hours). The analyses followed the standard methods as described in APHA Standard Methods for the *Examination of Water and Wastewater*, 19th Edition, unless otherwise specified (APHA 2540D for SS).

The QA/QC details were in accordance with requirements of HOKLAS or another internationally accredited scheme (for details refer to *Annex B*).

3.3.3

Action and Limit Levels

The Action and Limit levels for Zones A and Zone B, which were established based on the results of *Baseline Water Quality Monitoring (Zone A and Zone B for Phase 2)*, are presented in *Table 3.5*.

Table 3.5 Action and Limit Levels for Water Quality – Phase 2

Parameter	Action Level	Limit Level
Zone A: The waters from Aberdeen to Chung Hom Kok where a number of sensitive receivers are located close to the cable alignment. Covers the cable alignment between Chainage 0 and 5.851 km.		
SS in mg L ⁻¹ (Depth-averaged)	95%-ile of baseline data (7.39 mg L ⁻¹), or 20% exceedance of value at any impact station compared with corresponding data from control station	99%-ile of baseline data (8.44 mg L ⁻¹) , and 30% exceedance of value at any impact station compared with corresponding data from control station
DO in mg L ⁻¹	<u>Surface and Middle</u> 5%-ile of baseline data for surface and middle layer (5.19 mg L ⁻¹) <u>Bottom</u> 5%-ile of baseline data for bottom layer (4.96 mg L ⁻¹)	<u>Surface and Middle</u> 4 mg L ⁻¹ or 1%-ile of baseline for surface and middle layer (4.77 mg L ⁻¹) <u>Bottom</u> 2 mg L ⁻¹ or 1%-ile of baseline data for bottom layer (4.95 mg L ⁻¹)
Turbidity in NTU (Depth-averaged)	95%-ile of baseline data (11.53 NTU), or 20% exceedance of value at any impact station compared with corresponding data from control station	99%-ile of baseline data (12.56 mg L ⁻¹) , and 30% exceedance of value at any impact station compared with corresponding data from control station
Zone B: The waters from Beaufort Island to Waglan Island where a number of sensitive receivers are located close to the cable alignment. Covers the cable alignment between Chainage 11.117 km and 20.014 km.		
SS in mg L ⁻¹ (Depth-averaged)	95%-ile of baseline data (5.69 mg L ⁻¹), or 20% exceedance of value at any impact station compared with corresponding data from control station	99%-ile of baseline data (6.23 mg L ⁻¹) , and 30% exceedance of value at any impact station compared with corresponding data from control station
DO in mg L ⁻¹	<u>Surface and Middle</u> 5%-ile of baseline data for surface and middle layer (5.76 mg L ⁻¹) <u>Bottom</u> 5%-ile of baseline data for bottom layer (5.84 mg L ⁻¹)	<u>Surface and Middle</u> 4 mg L ⁻¹ or 1%-ile of baseline for surface and middle layer (5.56 mg L ⁻¹) <u>Bottom</u> 2 mg L ⁻¹ or 1%-ile of baseline data for bottom layer (5.64 mg L ⁻¹)
Turbidity in NTU (Depth-averaged)	95%-ile of baseline data (9.28 NTU), or 20% exceedance of value at any impact station compared with corresponding data from control station	99%-ile of baseline data (10.77 NTU) , and 30% exceedance of value at any impact station compared with corresponding data from control station
Notes:		
a. “Depth-averaged” is calculated by taking the arithmetic means of reading of all sampled depths.		
b. For DO, non-compliance of the water quality limits occurs when the monitoring result is lower than the limits.		
c. For SS and turbidity, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.		
d. The Action and Limit Level for DO for surface and middle layer were calculated from the combined pool of baseline surface layer data and baseline middle layer data.		

3.3.4 Event and Action Plan

The Event and Action Plan for water quality monitoring which was stipulated in the *Annex G* of the *Project Profile* is presented in *Table 3.6*.

Table 3.6 Event Action Plan for Water Quality

Event	Contractor
Action Level Exceedance	<p>Step 1 - repeat sampling event. Where applicable, review results of gradient station(s) to confirm the source of impact.</p> <p>Step 2 – Inform EPD and AFCD and confirm notification of the non-compliance in writing;</p> <p>Step 3 - discuss with cable installation/ repair operation contractor the most appropriate method of reducing suspended solids during cable installation/ repair operation (e.g. reduce cable laying speed/pressure in jetting water) and agree with EPD.</p> <p>Step 4 - repeat measurements after implementation of mitigation for confirmation of compliance.</p> <p>Step 5 - if non-compliance continues - increase measures in Step 3 and repeat measurements in Step 3. If non-compliance occurs a third time, suspend cable installation/ repair operations.</p>
Limit Level Exceedance	<p>Step 1 - Suspend cable installation/repair operations immediately (until the cause of the non-compliance is detected and the situation is rectified).</p> <p>Step 2 - repeat sampling event. Where applicable, review results of gradient station(s) to confirm the source of impact.</p> <p>Step 3 – Inform EPD and AFCD and confirm notification of the non-compliance in writing</p> <p>Step 4 - discuss immediately with cable installation/ repair operation contractor the most appropriate method of reducing suspended solids during cable installation/ repair operation (e.g. reduce cable laying speed/pressure in jetting water) and agree with EPD.</p> <p>Step 5 - repeat measurements after implementation of mitigation or suitable time has elapsed since suspension of cable installation/ repair operations, for confirmation of compliance.</p> <p>Step 6 -. Repeat Step5 until measurements show compliance.</p>

Monitoring surveys were carried out on two days in the reporting period at Zone A, covering all work days when cable burial within Zone A was conducted in the period. Monitoring surveys were carried out on two days in the reporting period at Zone B also, in anticipation of the works entering that zone, although in reality the cable burial activities did not proceed into Zone B during the reporting period. All monitoring at all designated monitoring stations within Zone A and Zone B were performed on schedule, ie on 10 to 12 July 2018, as detailed in *Table 2.1*.

No Project activities that influenced the water quality within Zone A were identified between 10 to 16 July 2018. No marine work under this Project was conducted within Zone B during the period and therefore the Project did not affect water quality in this zone either.

4.1

DATA COLLECTED

The monitoring data within Zone A and Zone B are presented in *Annex C* and compared against the baseline monitoring results in *Figures C1 -C4*.

A wide range of spatial and temporal variation was recorded at monitoring stations within Zone A for all water quality parameters throughout each sampling day (i.e. 10 and 11 July 2018), except for turbidity. Recorded levels of dissolved oxygen were frequently recorded as being below the corresponding Action and Limit Levels, but upon review, were deemed to be due to the presence of naturally occurring marine water stratification and natural fluctuations. Fluctuation in suspended solids levels were observed during some monitoring days, again considered upon careful review to be due to natural seasonal variations. The above is supported by the recorded low DO levels, as well as fluctuations of SS levels recorded across all stations, including control stations in Zone A even before works had commenced, as well as at monitoring stations in Zone B, at which no cable burial operation was conducted throughout the reporting period.

5.1**SUMMARY OF ENVIRONMENTAL EXCEEDANCE**

Exceedances were recorded during the monitoring period (i.e. 10– 12 July 2018) for dissolved oxygen and suspended solids at the monitoring stations. None of the exceedances recorded were attributed to the Project construction works as detailed below.

There were daily exceedances of dissolved oxygen as well as suspended solids throughout the reporting period. Three Notification of Exceedances (NOEs) with detailed investigation reports were issued to EPD and AFCD during the reporting period for recording daily exceedances of Action and Limit Levels for both bottom dissolved oxygen, surface and middle dissolved oxygen and suspended solids.

The exceedances were examined against the Project works in the NOEs. Results of detailed investigations indicated:

- Exceedance of dissolved oxygen and suspended solids were recorded throughout the day, regardless of the presence / absence of cable burial operation (exceedance recorded on period before the commencement of cable burial works). The recorded exceedances were therefore deemed to be due to natural fluctuations;
- Exceedances of dissolved oxygen and suspended solids were recorded at control stations E1 and F1, as well as monitoring stations in Zone B, which are all far away (at least 2 km and up to 10 km - See *Figure 2.3*) from the cable burial works. The maximum distance travelled by sediments during cable barge jetting installation is calculated as 180 m (PP-550/2017, Annex A) so disturbed sediments (and any other associated water quality impact) would not encroach into monitoring stations at such distance.

The Contractors have been requested by the ET to be aware that exceedances have recently occurred and take care to ensure all necessary procedures are followed to avoid the Project impacting the water environment.

5.2**SUMMARY OF ENVIRONMENTAL NON-COMPLIANCE**

No non-compliance events were recorded during the reporting period due to the Project.

5.3**SUMMARY OF ENVIRONMENTAL COMPLAINT**

No complaints were received during the reporting period.

5.4

SUMMARY OF ENVIRONMENTAL SUMMONS AND PROSECUTION

No summons or prosecution on environmental matters were received during the reporting period.

6.1 KEY ISSUES FOR THE COMING WEEK

There are no key issue identified.

Over the next monitoring period (17 to 23 July), *Phase 2 Submarine Cable Installation* the weather is expected to get better and installation works resume, starting up again within the section between Zone A and Zone B and potentially reaching Zone B.

6.2 MONITORING SCHEDULE FOR THE COMING WEEKS

The water quality impact monitoring will continue during all days when cable installation is carried out or anticipated to be carried out, subject to weather conditions, until completion of cable burial works for *Phase 2 Submarine Cable Installation*.

This Weekly Impact Monitoring Report presents the EM&A water quality work undertaken during the period from 10 to 16 July 2018 in accordance with the *Annex G of the Project Profile* and the requirements under EP-539/2017.

No non-compliance events were recorded during the reporting week due to the Project.

There were daily exceedances of Action and Limit Levels for dissolved oxygen, both bottom layer (on all days) as well as surface and middle layer (also on all days). There were daily exceedances of suspended solids. Results of detailed investigations indicate none of the exceedances recorded were attributed to the Project construction works as detailed below:

- Exceedance of dissolved oxygen and suspended solids were recorded throughout the day, regardless of the presence / absence of cable burial operation (exceedance recorded on period before the commencement of cable burial works). The recorded exceedances were therefore deemed to be due to natural fluctuations;
- Exceedances of dissolved oxygen and suspended solids were recorded at control stations E1 and F1, as well as monitoring stations in Zone B, which are all far away (at least 2 km and up to 10 km - See *Figure 2.3*) from the cable burial works. The maximum distance travelled by sediments during cable barge jetting installation is calculated as 180 m (PP-550/2017, Annex A) so disturbed sediments (and any other associated water quality impact) would not encroach into monitoring stations at such distance.

The Contractors have been requested by the ET to be aware that exceedances have recently occurred and take care to ensure all necessary procedures are followed to avoid the Project impacting the water environment.

No complaints and summons/prosecution were received during the reporting week.

The ET will keep track of the WQ impact monitoring programme to verify compliance of environmental requirements and the proper implementation of necessary mitigation measures.

Annex A

Calibration Reports of Multi-parameter Sensor



REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No. : AH060169
Date of Issue : 28 June 2018
Page No. : 1 of 2

PART A – CUSTOMER INFORMATION

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

PART B – DESCRIPTION

Name of Equipment : YSI ProDSS (Multi-Parameters)
Manufacturer : YSI (a xylem brand)
Serial Number : 16H104233
Date of Received : Jun 27, 2018
Date of Calibration : Jun 27, 2018 to Jun 27, 2018
Date of Next Calibration^(a) : Sep 27, 2018

PART C – REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

<u>Parameter</u>	<u>Reference Method</u>
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	3.96	-0.04	Satisfactory
7.42	7.44	0.02	Satisfactory
10.01	10.11	0.10	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
12.6	12.5	-0.1	Satisfactory
37.4	37.5	0.1	Satisfactory
62.7	61.5	-1.2	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 from relevant international standards.
- (b) The results relate only to the calibrated equipment as received
- (c) The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.
- (d) "Displayed Reading" denotes the figure shown on item under calibration/ checking regardless of equipment precision or significant figures.
- (e) The "Tolerance Limit" mentioned is the acceptance criteria applicable for similar equipment used by QPT or quoted from relevant international standards.

APPROVED SIGNATORY:

LAM Ho-yee, Emma
Assistant Laboratory Manager



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

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

REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No. : AH060169
Date of Issue : 28 June 2018
Page No. : 2 of 2

PART D – CALIBRATION RESULTS (Cont'd)

(3) Dissolved Oxygen

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)	Results
0.00	0.03	0.03	Satisfactory
4.37	4.46	0.09	Satisfactory
5.96	6.10	0.14	Satisfactory
7.34	7.36	0.02	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 ($\mu\text{S}/\text{cm}$)	Displayed Reading ($\mu\text{S}/\text{cm}$)	Tolerance (%)	Results
0.001	146.9	150.0	2.1	Satisfactory
0.01	1412	1398	-1.0	Satisfactory
0.1	12890	12724	-1.3	Satisfactory
0.5	58670	58012	-1.1	Satisfactory
1.0	111900	110847	-0.9	Satisfactory

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

(5) Salinity

Expected Reading (g/L)	Displayed Reading (g/L)	Tolerance (%)	Results
10	9.97	-0.3	Satisfactory
20	20.14	0.7	Satisfactory
30	30.28	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	0.1	--	--
10	10.16	1.6	Satisfactory
20	20.19	1.0	Satisfactory
100	98.84	-1.2	Satisfactory
800	793.16	-0.9	Satisfactory

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

~ END OF REPORT ~

Remark(s): -

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

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



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

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

REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No. : AH060170
Date of Issue : 28 June 2018
Page No. : 1 of 2

PART A – CUSTOMER INFORMATION

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

PART B – DESCRIPTION

Name of Equipment	:	YSI ProDSS (Multi-Parameters)
Manufacturer	:	YSI (a xylem brand)
Serial Number	:	17E100747
Date of Received	:	Jun 27, 2018
Date of Calibration	:	Jun 27, 2018 to Jun 27, 2018
Date of Next Calibration ^(a)	:	Sep 27, 2018

PART C – REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

<u>Parameter</u>	<u>Reference Method</u>
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	3.97	-0.03	Satisfactory
7.42	7.40	-0.02	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
12.6	12.3	-0.3	Satisfactory
37.4	37.5	0.1	Satisfactory
62.7	61.4	-1.3	Satisfactory

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

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Remark(s): -

- (a) The "Date of Next Calibration" is recommended according to best practice principals as practiced by QPT or quoted from relevant international standards.
(b) The results relate only to the calibrated equipment as received
(c) The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.
(d) "Displayed Reading" denotes the figure shown on item under calibration/ checking regardless of equipment precision or significant figures.
(e) The "Tolerance Limit" mentioned is the acceptance criteria applicable for similar equipment used by QPT or quoted from relevant international standards.

APPROVED SIGNATORY:

LAM Ho-yee, Emma
Assistant Laboratory Manager



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

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

REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No. : AH060170
Date of Issue : 28 June 2018
Page No. : 2 of 2

PART D – CALIBRATION RESULTS (Cont'd)

(3) Dissolved Oxygen

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)	Results
0.00	0.02	0.02	Satisfactory
4.37	4.41	0.04	Satisfactory
5.96	6.12	0.16	Satisfactory
7.34	7.41	0.07	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 ($\mu\text{S}/\text{cm}$)	Displayed Reading ($\mu\text{S}/\text{cm}$)	Tolerance (%)	Results
0.001	146.9	148.0	0.7	Satisfactory
0.01	1412	1438	1.8	Satisfactory
0.1	12890	12696	-1.5	Satisfactory
0.5	58670	57876	-1.4	Satisfactory
1.0	111900	111059	-0.8	Satisfactory

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

(5) Salinity

Expected Reading (g/L)	Displayed Reading (g/L)	Tolerance (%)	Results
10	9.99	-0.1	Satisfactory
20	20.09	0.4	Satisfactory
30	30.22	0.7	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	10.14	1.4	Satisfactory
20	20.30	1.5	Satisfactory
100	101.67	1.7	Satisfactory
800	818.83	2.4	Satisfactory

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

~ END OF REPORT ~

Remark(s): -

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

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

Annex B

**QA/QC Results of Laboratory Testing
for Suspended Solids**

**CERTIFICATE OF ANALYSIS**

<i>Client</i>	: ENOVATIVE ENVIRONMENTAL SERVICE LTD	<i>Laboratory</i>	: ALS Technichem (HK) Pty Ltd	<i>Page</i>	: 1 of 14
<i>Contact</i>	: MR THOMAS WONG	<i>Contact</i>	: Richard Fung	<i>Work Order</i>	: HK1837885
<i>Address</i>	: FLAT 2207, YU FUN HSE, YU CHUI COURT, SHATIN, N.T. HONG KONG	<i>Address</i>	: 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
<i>E-mail</i>	: Thomas.Wong@eno.com.hk	<i>E-mail</i>	: richard.fung@alsglobal.com		
<i>Telephone</i>	: ----	<i>Telephone</i>	: +852 2610 1044		
<i>Faxsimile</i>	: ----	<i>Faxsimile</i>	: +852 2610 2021		
<i>Project</i>	: PACIFIC LIGHT CABLE NETWORK (PLCN) - DEEP WATER BAY	<i>Quote number</i>	: HKE/1254/2018	<i>Date received</i>	: 10-Jul-2018
<i>Order number</i>	: —			<i>Date of issue</i>	: 12-Jul-2018
<i>C-O-C number</i>	: —			<i>No. of samples</i>	- Received : 288
<i>Site</i>	: —				- Analysed : 288

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the testing laboratory.

This document has been signed by those names that appear on this report and are the authorised signatories.

<i>Signatory</i>	<i>Position</i>	<i>Authorised results for:</i>
Fung Lim Chee, Richard	General Manager	Inorganics

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK1837885 supersedes any previous reports with this reference. Testing period is from 10-Jul-2018 to 12-Jul-2018. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for process purposes. Abbreviations: CAS number = Chemical Abstract Services number. LOR = Limit of reporting.

Specific Comments for Work Order HK1837885 :

Sample(s) were received in chilled condition.

Water sample(s) analysed and reported on as received basis.

The accredited LOR of Total Suspended Solids is 0.5mg/L when 2 Litres sample was used. Due to insufficient sample, the results below 2mg/L and the decimal value of the results reported are for reference only.

Analytical Results

Sub-Matrix: MARINE WATER			Compound LOR Unit	EA025: Suspended Solids (SS)	---	---	---	---
Client sample ID	Client sampling date / time	Laboratory sample ID		0.5 mg/L	---	---	---	---
E1/R1/ S	10-Jul-2018	HK1837885-001	3.4	---	---	---	---	---
E1/R1/ S Duplicate	10-Jul-2018	HK1837885-002	2.9	---	---	---	---	---
E1/R1/ M	10-Jul-2018	HK1837885-003	3.9	---	---	---	---	---
E1/R1/ M Duplicate	10-Jul-2018	HK1837885-004	3.2	---	---	---	---	---
E1/R1/ B	10-Jul-2018	HK1837885-005	5.2	---	---	---	---	---
E1/R1/ B Duplicate	10-Jul-2018	HK1837885-006	5.3	---	---	---	---	---
G1/R1/ S	10-Jul-2018	HK1837885-007	2.3	---	---	---	---	---
G1/R1/ S Duplicate	10-Jul-2018	HK1837885-008	3.1	---	---	---	---	---
G1/R1/ M	10-Jul-2018	HK1837885-009	2.2	---	---	---	---	---
G1/R1/ M Duplicate	10-Jul-2018	HK1837885-010	3.4	---	---	---	---	---
G1/R1/ B	10-Jul-2018	HK1837885-011	3.3	---	---	---	---	---
G1/R1/ B Duplicate	10-Jul-2018	HK1837885-012	3.9	---	---	---	---	---
I3/R1/ S	10-Jul-2018	HK1837885-013	3.8	---	---	---	---	---
I3/R1/ S Duplicate	10-Jul-2018	HK1837885-014	4.1	---	---	---	---	---
I3/R1/ M	10-Jul-2018	HK1837885-015	2.0	---	---	---	---	---
I3/R1/ M Duplicate	10-Jul-2018	HK1837885-016	4.1	---	---	---	---	---
I3/R1/ B	10-Jul-2018	HK1837885-017	4.0	---	---	---	---	---
I3/R1/ B Duplicate	10-Jul-2018	HK1837885-018	4.4	---	---	---	---	---
I4/R1/ S	10-Jul-2018	HK1837885-019	3.8	---	---	---	---	---
I4/R1/ S Duplicate	10-Jul-2018	HK1837885-020	2.6	---	---	---	---	---
I4/R1/ M	10-Jul-2018	HK1837885-021	3.8	---	---	---	---	---
I4/R1/ M Duplicate	10-Jul-2018	HK1837885-022	3.7	---	---	---	---	---
I4/R1/ B	10-Jul-2018	HK1837885-023	4.0	---	---	---	---	---
I4/R1/ B Duplicate	10-Jul-2018	HK1837885-024	3.0	---	---	---	---	---
B1/R1/ S	10-Jul-2018	HK1837885-025	3.7	---	---	---	---	---
B1/R1/ S Duplicate	10-Jul-2018	HK1837885-026	3.1	---	---	---	---	---
B1/R1/ M	10-Jul-2018	HK1837885-027	3.2	---	---	---	---	---
B1/R1/ M Duplicate	10-Jul-2018	HK1837885-028	3.0	---	---	---	---	---
B1/R1/ B	10-Jul-2018	HK1837885-029	4.5	---	---	---	---	---
B1/R1/ B Duplicate	10-Jul-2018	HK1837885-030	4.9	---	---	---	---	---
F1/R1/ S	10-Jul-2018	HK1837885-031	3.4	---	---	---	---	---

Sub-Matrix: MARINE WATER			Compound LOR Unit	EA025: Suspended Solids (SS)	---	---	---	---
Client sample ID	Client sampling date / time	Laboratory sample ID		0.5 mg/L	---	---	---	---
F1/R1/ S Duplicate	10-Jul-2018	HK1837885-032	3.5	---	---	---	---	---
F1/R1/ M	10-Jul-2018	HK1837885-033	2.0	---	---	---	---	---
F1/R1/ M Duplicate	10-Jul-2018	HK1837885-034	3.8	---	---	---	---	---
F1/R1/ B	10-Jul-2018	HK1837885-035	3.5	---	---	---	---	---
F1/R1/ B Duplicate	10-Jul-2018	HK1837885-036	3.6	---	---	---	---	---
C2/R1/ S	10-Jul-2018	HK1837885-037	3.5	---	---	---	---	---
C2/R1/ S Duplicate	10-Jul-2018	HK1837885-038	3.9	---	---	---	---	---
C2/R1/ M	10-Jul-2018	HK1837885-039	2.6	---	---	---	---	---
C2/R1/ M Duplicate	10-Jul-2018	HK1837885-040	2.8	---	---	---	---	---
C2/R1/ B	10-Jul-2018	HK1837885-041	3.8	---	---	---	---	---
C2/R1/ B Duplicate	10-Jul-2018	HK1837885-042	3.0	---	---	---	---	---
C3/R1/ S	10-Jul-2018	HK1837885-043	4.7	---	---	---	---	---
C3/R1/ S Duplicate	10-Jul-2018	HK1837885-044	4.7	---	---	---	---	---
C3/R1/ M	10-Jul-2018	HK1837885-045	3.9	---	---	---	---	---
C3/R1/ M Duplicate	10-Jul-2018	HK1837885-046	5.4	---	---	---	---	---
C3/R1/ B	10-Jul-2018	HK1837885-047	6.0	---	---	---	---	---
C3/R1/ B Duplicate	10-Jul-2018	HK1837885-048	6.4	---	---	---	---	---
E1/R2/ S	10-Jul-2018	HK1837885-049	3.6	---	---	---	---	---
E1/R2/ S Duplicate	10-Jul-2018	HK1837885-050	4.0	---	---	---	---	---
E1/R2/ M	10-Jul-2018	HK1837885-051	5.2	---	---	---	---	---
E1/R2/ M Duplicate	10-Jul-2018	HK1837885-052	5.3	---	---	---	---	---
E1/R2/ B	10-Jul-2018	HK1837885-053	4.2	---	---	---	---	---
E1/R2/ B Duplicate	10-Jul-2018	HK1837885-054	4.8	---	---	---	---	---
G1/R2/ S	10-Jul-2018	HK1837885-055	3.4	---	---	---	---	---
G1/R2/ S Duplicate	10-Jul-2018	HK1837885-056	3.3	---	---	---	---	---
G1/R2/ M	10-Jul-2018	HK1837885-057	3.6	---	---	---	---	---
G1/R2/ M Duplicate	10-Jul-2018	HK1837885-058	2.9	---	---	---	---	---
G1/R2/ B	10-Jul-2018	HK1837885-059	4.2	---	---	---	---	---
G1/R2/ B Duplicate	10-Jul-2018	HK1837885-060	4.7	---	---	---	---	---
I3/R2/ S	10-Jul-2018	HK1837885-061	3.5	---	---	---	---	---
I3/R2/ S Duplicate	10-Jul-2018	HK1837885-062	4.0	---	---	---	---	---
I3/R2/ M	10-Jul-2018	HK1837885-063	6.2	---	---	---	---	---
I3/R2/ M Duplicate	10-Jul-2018	HK1837885-064	5.6	---	---	---	---	---

Sub-Matrix: MARINE WATER			Compound LOR Unit	EA025: Suspended Solids (SS)	---	---	---	---
Client sample ID	Client sampling date / time	Laboratory sample ID		0.5 mg/L	---	---	---	---
I3/R2/ B	10-Jul-2018	HK1837885-065	4.9	---	---	---	---	---
I3/R2/ B Duplicate	10-Jul-2018	HK1837885-066	4.9	---	---	---	---	---
I4/R2/ S	10-Jul-2018	HK1837885-067	2.3	---	---	---	---	---
I4/R2/ S Duplicate	10-Jul-2018	HK1837885-068	3.3	---	---	---	---	---
I4/R2/ M	10-Jul-2018	HK1837885-069	3.8	---	---	---	---	---
I4/R2/ M Duplicate	10-Jul-2018	HK1837885-070	6.0	---	---	---	---	---
I4/R2/ B	10-Jul-2018	HK1837885-071	3.7	---	---	---	---	---
I4/R2/ B Duplicate	10-Jul-2018	HK1837885-072	5.4	---	---	---	---	---
B1/R2/ S	10-Jul-2018	HK1837885-073	2.0	---	---	---	---	---
B1/R2/ S Duplicate	10-Jul-2018	HK1837885-074	2.1	---	---	---	---	---
B1/R2/ M	10-Jul-2018	HK1837885-075	3.7	---	---	---	---	---
B1/R2/ M Duplicate	10-Jul-2018	HK1837885-076	3.7	---	---	---	---	---
B1/R2/ B	10-Jul-2018	HK1837885-077	3.6	---	---	---	---	---
B1/R2/ B Duplicate	10-Jul-2018	HK1837885-078	3.5	---	---	---	---	---
F1/R2/ S	10-Jul-2018	HK1837885-079	3.9	---	---	---	---	---
F1/R2/ S Duplicate	10-Jul-2018	HK1837885-080	3.5	---	---	---	---	---
F1/R2/ M	10-Jul-2018	HK1837885-081	4.0	---	---	---	---	---
F1/R2/ M Duplicate	10-Jul-2018	HK1837885-082	3.5	---	---	---	---	---
F1/R2/ B	10-Jul-2018	HK1837885-083	2.1	---	---	---	---	---
F1/R2/ B Duplicate	10-Jul-2018	HK1837885-084	2.8	---	---	---	---	---
C2/R2/ S	10-Jul-2018	HK1837885-085	2.8	---	---	---	---	---
C2/R2/ S Duplicate	10-Jul-2018	HK1837885-086	2.7	---	---	---	---	---
C2/R2/ M	10-Jul-2018	HK1837885-087	2.1	---	---	---	---	---
C2/R2/ M Duplicate	10-Jul-2018	HK1837885-088	3.5	---	---	---	---	---
C2/R2/ B	10-Jul-2018	HK1837885-089	2.0	---	---	---	---	---
C2/R2/ B Duplicate	10-Jul-2018	HK1837885-090	3.4	---	---	---	---	---
C3/R2/ S	10-Jul-2018	HK1837885-091	2.6	---	---	---	---	---
C3/R2/ S Duplicate	10-Jul-2018	HK1837885-092	3.0	---	---	---	---	---
C3/R2/ M	10-Jul-2018	HK1837885-093	3.0	---	---	---	---	---
C3/R2/ M Duplicate	10-Jul-2018	HK1837885-094	2.7	---	---	---	---	---
C3/R2/ B	10-Jul-2018	HK1837885-095	2.1	---	---	---	---	---
C3/R2/ B Duplicate	10-Jul-2018	HK1837885-096	2.4	---	---	---	---	---
E1/R3/ S	10-Jul-2018	HK1837885-097	3.3	---	---	---	---	---

Sub-Matrix: MARINE WATER			Compound LOR Unit	EA025: Suspended Solids (SS)	---	---	---	---
Client sample ID	Client sampling date / time	Laboratory sample ID		0.5 mg/L	---	---	---	---
E1/R3/ S Duplicate	10-Jul-2018	HK1837885-098	3.4	---	---	---	---	---
E1/R3/ M	10-Jul-2018	HK1837885-099	4.0	---	---	---	---	---
E1/R3/ M Duplicate	10-Jul-2018	HK1837885-100	4.1	---	---	---	---	---
E1/R3/ B	10-Jul-2018	HK1837885-101	2.7	---	---	---	---	---
E1/R3/ B Duplicate	10-Jul-2018	HK1837885-102	5.0	---	---	---	---	---
G1/R3/ S	10-Jul-2018	HK1837885-103	2.3	---	---	---	---	---
G1/R3/ S Duplicate	10-Jul-2018	HK1837885-104	2.8	---	---	---	---	---
G1/R3/ M	10-Jul-2018	HK1837885-105	3.7	---	---	---	---	---
G1/R3/ M Duplicate	10-Jul-2018	HK1837885-106	2.6	---	---	---	---	---
G1/R3/ B	10-Jul-2018	HK1837885-107	3.5	---	---	---	---	---
G1/R3/ B Duplicate	10-Jul-2018	HK1837885-108	3.9	---	---	---	---	---
I3/R3/ S	10-Jul-2018	HK1837885-109	4.6	---	---	---	---	---
I3/R3/ S Duplicate	10-Jul-2018	HK1837885-110	4.2	---	---	---	---	---
I3/R3/ M	10-Jul-2018	HK1837885-111	3.6	---	---	---	---	---
I3/R3/ M Duplicate	10-Jul-2018	HK1837885-112	3.2	---	---	---	---	---
I3/R3/ B	10-Jul-2018	HK1837885-113	4.9	---	---	---	---	---
I3/R3/ B Duplicate	10-Jul-2018	HK1837885-114	3.3	---	---	---	---	---
I4/R3/ S	10-Jul-2018	HK1837885-115	3.3	---	---	---	---	---
I4/R3/ S Duplicate	10-Jul-2018	HK1837885-116	3.5	---	---	---	---	---
I4/R3/ M	10-Jul-2018	HK1837885-117	3.2	---	---	---	---	---
I4/R3/ M Duplicate	10-Jul-2018	HK1837885-118	3.4	---	---	---	---	---
I4/R3/ B	10-Jul-2018	HK1837885-119	3.7	---	---	---	---	---
I4/R3/ B Duplicate	10-Jul-2018	HK1837885-120	3.6	---	---	---	---	---
B1/R3/ S	10-Jul-2018	HK1837885-121	4.0	---	---	---	---	---
B1/R3/ S Duplicate	10-Jul-2018	HK1837885-122	5.2	---	---	---	---	---
B1/R3/ M	10-Jul-2018	HK1837885-123	4.3	---	---	---	---	---
B1/R3/ M Duplicate	10-Jul-2018	HK1837885-124	3.3	---	---	---	---	---
B1/R3/ B	10-Jul-2018	HK1837885-125	3.8	---	---	---	---	---
B1/R3/ B Duplicate	10-Jul-2018	HK1837885-126	2.8	---	---	---	---	---
F1/R3/ S	10-Jul-2018	HK1837885-127	3.5	---	---	---	---	---
F1/R3/ S Duplicate	10-Jul-2018	HK1837885-128	3.2	---	---	---	---	---
F1/R3/ M	10-Jul-2018	HK1837885-129	2.7	---	---	---	---	---
F1/R3/ M Duplicate	10-Jul-2018	HK1837885-130	2.3	---	---	---	---	---

Sub-Matrix: MARINE WATER			Compound LOR Unit	EA025: Suspended Solids (SS)	---	---	---	---
Client sample ID	Client sampling date / time	Laboratory sample ID		0.5 mg/L	---	---	---	---
F1/R3/ B	10-Jul-2018	HK1837885-131	3.0	---	---	---	---	---
F1/R3/ B Duplicate	10-Jul-2018	HK1837885-132	3.5	---	---	---	---	---
C2/R3/ S	10-Jul-2018	HK1837885-133	2.9	---	---	---	---	---
C2/R3/ S Duplicate	10-Jul-2018	HK1837885-134	2.5	---	---	---	---	---
C2/R3/ M	10-Jul-2018	HK1837885-135	2.0	---	---	---	---	---
C2/R3/ M Duplicate	10-Jul-2018	HK1837885-136	4.4	---	---	---	---	---
C2/R3/ B	10-Jul-2018	HK1837885-137	3.1	---	---	---	---	---
C2/R3/ B Duplicate	10-Jul-2018	HK1837885-138	4.1	---	---	---	---	---
C3/R3/ S	10-Jul-2018	HK1837885-139	3.9	---	---	---	---	---
C3/R3/ S Duplicate	10-Jul-2018	HK1837885-140	4.5	---	---	---	---	---
C3/R3/ M	10-Jul-2018	HK1837885-141	4.2	---	---	---	---	---
C3/R3/ M Duplicate	10-Jul-2018	HK1837885-142	2.5	---	---	---	---	---
C3/R3/ B	10-Jul-2018	HK1837885-143	7.2	---	---	---	---	---
C3/R3/ B Duplicate	10-Jul-2018	HK1837885-144	5.5	---	---	---	---	---
E1/R4/ S	10-Jul-2018	HK1837885-145	6.4	---	---	---	---	---
E1/R4/ S Duplicate	10-Jul-2018	HK1837885-146	4.6	---	---	---	---	---
E1/R4/ M	10-Jul-2018	HK1837885-147	5.4	---	---	---	---	---
E1/R4/ M Duplicate	10-Jul-2018	HK1837885-148	6.7	---	---	---	---	---
E1/R4/ B	10-Jul-2018	HK1837885-149	6.8	---	---	---	---	---
E1/R4/ B Duplicate	10-Jul-2018	HK1837885-150	8.1	---	---	---	---	---
G1/R4/ S	10-Jul-2018	HK1837885-151	5.8	---	---	---	---	---
G1/R4/ S Duplicate	10-Jul-2018	HK1837885-152	6.0	---	---	---	---	---
G1/R4/ M	10-Jul-2018	HK1837885-153	5.8	---	---	---	---	---
G1/R4/ M Duplicate	10-Jul-2018	HK1837885-154	4.8	---	---	---	---	---
G1/R4/ B	10-Jul-2018	HK1837885-155	9.2	---	---	---	---	---
G1/R4/ B Duplicate	10-Jul-2018	HK1837885-156	10.1	---	---	---	---	---
I3/R4/ S	10-Jul-2018	HK1837885-157	5.5	---	---	---	---	---
I3/R4/ S Duplicate	10-Jul-2018	HK1837885-158	5.4	---	---	---	---	---
I3/R4/ M	10-Jul-2018	HK1837885-159	7.7	---	---	---	---	---
I3/R4/ M Duplicate	10-Jul-2018	HK1837885-160	6.9	---	---	---	---	---
I3/R4/ B	10-Jul-2018	HK1837885-161	9.6	---	---	---	---	---
I3/R4/ B Duplicate	10-Jul-2018	HK1837885-162	10.1	---	---	---	---	---
I4/R4/ S	10-Jul-2018	HK1837885-163	9.0	---	---	---	---	---

Sub-Matrix: MARINE WATER			Compound LOR Unit	EA025: Suspended Solids (SS)	---	---	---	---
				0.5 mg/L	---	---	---	---
Client sample ID	Client sampling date / time	Laboratory sample ID	EA/ED: Physical and Aggregate Properties	---	---	---	---	---
I4/R4/ S Duplicate	10-Jul-2018	HK1837885-164	10.9	---	---	---	---	---
I4/R4/ M	10-Jul-2018	HK1837885-165	10.9	---	---	---	---	---
I4/R4/ M Duplicate	10-Jul-2018	HK1837885-166	11.2	---	---	---	---	---
I4/R4/ B	10-Jul-2018	HK1837885-167	10.9	---	---	---	---	---
I4/R4/ B Duplicate	10-Jul-2018	HK1837885-168	9.9	---	---	---	---	---
B1/R4/ S	10-Jul-2018	HK1837885-169	7.2	---	---	---	---	---
B1/R4/ S Duplicate	10-Jul-2018	HK1837885-170	7.9	---	---	---	---	---
B1/R4/ M	10-Jul-2018	HK1837885-171	6.8	---	---	---	---	---
B1/R4/ M Duplicate	10-Jul-2018	HK1837885-172	7.9	---	---	---	---	---
B1/R4/ B	10-Jul-2018	HK1837885-173	8.0	---	---	---	---	---
B1/R4/ B Duplicate	10-Jul-2018	HK1837885-174	7.5	---	---	---	---	---
F1/R4/ S	10-Jul-2018	HK1837885-175	8.9	---	---	---	---	---
F1/R4/ S Duplicate	10-Jul-2018	HK1837885-176	8.7	---	---	---	---	---
F1/R4/ M	10-Jul-2018	HK1837885-177	8.2	---	---	---	---	---
F1/R4/ M Duplicate	10-Jul-2018	HK1837885-178	8.3	---	---	---	---	---
F1/R4/ B	10-Jul-2018	HK1837885-179	9.6	---	---	---	---	---
F1/R4/ B Duplicate	10-Jul-2018	HK1837885-180	8.1	---	---	---	---	---
C2/R4/ S	10-Jul-2018	HK1837885-181	7.8	---	---	---	---	---
C2/R4/ S Duplicate	10-Jul-2018	HK1837885-182	7.4	---	---	---	---	---
C2/R4/ M	10-Jul-2018	HK1837885-183	8.1	---	---	---	---	---
C2/R4/ M Duplicate	10-Jul-2018	HK1837885-184	8.6	---	---	---	---	---
C2/R4/ B	10-Jul-2018	HK1837885-185	8.9	---	---	---	---	---
C2/R4/ B Duplicate	10-Jul-2018	HK1837885-186	9.2	---	---	---	---	---
C3/R4/ S	10-Jul-2018	HK1837885-187	7.9	---	---	---	---	---
C3/R4/ S Duplicate	10-Jul-2018	HK1837885-188	9.4	---	---	---	---	---
C3/R4/ M	10-Jul-2018	HK1837885-189	8.6	---	---	---	---	---
C3/R4/ M Duplicate	10-Jul-2018	HK1837885-190	8.7	---	---	---	---	---
C3/R4/ B	10-Jul-2018	HK1837885-191	11.1	---	---	---	---	---
C3/R4/ B Duplicate	10-Jul-2018	HK1837885-192	10.6	---	---	---	---	---
E1/R5/ S	10-Jul-2018	HK1837885-193	5.1	---	---	---	---	---
E1/R5/ S Duplicate	10-Jul-2018	HK1837885-194	5.5	---	---	---	---	---
E1/R5/ M	10-Jul-2018	HK1837885-195	6.0	---	---	---	---	---
E1/R5/ M Duplicate	10-Jul-2018	HK1837885-196	4.7	---	---	---	---	---

Sub-Matrix: MARINE WATER			Compound LOR Unit	EA025: Suspended Solids (SS)	---	---	---	---
Client sample ID	Client sampling date / time	Laboratory sample ID		0.5 mg/L	---	---	---	---
E1/R5/ B	10-Jul-2018	HK1837885-197	8.1	---	---	---	---	---
E1/R5/ B Duplicate	10-Jul-2018	HK1837885-198	5.9	---	---	---	---	---
G1/R5/ S	10-Jul-2018	HK1837885-199	6.5	---	---	---	---	---
G1/R5/ S Duplicate	10-Jul-2018	HK1837885-200	5.7	---	---	---	---	---
G1/R5/ M	10-Jul-2018	HK1837885-201	7.8	---	---	---	---	---
G1/R5/ M Duplicate	10-Jul-2018	HK1837885-202	6.7	---	---	---	---	---
G1/R5/ B	10-Jul-2018	HK1837885-203	10.0	---	---	---	---	---
G1/R5/ B Duplicate	10-Jul-2018	HK1837885-204	7.8	---	---	---	---	---
I3/R5/ S	10-Jul-2018	HK1837885-205	6.6	---	---	---	---	---
I3/R5/ S Duplicate	10-Jul-2018	HK1837885-206	6.1	---	---	---	---	---
I3/R5/ M	10-Jul-2018	HK1837885-207	6.8	---	---	---	---	---
I3/R5/ M Duplicate	10-Jul-2018	HK1837885-208	6.8	---	---	---	---	---
I3/R5/ B	10-Jul-2018	HK1837885-209	9.2	---	---	---	---	---
I3/R5/ B Duplicate	10-Jul-2018	HK1837885-210	7.4	---	---	---	---	---
I4/R5/ S	10-Jul-2018	HK1837885-211	5.0	---	---	---	---	---
I4/R5/ S Duplicate	10-Jul-2018	HK1837885-212	6.2	---	---	---	---	---
I4/R5/ M	10-Jul-2018	HK1837885-213	6.1	---	---	---	---	---
I4/R5/ M Duplicate	10-Jul-2018	HK1837885-214	5.1	---	---	---	---	---
I4/R5/ B	10-Jul-2018	HK1837885-215	5.6	---	---	---	---	---
I4/R5/ B Duplicate	10-Jul-2018	HK1837885-216	5.0	---	---	---	---	---
B1/R5/ S	10-Jul-2018	HK1837885-217	5.7	---	---	---	---	---
B1/R5/ S Duplicate	10-Jul-2018	HK1837885-218	6.1	---	---	---	---	---
B1/R5/ M	10-Jul-2018	HK1837885-219	6.7	---	---	---	---	---
B1/R5/ M Duplicate	10-Jul-2018	HK1837885-220	6.2	---	---	---	---	---
B1/R5/ B	10-Jul-2018	HK1837885-221	7.0	---	---	---	---	---
B1/R5/ B Duplicate	10-Jul-2018	HK1837885-222	7.5	---	---	---	---	---
F1/R5/ S	10-Jul-2018	HK1837885-223	4.6	---	---	---	---	---
F1/R5/ S Duplicate	10-Jul-2018	HK1837885-224	5.5	---	---	---	---	---
F1/R5/ M	10-Jul-2018	HK1837885-225	5.7	---	---	---	---	---
F1/R5/ M Duplicate	10-Jul-2018	HK1837885-226	5.8	---	---	---	---	---
F1/R5/ B	10-Jul-2018	HK1837885-227	6.9	---	---	---	---	---
F1/R5/ B Duplicate	10-Jul-2018	HK1837885-228	6.9	---	---	---	---	---
C2/R5/ S	10-Jul-2018	HK1837885-229	6.4	---	---	---	---	---

Sub-Matrix: MARINE WATER			Compound LOR Unit	EA025: Suspended Solids (SS)	---	---	---	---
Client sample ID	Client sampling date / time	Laboratory sample ID		0.5 mg/L	---	---	---	---
C2/R5/ S Duplicate	10-Jul-2018	HK1837885-230	6.6	---	---	---	---	---
C2/R5/ M	10-Jul-2018	HK1837885-231	7.2	---	---	---	---	---
C2/R5/ M Duplicate	10-Jul-2018	HK1837885-232	6.4	---	---	---	---	---
C2/R5/ B	10-Jul-2018	HK1837885-233	5.1	---	---	---	---	---
C2/R5/ B Duplicate	10-Jul-2018	HK1837885-234	5.9	---	---	---	---	---
C3/R5/ S	10-Jul-2018	HK1837885-235	5.6	---	---	---	---	---
C3/R5/ S Duplicate	10-Jul-2018	HK1837885-236	5.9	---	---	---	---	---
C3/R5/ M	10-Jul-2018	HK1837885-237	6.2	---	---	---	---	---
C3/R5/ M Duplicate	10-Jul-2018	HK1837885-238	5.3	---	---	---	---	---
C3/R5/ B	10-Jul-2018	HK1837885-239	5.0	---	---	---	---	---
C3/R5/ B Duplicate	10-Jul-2018	HK1837885-240	6.2	---	---	---	---	---
E1/R6/ S	10-Jul-2018	HK1837885-241	5.4	---	---	---	---	---
E1/R6/ S Duplicate	10-Jul-2018	HK1837885-242	5.3	---	---	---	---	---
E1/R6/ M	10-Jul-2018	HK1837885-243	5.5	---	---	---	---	---
E1/R6/ M Duplicate	10-Jul-2018	HK1837885-244	6.0	---	---	---	---	---
E1/R6/ B	10-Jul-2018	HK1837885-245	5.5	---	---	---	---	---
E1/R6/ B Duplicate	10-Jul-2018	HK1837885-246	5.6	---	---	---	---	---
G1/R6/ S	10-Jul-2018	HK1837885-247	4.2	---	---	---	---	---
G1/R6/ S Duplicate	10-Jul-2018	HK1837885-248	4.1	---	---	---	---	---
G1/R6/ M	10-Jul-2018	HK1837885-249	3.9	---	---	---	---	---
G1/R6/ M Duplicate	10-Jul-2018	HK1837885-250	4.6	---	---	---	---	---
G1/R6/ B	10-Jul-2018	HK1837885-251	4.2	---	---	---	---	---
G1/R6/ B Duplicate	10-Jul-2018	HK1837885-252	3.6	---	---	---	---	---
I3/R6/ S	10-Jul-2018	HK1837885-253	5.1	---	---	---	---	---
I3/R6/ S Duplicate	10-Jul-2018	HK1837885-254	4.1	---	---	---	---	---
I3/R6/ M	10-Jul-2018	HK1837885-255	7.1	---	---	---	---	---
I3/R6/ M Duplicate	10-Jul-2018	HK1837885-256	5.9	---	---	---	---	---
I3/R6/ B	10-Jul-2018	HK1837885-257	10.8	---	---	---	---	---
I3/R6/ B Duplicate	10-Jul-2018	HK1837885-258	10.9	---	---	---	---	---
I4/R6/ S	10-Jul-2018	HK1837885-259	6.0	---	---	---	---	---
I4/R6/ S Duplicate	10-Jul-2018	HK1837885-260	4.5	---	---	---	---	---
I4/R6/ M	10-Jul-2018	HK1837885-261	5.8	---	---	---	---	---
I4/R6/ M Duplicate	10-Jul-2018	HK1837885-262	5.9	---	---	---	---	---

Sub-Matrix: MARINE WATER			Compound LOR Unit	EA025: Suspended Solids (SS)	---	---	---	---
Client sample ID	Client sampling date / time	Laboratory sample ID		0.5 mg/L	---	---	---	---
I4/R6/ B	10-Jul-2018	HK1837885-263	7.7	---	---	---	---	---
I4/R6/ B Duplicate	10-Jul-2018	HK1837885-264	6.4	---	---	---	---	---
B1/R6/ S	10-Jul-2018	HK1837885-265	4.9	---	---	---	---	---
B1/R6/ S Duplicate	10-Jul-2018	HK1837885-266	3.7	---	---	---	---	---
B1/R6/ M	10-Jul-2018	HK1837885-267	3.8	---	---	---	---	---
B1/R6/ M Duplicate	10-Jul-2018	HK1837885-268	6.1	---	---	---	---	---
B1/R6/ B	10-Jul-2018	HK1837885-269	6.1	---	---	---	---	---
B1/R6/ B Duplicate	10-Jul-2018	HK1837885-270	5.9	---	---	---	---	---
F1/R6/ S	10-Jul-2018	HK1837885-271	3.3	---	---	---	---	---
F1/R6/ S Duplicate	10-Jul-2018	HK1837885-272	3.3	---	---	---	---	---
F1/R6/ M	10-Jul-2018	HK1837885-273	4.0	---	---	---	---	---
F1/R6/ M Duplicate	10-Jul-2018	HK1837885-274	4.7	---	---	---	---	---
F1/R6/ B	10-Jul-2018	HK1837885-275	4.1	---	---	---	---	---
F1/R6/ B Duplicate	10-Jul-2018	HK1837885-276	3.1	---	---	---	---	---
C2/R6/ S	10-Jul-2018	HK1837885-277	5.1	---	---	---	---	---
C2/R6/ S Duplicate	10-Jul-2018	HK1837885-278	5.7	---	---	---	---	---
C2/R6/ M	10-Jul-2018	HK1837885-279	6.3	---	---	---	---	---
C2/R6/ M Duplicate	10-Jul-2018	HK1837885-280	6.2	---	---	---	---	---
C2/R6/ B	10-Jul-2018	HK1837885-281	7.4	---	---	---	---	---
C2/R6/ B Duplicate	10-Jul-2018	HK1837885-282	7.5	---	---	---	---	---
C3/R6/ S	10-Jul-2018	HK1837885-283	2.6	---	---	---	---	---
C3/R6/ S Duplicate	10-Jul-2018	HK1837885-284	2.8	---	---	---	---	---
C3/R6/ M	10-Jul-2018	HK1837885-285	4.7	---	---	---	---	---
C3/R6/ M Duplicate	10-Jul-2018	HK1837885-286	5.3	---	---	---	---	---
C3/R6/ B	10-Jul-2018	HK1837885-287	5.1	---	---	---	---	---
C3/R6/ B Duplicate	10-Jul-2018	HK1837885-288	6.1	---	---	---	---	---

Laboratory Duplicate (DUP) Report

Matrix: WATER

Laboratory Duplicate (DUP) Report								
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and Aggregate Properties (QC Lot: 1792021)								
HK1837885-001	E1/R1/ S	EA025: Suspended Solids (SS)	---	0.5	mg/L	3.4	3.6	6.45
HK1837885-011	G1/R1/ B	EA025: Suspended Solids (SS)	---	0.5	mg/L	3.3	3.4	3.01
EA/ED: Physical and Aggregate Properties (QC Lot: 1792022)								
HK1837885-021	I4/R1/ M	EA025: Suspended Solids (SS)	---	0.5	mg/L	3.8	3.1	19.6
HK1837885-031	F1/R1/ S	EA025: Suspended Solids (SS)	---	0.5	mg/L	3.4	2.9	15.7
EA/ED: Physical and Aggregate Properties (QC Lot: 1792023)								
HK1837885-041	C2/R1/ B	EA025: Suspended Solids (SS)	---	0.5	mg/L	3.8	4.4	14.4
HK1837885-051	E1/R2/ M	EA025: Suspended Solids (SS)	---	0.5	mg/L	5.2	4.8	7.48
EA/ED: Physical and Aggregate Properties (QC Lot: 1792024)								
HK1837885-061	I3/R2/ S	EA025: Suspended Solids (SS)	---	0.5	mg/L	3.5	3.8	9.52
HK1837885-071	I4/R2/ B	EA025: Suspended Solids (SS)	---	0.5	mg/L	3.7	4.0	6.54
EA/ED: Physical and Aggregate Properties (QC Lot: 1792025)								
HK1837885-081	F1/R2/ M	EA025: Suspended Solids (SS)	---	0.5	mg/L	4.0	3.4	16.1
HK1837885-091	C3/R2/ S	EA025: Suspended Solids (SS)	---	0.5	mg/L	2.6	2.9	8.14
EA/ED: Physical and Aggregate Properties (QC Lot: 1792026)								
HK1837885-101	E1/R3/ B	EA025: Suspended Solids (SS)	---	0.5	mg/L	2.7	2.7	0.00
HK1837885-111	I3/R3/ M	EA025: Suspended Solids (SS)	---	0.5	mg/L	3.6	4.2	16.6
EA/ED: Physical and Aggregate Properties (QC Lot: 1792027)								
HK1837885-121	B1/R3/ S	EA025: Suspended Solids (SS)	---	0.5	mg/L	4.0	4.4	9.58
HK1837885-131	F1/R3/ B	EA025: Suspended Solids (SS)	---	0.5	mg/L	3.0	2.6	15.1
EA/ED: Physical and Aggregate Properties (QC Lot: 1792028)								
HK1837885-141	C3/R3/ M	EA025: Suspended Solids (SS)	---	0.5	mg/L	4.2	4.9	13.7
HK1837885-151	G1/R4/ S	EA025: Suspended Solids (SS)	---	0.5	mg/L	5.8	6.2	5.86
EA/ED: Physical and Aggregate Properties (QC Lot: 1792029)								
HK1837885-161	I3/R4/ B	EA025: Suspended Solids (SS)	---	0.5	mg/L	9.6	9.0	5.38
HK1837885-171	B1/R4/ M	EA025: Suspended Solids (SS)	---	0.5	mg/L	6.8	7.4	8.08
EA/ED: Physical and Aggregate Properties (QC Lot: 1792030)								
HK1837885-181	C2/R4/ S	EA025: Suspended Solids (SS)	---	0.5	mg/L	7.8	7.2	8.70
HK1837885-191	C3/R4/ B	EA025: Suspended Solids (SS)	---	0.5	mg/L	11.1	12.5	11.4
EA/ED: Physical and Aggregate Properties (QC Lot: 1792031)								
HK1837885-201	G1/R5/ M	EA025: Suspended Solids (SS)	---	0.5	mg/L	7.8	6.7	14.5
HK1837885-211	I4/R5/ S	EA025: Suspended Solids (SS)	---	0.5	mg/L	5.0	5.0	0.00
EA/ED: Physical and Aggregate Properties (QC Lot: 1792032)								
HK1837885-221	B1/R5/ B	EA025: Suspended Solids (SS)	---	0.5	mg/L	7.0	6.5	7.76
HK1837885-231	C2/R5/ M	EA025: Suspended Solids (SS)	---	0.5	mg/L	7.2	7.4	1.71

Matrix: WATER								Laboratory Duplicate (DUP) Report			
Laboratory sample ID	Client sample ID	Method: Compound			CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	
EA/ED: Physical and Aggregate Properties (QC Lot: 1792033)											
HK1837885-241	E1/R6/ S	EA025: Suspended Solids (SS)	---	0.5	mg/L	5.4	5.2	2.36			
HK1837885-251	G1/R6/ B	EA025: Suspended Solids (SS)	---	0.5	mg/L	4.2	3.7	13.8			
EA/ED: Physical and Aggregate Properties (QC Lot: 1792034)											
HK1837885-261	I4/R6/ M	EA025: Suspended Solids (SS)	---	0.5	mg/L	5.8	5.6	2.63			
HK1837885-271	F1/R6/ S	EA025: Suspended Solids (SS)	---	0.5	mg/L	3.3	3.3	0.00			
EA/ED: Physical and Aggregate Properties (QC Lot: 1792035)											
HK1837885-281	C2/R6/ B	EA025: Suspended Solids (SS)	---	0.5	mg/L	7.4	6.4	14.1			

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: WATER	Method Blank (MB) Report				Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report							
	Method: Compound	CAS Number	LOR	Unit	Result	Spike	Spike Recovery (%)		Recovery Limits (%)		RPDs (%)	
						Concentration	LCS	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Properties (QC Lot: 1792021)												
EA025: Suspended Solids (SS)	---	0.5	mg/L	<0.5	20 mg/L	94.5	---	85	115	---	---	
EA/ED: Physical and Aggregate Properties (QC Lot: 1792022)												
EA025: Suspended Solids (SS)	---	0.5	mg/L	<0.5	20 mg/L	88.0	---	85	115	---	---	
EA/ED: Physical and Aggregate Properties (QC Lot: 1792023)												
EA025: Suspended Solids (SS)	---	0.5	mg/L	<0.5	20 mg/L	87.5	---	85	115	---	---	
EA/ED: Physical and Aggregate Properties (QC Lot: 1792024)												
EA025: Suspended Solids (SS)	---	0.5	mg/L	<0.5	20 mg/L	103	---	85	115	---	---	
EA/ED: Physical and Aggregate Properties (QC Lot: 1792025)												
EA025: Suspended Solids (SS)	---	0.5	mg/L	<0.5	20 mg/L	88.5	---	85	115	---	---	
EA/ED: Physical and Aggregate Properties (QC Lot: 1792026)												
EA025: Suspended Solids (SS)	---	0.5	mg/L	<0.5	20 mg/L	99.5	---	85	115	---	---	
EA/ED: Physical and Aggregate Properties (QC Lot: 1792027)												
EA025: Suspended Solids (SS)	---	0.5	mg/L	<0.5	20 mg/L	91.0	---	85	115	---	---	
EA/ED: Physical and Aggregate Properties (QC Lot: 1792028)												
EA025: Suspended Solids (SS)	---	0.5	mg/L	<0.5	20 mg/L	110	---	85	115	---	---	
EA/ED: Physical and Aggregate Properties (QC Lot: 1792029)												
EA025: Suspended Solids (SS)	---	0.5	mg/L	<0.5	20 mg/L	110	---	85	115	---	---	
EA/ED: Physical and Aggregate Properties (QC Lot: 1792030)												
EA025: Suspended Solids (SS)	---	0.5	mg/L	<0.5	20 mg/L	106	---	85	115	---	---	
EA/ED: Physical and Aggregate Properties (QC Lot: 1792031)												
EA025: Suspended Solids (SS)	---	0.5	mg/L	<0.5	20 mg/L	107	---	85	115	---	---	
EA/ED: Physical and Aggregate Properties (QC Lot: 1792032)												
EA025: Suspended Solids (SS)	---	0.5	mg/L	<0.5	20 mg/L	110	---	85	115	---	---	



Matrix: WATER	Method Blank (MB) Report				Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report													
	Method: Compound	CAS Number	LOR	Unit	Result	Spike	Spike Recovery (%)		Recovery Limits (%)		RPDs (%)							
							Concentration	LCS	DCS	Low	High	Value	Control Limit					
EA/ED: Physical and Aggregate Properties (QCLot: 1792033)																		
EA025: Suspended Solids (SS)		----	0.5	mg/L	<0.5	20 mg/L	91.0	----	85	115	----	----						
EA/ED: Physical and Aggregate Properties (QCLOT: 1792034)																		
EA025: Suspended Solids (SS)		----	0.5	mg/L	<0.5	20 mg/L	96.5	----	85	115	----	----						
EA/ED: Physical and Aggregate Properties (QCLOT: 1792035)																		
EA025: Suspended Solids (SS)		----	0.5	mg/L	<0.5	20 mg/L	96.0	----	85	115	----	----						

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

- No Matrix Spike (MS) or Matrix Spike Duplicate (MSD) Results are required to be reported.

**CERTIFICATE OF ANALYSIS**

<i>Client</i>	: ENOVATIVE ENVIRONMENTAL SERVICE LTD	<i>Laboratory</i>	: ALS Technichem (HK) Pty Ltd	<i>Page</i>	: 1 of 10
<i>Contact</i>	: MR THOMAS WONG	<i>Contact</i>	: Richard Fung	<i>Work Order</i>	: HK1837896
<i>Address</i>	: FLAT 2207, YU FUN HSE, YU CHUI COURT, SHATIN, N.T. HONG KONG	<i>Address</i>	: 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
<i>E-mail</i>	: Thomas.Wong@eno.com.hk	<i>E-mail</i>	: richard.fung@alsglobal.com		
<i>Telephone</i>	: ----	<i>Telephone</i>	: +852 2610 1044		
<i>Faxsimile</i>	: ----	<i>Faxsimile</i>	: +852 2610 2021		
<i>Project</i>	: PACIFIC LIGHT CABLE NETWORK (PLCN) - DEEP WATER BAY	<i>Quote number</i>	: HKE/1254/2018	<i>Date received</i>	: 11-Jul-2018
<i>Order number</i>	: —			<i>Date of issue</i>	: 16-Jul-2018
<i>C-O-C number</i>	: —			<i>No. of samples</i>	- Received : 192
<i>Site</i>	: —				- Analysed : 192

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This document has been signed by those names that appear on this report and are the authorised signatories.

<i>Signatory</i>	<i>Position</i>	<i>Authorised results for:</i>
Fung Lim Chee, Richard	General Manager	Inorganics

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK1837896 supersedes any previous reports with this reference. Testing period is from 11-Jul-2018 to 16-Jul-2018. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for process purposes. Abbreviations: CAS number = Chemical Abstract Services number. LOR = Limit of reporting.

Specific Comments for Work Order HK1837896 :

Sample(s) were received in chilled condition.

Water sample(s) analysed and reported on as received basis.

The accredited LOR of Total Suspended Solids is 0.5mg/L when 2 Litres sample was used. Due to insufficient sample, the results below 2mg/L and the decimal value of the results reported are for reference only.

Analytical Results

Sub-Matrix: MARINE WATER			Compound LOR Unit	EA025: Suspended Solids (SS)	---	---	---	---
Client sample ID	Client sampling date / time	Laboratory sample ID		0.5 mg/L	---	---	---	---
E1/R1/ S	11-Jul-2018	HK1837896-001	3.6	---	---	---	---	---
E1/R1/ S Duplicate	11-Jul-2018	HK1837896-002	3.9	---	---	---	---	---
E1/R1/ M	11-Jul-2018	HK1837896-003	3.3	---	---	---	---	---
E1/R1/ M Duplicate	11-Jul-2018	HK1837896-004	2.2	---	---	---	---	---
E1/R1/ B	11-Jul-2018	HK1837896-005	4.8	---	---	---	---	---
E1/R1/ B Duplicate	11-Jul-2018	HK1837896-006	4.2	---	---	---	---	---
G1/R1/ S	11-Jul-2018	HK1837896-007	3.5	---	---	---	---	---
G1/R1/ S Duplicate	11-Jul-2018	HK1837896-008	2.1	---	---	---	---	---
G1/R1/ M	11-Jul-2018	HK1837896-009	3.2	---	---	---	---	---
G1/R1/ M Duplicate	11-Jul-2018	HK1837896-010	2.5	---	---	---	---	---
G1/R1/ B	11-Jul-2018	HK1837896-011	3.5	---	---	---	---	---
G1/R1/ B Duplicate	11-Jul-2018	HK1837896-012	2.1	---	---	---	---	---
I3/R1/ S	11-Jul-2018	HK1837896-013	2.3	---	---	---	---	---
I3/R1/ S Duplicate	11-Jul-2018	HK1837896-014	4.1	---	---	---	---	---
I3/R1/ M	11-Jul-2018	HK1837896-015	3.6	---	---	---	---	---
I3/R1/ M Duplicate	11-Jul-2018	HK1837896-016	2.7	---	---	---	---	---
I3/R1/ B	11-Jul-2018	HK1837896-017	5.0	---	---	---	---	---
I3/R1/ B Duplicate	11-Jul-2018	HK1837896-018	4.0	---	---	---	---	---
I4/R1/ S	11-Jul-2018	HK1837896-019	2.0	---	---	---	---	---
I4/R1/ S Duplicate	11-Jul-2018	HK1837896-020	3.7	---	---	---	---	---
I4/R1/ M	11-Jul-2018	HK1837896-021	2.9	---	---	---	---	---
I4/R1/ M Duplicate	11-Jul-2018	HK1837896-022	4.6	---	---	---	---	---
I4/R1/ B	11-Jul-2018	HK1837896-023	3.5	---	---	---	---	---
I4/R1/ B Duplicate	11-Jul-2018	HK1837896-024	3.3	---	---	---	---	---
B1/R1/ S	11-Jul-2018	HK1837896-025	4.0	---	---	---	---	---
B1/R1/ S Duplicate	11-Jul-2018	HK1837896-026	4.0	---	---	---	---	---
B1/R1/ M	11-Jul-2018	HK1837896-027	5.1	---	---	---	---	---
B1/R1/ M Duplicate	11-Jul-2018	HK1837896-028	5.3	---	---	---	---	---
B1/R1/ B	11-Jul-2018	HK1837896-029	3.3	---	---	---	---	---
B1/R1/ B Duplicate	11-Jul-2018	HK1837896-030	3.2	---	---	---	---	---
F1/R1/ S	11-Jul-2018	HK1837896-031	2.7	---	---	---	---	---

Sub-Matrix: MARINE WATER			Compound LOR Unit	EA025: Suspended Solids (SS)	---	---	---	---
Client sample ID	Client sampling date / time	Laboratory sample ID		0.5 mg/L	---	---	---	---
F1/R1/ S Duplicate	11-Jul-2018	HK1837896-032	4.4	---	---	---	---	---
F1/R1/ M	11-Jul-2018	HK1837896-033	2.5	---	---	---	---	---
F1/R1/ M Duplicate	11-Jul-2018	HK1837896-034	3.6	---	---	---	---	---
F1/R1/ B	11-Jul-2018	HK1837896-035	6.3	---	---	---	---	---
F1/R1/ B Duplicate	11-Jul-2018	HK1837896-036	4.4	---	---	---	---	---
C2/R1/ S	11-Jul-2018	HK1837896-037	2.7	---	---	---	---	---
C2/R1/ S Duplicate	11-Jul-2018	HK1837896-038	3.6	---	---	---	---	---
C2/R1/ M	11-Jul-2018	HK1837896-039	2.3	---	---	---	---	---
C2/R1/ M Duplicate	11-Jul-2018	HK1837896-040	3.8	---	---	---	---	---
C2/R1/ B	11-Jul-2018	HK1837896-041	4.4	---	---	---	---	---
C2/R1/ B Duplicate	11-Jul-2018	HK1837896-042	4.8	---	---	---	---	---
C3/R1/ S	11-Jul-2018	HK1837896-043	2.4	---	---	---	---	---
C3/R1/ S Duplicate	11-Jul-2018	HK1837896-044	3.1	---	---	---	---	---
C3/R1/ M	11-Jul-2018	HK1837896-045	3.5	---	---	---	---	---
C3/R1/ M Duplicate	11-Jul-2018	HK1837896-046	3.0	---	---	---	---	---
C3/R1/ B	11-Jul-2018	HK1837896-047	5.9	---	---	---	---	---
C3/R1/ B Duplicate	11-Jul-2018	HK1837896-048	6.8	---	---	---	---	---
E1/R2/ S	11-Jul-2018	HK1837896-049	3.8	---	---	---	---	---
E1/R2/ S Duplicate	11-Jul-2018	HK1837896-050	4.3	---	---	---	---	---
E1/R2/ M	11-Jul-2018	HK1837896-051	4.7	---	---	---	---	---
E1/R2/ M Duplicate	11-Jul-2018	HK1837896-052	4.8	---	---	---	---	---
E1/R2/ B	11-Jul-2018	HK1837896-053	7.7	---	---	---	---	---
E1/R2/ B Duplicate	11-Jul-2018	HK1837896-054	7.3	---	---	---	---	---
G1/R2/ S	11-Jul-2018	HK1837896-055	3.8	---	---	---	---	---
G1/R2/ S Duplicate	11-Jul-2018	HK1837896-056	4.4	---	---	---	---	---
G1/R2/ M	11-Jul-2018	HK1837896-057	4.5	---	---	---	---	---
G1/R2/ M Duplicate	11-Jul-2018	HK1837896-058	4.1	---	---	---	---	---
G1/R2/ B	11-Jul-2018	HK1837896-059	6.7	---	---	---	---	---
G1/R2/ B Duplicate	11-Jul-2018	HK1837896-060	6.0	---	---	---	---	---
I3/R2/ S	11-Jul-2018	HK1837896-061	3.9	---	---	---	---	---
I3/R2/ S Duplicate	11-Jul-2018	HK1837896-062	3.2	---	---	---	---	---
I3/R2/ M	11-Jul-2018	HK1837896-063	2.9	---	---	---	---	---
I3/R2/ M Duplicate	11-Jul-2018	HK1837896-064	3.1	---	---	---	---	---

Sub-Matrix: MARINE WATER			Compound LOR Unit	EA025: Suspended Solids (SS)	---	---	---	---
Client sample ID	Client sampling date / time	Laboratory sample ID		0.5 mg/L	---	---	---	---
I3/R2/ B	11-Jul-2018	HK1837896-065	8.2	---	---	---	---	---
I3/R2/ B Duplicate	11-Jul-2018	HK1837896-066	9.0	---	---	---	---	---
I4/R2/ S	11-Jul-2018	HK1837896-067	4.4	---	---	---	---	---
I4/R2/ S Duplicate	11-Jul-2018	HK1837896-068	5.3	---	---	---	---	---
I4/R2/ M	11-Jul-2018	HK1837896-069	7.9	---	---	---	---	---
I4/R2/ M Duplicate	11-Jul-2018	HK1837896-070	7.9	---	---	---	---	---
I4/R2/ B	11-Jul-2018	HK1837896-071	6.5	---	---	---	---	---
I4/R2/ B Duplicate	11-Jul-2018	HK1837896-072	5.5	---	---	---	---	---
B1/R2/ S	11-Jul-2018	HK1837896-073	5.9	---	---	---	---	---
B1/R2/ S Duplicate	11-Jul-2018	HK1837896-074	6.5	---	---	---	---	---
B1/R2/ M	11-Jul-2018	HK1837896-075	6.3	---	---	---	---	---
B1/R2/ M Duplicate	11-Jul-2018	HK1837896-076	7.5	---	---	---	---	---
B1/R2/ B	11-Jul-2018	HK1837896-077	7.9	---	---	---	---	---
B1/R2/ B Duplicate	11-Jul-2018	HK1837896-078	7.1	---	---	---	---	---
F1/R2/ S	11-Jul-2018	HK1837896-079	4.0	---	---	---	---	---
F1/R2/ S Duplicate	11-Jul-2018	HK1837896-080	4.1	---	---	---	---	---
F1/R2/ M	11-Jul-2018	HK1837896-081	4.8	---	---	---	---	---
F1/R2/ M Duplicate	11-Jul-2018	HK1837896-082	5.8	---	---	---	---	---
F1/R2/ B	11-Jul-2018	HK1837896-083	8.2	---	---	---	---	---
F1/R2/ B Duplicate	11-Jul-2018	HK1837896-084	6.3	---	---	---	---	---
C2/R2/ S	11-Jul-2018	HK1837896-085	4.8	---	---	---	---	---
C2/R2/ S Duplicate	11-Jul-2018	HK1837896-086	4.2	---	---	---	---	---
C2/R2/ M	11-Jul-2018	HK1837896-087	7.1	---	---	---	---	---
C2/R2/ M Duplicate	11-Jul-2018	HK1837896-088	5.0	---	---	---	---	---
C2/R2/ B	11-Jul-2018	HK1837896-089	10.9	---	---	---	---	---
C2/R2/ B Duplicate	11-Jul-2018	HK1837896-090	10.7	---	---	---	---	---
C3/R2/ S	11-Jul-2018	HK1837896-091	4.5	---	---	---	---	---
C3/R2/ S Duplicate	11-Jul-2018	HK1837896-092	5.3	---	---	---	---	---
C3/R2/ M	11-Jul-2018	HK1837896-093	9.5	---	---	---	---	---
C3/R2/ M Duplicate	11-Jul-2018	HK1837896-094	8.9	---	---	---	---	---
C3/R2/ B	11-Jul-2018	HK1837896-095	8.7	---	---	---	---	---
C3/R2/ B Duplicate	11-Jul-2018	HK1837896-096	8.8	---	---	---	---	---
E1/R3/ S	11-Jul-2018	HK1837896-097	5.9	---	---	---	---	---

Sub-Matrix: MARINE WATER			Compound LOR Unit	EA025: Suspended Solids (SS)	---	---	---	---
Client sample ID	Client sampling date / time	Laboratory sample ID		0.5 mg/L	---	---	---	---
E1/R3/ S Duplicate	11-Jul-2018	HK1837896-098	4.3	---	---	---	---	---
E1/R3/ M	11-Jul-2018	HK1837896-099	4.7	---	---	---	---	---
E1/R3/ M Duplicate	11-Jul-2018	HK1837896-100	4.7	---	---	---	---	---
E1/R3/ B	11-Jul-2018	HK1837896-101	5.0	---	---	---	---	---
E1/R3/ B Duplicate	11-Jul-2018	HK1837896-102	6.2	---	---	---	---	---
G1/R3/ S	11-Jul-2018	HK1837896-103	4.5	---	---	---	---	---
G1/R3/ S Duplicate	11-Jul-2018	HK1837896-104	3.5	---	---	---	---	---
G1/R3/ M	11-Jul-2018	HK1837896-105	3.5	---	---	---	---	---
G1/R3/ M Duplicate	11-Jul-2018	HK1837896-106	3.9	---	---	---	---	---
G1/R3/ B	11-Jul-2018	HK1837896-107	4.6	---	---	---	---	---
G1/R3/ B Duplicate	11-Jul-2018	HK1837896-108	6.0	---	---	---	---	---
I3/R3/ S	11-Jul-2018	HK1837896-109	3.6	---	---	---	---	---
I3/R3/ S Duplicate	11-Jul-2018	HK1837896-110	4.3	---	---	---	---	---
I3/R3/ M	11-Jul-2018	HK1837896-111	4.3	---	---	---	---	---
I3/R3/ M Duplicate	11-Jul-2018	HK1837896-112	3.3	---	---	---	---	---
I3/R3/ B	11-Jul-2018	HK1837896-113	6.5	---	---	---	---	---
I3/R3/ B Duplicate	11-Jul-2018	HK1837896-114	5.9	---	---	---	---	---
I4/R3/ S	11-Jul-2018	HK1837896-115	2.4	---	---	---	---	---
I4/R3/ S Duplicate	11-Jul-2018	HK1837896-116	4.4	---	---	---	---	---
I4/R3/ M	11-Jul-2018	HK1837896-117	5.1	---	---	---	---	---
I4/R3/ M Duplicate	11-Jul-2018	HK1837896-118	4.6	---	---	---	---	---
I4/R3/ B	11-Jul-2018	HK1837896-119	3.5	---	---	---	---	---
I4/R3/ B Duplicate	11-Jul-2018	HK1837896-120	3.5	---	---	---	---	---
B1/R3/ S	11-Jul-2018	HK1837896-121	3.0	---	---	---	---	---
B1/R3/ S Duplicate	11-Jul-2018	HK1837896-122	2.0	---	---	---	---	---
B1/R3/ M	11-Jul-2018	HK1837896-123	3.9	---	---	---	---	---
B1/R3/ M Duplicate	11-Jul-2018	HK1837896-124	4.7	---	---	---	---	---
B1/R3/ B	11-Jul-2018	HK1837896-125	6.6	---	---	---	---	---
B1/R3/ B Duplicate	11-Jul-2018	HK1837896-126	5.8	---	---	---	---	---
F1/R3/ S	11-Jul-2018	HK1837896-127	5.6	---	---	---	---	---
F1/R3/ S Duplicate	11-Jul-2018	HK1837896-128	5.8	---	---	---	---	---
F1/R3/ M	11-Jul-2018	HK1837896-129	6.7	---	---	---	---	---
F1/R3/ M Duplicate	11-Jul-2018	HK1837896-130	6.9	---	---	---	---	---

Sub-Matrix: MARINE WATER			Compound LOR Unit	EA025: Suspended Solids (SS)	---	---	---	---
Client sample ID	Client sampling date / time	Laboratory sample ID		0.5 mg/L	---	---	---	---
F1/R3/ B	11-Jul-2018	HK1837896-131	5.1	---	---	---	---	---
F1/R3/ B Duplicate	11-Jul-2018	HK1837896-132	6.1	---	---	---	---	---
C2/R3/ S	11-Jul-2018	HK1837896-133	7.3	---	---	---	---	---
C2/R3/ S Duplicate	11-Jul-2018	HK1837896-134	7.5	---	---	---	---	---
C2/R3/ M	11-Jul-2018	HK1837896-135	6.6	---	---	---	---	---
C2/R3/ M Duplicate	11-Jul-2018	HK1837896-136	7.7	---	---	---	---	---
C2/R3/ B	11-Jul-2018	HK1837896-137	8.6	---	---	---	---	---
C2/R3/ B Duplicate	11-Jul-2018	HK1837896-138	8.6	---	---	---	---	---
C3/R3/ S	11-Jul-2018	HK1837896-139	7.2	---	---	---	---	---
C3/R3/ S Duplicate	11-Jul-2018	HK1837896-140	7.8	---	---	---	---	---
C3/R3/ M	11-Jul-2018	HK1837896-141	10.2	---	---	---	---	---
C3/R3/ M Duplicate	11-Jul-2018	HK1837896-142	10.1	---	---	---	---	---
C3/R3/ B	11-Jul-2018	HK1837896-143	10.6	---	---	---	---	---
C3/R3/ B Duplicate	11-Jul-2018	HK1837896-144	11.8	---	---	---	---	---
E1/R4/ S	11-Jul-2018	HK1837896-145	6.7	---	---	---	---	---
E1/R4/ S Duplicate	11-Jul-2018	HK1837896-146	7.2	---	---	---	---	---
E1/R4/ M	11-Jul-2018	HK1837896-147	7.0	---	---	---	---	---
E1/R4/ M Duplicate	11-Jul-2018	HK1837896-148	7.0	---	---	---	---	---
E1/R4/ B	11-Jul-2018	HK1837896-149	6.2	---	---	---	---	---
E1/R4/ B Duplicate	11-Jul-2018	HK1837896-150	8.0	---	---	---	---	---
G1/R4/ S	11-Jul-2018	HK1837896-151	4.6	---	---	---	---	---
G1/R4/ S Duplicate	11-Jul-2018	HK1837896-152	4.0	---	---	---	---	---
G1/R4/ M	11-Jul-2018	HK1837896-153	3.9	---	---	---	---	---
G1/R4/ M Duplicate	11-Jul-2018	HK1837896-154	4.5	---	---	---	---	---
G1/R4/ B	11-Jul-2018	HK1837896-155	3.0	---	---	---	---	---
G1/R4/ B Duplicate	11-Jul-2018	HK1837896-156	4.0	---	---	---	---	---
I3/R4/ S	11-Jul-2018	HK1837896-157	4.4	---	---	---	---	---
I3/R4/ S Duplicate	11-Jul-2018	HK1837896-158	4.1	---	---	---	---	---
I3/R4/ M	11-Jul-2018	HK1837896-159	3.3	---	---	---	---	---
I3/R4/ M Duplicate	11-Jul-2018	HK1837896-160	3.4	---	---	---	---	---
I3/R4/ B	11-Jul-2018	HK1837896-161	5.6	---	---	---	---	---
I3/R4/ B Duplicate	11-Jul-2018	HK1837896-162	7.0	---	---	---	---	---
I4/R4/ S	11-Jul-2018	HK1837896-163	3.9	---	---	---	---	---

Sub-Matrix: MARINE WATER			Compound LOR Unit	EA025: Suspended Solids (SS)	---	---	---	---
Client sample ID	Client sampling date / time	Laboratory sample ID		0.5 mg/L	---	---	---	---
I4/R4/ S Duplicate	11-Jul-2018	HK1837896-164	3.9	---	---	---	---	---
I4/R4/ M	11-Jul-2018	HK1837896-165	4.0	---	---	---	---	---
I4/R4/ M Duplicate	11-Jul-2018	HK1837896-166	4.4	---	---	---	---	---
I4/R4/ B	11-Jul-2018	HK1837896-167	4.6	---	---	---	---	---
I4/R4/ B Duplicate	11-Jul-2018	HK1837896-168	5.2	---	---	---	---	---
B1/R4/ S	11-Jul-2018	HK1837896-169	3.1	---	---	---	---	---
B1/R4/ S Duplicate	11-Jul-2018	HK1837896-170	3.6	---	---	---	---	---
B1/R4/ M	11-Jul-2018	HK1837896-171	4.4	---	---	---	---	---
B1/R4/ M Duplicate	11-Jul-2018	HK1837896-172	5.7	---	---	---	---	---
B1/R4/ B	11-Jul-2018	HK1837896-173	5.4	---	---	---	---	---
B1/R4/ B Duplicate	11-Jul-2018	HK1837896-174	6.3	---	---	---	---	---
F1/R4/ S	11-Jul-2018	HK1837896-175	5.6	---	---	---	---	---
F1/R4/ S Duplicate	11-Jul-2018	HK1837896-176	5.1	---	---	---	---	---
F1/R4/ M	11-Jul-2018	HK1837896-177	5.7	---	---	---	---	---
F1/R4/ M Duplicate	11-Jul-2018	HK1837896-178	7.0	---	---	---	---	---
F1/R4/ B	11-Jul-2018	HK1837896-179	5.6	---	---	---	---	---
F1/R4/ B Duplicate	11-Jul-2018	HK1837896-180	6.6	---	---	---	---	---
C2/R4/ S	11-Jul-2018	HK1837896-181	6.9	---	---	---	---	---
C2/R4/ S Duplicate	11-Jul-2018	HK1837896-182	6.4	---	---	---	---	---
C2/R4/ M	11-Jul-2018	HK1837896-183	7.1	---	---	---	---	---
C2/R4/ M Duplicate	11-Jul-2018	HK1837896-184	5.5	---	---	---	---	---
C2/R4/ B	11-Jul-2018	HK1837896-185	7.1	---	---	---	---	---
C2/R4/ B Duplicate	11-Jul-2018	HK1837896-186	7.9	---	---	---	---	---
C3/R4/ S	11-Jul-2018	HK1837896-187	7.1	---	---	---	---	---
C3/R4/ S Duplicate	11-Jul-2018	HK1837896-188	7.8	---	---	---	---	---
C3/R4/ M	11-Jul-2018	HK1837896-189	6.6	---	---	---	---	---
C3/R4/ M Duplicate	11-Jul-2018	HK1837896-190	6.7	---	---	---	---	---
C3/R4/ B	11-Jul-2018	HK1837896-191	7.3	---	---	---	---	---
C3/R4/ B Duplicate	11-Jul-2018	HK1837896-192	8.3	---	---	---	---	---

Laboratory Duplicate (DUP) Report

Matrix: WATER

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and Aggregate Properties (QC Lot: 1796522)								
HK1837896-001	E1/R1/ S	EA025: Suspended Solids (SS)	---	0.5	mg/L	3.6	3.7	0.00
HK1837896-011	G1/R1/ B	EA025: Suspended Solids (SS)	---	0.5	mg/L	3.5	3.4	3.64
EA/ED: Physical and Aggregate Properties (QC Lot: 1796523)								
HK1837896-021	I4/R1/ M	EA025: Suspended Solids (SS)	---	0.5	mg/L	2.9	2.7	6.28
HK1837896-031	F1/R1/ S	EA025: Suspended Solids (SS)	---	0.5	mg/L	2.7	3.1	13.0
EA/ED: Physical and Aggregate Properties (QC Lot: 1796524)								
HK1837896-041	C2/R1/ B	EA025: Suspended Solids (SS)	---	0.5	mg/L	4.4	5.2	15.6
HK1837896-051	E1/R2/ M	EA025: Suspended Solids (SS)	---	0.5	mg/L	4.7	4.3	8.89
EA/ED: Physical and Aggregate Properties (QC Lot: 1796525)								
HK1837896-061	I3/R2/ S	EA025: Suspended Solids (SS)	---	0.5	mg/L	3.9	3.4	13.6
HK1837896-071	I4/R2/ B	EA025: Suspended Solids (SS)	---	0.5	mg/L	6.5	6.4	1.95
EA/ED: Physical and Aggregate Properties (QC Lot: 1796526)								
HK1837896-081	F1/R2/ M	EA025: Suspended Solids (SS)	---	0.5	mg/L	4.8	5.0	3.54
HK1837896-091	C3/R2/ S	EA025: Suspended Solids (SS)	---	0.5	mg/L	4.5	4.4	0.00
EA/ED: Physical and Aggregate Properties (QC Lot: 1796527)								
HK1837896-101	E1/R3/ B	EA025: Suspended Solids (SS)	---	0.5	mg/L	5.0	5.2	5.88
HK1837896-111	I3/R3/ M	EA025: Suspended Solids (SS)	---	0.5	mg/L	4.3	4.5	4.54
EA/ED: Physical and Aggregate Properties (QC Lot: 1796528)								
HK1837896-121	B1/R3/ S	EA025: Suspended Solids (SS)	---	0.5	mg/L	3.0	2.6	16.9
HK1837896-131	F1/R3/ B	EA025: Suspended Solids (SS)	---	0.5	mg/L	5.1	6.0	15.4
EA/ED: Physical and Aggregate Properties (QC Lot: 1796529)								
HK1837896-141	C3/R3/ M	EA025: Suspended Solids (SS)	---	0.5	mg/L	10.2	10.5	3.14
HK1837896-151	G1/R4/ S	EA025: Suspended Solids (SS)	---	0.5	mg/L	4.6	4.1	10.3
EA/ED: Physical and Aggregate Properties (QC Lot: 1796530)								
HK1837896-161	I3/R4/ B	EA025: Suspended Solids (SS)	---	0.5	mg/L	5.6	5.6	0.00
HK1837896-171	B1/R4/ M	EA025: Suspended Solids (SS)	---	0.5	mg/L	4.4	3.9	11.5
EA/ED: Physical and Aggregate Properties (QC Lot: 1796531)								
HK1837896-181	C2/R4/ S	EA025: Suspended Solids (SS)	---	0.5	mg/L	6.9	6.8	0.00
HK1837896-191	C3/R4/ B	EA025: Suspended Solids (SS)	---	0.5	mg/L	7.3	7.4	0.00

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: WATER

Method: Compound	CAS Number	LOR	Unit	Result	Spike	Spike Recovery (%)		Recovery Limits (%)		RPDs (%)	
					Concentration	LCS	DCS	Low	High	Value	Control Limit

Matrix: WATER	Method Blank (MB) Report				Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report													
	Method: Compound	CAS Number	LOR	Unit	Result	Spike	Spike Recovery (%)		Recovery Limits (%)		RPDs (%)							
							Concentration	LCS	DCS	Low	High	Value	Control Limit					
EA/ED: Physical and Aggregate Properties (QCLot: 1796522)																		
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20 mg/L	112	---	85	115	---	---	---						
EA/ED: Physical and Aggregate Properties (QC Lot: 1796523)																		
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20 mg/L	93.5	---	85	115	---	---	---						
EA/ED: Physical and Aggregate Properties (QC Lot: 1796524)																		
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20 mg/L	112	---	85	115	---	---	---						
EA/ED: Physical and Aggregate Properties (QC Lot: 1796525)																		
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20 mg/L	97.0	---	85	115	---	---	---						
EA/ED: Physical and Aggregate Properties (QC Lot: 1796526)																		
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20 mg/L	108	---	85	115	---	---	---						
EA/ED: Physical and Aggregate Properties (QC Lot: 1796527)																		
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20 mg/L	112	---	85	115	---	---	---						
EA/ED: Physical and Aggregate Properties (QC Lot: 1796528)																		
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20 mg/L	104	---	85	115	---	---	---						
EA/ED: Physical and Aggregate Properties (QC Lot: 1796529)																		
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20 mg/L	93.0	---	85	115	---	---	---						
EA/ED: Physical and Aggregate Properties (QC Lot: 1796530)																		
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20 mg/L	110	---	85	115	---	---	---						
EA/ED: Physical and Aggregate Properties (QC Lot: 1796531)																		
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20 mg/L	111	---	85	115	---	---	---						

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

- No Matrix Spike (MS) or Matrix Spike Duplicate (MSD) Results are required to be reported.

**CERTIFICATE OF ANALYSIS**

<i>Client</i>	: ENOVATIVE ENVIRONMENTAL SERVICE LTD	<i>Laboratory</i>	: ALS Technichem (HK) Pty Ltd	<i>Page</i>	: 1 of 6
<i>Contact</i>	: MR THOMAS WONG	<i>Contact</i>	: Richard Fung	<i>Work Order</i>	: HK1838771
<i>Address</i>	: FLAT 2207, YU FUN HSE, YU CHUI COURT, SHATIN, N.T. HONG KONG	<i>Address</i>	: 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
<i>E-mail</i>	: Thomas.Wong@eno.com.hk	<i>E-mail</i>	: richard.fung@alsglobal.com		
<i>Telephone</i>	: ----	<i>Telephone</i>	: +852 2610 1044		
<i>Faxsimile</i>	: ----	<i>Faxsimile</i>	: +852 2610 2021		
<i>Project</i>	: PACIFIC LIGHT CABLE NETWORK (PLCN) - DEEP WATER BAY	<i>Quote number</i>	: HKE/1254/2018	<i>Date received</i>	: 11-Jul-2018
<i>Order number</i>	: —			<i>Date of issue</i>	: 16-Jul-2018
<i>C-O-C number</i>	: —			<i>No. of samples</i>	- Received : 66
<i>Site</i>	: —				- Analysed : 66

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This document has been signed by those names that appear on this report and are the authorised signatories.

<i>Signatory</i>	<i>Position</i>	<i>Authorised results for:</i>
Fung Lim Chee, Richard	General Manager	Inorganics

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK1838771 supersedes any previous reports with this reference. Testing period is from 11-Jul-2018 to 16-Jul-2018. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for process purposes. Abbreviations: CAS number = Chemical Abstract Services number. LOR = Limit of reporting.

Specific Comments for Work Order HK1838771 :

Sample(s) were received in chilled condition.

Water sample(s) analysed and reported on as received basis.

The accredited LOR of Total Suspended Solids is 0.5mg/L when 2 Litres sample was used. Due to insufficient sample, the results below 2mg/L and the decimal value of the results reported are for reference only.

Analytical Results

Sub-Matrix: MARINE WATER			Compound <i>LOR Unit</i>	EA025: Suspended Solids (SS)	---	---	---	---
Client sample ID	Client sampling date / time	Laboratory sample <i>ID</i>		0.5 mg/L	---	---	---	---
E2/R1/ S	11-Jul-2018	HK1838771-001	5.9	---	---	---	---	---
E2/R1/ S Duplicate	11-Jul-2018	HK1838771-002	6.0	---	---	---	---	---
E2/R1/ M	11-Jul-2018	HK1838771-003	5.9	---	---	---	---	---
E2/R1/ M Duplicate	11-Jul-2018	HK1838771-004	4.8	---	---	---	---	---
E2/R1/ B	11-Jul-2018	HK1838771-005	6.0	---	---	---	---	---
E2/R1/ B Duplicate	11-Jul-2018	HK1838771-006	6.5	---	---	---	---	---
F2/R1/ S	11-Jul-2018	HK1838771-007	4.2	---	---	---	---	---
F2/R1/ S Duplicate	11-Jul-2018	HK1838771-008	5.3	---	---	---	---	---
F2/R1/ M	11-Jul-2018	HK1838771-009	4.5	---	---	---	---	---
F2/R1/ M Duplicate	11-Jul-2018	HK1838771-010	4.9	---	---	---	---	---
F2/R1/ B	11-Jul-2018	HK1838771-011	5.7	---	---	---	---	---
F2/R1/ B Duplicate	11-Jul-2018	HK1838771-012	5.9	---	---	---	---	---
C6/R1/ S	11-Jul-2018	HK1838771-013	5.2	---	---	---	---	---
C6/R1/ S Duplicate	11-Jul-2018	HK1838771-014	7.0	---	---	---	---	---
C6/R1/ M	11-Jul-2018	HK1838771-015	7.0	---	---	---	---	---
C6/R1/ M Duplicate	11-Jul-2018	HK1838771-016	6.8	---	---	---	---	---
C6/R1/ B	11-Jul-2018	HK1838771-017	9.2	---	---	---	---	---
C6/R1/ B Duplicate	11-Jul-2018	HK1838771-018	9.7	---	---	---	---	---
C7/R1/ S	11-Jul-2018	HK1838771-019	5.4	---	---	---	---	---
C7/R1/ S Duplicate	11-Jul-2018	HK1838771-020	6.4	---	---	---	---	---
C7/R1/ M	11-Jul-2018	HK1838771-021	5.8	---	---	---	---	---
C7/R1/ M Duplicate	11-Jul-2018	HK1838771-022	5.6	---	---	---	---	---
C7/R1/ B	11-Jul-2018	HK1838771-023	5.5	---	---	---	---	---
C7/R1/ B Duplicate	11-Jul-2018	HK1838771-024	5.9	---	---	---	---	---
C8/R1/ S	11-Jul-2018	HK1838771-025	6.0	---	---	---	---	---
C8/R1/ S Duplicate	11-Jul-2018	HK1838771-026	5.7	---	---	---	---	---
C8/R1/ M	11-Jul-2018	HK1838771-027	10.8	---	---	---	---	---
C8/R1/ M Duplicate	11-Jul-2018	HK1838771-028	9.8	---	---	---	---	---
C8/R1/ B	11-Jul-2018	HK1838771-029	10.1	---	---	---	---	---
C8/R1/ B Duplicate	11-Jul-2018	HK1838771-030	10.4	---	---	---	---	---
C9/R1/ S	11-Jul-2018	HK1838771-031	8.3	---	---	---	---	---

Sub-Matrix: MARINE WATER			Compound LOR Unit	EA025: Suspended Solids (SS)	---	---	---	---
				0.5 mg/L	---	---	---	---
Client sample ID	Client sampling date / time	Laboratory sample ID	EA/ED: Physical and Aggregate Properties	---	---	---	---	---
C9/R1/ S Duplicate	11-Jul-2018	HK1838771-032	7.3	---	---	---	---	---
C9/R1/ M	11-Jul-2018	HK1838771-033	5.8	---	---	---	---	---
C9/R1/ M Duplicate	11-Jul-2018	HK1838771-034	6.7	---	---	---	---	---
C9/R1/ B	11-Jul-2018	HK1838771-035	7.0	---	---	---	---	---
C9/R1/ B Duplicate	11-Jul-2018	HK1838771-036	8.5	---	---	---	---	---
C11/R1/ S	11-Jul-2018	HK1838771-037	8.9	---	---	---	---	---
C11/R1/ S Duplicate	11-Jul-2018	HK1838771-038	8.5	---	---	---	---	---
C11/R1/ M	11-Jul-2018	HK1838771-039	7.4	---	---	---	---	---
C11/R1/ M Duplicate	11-Jul-2018	HK1838771-040	9.0	---	---	---	---	---
C11/R1/ B	11-Jul-2018	HK1838771-041	8.4	---	---	---	---	---
C11/R1/ B Duplicate	11-Jul-2018	HK1838771-042	8.6	---	---	---	---	---
C13/R1/ S	11-Jul-2018	HK1838771-043	6.2	---	---	---	---	---
C13/R1/ S Duplicate	11-Jul-2018	HK1838771-044	7.3	---	---	---	---	---
C13/R1/ M	11-Jul-2018	HK1838771-045	7.1	---	---	---	---	---
C13/R1/ M Duplicate	11-Jul-2018	HK1838771-046	6.6	---	---	---	---	---
C13/R1/ B	11-Jul-2018	HK1838771-047	5.3	---	---	---	---	---
C13/R1/ B Duplicate	11-Jul-2018	HK1838771-048	7.1	---	---	---	---	---
G2/R1/ S	11-Jul-2018	HK1838771-049	7.9	---	---	---	---	---
G2/R1/ S Duplicate	11-Jul-2018	HK1838771-050	7.4	---	---	---	---	---
G2/R1/ M	11-Jul-2018	HK1838771-051	7.4	---	---	---	---	---
G2/R1/ M Duplicate	11-Jul-2018	HK1838771-052	7.5	---	---	---	---	---
G2/R1/ B	11-Jul-2018	HK1838771-053	7.4	---	---	---	---	---
G2/R1/ B Duplicate	11-Jul-2018	HK1838771-054	9.2	---	---	---	---	---
G3/R1/ S	11-Jul-2018	HK1838771-055	7.2	---	---	---	---	---
G3/R1/ S Duplicate	11-Jul-2018	HK1838771-056	6.7	---	---	---	---	---
G3/R1/ M	11-Jul-2018	HK1838771-057	6.6	---	---	---	---	---
G3/R1/ M Duplicate	11-Jul-2018	HK1838771-058	7.6	---	---	---	---	---
G3/R1/ B	11-Jul-2018	HK1838771-059	6.5	---	---	---	---	---
G3/R1/ B Duplicate	11-Jul-2018	HK1838771-060	7.3	---	---	---	---	---
M3/R1/ S	11-Jul-2018	HK1838771-061	8.0	---	---	---	---	---
M3/R1/ S Duplicate	11-Jul-2018	HK1838771-062	7.8	---	---	---	---	---
M3/R1/ M	11-Jul-2018	HK1838771-063	7.6	---	---	---	---	---
M3/R1/ M Duplicate	11-Jul-2018	HK1838771-064	8.4	---	---	---	---	---



Sub-Matrix: MARINE WATER			Compound <i>LOR Unit</i>	EA025: Suspended Solids (SS)	---	---	---	---
Client sample ID	Client sampling date / time	Laboratory sample ID		0.5 mg/L	---	---	---	---
M3/R1/ B	11-Jul-2018	HK1838771-065	8.8	---	---	---	---	---
M3/R1/ B Duplicate	11-Jul-2018	HK1838771-066	7.4	---	---	---	---	---

Laboratory Duplicate (DUP) Report

Matrix: WATER								
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and Aggregate Properties (QC Lot: 1796545)								
HK1838771-001	E2/R1/ S	EA025: Suspended Solids (SS)	---	0.5	mg/L	5.9	6.4	8.91
HK1838771-011	F2/R1/ B	EA025: Suspended Solids (SS)	---	0.5	mg/L	5.7	6.0	4.29
EA/ED: Physical and Aggregate Properties (QC Lot: 1796546)								
HK1838771-021	C7/R1/ M	EA025: Suspended Solids (SS)	---	0.5	mg/L	5.8	6.4	8.20
HK1838771-031	C9/R1/ S	EA025: Suspended Solids (SS)	---	0.5	mg/L	8.3	7.3	12.2
EA/ED: Physical and Aggregate Properties (QC Lot: 1796547)								
HK1838771-041	C11/R1/ B	EA025: Suspended Solids (SS)	---	0.5	mg/L	8.4	8.9	5.80
HK1838771-051	G2/R1/ M	EA025: Suspended Solids (SS)	---	0.5	mg/L	7.4	7.7	3.65
EA/ED: Physical and Aggregate Properties (QC Lot: 1796548)								
HK1838771-061	M3/R1/ S	EA025: Suspended Solids (SS)	---	0.5	mg/L	8.0	8.3	4.61

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: WATER			Method Blank (MB) Report		Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report											
Method: Compound	CAS Number	LOR	Unit	Result	Spike	Spike Recovery (%)		Recovery Limits (%)		RPDs (%)						
					Concentration	LCS	DCS	Low	High	Value	Control Limit					
EA/ED: Physical and Aggregate Properties (QC Lot: 1796545)																
EA025: Suspended Solids (SS)	---	0.5	mg/L	<0.5	20 mg/L	99.5	---	85	115	---	---					
EA/ED: Physical and Aggregate Properties (QC Lot: 1796546)																
EA025: Suspended Solids (SS)	---	0.5	mg/L	<0.5	20 mg/L	99.5	---	85	115	---	---					
EA/ED: Physical and Aggregate Properties (QC Lot: 1796547)																
EA025: Suspended Solids (SS)	---	0.5	mg/L	<0.5	20 mg/L	103	---	85	115	---	---					
EA/ED: Physical and Aggregate Properties (QC Lot: 1796548)																
EA025: Suspended Solids (SS)	---	0.5	mg/L	<0.5	20 mg/L	92.0	---	85	115	---	---					

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

- No Matrix Spike (MS) or Matrix Spike Duplicate (MSD) Results are required to be reported.

**CERTIFICATE OF ANALYSIS**

<i>Client</i>	: ENOVATIVE ENVIRONMENTAL SERVICE LTD	<i>Laboratory</i>	: ALS Technichem (HK) Pty Ltd	<i>Page</i>	: 1 of 11
<i>Contact</i>	: MR THOMAS WONG	<i>Contact</i>	: Richard Fung	<i>Work Order</i>	: HK1837900
<i>Address</i>	: FLAT 2207, YU FUN HSE, YU CHUI COURT, SHATIN, N.T. HONG KONG	<i>Address</i>	: 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
<i>E-mail</i>	: Thomas.Wong@eno.com.hk	<i>E-mail</i>	: richard.fung@alsglobal.com		
<i>Telephone</i>	: ----	<i>Telephone</i>	: +852 2610 1044		
<i>Faxsimile</i>	: ----	<i>Faxsimile</i>	: +852 2610 2021		
<i>Project</i>	: PACIFIC LIGHT CABLE NETWORK (PLCN) - DEEP WATER BAY	<i>Quote number</i>	: HKE/1254/2018	<i>Date received</i>	: 12-Jul-2018
<i>Order number</i>	: —			<i>Date of issue</i>	: 17-Jul-2018
<i>C-O-C number</i>	: —			<i>No. of samples</i>	- Received : 198
<i>Site</i>	: —				- Analysed : 198

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This document has been signed by those names that appear on this report and are the authorised signatories.

Signatory
Fung Lim Chee, Richard

Position
General Manager

Authorised results for:
Inorganics

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK1837900 supersedes any previous reports with this reference. Testing period is from 12-Jul-2018 to 17-Jul-2018. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for process purposes. Abbreviations: CAS number = Chemical Abstract Services number. LOR = Limit of reporting.

Specific Comments for Work Order HK1837900 :

Sample(s) were received in chilled condition.

Water sample(s) analysed and reported on as received basis.

The accredited LOR of Total Suspended Solids is 0.5mg/L when 2 Litres sample was used. Due to insufficient sample, the results below 2mg/L and the decimal value of the results reported are for reference only.

Analytical Results

Sub-Matrix: MARINE WATER			Compound LOR Unit	EA025: Suspended Solids (SS)	---	---	---	---
Client sample ID	Client sampling date / time	Laboratory sample ID		0.5 mg/L	---	---	---	---
E2/R1/ S	12-Jul-2018	HK1837900-001	4.6	---	---	---	---	---
E2/R1/ S Duplicate	12-Jul-2018	HK1837900-002	5.1	---	---	---	---	---
E2/R1/ M	12-Jul-2018	HK1837900-003	5.4	---	---	---	---	---
E2/R1/ M Duplicate	12-Jul-2018	HK1837900-004	4.1	---	---	---	---	---
E2/R1/ B	12-Jul-2018	HK1837900-005	4.5	---	---	---	---	---
E2/R1/ B Duplicate	12-Jul-2018	HK1837900-006	4.1	---	---	---	---	---
F2/R1/ S	12-Jul-2018	HK1837900-007	3.9	---	---	---	---	---
F2/R1/ S Duplicate	12-Jul-2018	HK1837900-008	5.2	---	---	---	---	---
F2/R1/ M	12-Jul-2018	HK1837900-009	5.4	---	---	---	---	---
F2/R1/ M Duplicate	12-Jul-2018	HK1837900-010	5.9	---	---	---	---	---
F2/R1/ B	12-Jul-2018	HK1837900-011	6.3	---	---	---	---	---
F2/R1/ B Duplicate	12-Jul-2018	HK1837900-012	8.2	---	---	---	---	---
C6/R1/ S	12-Jul-2018	HK1837900-013	5.5	---	---	---	---	---
C6/R1/ S Duplicate	12-Jul-2018	HK1837900-014	5.5	---	---	---	---	---
C6/R1/ M	12-Jul-2018	HK1837900-015	5.3	---	---	---	---	---
C6/R1/ M Duplicate	12-Jul-2018	HK1837900-016	4.6	---	---	---	---	---
C6/R1/ B	12-Jul-2018	HK1837900-017	6.8	---	---	---	---	---
C6/R1/ B Duplicate	12-Jul-2018	HK1837900-018	5.1	---	---	---	---	---
C7/R1/ S	12-Jul-2018	HK1837900-019	2.5	---	---	---	---	---
C7/R1/ S Duplicate	12-Jul-2018	HK1837900-020	2.1	---	---	---	---	---
C7/R1/ M	12-Jul-2018	HK1837900-021	3.0	---	---	---	---	---
C7/R1/ M Duplicate	12-Jul-2018	HK1837900-022	3.6	---	---	---	---	---
C7/R1/ B	12-Jul-2018	HK1837900-023	6.2	---	---	---	---	---
C7/R1/ B Duplicate	12-Jul-2018	HK1837900-024	5.1	---	---	---	---	---
C8/R1/ S	12-Jul-2018	HK1837900-025	7.5	---	---	---	---	---
C8/R1/ S Duplicate	12-Jul-2018	HK1837900-026	7.7	---	---	---	---	---
C8/R1/ M	12-Jul-2018	HK1837900-027	7.3	---	---	---	---	---
C8/R1/ M Duplicate	12-Jul-2018	HK1837900-028	8.3	---	---	---	---	---
C8/R1/ B	12-Jul-2018	HK1837900-029	8.2	---	---	---	---	---
C8/R1/ B Duplicate	12-Jul-2018	HK1837900-030	7.0	---	---	---	---	---
C9/R1/ S	12-Jul-2018	HK1837900-031	4.2	---	---	---	---	---

Sub-Matrix: MARINE WATER			Compound LOR Unit	EA025: Suspended Solids (SS)	---	---	---	---
				0.5 mg/L	---	---	---	---
Client sample ID	Client sampling date / time	Laboratory sample ID	EA/ED: Physical and Aggregate Properties	---	---	---	---	---
C9/R1/ S Duplicate	12-Jul-2018	HK1837900-032	3.9	---	---	---	---	---
C9/R1/ M	12-Jul-2018	HK1837900-033	3.5	---	---	---	---	---
C9/R1/ M Duplicate	12-Jul-2018	HK1837900-034	4.6	---	---	---	---	---
C9/R1/ B	12-Jul-2018	HK1837900-035	7.1	---	---	---	---	---
C9/R1/ B Duplicate	12-Jul-2018	HK1837900-036	4.9	---	---	---	---	---
C11/R1/ S	12-Jul-2018	HK1837900-037	5.6	---	---	---	---	---
C11/R1/ S Duplicate	12-Jul-2018	HK1837900-038	5.6	---	---	---	---	---
C11/R1/ M	12-Jul-2018	HK1837900-039	5.9	---	---	---	---	---
C11/R1/ M Duplicate	12-Jul-2018	HK1837900-040	4.7	---	---	---	---	---
C11/R1/ B	12-Jul-2018	HK1837900-041	4.3	---	---	---	---	---
C11/R1/ B Duplicate	12-Jul-2018	HK1837900-042	4.1	---	---	---	---	---
C13/R1/ S	12-Jul-2018	HK1837900-043	4.9	---	---	---	---	---
C13/R1/ S Duplicate	12-Jul-2018	HK1837900-044	4.5	---	---	---	---	---
C13/R1/ M	12-Jul-2018	HK1837900-045	4.5	---	---	---	---	---
C13/R1/ M Duplicate	12-Jul-2018	HK1837900-046	5.4	---	---	---	---	---
C13/R1/ B	12-Jul-2018	HK1837900-047	6.0	---	---	---	---	---
C13/R1/ B Duplicate	12-Jul-2018	HK1837900-048	5.0	---	---	---	---	---
G2/R1/ S	12-Jul-2018	HK1837900-049	4.6	---	---	---	---	---
G2/R1/ S Duplicate	12-Jul-2018	HK1837900-050	4.9	---	---	---	---	---
G2/R1/ M	12-Jul-2018	HK1837900-051	4.8	---	---	---	---	---
G2/R1/ M Duplicate	12-Jul-2018	HK1837900-052	5.0	---	---	---	---	---
G2/R1/ B	12-Jul-2018	HK1837900-053	6.1	---	---	---	---	---
G2/R1/ B Duplicate	12-Jul-2018	HK1837900-054	7.6	---	---	---	---	---
G3/R1/ S	12-Jul-2018	HK1837900-055	4.7	---	---	---	---	---
G3/R1/ S Duplicate	12-Jul-2018	HK1837900-056	4.4	---	---	---	---	---
G3/R1/ M	12-Jul-2018	HK1837900-057	5.1	---	---	---	---	---
G3/R1/ M Duplicate	12-Jul-2018	HK1837900-058	4.7	---	---	---	---	---
G3/R1/ B	12-Jul-2018	HK1837900-059	6.5	---	---	---	---	---
G3/R1/ B Duplicate	12-Jul-2018	HK1837900-060	4.8	---	---	---	---	---
M3/R1/ S	12-Jul-2018	HK1837900-061	5.4	---	---	---	---	---
M3/R1/ S Duplicate	12-Jul-2018	HK1837900-062	5.7	---	---	---	---	---
M3/R1/ M	12-Jul-2018	HK1837900-063	6.0	---	---	---	---	---
M3/R1/ M Duplicate	12-Jul-2018	HK1837900-064	5.1	---	---	---	---	---

Sub-Matrix: MARINE WATER			Compound LOR Unit	EA025: Suspended Solids (SS)	---	---	---	---
Client sample ID	Client sampling date / time	Laboratory sample ID		0.5 mg/L	---	---	---	---
M3/R1/ B	12-Jul-2018	HK1837900-065	6.9	---	---	---	---	---
M3/R1/ B Duplicate	12-Jul-2018	HK1837900-066	7.6	---	---	---	---	---
E2/R2/ S	12-Jul-2018	HK1837900-067	7.1	---	---	---	---	---
E2/R2/ S Duplicate	12-Jul-2018	HK1837900-068	5.8	---	---	---	---	---
E2/R2/ M	12-Jul-2018	HK1837900-069	6.7	---	---	---	---	---
E2/R2/ M Duplicate	12-Jul-2018	HK1837900-070	6.3	---	---	---	---	---
E2/R2/ B	12-Jul-2018	HK1837900-071	7.0	---	---	---	---	---
E2/R2/ B Duplicate	12-Jul-2018	HK1837900-072	5.1	---	---	---	---	---
F2/R2/ S	12-Jul-2018	HK1837900-073	5.8	---	---	---	---	---
F2/R2/ S Duplicate	12-Jul-2018	HK1837900-074	4.5	---	---	---	---	---
F2/R2/ M	12-Jul-2018	HK1837900-075	4.8	---	---	---	---	---
F2/R2/ M Duplicate	12-Jul-2018	HK1837900-076	4.4	---	---	---	---	---
F2/R2/ B	12-Jul-2018	HK1837900-077	7.3	---	---	---	---	---
F2/R2/ B Duplicate	12-Jul-2018	HK1837900-078	4.8	---	---	---	---	---
C6/R2/ S	12-Jul-2018	HK1837900-079	5.3	---	---	---	---	---
C6/R2/ S Duplicate	12-Jul-2018	HK1837900-080	4.6	---	---	---	---	---
C6/R2/ M	12-Jul-2018	HK1837900-081	6.2	---	---	---	---	---
C6/R2/ M Duplicate	12-Jul-2018	HK1837900-082	7.3	---	---	---	---	---
C6/R2/ B	12-Jul-2018	HK1837900-083	7.0	---	---	---	---	---
C6/R2/ B Duplicate	12-Jul-2018	HK1837900-084	6.3	---	---	---	---	---
C7/R2/ S	12-Jul-2018	HK1837900-085	2.3	---	---	---	---	---
C7/R2/ S Duplicate	12-Jul-2018	HK1837900-086	4.3	---	---	---	---	---
C7/R2/ M	12-Jul-2018	HK1837900-087	3.0	---	---	---	---	---
C7/R2/ M Duplicate	12-Jul-2018	HK1837900-088	2.3	---	---	---	---	---
C7/R2/ B	12-Jul-2018	HK1837900-089	3.3	---	---	---	---	---
C7/R2/ B Duplicate	12-Jul-2018	HK1837900-090	3.2	---	---	---	---	---
C8/R2/ S	12-Jul-2018	HK1837900-091	4.1	---	---	---	---	---
C8/R2/ S Duplicate	12-Jul-2018	HK1837900-092	4.9	---	---	---	---	---
C8/R2/ M	12-Jul-2018	HK1837900-093	5.8	---	---	---	---	---
C8/R2/ M Duplicate	12-Jul-2018	HK1837900-094	4.9	---	---	---	---	---
C8/R2/ B	12-Jul-2018	HK1837900-095	7.4	---	---	---	---	---
C8/R2/ B Duplicate	12-Jul-2018	HK1837900-096	6.6	---	---	---	---	---
C9/R2/ S	12-Jul-2018	HK1837900-097	4.5	---	---	---	---	---

Sub-Matrix: MARINE WATER			Compound LOR Unit	EA025: Suspended Solids (SS)	---	---	---	---
				0.5 mg/L	---	---	---	---
Client sample ID	Client sampling date / time	Laboratory sample ID	EA/ED: Physical and Aggregate Properties	---	---	---	---	---
C9/R2/ S Duplicate	12-Jul-2018	HK1837900-098	4.3	---	---	---	---	---
C9/R2/ M	12-Jul-2018	HK1837900-099	5.0	---	---	---	---	---
C9/R2/ M Duplicate	12-Jul-2018	HK1837900-100	3.5	---	---	---	---	---
C9/R2/ B	12-Jul-2018	HK1837900-101	4.6	---	---	---	---	---
C9/R2/ B Duplicate	12-Jul-2018	HK1837900-102	3.0	---	---	---	---	---
C11/R2/ S	12-Jul-2018	HK1837900-103	4.3	---	---	---	---	---
C11/R2/ S Duplicate	12-Jul-2018	HK1837900-104	3.9	---	---	---	---	---
C11/R2/ M	12-Jul-2018	HK1837900-105	2.6	---	---	---	---	---
C11/R2/ M Duplicate	12-Jul-2018	HK1837900-106	3.3	---	---	---	---	---
C11/R2/ B	12-Jul-2018	HK1837900-107	4.6	---	---	---	---	---
C11/R2/ B Duplicate	12-Jul-2018	HK1837900-108	6.3	---	---	---	---	---
C13/R2/ S	12-Jul-2018	HK1837900-109	3.7	---	---	---	---	---
C13/R2/ S Duplicate	12-Jul-2018	HK1837900-110	2.8	---	---	---	---	---
C13/R2/ M	12-Jul-2018	HK1837900-111	3.9	---	---	---	---	---
C13/R2/ M Duplicate	12-Jul-2018	HK1837900-112	6.1	---	---	---	---	---
C13/R2/ B	12-Jul-2018	HK1837900-113	7.1	---	---	---	---	---
C13/R2/ B Duplicate	12-Jul-2018	HK1837900-114	6.3	---	---	---	---	---
G2/R2/ S	12-Jul-2018	HK1837900-115	6.8	---	---	---	---	---
G2/R2/ S Duplicate	12-Jul-2018	HK1837900-116	6.2	---	---	---	---	---
G2/R2/ M	12-Jul-2018	HK1837900-117	5.6	---	---	---	---	---
G2/R2/ M Duplicate	12-Jul-2018	HK1837900-118	5.2	---	---	---	---	---
G2/R2/ B	12-Jul-2018	HK1837900-119	6.8	---	---	---	---	---
G2/R2/ B Duplicate	12-Jul-2018	HK1837900-120	5.5	---	---	---	---	---
G3/R2/ S	12-Jul-2018	HK1837900-121	3.2	---	---	---	---	---
G3/R2/ S Duplicate	12-Jul-2018	HK1837900-122	3.2	---	---	---	---	---
G3/R2/ M	12-Jul-2018	HK1837900-123	2.7	---	---	---	---	---
G3/R2/ M Duplicate	12-Jul-2018	HK1837900-124	2.5	---	---	---	---	---
G3/R2/ B	12-Jul-2018	HK1837900-125	3.2	---	---	---	---	---
G3/R2/ B Duplicate	12-Jul-2018	HK1837900-126	3.8	---	---	---	---	---
M3/R2/ S	12-Jul-2018	HK1837900-127	7.0	---	---	---	---	---
M3/R2/ S Duplicate	12-Jul-2018	HK1837900-128	5.4	---	---	---	---	---
M3/R2/ M	12-Jul-2018	HK1837900-129	8.0	---	---	---	---	---
M3/R2/ M Duplicate	12-Jul-2018	HK1837900-130	6.6	---	---	---	---	---

Sub-Matrix: MARINE WATER			Compound LOR Unit	EA025: Suspended Solids (SS)	---	---	---	---
Client sample ID	Client sampling date / time	Laboratory sample ID		0.5 mg/L	---	---	---	---
M3/R2/ B	12-Jul-2018	HK1837900-131	6.4	---	---	---	---	---
M3/R2/ B Duplicate	12-Jul-2018	HK1837900-132	6.0	---	---	---	---	---
E2/R3/ S	12-Jul-2018	HK1837900-133	4.7	---	---	---	---	---
E2/R3/ S Duplicate	12-Jul-2018	HK1837900-134	4.5	---	---	---	---	---
E2/R3/ M	12-Jul-2018	HK1837900-135	4.4	---	---	---	---	---
E2/R3/ M Duplicate	12-Jul-2018	HK1837900-136	3.3	---	---	---	---	---
E2/R3/ B	12-Jul-2018	HK1837900-137	4.9	---	---	---	---	---
E2/R3/ B Duplicate	12-Jul-2018	HK1837900-138	6.5	---	---	---	---	---
F2/R3/ S	12-Jul-2018	HK1837900-139	4.2	---	---	---	---	---
F2/R3/ S Duplicate	12-Jul-2018	HK1837900-140	4.4	---	---	---	---	---
F2/R3/ M	12-Jul-2018	HK1837900-141	3.6	---	---	---	---	---
F2/R3/ M Duplicate	12-Jul-2018	HK1837900-142	4.2	---	---	---	---	---
F2/R3/ B	12-Jul-2018	HK1837900-143	3.7	---	---	---	---	---
F2/R3/ B Duplicate	12-Jul-2018	HK1837900-144	3.1	---	---	---	---	---
C6/R3/ S	12-Jul-2018	HK1837900-145	4.6	---	---	---	---	---
C6/R3/ S Duplicate	12-Jul-2018	HK1837900-146	4.1	---	---	---	---	---
C6/R3/ M	12-Jul-2018	HK1837900-147	6.4	---	---	---	---	---
C6/R3/ M Duplicate	12-Jul-2018	HK1837900-148	6.2	---	---	---	---	---
C6/R3/ B	12-Jul-2018	HK1837900-149	6.7	---	---	---	---	---
C6/R3/ B Duplicate	12-Jul-2018	HK1837900-150	5.2	---	---	---	---	---
C7/R3/ S	12-Jul-2018	HK1837900-151	4.6	---	---	---	---	---
C7/R3/ S Duplicate	12-Jul-2018	HK1837900-152	3.3	---	---	---	---	---
C7/R3/ M	12-Jul-2018	HK1837900-153	3.0	---	---	---	---	---
C7/R3/ M Duplicate	12-Jul-2018	HK1837900-154	4.7	---	---	---	---	---
C7/R3/ B	12-Jul-2018	HK1837900-155	5.4	---	---	---	---	---
C7/R3/ B Duplicate	12-Jul-2018	HK1837900-156	4.4	---	---	---	---	---
C8/R3/ S	12-Jul-2018	HK1837900-157	3.0	---	---	---	---	---
C8/R3/ S Duplicate	12-Jul-2018	HK1837900-158	2.0	---	---	---	---	---
C8/R3/ M	12-Jul-2018	HK1837900-159	2.7	---	---	---	---	---
C8/R3/ M Duplicate	12-Jul-2018	HK1837900-160	3.4	---	---	---	---	---
C8/R3/ B	12-Jul-2018	HK1837900-161	2.8	---	---	---	---	---
C8/R3/ B Duplicate	12-Jul-2018	HK1837900-162	2.8	---	---	---	---	---
C9/R3/ S	12-Jul-2018	HK1837900-163	3.5	---	---	---	---	---

Sub-Matrix: MARINE WATER			Compound LOR Unit	EA025: Suspended Solids (SS)	---	---	---	---
				0.5 mg/L	---	---	---	---
Client sample ID	Client sampling date / time	Laboratory sample ID	EA/ED: Physical and Aggregate Properties	---	---	---	---	---
C9/R3/ S Duplicate	12-Jul-2018	HK1837900-164	3.2	---	---	---	---	---
C9/R3/ M	12-Jul-2018	HK1837900-165	2.4	---	---	---	---	---
C9/R3/ M Duplicate	12-Jul-2018	HK1837900-166	3.0	---	---	---	---	---
C9/R3/ B	12-Jul-2018	HK1837900-167	7.9	---	---	---	---	---
C9/R3/ B Duplicate	12-Jul-2018	HK1837900-168	7.9	---	---	---	---	---
C11/R3/ S	12-Jul-2018	HK1837900-169	3.1	---	---	---	---	---
C11/R3/ S Duplicate	12-Jul-2018	HK1837900-170	4.2	---	---	---	---	---
C11/R3/ M	12-Jul-2018	HK1837900-171	4.7	---	---	---	---	---
C11/R3/ M Duplicate	12-Jul-2018	HK1837900-172	4.7	---	---	---	---	---
C11/R3/ B	12-Jul-2018	HK1837900-173	11.2	---	---	---	---	---
C11/R3/ B Duplicate	12-Jul-2018	HK1837900-174	9.2	---	---	---	---	---
C13/R3/ S	12-Jul-2018	HK1837900-175	6.4	---	---	---	---	---
C13/R3/ S Duplicate	12-Jul-2018	HK1837900-176	8.1	---	---	---	---	---
C13/R3/ M	12-Jul-2018	HK1837900-177	6.7	---	---	---	---	---
C13/R3/ M Duplicate	12-Jul-2018	HK1837900-178	6.7	---	---	---	---	---
C13/R3/ B	12-Jul-2018	HK1837900-179	8.2	---	---	---	---	---
C13/R3/ B Duplicate	12-Jul-2018	HK1837900-180	6.8	---	---	---	---	---
G2/R3/ S	12-Jul-2018	HK1837900-181	5.2	---	---	---	---	---
G2/R3/ S Duplicate	12-Jul-2018	HK1837900-182	5.9	---	---	---	---	---
G2/R3/ M	12-Jul-2018	HK1837900-183	7.8	---	---	---	---	---
G2/R3/ M Duplicate	12-Jul-2018	HK1837900-184	8.7	---	---	---	---	---
G2/R3/ B	12-Jul-2018	HK1837900-185	11.6	---	---	---	---	---
G2/R3/ B Duplicate	12-Jul-2018	HK1837900-186	11.6	---	---	---	---	---
G3/R3/ S	12-Jul-2018	HK1837900-187	4.6	---	---	---	---	---
G3/R3/ S Duplicate	12-Jul-2018	HK1837900-188	3.9	---	---	---	---	---
G3/R3/ M	12-Jul-2018	HK1837900-189	3.2	---	---	---	---	---
G3/R3/ M Duplicate	12-Jul-2018	HK1837900-190	4.2	---	---	---	---	---
G3/R3/ B	12-Jul-2018	HK1837900-191	4.2	---	---	---	---	---
G3/R3/ B Duplicate	12-Jul-2018	HK1837900-192	4.0	---	---	---	---	---
M3/R3/ S	12-Jul-2018	HK1837900-193	4.5	---	---	---	---	---
M3/R3/ S Duplicate	12-Jul-2018	HK1837900-194	4.7	---	---	---	---	---
M3/R3/ M	12-Jul-2018	HK1837900-195	4.8	---	---	---	---	---
M3/R3/ M Duplicate	12-Jul-2018	HK1837900-196	4.5	---	---	---	---	---



Sub-Matrix: MARINE WATER			Compound <i>LOR Unit</i>	EA025: Suspended Solids (SS)	---	---	---	---
Client sample ID	Client sampling date / time	Laboratory sample ID		0.5 mg/L	---	---	---	---
M3/R3/ B	12-Jul-2018	HK1837900-197	6.3	---	---	---	---	---
M3/R3/ B Duplicate	12-Jul-2018	HK1837900-198	5.5	---	---	---	---	---

Laboratory Duplicate (DUP) Report

Matrix: WATER

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and Aggregate Properties (QC Lot: 1799498)								
HK1837900-001	E2/R1/ S	EA025: Suspended Solids (SS)	---	0.5	mg/L	4.6	4.5	2.75
HK1837900-011	F2/R1/ B	EA025: Suspended Solids (SS)	---	0.5	mg/L	6.3	7.1	11.9
EA/ED: Physical and Aggregate Properties (QC Lot: 1799499)								
HK1837900-021	C7/R1/ M	EA025: Suspended Solids (SS)	---	0.5	mg/L	3.0	3.3	8.70
HK1837900-031	C9/R1/ S	EA025: Suspended Solids (SS)	---	0.5	mg/L	4.2	3.6	17.2
EA/ED: Physical and Aggregate Properties (QC Lot: 1799500)								
HK1837900-041	C11/R1/ B	EA025: Suspended Solids (SS)	---	0.5	mg/L	4.3	4.3	0.00
HK1837900-051	G2/R1/ M	EA025: Suspended Solids (SS)	---	0.5	mg/L	4.8	4.6	5.29
EA/ED: Physical and Aggregate Properties (QC Lot: 1799501)								
HK1837900-061	M3/R1/ S	EA025: Suspended Solids (SS)	---	0.5	mg/L	5.4	5.0	7.77
HK1837900-071	E2/R2/ B	EA025: Suspended Solids (SS)	---	0.5	mg/L	7.0	6.9	1.80
EA/ED: Physical and Aggregate Properties (QC Lot: 1799502)								
HK1837900-081	C6/R2/ M	EA025: Suspended Solids (SS)	---	0.5	mg/L	6.2	6.0	3.28
HK1837900-091	C8/R2/ S	EA025: Suspended Solids (SS)	---	0.5	mg/L	4.1	3.6	12.9
EA/ED: Physical and Aggregate Properties (QC Lot: 1799503)								
HK1837900-101	C9/R2/ B	EA025: Suspended Solids (SS)	---	0.5	mg/L	4.6	4.0	13.3
HK1837900-111	C13/R2/ M	EA025: Suspended Solids (SS)	---	0.5	mg/L	3.9	4.4	13.2
EA/ED: Physical and Aggregate Properties (QC Lot: 1799504)								
HK1837900-121	G3/R2/ S	EA025: Suspended Solids (SS)	---	0.5	mg/L	3.2	3.4	6.11
HK1837900-131	M3/R2/ B	EA025: Suspended Solids (SS)	---	0.5	mg/L	6.4	7.2	12.2
EA/ED: Physical and Aggregate Properties (QC Lot: 1799505)								
HK1837900-141	F2/R3/ M	EA025: Suspended Solids (SS)	---	0.5	mg/L	3.6	3.3	10.1
HK1837900-151	C7/R3/ S	EA025: Suspended Solids (SS)	---	0.5	mg/L	4.6	4.0	15.7
EA/ED: Physical and Aggregate Properties (QC Lot: 1799506)								
HK1837900-161	C8/R3/ B	EA025: Suspended Solids (SS)	---	0.5	mg/L	2.8	2.9	3.54
HK1837900-171	C11/R3/ M	EA025: Suspended Solids (SS)	---	0.5	mg/L	4.7	4.0	15.4
EA/ED: Physical and Aggregate Properties (QC Lot: 1799507)								
HK1837900-181	G2/R3/ S	EA025: Suspended Solids (SS)	---	0.5	mg/L	5.2	6.1	15.0
HK1837900-191	G3/R3/ B	EA025: Suspended Solids (SS)	---	0.5	mg/L	4.2	4.6	9.58

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: WATER

Method: Compound	CAS Number	LOR	Unit	Result	Spike	Spike Recovery (%)		Recovery Limits (%)		RPDs (%)	
					Concentration	LCS	DCS	Low	High	Value	Control Limit

Matrix: WATER	Method Blank (MB) Report				Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report													
	Method: Compound	CAS Number	LOR	Unit	Result	Spike	Spike Recovery (%)		Recovery Limits (%)		RPDs (%)							
							Concentration	LCS	DCS	Low	High	Value	Control Limit					
EA/ED: Physical and Aggregate Properties (QCLot: 1799498)																		
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20 mg/L	89.0	---	85	115	---	---	---						
EA/ED: Physical and Aggregate Properties (QC Lot: 1799499)																		
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20 mg/L	102	---	85	115	---	---	---						
EA/ED: Physical and Aggregate Properties (QC Lot: 1799500)																		
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20 mg/L	108	---	85	115	---	---	---						
EA/ED: Physical and Aggregate Properties (QC Lot: 1799501)																		
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20 mg/L	107	---	85	115	---	---	---						
EA/ED: Physical and Aggregate Properties (QC Lot: 1799502)																		
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20 mg/L	112	---	85	115	---	---	---						
EA/ED: Physical and Aggregate Properties (QC Lot: 1799503)																		
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20 mg/L	87.5	---	85	115	---	---	---						
EA/ED: Physical and Aggregate Properties (QC Lot: 1799504)																		
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20 mg/L	103	---	85	115	---	---	---						
EA/ED: Physical and Aggregate Properties (QC Lot: 1799505)																		
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20 mg/L	99.0	---	85	115	---	---	---						
EA/ED: Physical and Aggregate Properties (QC Lot: 1799506)																		
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20 mg/L	90.0	---	85	115	---	---	---						
EA/ED: Physical and Aggregate Properties (QC Lot: 1799507)																		
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20 mg/L	96.5	---	85	115	---	---	---						

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

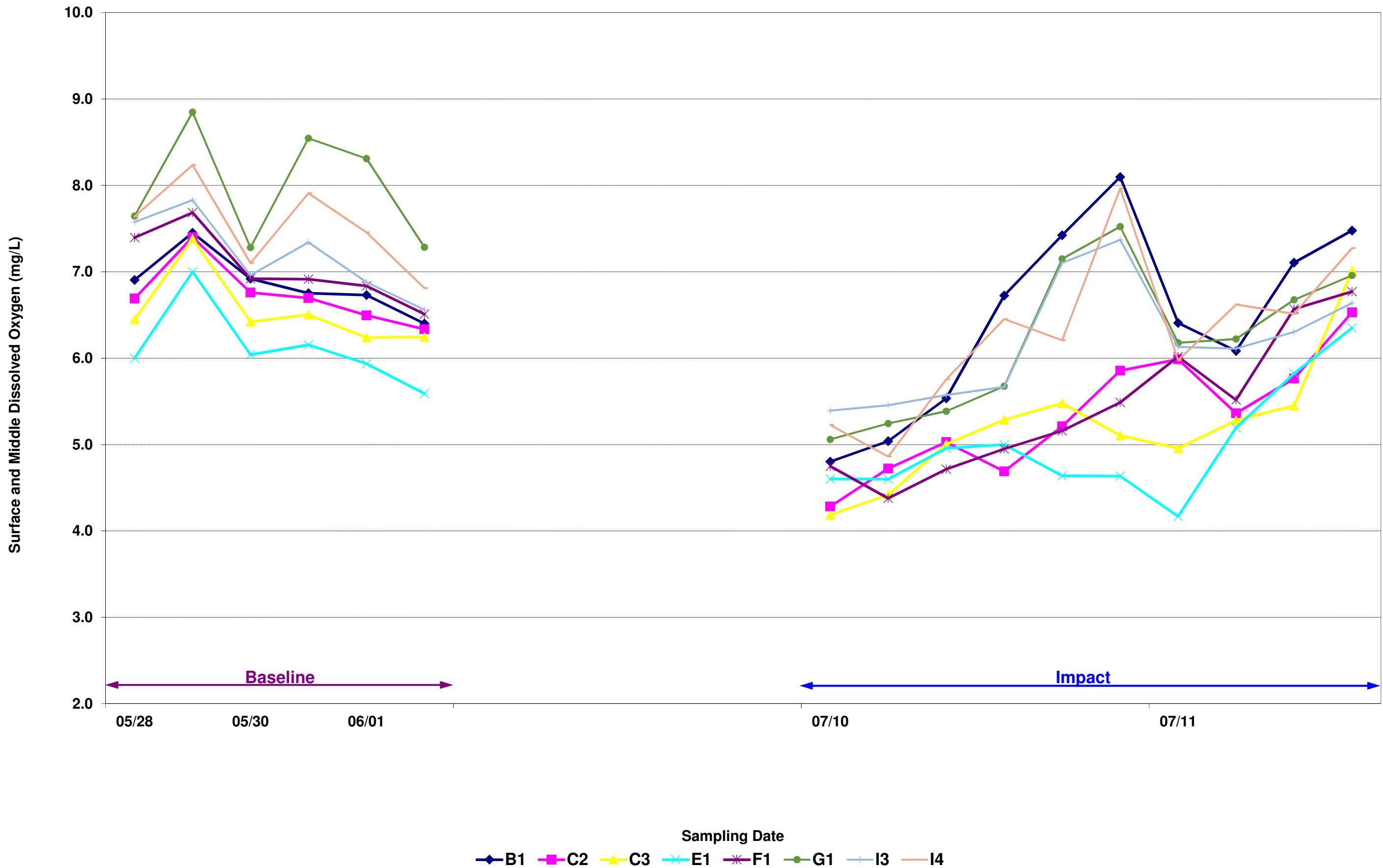
- No Matrix Spike (MS) or Matrix Spike Duplicate (MSD) Results are required to be reported.

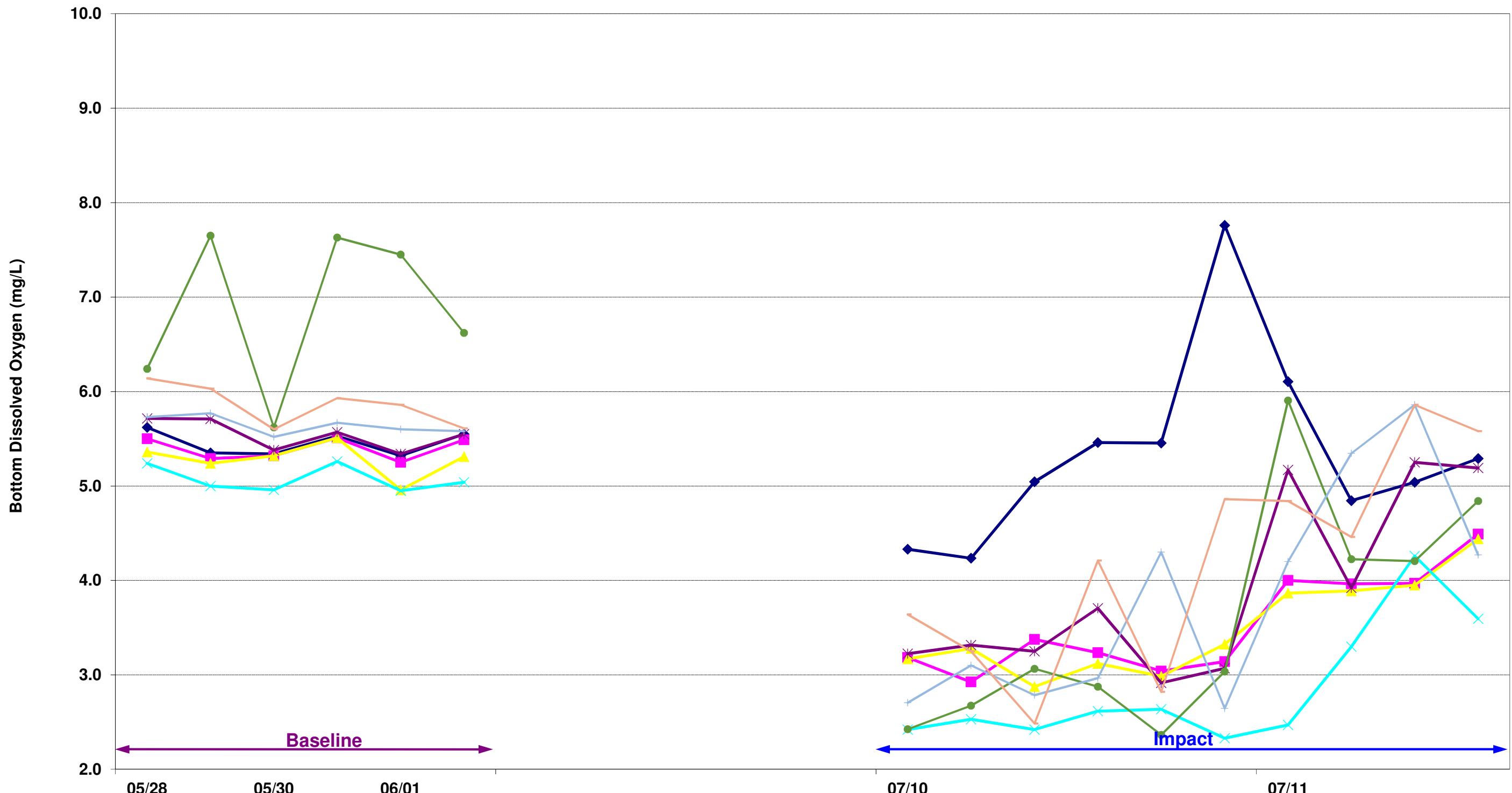
Annex C

Impact Water Quality Monitoring Results

Part 1

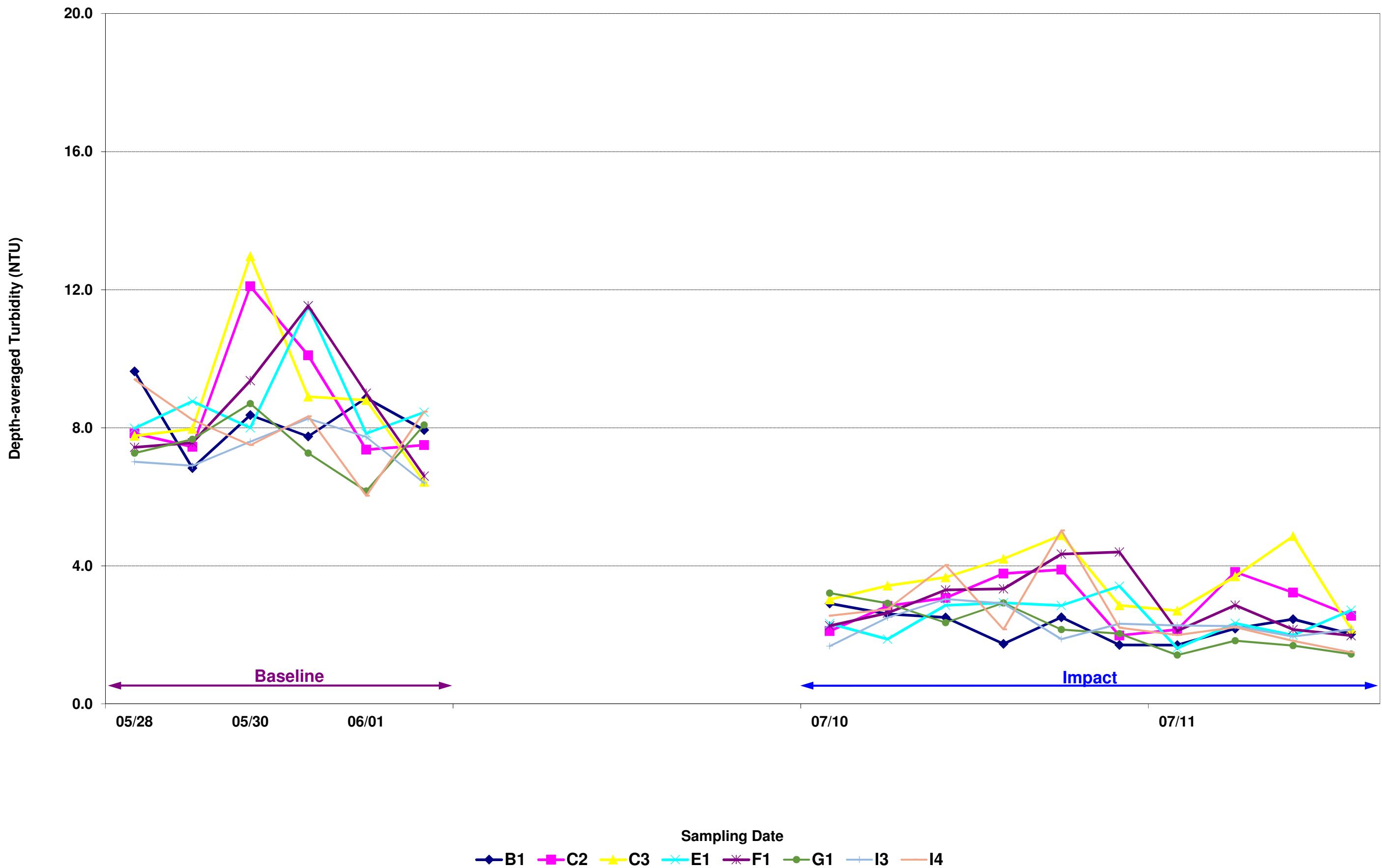
Monitoring Results for Zone A

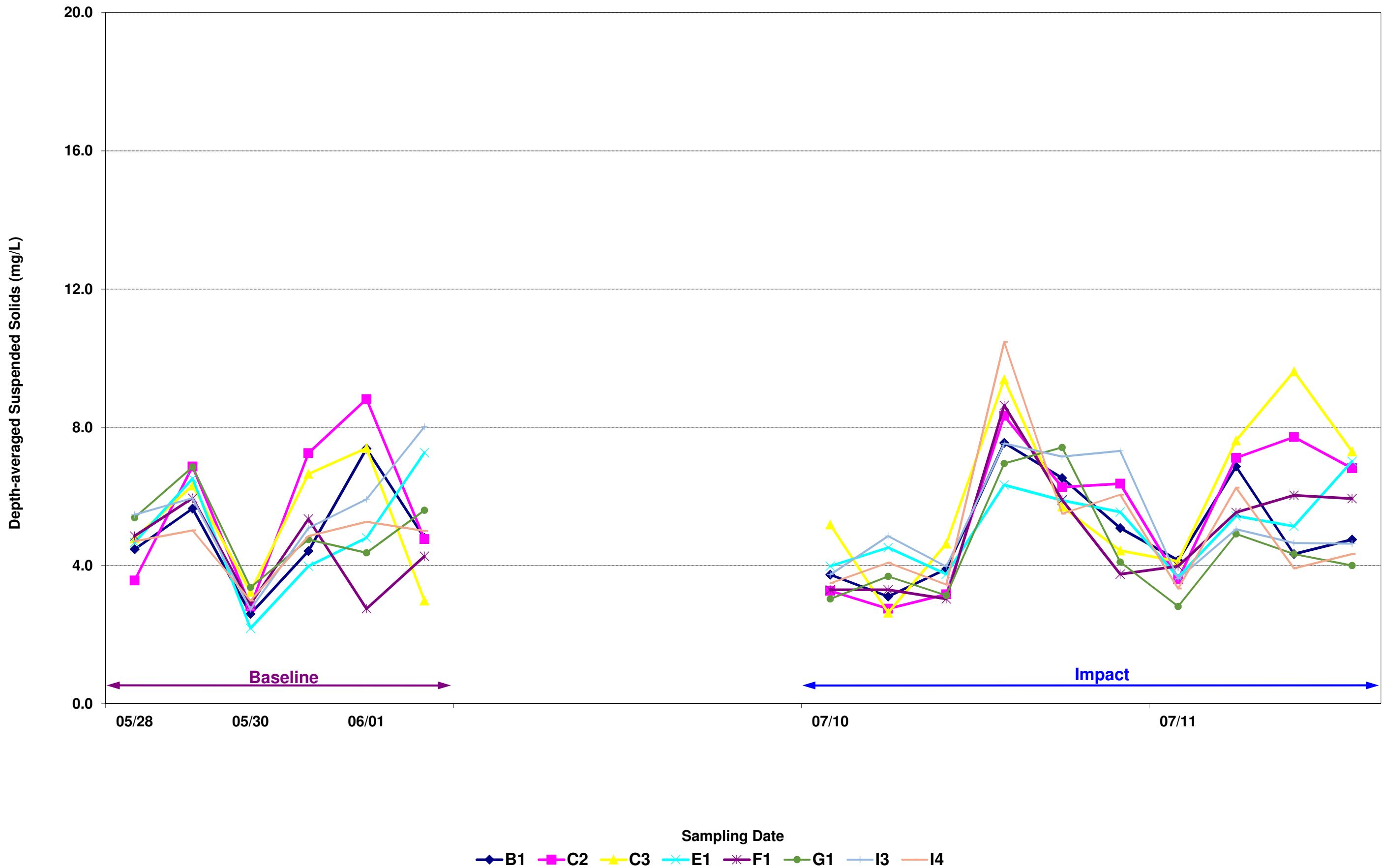




Sampling Date

- B1
- C2
- C3
- E1
- F1
- G1
- I3
- I4





	Water Quality Data Summary								Depth-Averaged Metrics			
				TSS (mg/L)	DO Saturation (%)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Surface and Mid-depth Dissolved Oxygen (mg/L)	Bottom Dissolved Oxygen (mg/L)	Depth-Averaged Turbidity (NTU)	Depth- Averaged SS (mg/L)	
Action Level Limit Level								<5.19	<4.96	>11.53	>7.39	
								<u><4.77</u>	<u><4.95</u>	<u>>12.56</u>	<u>>8.44</u>	
● Red dot to the left of data point indicates trigger of Limit Level. Values also shown in bold. ● Yellow dot to the left of data point indicates trigger of Action Level. Values also underlined. ● Green dot to the left of data point indicates no exceedance.												
Date	Round	Station	Time	Level								
2018-Jul-10	Round 1	E1	07:40	Surface	3.4	98.8	6.74	1.6	● 4.60	● <u>2.42</u>	● 2.3	● 3.98
2018-Jul-10	Round 1	E1	07:40	Surface	2.9	98.4	6.75	1.7				
2018-Jul-10	Round 1	E1	07:40	Middle	3.9	35.6	2.46	3.1				
2018-Jul-10	Round 1	E1	07:40	Middle	3.2	35.6	2.46	3.1				
2018-Jul-10	Round 1	E1	07:40	Bottom	5.2	36.1	2.42	2.2				
2018-Jul-10	Round 1	E1	07:40	Bottom	5.3	38.3	2.42	2.3				
2018-Jul-10	Round 1	F1	08:48	Surface	3.4	82.6	5.61	0.9	● 4.75	● <u>3.23</u>	● 2.3	● 3.30
2018-Jul-10	Round 1	F1	08:48	Surface	3.5	82.4	5.60	0.9				
2018-Jul-10	Round 1	F1	08:48	Middle	2.0	56.8	3.90	1.5				
2018-Jul-10	Round 1	F1	08:48	Middle	3.8	56.8	3.89	1.6				
2018-Jul-10	Round 1	F1	08:48	Bottom	3.5	45.7	3.23	4.3				
2018-Jul-10	Round 1	F1	08:48	Bottom	3.6	45.6	3.22	4.3				
2018-Jul-10	Round 1	B1	08:14	Surface	3.7	77.7	5.25	1.3	● <u>4.80</u>	● 4.33	● 2.9	● 3.73
2018-Jul-10	Round 1	B1	08:14	Surface	3.1	77.9	5.26	1.3				
2018-Jul-10	Round 1	B1	08:14	Middle	3.2	63.9	4.36	2.3				
2018-Jul-10	Round 1	B1	08:14	Middle	3.0	63.7	4.34	2.5				
2018-Jul-10	Round 1	B1	08:14	Bottom	4.5	63.2	4.31	5.1				
2018-Jul-10	Round 1	B1	08:14	Bottom	4.9	63.7	4.35	5.0				
2018-Jul-10	Round 1	C2	08:33	Surface	3.5	86.9	5.90	1.0	● 4.28	● <u>3.19</u>	● 2.1	● 3.27
2018-Jul-10	Round 1	C2	08:33	Surface	3.9	86.5	5.87	1.0				
2018-Jul-10	Round 1	C2	08:33	Middle	2.6	38.0	2.67	2.4				
2018-Jul-10	Round 1	C2	08:33	Middle	2.8	38.4	2.69	2.4				
2018-Jul-10	Round 1	C2	08:33	Bottom	3.8	45.2	3.18	3.0				
2018-Jul-10	Round 1	C2	08:33	Bottom	3.0	45.2	3.19	3.0				
2018-Jul-10	Round 1	C3	08:42	Surface	4.7	79.7	5.42	1.0	● <u>4.19</u>	● <u>3.17</u>	● 3.0	● 5.18
2018-Jul-10	Round 1	C3	08:42	Surface	4.7	76.4	5.20	1.0				
2018-Jul-10	Round 1	C3	08:42	Middle	3.9	43.4	3.05	2.1				
2018-Jul-10	Round 1	C3	08:42	Middle	5.4	43.7	3.07	2.2				
2018-Jul-10	Round 1	C3	08:42	Bottom	6.0	44.9	3.17	5.9				
2018-Jul-10	Round 1	C3	08:42	Bottom	6.4	44.9	3.17	5.9				
2018-Jul-10	Round 1	I3	08:02	Surface	3.8	93.9	6.34	1.0	● <u>5.39</u>	● 2.71	● 1.7	● 3.73
2018-Jul-10	Round 1	I3	08:02	Surface	4.1	93.7	6.33	1.0				
2018-Jul-10	Round 1	I3	08:02	Middle	2.0	65.6	4.46	1.0				
2018-Jul-10	Round 1	I3	08:02	Middle	4.1	65.3	4.44	1.3				
2018-Jul-10	Round 1	I3	08:02	Bottom	4.0	38.8	2.69	3.1				
2018-Jul-10	Round 1	I3	08:02	Bottom	4.4	39.2	2.72	2.7				
2018-Jul-10	Round 1	I4	08:09	Surface	3.8	88.8	5.99	0.9	● <u>5.23</u>	● 3.64	● 2.6	● 3.48
2018-Jul-10	Round 1	I4	08:09	Surface	2.6	88.9	5.99	0.9				
2018-Jul-10	Round 1	I4	08:09	Middle	3.8	65.5	4.47	1.3				
2018-Jul-10	Round 1	I4	08:09	Middle	3.7	65.3	4.46	1.4				
2018-Jul-10	Round 1	I4	08:09	Bottom	4.0	53.2	3.64	5.4				
2018-Jul-10	Round 1	I4	08:09	Bottom	3.0	53.2	3.64	5.4				
2018-Jul-10	Round 1	G1	07:59	Surface	2.3	86.4	5.85	1.1	● <u>5.06</u>	● 2.43	● 3.2	● 3.03
2018-Jul-10	Round 1	G1	07:59	Surface	3.1	86.0	5.83	1.1				
2018-Jul-10	Round 1	G1	07:59	Middle	2.2	63.3	4.30	1.2				
2018-Jul-10	Round 1	G1	07:59	Middle	3.4	62.7	4.26	1.2				
2018-Jul-10	Round 1	G1	07:59	Bottom	3.3	34.6	2.41	7.4				
2018-Jul-10	Round 1	G1	07:59	Bottom	3.9	35.1	2.44	7.4				

									Surface and Mid-depth Dissolved Oxygen (mg/L)	Bottom Dissolved Oxygen (mg/L)	Depth-Averaged Turbidity (NTU)	Depth-Averaged SS (mg/L)
		TSS (mg/L)	DO Saturation (%)	Dissolved Oxygen (mg/L)	Turbidity (NTU)							
Action Level									<5.19	<4.96	>11.53	>7.39
Limit Level									<u><4.77</u>	<u><4.95</u>	<u>>12.56</u>	<u>>8.44</u>
● Red dot to the left of data point indicates trigger of Limit Level. Values also shown in bold. ● Yellow dot to the left of data point indicates trigger of Action Level. Values also underlined. ● Green dot to the left of data point indicates no exceedance.												
Date	Round	Station	Time	Level								
2018-Jul-10	Round 2	E1	09:14	Surface	3.6	98.8	6.72	1.2	● 4.60	● 2.53	● 1.9	● 4.52
2018-Jul-10	Round 2	E1	09:14	Surface	4.0	98.4	6.70	1.2				
2018-Jul-10	Round 2	E1	09:14	Middle	5.2	35.6	2.49	2.2				
2018-Jul-10	Round 2	E1	09:14	Middle	5.3	35.6	2.49	2.2				
2018-Jul-10	Round 2	E1	09:14	Bottom	4.2	36.1	2.53	2.2				
2018-Jul-10	Round 2	E1	09:14	Bottom	4.8	36.2	2.53	2.3				
2018-Jul-10	Round 2	F1	10:17	Surface	3.9	83.3	5.65	1.0	● 4.38	● 3.32	● 2.6	● 3.30
2018-Jul-10	Round 2	F1	10:17	Surface	3.5	83.0	5.63	1.0				
2018-Jul-10	Round 2	F1	10:17	Middle	4.0	44.4	3.11	2.6				
2018-Jul-10	Round 2	F1	10:17	Middle	3.5	44.5	3.12	2.7				
2018-Jul-10	Round 2	F1	10:17	Bottom	2.1	46.9	3.31	4.3				
2018-Jul-10	Round 2	F1	10:17	Bottom	2.8	47.0	3.32	4.2				
2018-Jul-10	Round 2	B1	09:45	Surface	2.0	86.3	5.85	1.2	● <u>5.04</u>	● 4.24	● 2.6	● 3.10
2018-Jul-10	Round 2	B1	09:45	Surface	2.1	81.8	5.54	1.2				
2018-Jul-10	Round 2	B1	09:45	Middle	3.7	64.4	4.39	1.4				
2018-Jul-10	Round 2	B1	09:45	Middle	3.7	64.2	4.38	1.4				
2018-Jul-10	Round 2	B1	09:45	Bottom	3.6	61.7	4.22	5.3				
2018-Jul-10	Round 2	B1	09:45	Bottom	3.5	62.1	4.25	5.2				
2018-Jul-10	Round 2	C2	10:04	Surface	2.8	97.2	6.60	1.1	● 4.72	● 2.93	● 2.8	● 2.75
2018-Jul-10	Round 2	C2	10:04	Surface	2.7	96.8	6.58	1.1				
2018-Jul-10	Round 2	C2	10:04	Middle	2.1	41.0	2.86	2.7				
2018-Jul-10	Round 2	C2	10:04	Middle	3.5	40.8	2.85	2.7				
2018-Jul-10	Round 2	C2	10:04	Bottom	2.0	41.5	2.92	4.7				
2018-Jul-10	Round 2	C2	10:04	Bottom	3.4	41.6	2.93	4.7				
2018-Jul-10	Round 2	C3	10:11	Surface	2.6	89.3	6.05	1.0	● 4.42	● 3.28	● 3.4	● 2.63
2018-Jul-10	Round 2	C3	10:11	Surface	3.0	89.0	6.03	1.0				
2018-Jul-10	Round 2	C3	10:11	Middle	3.0	39.7	2.79	4.4				
2018-Jul-10	Round 2	C3	10:11	Middle	2.7	39.9	2.80	4.3				
2018-Jul-10	Round 2	C3	10:11	Bottom	2.1	46.4	3.27	4.9				
2018-Jul-10	Round 2	C3	10:11	Bottom	2.4	46.6	3.29	5.0				
2018-Jul-10	Round 2	I3	09:34	Surface	3.5	93.0	6.28	1.0	● 5.46	● 3.10	● 2.5	● 4.85
2018-Jul-10	Round 2	I3	09:34	Surface	4.0	93.6	6.33	1.0				
2018-Jul-10	Round 2	I3	09:34	Middle	6.2	68.6	4.66	2.3				
2018-Jul-10	Round 2	I3	09:34	Middle	5.6	67.0	4.55	2.6				
2018-Jul-10	Round 2	I3	09:34	Bottom	4.9	44.1	3.09	4.2				
2018-Jul-10	Round 2	I3	09:34	Bottom	4.9	44.4	3.11	4.0				
2018-Jul-10	Round 2	I4	09:40	Surface	2.3	78.9	5.35	1.2	● <u>4.86</u>	● 3.25	● 2.7	● 4.08
2018-Jul-10	Round 2	I4	09:40	Surface	3.3	78.9	5.36	1.2				
2018-Jul-10	Round 2	I4	09:40	Middle	3.8	64.1	4.39	3.5				
2018-Jul-10	Round 2	I4	09:40	Middle	6.0	63.5	4.34	3.8				
2018-Jul-10	Round 2	I4	09:40	Bottom	3.7	46.3	3.18	3.6				
2018-Jul-10	Round 2	I4	09:40	Bottom	5.4	48.4	3.32	3.2				
2018-Jul-10	Round 2	G1	09:30	Surface	3.4	91.7	6.19	1.0	● 5.24	● 2.68	● 2.9	● 3.68
2018-Jul-10	Round 2	G1	09:30	Surface	3.3	91.3	6.18	1.0				
2018-Jul-10	Round 2	G1	09:30	Middle	3.6	63.8	4.34	1.9				
2018-Jul-10	Round 2	G1	09:30	Middle	2.9	62.7	4.26	2.2				
2018-Jul-10	Round 2	G1	09:30	Bottom	4.2	38.0	2.67	5.7				
2018-Jul-10	Round 2	G1	09:30	Bottom	4.7	38.1	2.68	5.7				

									Surface and Mid-depth Dissolved Oxygen (mg/L)	Bottom Dissolved Oxygen (mg/L)	Depth-Averaged Turbidity (NTU)	Depth-Averaged SS (mg/L)
		TSS (mg/L)	DO Saturation (%)	Dissolved Oxygen (mg/L)	Turbidity (NTU)							
Action Level									<5.19	<4.96	>11.53	>7.39
Limit Level									<u><4.77</u>	<u><4.95</u>	<u>>12.56</u>	<u>>8.44</u>
● Red dot to the left of data point indicates trigger of Limit Level. Values also shown in bold. ● Yellow dot to the left of data point indicates trigger of Action Level. Values also underlined. ● Green dot to the left of data point indicates no exceedance.												
Date	Round	Station	Time	Level								
2018-Jul-10	Round 3	E1	11:08	Surface	3.3	111.9	7.57	1.4	● <u>4.96</u>	● 2.42	● 2.9	● 3.75
2018-Jul-10	Round 3	E1	11:08	Surface	3.4	111.4	7.54	1.5				
2018-Jul-10	Round 3	E1	11:08	Middle	4.0	33.7	2.36	2.4				
2018-Jul-10	Round 3	E1	11:08	Middle	4.1	33.8	2.36	2.4				
2018-Jul-10	Round 3	E1	11:08	Bottom	2.7	34.4	2.42	4.7				
2018-Jul-10	Round 3	E1	11:08	Bottom	5.0	34.4	2.42	4.7				
2018-Jul-10	Round 3	F1	12:16	Surface	3.5	91.0	6.14	1.3	● <u>4.72</u>	● 3.25	● 3.3	● 3.03
2018-Jul-10	Round 3	F1	12:16	Surface	3.2	90.8	6.12	1.3				
2018-Jul-10	Round 3	F1	12:16	Middle	2.7	47.4	3.30	2.2				
2018-Jul-10	Round 3	F1	12:16	Middle	2.3	47.4	3.30	2.3				
2018-Jul-10	Round 3	F1	12:16	Bottom	3.0	45.9	3.24	6.3				
2018-Jul-10	Round 3	F1	12:16	Bottom	3.5	46.2	3.26	6.4				
2018-Jul-10	Round 3	B1	11:41	Surface	4.0	90.8	6.14	1.5	● <u>5.54</u>	● 5.05	● 2.5	● 3.90
2018-Jul-10	Round 3	B1	11:41	Surface	5.2	90.4	6.12	1.5				
2018-Jul-10	Round 3	B1	11:41	Middle	4.3	72.3	4.93	1.7				
2018-Jul-10	Round 3	B1	11:41	Middle	3.3	72.7	4.95	1.6				
2018-Jul-10	Round 3	B1	11:41	Bottom	3.8	74.2	5.05	4.2				
2018-Jul-10	Round 3	B1	11:41	Bottom	2.8	74.0	5.04	4.5				
2018-Jul-10	Round 3	C2	12:01	Surface	2.9	109.2	7.39	1.3	● <u>5.03</u>	● 3.38	● 3.1	● 3.17
2018-Jul-10	Round 3	C2	12:01	Surface	2.5	109.5	7.41	1.3				
2018-Jul-10	Round 3	C2	12:01	Middle	2.0	37.9	2.65	3.9				
2018-Jul-10	Round 3	C2	12:01	Middle	4.4	38.1	2.66	4.0				
2018-Jul-10	Round 3	C2	12:01	Bottom	3.1	48.0	3.37	4.0				
2018-Jul-10	Round 3	C2	12:01	Bottom	4.1	48.1	3.38	3.9				
2018-Jul-10	Round 3	C3	12:10	Surface	3.9	96.4	6.51	1.2	● <u>5.01</u>	● 2.88	● 3.7	● 4.63
2018-Jul-10	Round 3	C3	12:10	Surface	4.5	96.3	6.50	1.3				
2018-Jul-10	Round 3	C3	12:10	Middle	4.2	50.8	3.50	2.5				
2018-Jul-10	Round 3	C3	12:10	Middle	2.5	50.9	3.51	2.4				
2018-Jul-10	Round 3	C3	12:10	Bottom	7.2	40.8	2.86	7.3				
2018-Jul-10	Round 3	C3	12:10	Bottom	5.5	41.1	2.89	7.4				
2018-Jul-10	Round 3	I3	11:30	Surface	4.6	91.7	6.17	1.4	● <u>5.57</u>	● 2.79	● 3.0	● 3.97
2018-Jul-10	Round 3	I3	11:30	Surface	4.2	91.5	6.16	1.4				
2018-Jul-10	Round 3	I3	11:30	Middle	3.6	73.1	4.98	1.4				
2018-Jul-10	Round 3	I3	11:30	Middle	3.2	73.1	4.98	1.5				
2018-Jul-10	Round 3	I3	11:30	Bottom	4.9	39.7	2.78	6.2				
2018-Jul-10	Round 3	I3	11:30	Bottom	3.3	39.9	2.79	6.2				
2018-Jul-10	Round 3	I4	11:36	Surface	3.3	96.3	6.45	1.4	● <u>5.76</u>	● 2.49	● 4.0	● 3.45
2018-Jul-10	Round 3	I4	11:36	Surface	3.5	96.1	6.44	1.4				
2018-Jul-10	Round 3	I4	11:36	Middle	3.2	74.8	5.08	1.7				
2018-Jul-10	Round 3	I4	11:36	Middle	3.4	74.3	5.05	2.1				
2018-Jul-10	Round 3	I4	11:36	Bottom	3.7	35.6	2.45	8.7				
2018-Jul-10	Round 3	I4	11:36	Bottom	3.6	36.6	2.52	8.8				
2018-Jul-10	Round 3	G1	11:27	Surface	2.3	93.6	6.29	1.4	● <u>5.39</u>	● 3.07	● 2.4	● 3.13
2018-Jul-10	Round 3	G1	11:27	Surface	2.8	93.4	6.28	1.4				
2018-Jul-10	Round 3	G1	11:27	Middle	3.7	65.9	4.49	1.6				
2018-Jul-10	Round 3	G1	11:27	Middle	2.6	65.7	4.48	1.8				
2018-Jul-10	Round 3	G1	11:27	Bottom	3.5	43.5	3.05	4.2				
2018-Jul-10	Round 3	G1	11:27	Bottom	3.9	43.9	3.08	3.8				

	Water Quality Data Summary								Depth-Averaged Metrics			
				TSS (mg/L)	DO Saturation (%)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Surface and Mid-depth Dissolved Oxygen (mg/L)	Bottom Dissolved Oxygen (mg/L)	Depth-Averaged Turbidity (NTU)	Depth- Averaged SS (mg/L)	
Action Level Limit Level								<5.19	<4.96	>11.53	>7.39	
								<4.77	<4.95	>12.56	>8.44	
● Red dot to the left of data point indicates trigger of Limit Level. Values also shown in bold. ● Yellow dot to the left of data point indicates trigger of Action Level. Values also underlined. ● Green dot to the left of data point indicates no exceedance.												
Date	Round	Station	Time	Level								
2018-Jul-10	Round 4	E1	13:04	Surface	6.4	113.4	7.65	1.6	● <u>5.00</u>	● 2.62	● 2.9	● 6.33
2018-Jul-10	Round 4	E1	13:04	Surface	4.6	113.4	7.65	1.6				
2018-Jul-10	Round 4	E1	13:04	Middle	5.4	33.6	2.35	3.0				
2018-Jul-10	Round 4	E1	13:04	Middle	6.7	33.7	2.35	3.0				
2018-Jul-10	Round 4	E1	13:04	Bottom	6.8	37.2	2.61	4.2				
2018-Jul-10	Round 4	E1	13:04	Bottom	8.1	37.3	2.62	4.3				
2018-Jul-10	Round 4	F1	14:07	Surface	8.9	96.7	6.52	1.3	● <u>4.95</u>	● 3.71	● 3.3	● 8.63
2018-Jul-10	Round 4	F1	14:07	Surface	8.7	96.5	6.51	1.3				
2018-Jul-10	Round 4	F1	14:07	Middle	8.2	48.6	3.39	2.2				
2018-Jul-10	Round 4	F1	14:07	Middle	8.3	48.5	3.38	2.3				
2018-Jul-10	Round 4	F1	14:07	Bottom	9.6	52.5	3.69	6.8				
2018-Jul-10	Round 4	F1	14:07	Bottom	8.1	52.9	3.72	6.3				
2018-Jul-10	Round 4	B1	13:33	Surface	7.2	103.9	6.93	1.4	● <u>6.73</u>	● 5.46	● 1.7	● <u>7.55</u>
2018-Jul-10	Round 4	B1	13:33	Surface	7.9	103.7	6.93	1.3				
2018-Jul-10	Round 4	B1	13:33	Middle	6.8	96.8	6.53	1.7				
2018-Jul-10	Round 4	B1	13:33	Middle	7.9	96.4	6.51	1.7				
2018-Jul-10	Round 4	B1	13:33	Bottom	8.0	80.7	5.46	2.2				
2018-Jul-10	Round 4	B1	13:33	Bottom	7.5	80.8	5.46	2.2				
2018-Jul-10	Round 4	C2	13:52	Surface	7.8	94.3	6.36	1.5	● 4.69	● 3.24	● 3.8	● <u>8.33</u>
2018-Jul-10	Round 4	C2	13:52	Surface	7.4	94.0	6.34	1.4				
2018-Jul-10	Round 4	C2	13:52	Middle	8.1	43.7	3.03	2.6				
2018-Jul-10	Round 4	C2	13:52	Middle	8.6	43.7	3.03	2.7				
2018-Jul-10	Round 4	C2	13:52	Bottom	8.9	45.8	3.22	7.2				
2018-Jul-10	Round 4	C2	13:52	Bottom	9.2	46.2	3.25	7.2				
2018-Jul-10	Round 4	C3	14:01	Surface	7.9	105.1	7.07	1.3	● <u>5.29</u>	● 3.12	● 4.2	● 9.38
2018-Jul-10	Round 4	C3	14:01	Surface	9.4	104.7	7.04	1.3				
2018-Jul-10	Round 4	C3	14:01	Middle	8.6	51.1	3.52	1.9				
2018-Jul-10	Round 4	C3	14:01	Middle	8.7	51.0	3.52	1.9				
2018-Jul-10	Round 4	C3	14:01	Bottom	11.1	44.2	3.12	9.2				
2018-Jul-10	Round 4	C3	14:01	Bottom	10.6	44.2	3.12	9.5				
2018-Jul-10	Round 4	I3	13:23	Surface	5.5	104.4	6.98	1.3	● <u>5.67</u>	● 2.97	● 2.9	● <u>7.53</u>
2018-Jul-10	Round 4	I3	13:23	Surface	5.4	104.2	6.96	1.3				
2018-Jul-10	Round 4	I3	13:23	Middle	7.7	64.1	4.37	1.5				
2018-Jul-10	Round 4	I3	13:23	Middle	6.9	63.9	4.36	1.6				
2018-Jul-10	Round 4	I3	13:23	Bottom	9.6	42.1	2.95	6.0				
2018-Jul-10	Round 4	I3	13:23	Bottom	10.1	42.4	2.98	5.7				
2018-Jul-10	Round 4	I4	13:28	Surface	9.0	103.8	6.90	1.3	● <u>6.45</u>	● 4.21	● 2.2	● 10.47
2018-Jul-10	Round 4	I4	13:28	Surface	10.9	103.6	6.89	1.3				
2018-Jul-10	Round 4	I4	13:28	Middle	10.9	90.1	6.04	2.2				
2018-Jul-10	Round 4	I4	13:28	Middle	11.2	89.3	5.98	2.4				
2018-Jul-10	Round 4	I4	13:28	Bottom	10.9	61.5	4.20	2.9				
2018-Jul-10	Round 4	I4	13:28	Bottom	9.9	61.8	4.22	2.8				
2018-Jul-10	Round 4	G1	13:20	Surface	5.8	103.1	6.88	1.3	● <u>5.68</u>	● 2.88	● 2.9	● 6.95
2018-Jul-10	Round 4	G1	13:20	Surface	6.0	102.7	6.86	1.3				
2018-Jul-10	Round 4	G1	13:20	Middle	5.8	65.9	4.50	1.4				
2018-Jul-10	Round 4	G1	13:20	Middle	4.8	65.3	4.46	1.4				
2018-Jul-10	Round 4	G1	13:20	Bottom	9.2	40.8	2.86	6.2				
2018-Jul-10	Round 4	G1	13:20	Bottom	10.1	41.3	2.89	6.0				

	Water Quality Data Summary											
				TSS (mg/L)	DO Saturation (%)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Surface and Mid-depth Dissolved Oxygen (mg/L)	Bottom Dissolved Oxygen (mg/L)	Depth-Averaged Turbidity (NTU)	Depth-Averaged SS (mg/L)	
Action Level Limit Level								<5.19	<4.96	>11.53	>7.39	
								<u><4.77</u>	<u><4.95</u>	<u>>12.56</u>	<u>>8.44</u>	
● Red dot to the left of data point indicates trigger of Limit Level. Values also shown in bold. ● Yellow dot to the left of data point indicates trigger of Action Level. Values also underlined. ● Green dot to the left of data point indicates no exceedance.												
Date	Round	Station	Time	Level								
2018-Jul-10	Round 5	E1	15:10	Surface	5.1	100.5	6.80	1.7	● 4.64	● 2.64	● 2.9	● 5.88
2018-Jul-10	Round 5	E1	15:10	Surface	5.5	100.4	6.80	1.7				
2018-Jul-10	Round 5	E1	15:10	Middle	6.0	35.3	2.47	2.8				
2018-Jul-10	Round 5	E1	15:10	Middle	4.7	35.4	2.48	2.8				
2018-Jul-10	Round 5	E1	15:10	Bottom	8.1	37.5	2.63	4.1				
2018-Jul-10	Round 5	E1	15:10	Bottom	5.9	37.7	2.64	4.0				
2018-Jul-10	Round 5	F1	16:19	Surface	4.6	111.3	7.47	1.3	● <u>5.16</u>	● 2.92	● 4.3	● 5.90
2018-Jul-10	Round 5	F1	16:19	Surface	5.5	111.1	7.45	1.4				
2018-Jul-10	Round 5	F1	16:19	Middle	5.7	41.2	2.86	1.9				
2018-Jul-10	Round 5	F1	16:19	Middle	5.8	41.2	2.86	2.2				
2018-Jul-10	Round 5	F1	16:19	Bottom	6.9	41.8	2.91	9.3				
2018-Jul-10	Round 5	F1	16:19	Bottom	6.9	41.9	2.92	10.0				
2018-Jul-10	Round 5	B1	15:41	Surface	5.7	114.8	7.60	1.6	● 7.42	● 5.46	● 2.5	● 6.53
2018-Jul-10	Round 5	B1	15:41	Surface	6.1	114.7	7.59	1.6				
2018-Jul-10	Round 5	B1	15:41	Middle	6.7	107.9	7.27	2.4				
2018-Jul-10	Round 5	B1	15:41	Middle	6.2	107.2	7.23	2.5				
2018-Jul-10	Round 5	B1	15:41	Bottom	7.0	80.4	5.45	3.5				
2018-Jul-10	Round 5	B1	15:41	Bottom	7.5	80.6	5.46	3.5				
2018-Jul-10	Round 5	C2	16:01	Surface	6.4	105.8	7.13	1.4	● 5.21	● 3.04	● 3.9	● 6.27
2018-Jul-10	Round 5	C2	16:01	Surface	6.6	104.0	7.01	1.4				
2018-Jul-10	Round 5	C2	16:01	Middle	7.2	48.6	3.35	1.6				
2018-Jul-10	Round 5	C2	16:01	Middle	6.4	48.7	3.35	1.6				
2018-Jul-10	Round 5	C2	16:01	Bottom	5.1	43.3	3.03	8.9				
2018-Jul-10	Round 5	C2	16:01	Bottom	5.9	43.6	3.05	8.5				
2018-Jul-10	Round 5	C3	16:10	Surface	5.6	105.7	7.09	1.4	● 5.48	● 2.99	● 4.9	● 5.70
2018-Jul-10	Round 5	C3	16:10	Surface	5.9	105.7	7.09	1.4				
2018-Jul-10	Round 5	C3	16:10	Middle	6.2	56.2	3.87	3.0				
2018-Jul-10	Round 5	C3	16:10	Middle	5.3	56.1	3.86	3.0				
2018-Jul-10	Round 5	C3	16:10	Bottom	5.0	42.5	2.98	10.2				
2018-Jul-10	Round 5	C3	16:10	Bottom	6.2	42.6	2.99	10.4				
2018-Jul-10	Round 5	I3	15:29	Surface	6.6	115.6	7.70	1.3	● 7.10	● 4.30	● 1.9	● 7.15
2018-Jul-10	Round 5	I3	15:29	Surface	6.1	115.4	7.69	1.4				
2018-Jul-10	Round 5	I3	15:29	Middle	6.8	96.5	6.51	1.4				
2018-Jul-10	Round 5	I3	15:29	Middle	6.8	96.5	6.51	1.4				
2018-Jul-10	Round 5	I3	15:29	Bottom	9.2	62.8	4.29	2.9				
2018-Jul-10	Round 5	I3	15:29	Bottom	7.4	63.1	4.31	2.9				
2018-Jul-10	Round 5	I4	15:35	Surface	5.0	112.6	7.46	1.4	● 6.21	● 2.82	● 5.0	● 5.50
2018-Jul-10	Round 5	I4	15:35	Surface	6.2	112.2	7.43	1.4				
2018-Jul-10	Round 5	I4	15:35	Middle	6.1	73.0	4.97	1.5				
2018-Jul-10	Round 5	I4	15:35	Middle	5.1	72.9	4.97	1.5				
2018-Jul-10	Round 5	I4	15:35	Bottom	5.6	39.4	2.71	12.2				
2018-Jul-10	Round 5	I4	15:35	Bottom	5.0	42.7	2.93	12.1				
2018-Jul-10	Round 5	G1	15:27	Surface	6.5	116.0	7.71	1.3	● 7.15	● 2.37	● 2.2	● 7.42
2018-Jul-10	Round 5	G1	15:27	Surface	5.7	115.9	7.71	1.3				
2018-Jul-10	Round 5	G1	15:27	Middle	7.8	95.8	6.47	1.3				
2018-Jul-10	Round 5	G1	15:27	Middle	6.7	99.5	6.71	1.3				
2018-Jul-10	Round 5	G1	15:27	Bottom	10.0	34.3	2.36	3.9				
2018-Jul-10	Round 5	G1	15:27	Bottom	7.8	34.4	2.37	3.9				

									Surface and Mid-depth Dissolved Oxygen (mg/L)	Bottom Dissolved Oxygen (mg/L)	Depth-Averaged Turbidity (NTU)	Depth-Averaged SS (mg/L)
		TSS (mg/L)	DO Saturation (%)	Dissolved Oxygen (mg/L)	Turbidity (NTU)							
Action Level									<5.19	<4.96	>11.53	>7.39
Limit Level									<u><4.77</u>	<u><4.95</u>	<u>>12.56</u>	<u>>8.44</u>
● Red dot to the left of data point indicates trigger of Limit Level. Values also shown in bold. ● Yellow dot to the left of data point indicates trigger of Action Level. Values also underlined. ● Green dot to the left of data point indicates no exceedance.												
Date	Round	Station	Time	Level								
2018-Jul-10	Round 6	E1	17:00	Surface	5.4	103.2	6.94	1.3	● 4.64	● 2.33	● 3.4	● 5.55
2018-Jul-10	Round 6	E1	17:00	Surface	5.3	102.8	6.90	1.3				
2018-Jul-10	Round 6	E1	17:00	Middle	5.5	33.7	2.35	2.1				
2018-Jul-10	Round 6	E1	17:00	Middle	6.0	33.7	2.35	2.0				
2018-Jul-10	Round 6	E1	17:00	Bottom	5.5	33.2	2.33	6.8				
2018-Jul-10	Round 6	E1	17:00	Bottom	5.6	33.2	2.33	7.0				
2018-Jul-10	Round 6	F1	18:00	Surface	3.3	110.3	7.40	1.3	● 5.49	● 3.07	● 4.4	● 3.75
2018-Jul-10	Round 6	F1	18:00	Surface	3.3	110.0	7.38	1.3				
2018-Jul-10	Round 6	F1	18:00	Middle	4.0	51.9	3.58	1.7				
2018-Jul-10	Round 6	F1	18:00	Middle	4.7	52.1	3.59	1.7				
2018-Jul-10	Round 6	F1	18:00	Bottom	4.1	43.5	3.06	10.1				
2018-Jul-10	Round 6	F1	18:00	Bottom	3.1	43.8	3.08	10.4				
2018-Jul-10	Round 6	B1	17:27	Surface	4.9	124.0	8.17	1.5	● 8.10	● 7.76	● 1.7	● 5.08
2018-Jul-10	Round 6	B1	17:27	Surface	3.7	124.0	8.18	1.5				
2018-Jul-10	Round 6	B1	17:27	Middle	3.8	121.4	8.02	1.7				
2018-Jul-10	Round 6	B1	17:27	Middle	6.1	121.4	8.02	1.7				
2018-Jul-10	Round 6	B1	17:27	Bottom	6.1	115.4	7.77	1.9				
2018-Jul-10	Round 6	B1	17:27	Bottom	5.9	115.1	7.75	1.9				
2018-Jul-10	Round 6	C2	17:45	Surface	5.1	99.0	6.63	1.0	● 5.86	● 3.14	● 2.0	● 6.37
2018-Jul-10	Round 6	C2	17:45	Surface	5.7	98.8	6.62	1.0				
2018-Jul-10	Round 6	C2	17:45	Middle	6.3	75.5	5.08	0.9				
2018-Jul-10	Round 6	C2	17:45	Middle	6.2	75.5	5.09	0.9				
2018-Jul-10	Round 6	C2	17:45	Bottom	7.4	45.0	3.13	4.1				
2018-Jul-10	Round 6	C2	17:45	Bottom	7.5	45.3	3.15	4.0				
2018-Jul-10	Round 6	C3	17:54	Surface	2.6	108.2	7.28	1.4	● 5.11	● 3.33	● 2.9	● 4.43
2018-Jul-10	Round 6	C3	17:54	Surface	2.8	107.6	7.24	1.4				
2018-Jul-10	Round 6	C3	17:54	Middle	4.7	42.3	2.94	2.3				
2018-Jul-10	Round 6	C3	17:54	Middle	5.3	42.6	2.96	2.3				
2018-Jul-10	Round 6	C3	17:54	Bottom	5.1	46.8	3.31	4.9				
2018-Jul-10	Round 6	C3	17:54	Bottom	6.1	47.3	3.34	4.9				
2018-Jul-10	Round 6	I3	17:18	Surface	5.1	133.5	8.89	1.4	● 7.37	● 2.65	● 2.3	● 7.32
2018-Jul-10	Round 6	I3	17:18	Surface	4.1	132.8	8.83	1.4				
2018-Jul-10	Round 6	I3	17:18	Middle	7.1	86.9	5.90	1.4				
2018-Jul-10	Round 6	I3	17:18	Middle	5.9	86.3	5.86	1.6				
2018-Jul-10	Round 6	I3	17:18	Bottom	10.8	38.4	2.65	4.1				
2018-Jul-10	Round 6	I3	17:18	Bottom	10.9	38.3	2.64	4.1				
2018-Jul-10	Round 6	I4	17:23	Surface	6.0	127.8	8.50	1.4	● 7.97	● 4.86	● 2.2	● 6.05
2018-Jul-10	Round 6	I4	17:23	Surface	4.5	127.6	8.49	1.4				
2018-Jul-10	Round 6	I4	17:23	Middle	5.8	110.7	7.45	1.5				
2018-Jul-10	Round 6	I4	17:23	Middle	5.9	110.1	7.42	1.6				
2018-Jul-10	Round 6	I4	17:23	Bottom	7.7	71.4	4.86	3.7				
2018-Jul-10	Round 6	I4	17:23	Bottom	6.4	71.2	4.86	3.7				
2018-Jul-10	Round 6	G1	17:16	Surface	4.2	130.9	8.73	1.4	● 7.52	● 3.04	● 2.0	● 4.10
2018-Jul-10	Round 6	G1	17:16	Surface	4.1	130.8	8.72	1.4				
2018-Jul-10	Round 6	G1	17:16	Middle	3.9	93.3	6.33	1.5				
2018-Jul-10	Round 6	G1	17:16	Middle	4.6	92.9	6.31	1.5				
2018-Jul-10	Round 6	G1	17:16	Bottom	4.2	46.1	3.17	3.1				
2018-Jul-10	Round 6	G1	17:16	Bottom	3.6	42.1	2.90	3.2				

									Surface and Mid-depth Dissolved Oxygen (mg/L)	Bottom Dissolved Oxygen (mg/L)	Depth-Averaged Turbidity (NTU)	Depth-Averaged SS (mg/L)
		TSS (mg/L)	DO Saturation (%)	Dissolved Oxygen (mg/L)	Turbidity (NTU)							
Action Level									<5.19	<4.96	>11.53	>7.39
Limit Level									<u><4.77</u>	<u><4.95</u>	<u>>12.56</u>	<u>>8.44</u>
● Red dot to the left of data point indicates trigger of Limit Level. Values also shown in bold. ● Yellow dot to the left of data point indicates trigger of Action Level. Values also underlined. ● Green dot to the left of data point indicates no exceedance.												
Date	Round	Station	Time	Level								
2018-Jul-11	Round 1	E1	07:20	Surface	3.6	87.7	5.93	1.1	● 4.17	● 2.47	● 1.6	● 3.67
2018-Jul-11	Round 1	E1	07:20	Surface	3.9	87.7	5.93	1.1				
2018-Jul-11	Round 1	E1	07:19	Middle	3.3	34.5	2.40	1.7				
2018-Jul-11	Round 1	E1	07:19	Middle	2.2	34.7	2.41	1.7				
2018-Jul-11	Round 1	E1	07:18	Bottom	4.8	35.4	2.47	2.1				
2018-Jul-11	Round 1	E1	07:18	Bottom	4.2	35.4	2.47	2.1				
2018-Jul-11	Round 1	F1	09:16	Surface	2.7	97.1	6.49	1.0	● <u>6.02</u>	● 5.17	● 2.1	● 3.98
2018-Jul-11	Round 1	F1	09:16	Surface	4.4	96.8	6.47	1.0				
2018-Jul-11	Round 1	F1	09:15	Middle	2.5	82.2	5.56	1.3				
2018-Jul-11	Round 1	F1	09:15	Middle	3.6	82.1	5.55	1.3				
2018-Jul-11	Round 1	F1	09:14	Bottom	6.3	75.9	5.17	4.1				
2018-Jul-11	Round 1	F1	09:14	Bottom	4.4	75.8	5.17	4.1				
2018-Jul-11	Round 1	B1	08:17	Surface	4.0	101.1	6.75	1.4	● <u>6.41</u>	● 6.11	● 1.7	● 4.15
2018-Jul-11	Round 1	B1	08:17	Surface	4.0	100.8	6.73	1.4				
2018-Jul-11	Round 1	B1	08:16	Middle	5.1	90.2	6.07	1.8				
2018-Jul-11	Round 1	B1	08:16	Middle	5.3	90.5	6.08	1.9				
2018-Jul-11	Round 1	B1	08:15	Bottom	3.3	91.1	6.11	1.9				
2018-Jul-11	Round 1	B1	08:15	Bottom	3.2	91.1	6.10	1.9				
2018-Jul-11	Round 1	C2	08:48	Surface	2.7	90.7	6.10	1.3	● <u>5.99</u>	● 4.00	● 2.2	● 3.60
2018-Jul-11	Round 1	C2	08:48	Surface	3.6	90.6	6.09	1.4				
2018-Jul-11	Round 1	C2	08:47	Middle	2.3	87.3	5.89	1.3				
2018-Jul-11	Round 1	C2	08:47	Middle	3.8	87.0	5.87	1.3				
2018-Jul-11	Round 1	C2	08:46	Bottom	4.4	57.4	3.99	3.8				
2018-Jul-11	Round 1	C2	08:46	Bottom	4.8	57.7	4.01	3.8				
2018-Jul-11	Round 1	C3	09:05	Surface	2.4	79.4	5.36	1.4	● <u>4.96</u>	● 3.87	● 2.7	● 4.12
2018-Jul-11	Round 1	C3	09:05	Surface	3.1	79.0	5.33	1.4				
2018-Jul-11	Round 1	C3	09:04	Middle	3.5	67.2	4.57	1.8				
2018-Jul-11	Round 1	C3	09:04	Middle	3.0	67.0	4.56	1.9				
2018-Jul-11	Round 1	C3	09:03	Bottom	5.9	55.5	3.86	4.9				
2018-Jul-11	Round 1	C3	09:03	Bottom	6.8	55.5	3.87	4.9				
2018-Jul-11	Round 1	I3	07:57	Surface	2.3	104.2	7.00	1.1	● <u>6.13</u>	● 4.20	● 2.3	● 3.62
2018-Jul-11	Round 1	I3	07:57	Surface	4.1	104.0	6.99	1.1				
2018-Jul-11	Round 1	I3	07:56	Middle	3.6	78.1	5.28	1.9				
2018-Jul-11	Round 1	I3	07:56	Middle	2.7	77.6	5.25	2.2				
2018-Jul-11	Round 1	I3	07:55	Bottom	5.0	61.6	4.19	3.7				
2018-Jul-11	Round 1	I3	07:55	Bottom	4.0	61.8	4.21	3.7				
2018-Jul-11	Round 1	I4	08:08	Surface	2.0	100.1	6.70	1.1	● <u>5.98</u>	● 4.84	● 2.0	● 3.33
2018-Jul-11	Round 1	I4	08:08	Surface	3.7	99.6	6.67	1.0				
2018-Jul-11	Round 1	I4	08:07	Middle	2.9	77.7	5.26	2.3				
2018-Jul-11	Round 1	I4	08:07	Middle	4.6	75.3	5.27	2.5				
2018-Jul-11	Round 1	I4	08:06	Bottom	3.5	71.6	4.84	2.5				
2018-Jul-11	Round 1	I4	08:06	Bottom	3.3	71.5	4.84	2.5				
2018-Jul-11	Round 1	G1	07:51	Surface	3.5	105.5	7.07	1.2	● <u>6.18</u>	● 5.91	● 1.4	● 2.82
2018-Jul-11	Round 1	G1	07:51	Surface	2.1	105.2	7.05	1.1				
2018-Jul-11	Round 1	G1	07:50	Middle	3.2	78.2	5.29	1.3				
2018-Jul-11	Round 1	G1	07:50	Middle	2.5	78.4	5.30	1.3				
2018-Jul-11	Round 1	G1	07:49	Bottom	3.5	87.7	5.90	1.8				
2018-Jul-11	Round 1	G1	07:49	Bottom	2.1	87.9	5.91	1.8				

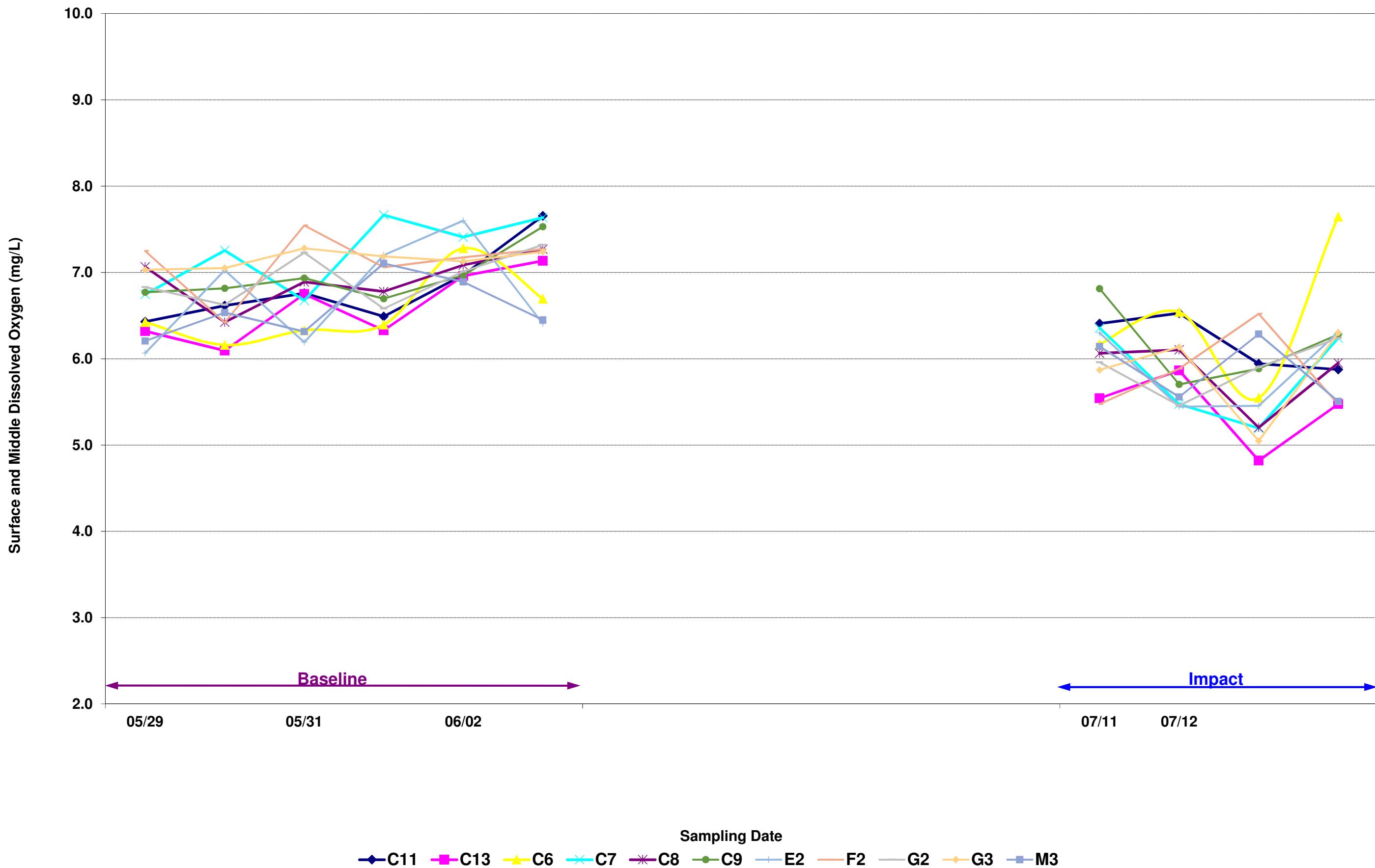
									Surface and Mid-depth Dissolved Oxygen (mg/L)	Bottom Dissolved Oxygen (mg/L)	Depth-Averaged Turbidity (NTU)	Depth-Averaged SS (mg/L)
		TSS (mg/L)	DO Saturation (%)	Dissolved Oxygen (mg/L)	Turbidity (NTU)							
Action Level									<5.19	<4.96	>11.53	>7.39
Limit Level									<u><4.77</u>	<u><4.95</u>	<u>>12.56</u>	<u>>8.44</u>
● Red dot to the left of data point indicates trigger of Limit Level. Values also shown in bold. ● Yellow dot to the left of data point indicates trigger of Action Level. Values also underlined. ● Green dot to the left of data point indicates no exceedance.												
Date	Round	Station	Time	Level								
2018-Jul-11	Round 2	E1	09:20	Surface	3.8	95.5	6.42	1.3	5.20	● 3.30	2.3	5.43
2018-Jul-11	Round 2	E1	09:20	Surface	4.3	95.2	6.40	1.3				
2018-Jul-11	Round 2	E1	09:19	Middle	4.7	58.2	3.99	2.5				
2018-Jul-11	Round 2	E1	09:19	Middle	4.8	57.8	3.97	2.7				
2018-Jul-11	Round 2	E1	09:18	Bottom	7.7	48.0	3.30	3.2				
2018-Jul-11	Round 2	E1	09:18	Bottom	7.3	47.9	3.30	3.2				
2018-Jul-11	Round 2	F1	11:16	Surface	4.0	102.4	6.74	1.2	5.52	● 3.92	2.9	5.53
2018-Jul-11	Round 2	F1	11:16	Surface	4.1	102.0	6.71	1.2				
2018-Jul-11	Round 2	F1	11:16	Middle	4.8	63.8	4.32	3.6				
2018-Jul-11	Round 2	F1	11:16	Middle	5.8	63.5	4.30	3.8				
2018-Jul-11	Round 2	F1	11:16	Bottom	8.2	57.9	3.92	3.7				
2018-Jul-11	Round 2	F1	11:16	Bottom	6.3	57.7	3.92	3.7				
2018-Jul-11	Round 2	B1	10:17	Surface	5.9	102.1	6.76	1.4	6.08	● 4.85	2.2	6.87
2018-Jul-11	Round 2	B1	10:17	Surface	6.5	101.2	6.70	1.4				
2018-Jul-11	Round 2	B1	10:17	Middle	6.3	80.5	5.44	1.7				
2018-Jul-11	Round 2	B1	10:17	Middle	7.5	80.4	5.43	2.4				
2018-Jul-11	Round 2	B1	10:17	Bottom	7.9	71.6	4.84	3.1				
2018-Jul-11	Round 2	B1	10:17	Bottom	7.1	71.6	4.85	3.1				
2018-Jul-11	Round 2	C2	10:48	Surface	4.8	99.6	6.67	1.2	5.36	● 3.97	3.8	7.12
2018-Jul-11	Round 2	C2	10:48	Surface	4.2	99.4	6.65	1.3				
2018-Jul-11	Round 2	C2	10:48	Middle	7.1	59.1	4.07	4.0				
2018-Jul-11	Round 2	C2	10:48	Middle	5.0	58.9	4.06	4.4				
2018-Jul-11	Round 2	C2	10:48	Bottom	10.9	57.5	3.97	6.0				
2018-Jul-11	Round 2	C2	10:48	Bottom	10.7	57.4	3.96	6.0				
2018-Jul-11	Round 2	C3	11:05	Surface	4.5	99.5	6.59	1.0	5.28	● 3.89	3.7	● 7.62
2018-Jul-11	Round 2	C3	11:05	Surface	5.3	99.2	6.57	1.1				
2018-Jul-11	Round 2	C3	11:05	Middle	9.5	57.9	3.99	5.4				
2018-Jul-11	Round 2	C3	11:05	Middle	8.9	57.8	3.98	5.4				
2018-Jul-11	Round 2	C3	11:05	Bottom	8.7	56.2	3.88	4.7				
2018-Jul-11	Round 2	C3	11:05	Bottom	8.8	56.5	3.90	4.7				
2018-Jul-11	Round 2	I3	09:57	Surface	3.9	105.8	7.03	1.2	6.11	● 5.35	2.3	5.05
2018-Jul-11	Round 2	I3	09:57	Surface	3.2	105.6	7.02	1.2				
2018-Jul-11	Round 2	I3	09:57	Middle	2.9	76.9	5.19	1.6				
2018-Jul-11	Round 2	I3	09:57	Middle	3.1	77.0	5.20	1.7				
2018-Jul-11	Round 2	I3	09:57	Bottom	8.2	79.2	5.34	3.9				
2018-Jul-11	Round 2	I3	09:57	Bottom	9.0	79.4	5.35	3.9				
2018-Jul-11	Round 2	I4	10:08	Surface	4.4	104.1	6.89	1.4	6.62	● 4.46	2.2	6.25
2018-Jul-11	Round 2	I4	10:08	Surface	5.3	103.9	6.89	2.3				
2018-Jul-11	Round 2	I4	10:08	Middle	7.9	94.9	6.36	1.6				
2018-Jul-11	Round 2	I4	10:08	Middle	7.9	94.6	6.34	1.9				
2018-Jul-11	Round 2	I4	10:08	Bottom	6.5	66.3	4.46	3.1				
2018-Jul-11	Round 2	I4	10:08	Bottom	5.5	66.2	4.46	3.1				
2018-Jul-11	Round 2	G1	09:51	Surface	3.8	106.8	7.10	1.1	6.22	● 4.23	1.8	4.92
2018-Jul-11	Round 2	G1	09:51	Surface	4.4	106.3	7.07	1.2				
2018-Jul-11	Round 2	G1	09:51	Middle	4.5	79.7	5.37	1.1				
2018-Jul-11	Round 2	G1	09:51	Middle	4.1	79.4	5.35	1.1				
2018-Jul-11	Round 2	G1	09:51	Bottom	6.7	62.5	4.22	3.3				
2018-Jul-11	Round 2	G1	09:51	Bottom	6.0	62.7	4.23	3.3				

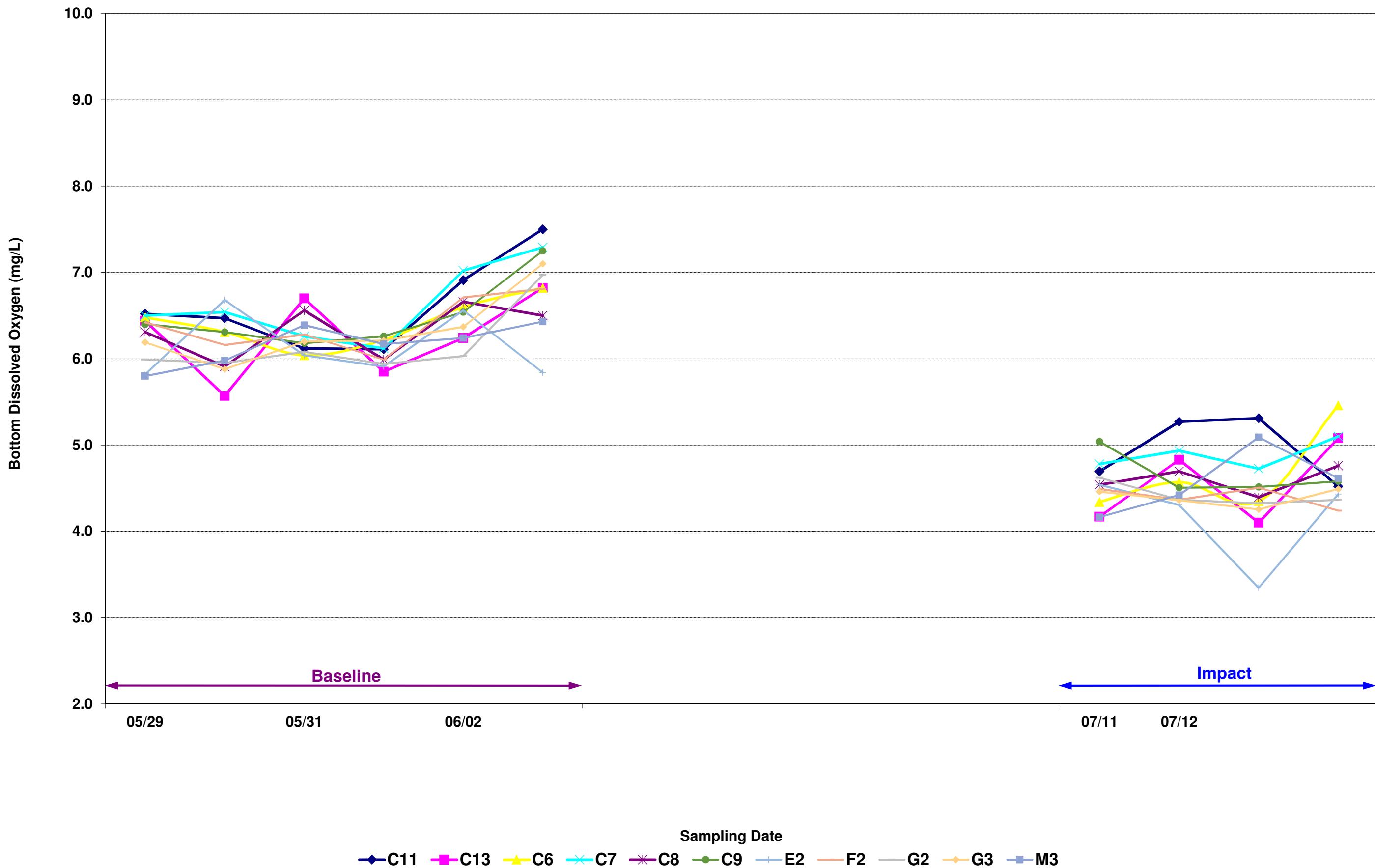
									Surface and Mid-depth Dissolved Oxygen (mg/L)	Bottom Dissolved Oxygen (mg/L)	Depth-Averaged Turbidity (NTU)	Depth-Averaged SS (mg/L)
		TSS (mg/L)	DO Saturation (%)	Dissolved Oxygen (mg/L)	Turbidity (NTU)							
Action Level									<5.19	<4.96	>11.53	>7.39
Limit Level									<u><4.77</u>	<u><4.95</u>	<u>>12.56</u>	<u>>8.44</u>
● Red dot to the left of data point indicates trigger of Limit Level. Values also shown in bold. ● Yellow dot to the left of data point indicates trigger of Action Level. Values also underlined. ● Green dot to the left of data point indicates no exceedance.												
Date	Round	Station	Time	Level								
2018-Jul-11	Round 3	E1	11:20	Surface	5.9	110.3	7.35	1.6	5.82	● 4.26	2.0	5.13
2018-Jul-11	Round 3	E1	11:20	Surface	4.3	110.2	7.34	1.6				
2018-Jul-11	Round 3	E1	11:20	Middle	4.7	63.1	4.30	2.5				
2018-Jul-11	Round 3	E1	11:20	Middle	4.7	63.1	4.30	2.4				
2018-Jul-11	Round 3	E1	11:20	Bottom	5.0	62.7	4.26	2.0				
2018-Jul-11	Round 3	E1	11:20	Bottom	6.2	62.7	4.26	2.0				
2018-Jul-11	Round 3	F1	13:16	Surface	5.6	101.9	6.71	1.6	6.57	● 5.25	2.2	6.03
2018-Jul-11	Round 3	F1	13:16	Surface	5.8	101.6	6.69	1.7				
2018-Jul-11	Round 3	F1	13:16	Middle	6.7	97.8	6.48	2.7				
2018-Jul-11	Round 3	F1	13:16	Middle	6.9	96.1	6.39	3.4				
2018-Jul-11	Round 3	F1	13:16	Bottom	5.1	79.3	5.25	1.8				
2018-Jul-11	Round 3	F1	13:16	Bottom	6.1	79.2	5.25	1.8				
2018-Jul-11	Round 3	B1	12:17	Surface	3.0	111.0	7.28	1.5	7.11	● 5.04	2.5	4.33
2018-Jul-11	Round 3	B1	12:17	Surface	2.0	110.8	7.27	1.4				
2018-Jul-11	Round 3	B1	12:17	Middle	3.9	105.3	6.95	2.8				
2018-Jul-11	Round 3	B1	12:17	Middle	4.7	104.9	6.92	2.9				
2018-Jul-11	Round 3	B1	12:17	Bottom	6.6	75.1	5.04	3.1				
2018-Jul-11	Round 3	B1	12:17	Bottom	5.8	75.1	5.04	3.1				
2018-Jul-11	Round 3	C2	12:48	Surface	7.3	105.3	7.01	1.6	5.77	● 3.97	3.2	● 7.72
2018-Jul-11	Round 3	C2	12:48	Surface	7.5	105.0	7.00	1.6				
2018-Jul-11	Round 3	C2	12:48	Middle	6.6	66.3	4.53	4.1				
2018-Jul-11	Round 3	C2	12:48	Middle	7.7	66.1	4.52	4.1				
2018-Jul-11	Round 3	C2	12:48	Bottom	8.6	58.0	3.97	4.0				
2018-Jul-11	Round 3	C2	12:48	Bottom	8.6	57.9	3.97	4.0				
2018-Jul-11	Round 3	C3	13:05	Surface	7.2	103.8	6.93	1.5	5.45	● 3.95	4.9	● 9.62
2018-Jul-11	Round 3	C3	13:05	Surface	7.8	103.7	6.92	1.5				
2018-Jul-11	Round 3	C3	13:05	Middle	10.2	57.8	3.98	6.9				
2018-Jul-11	Round 3	C3	13:05	Middle	10.1	57.6	3.97	7.0				
2018-Jul-11	Round 3	C3	13:05	Bottom	10.6	57.3	3.94	6.2				
2018-Jul-11	Round 3	C3	13:05	Bottom	11.8	57.6	3.96	6.2				
2018-Jul-11	Round 3	I3	11:57	Surface	3.6	105.7	6.98	1.2	6.30	● 5.86	2.0	4.65
2018-Jul-11	Round 3	I3	11:57	Surface	4.3	105.3	6.95	1.2				
2018-Jul-11	Round 3	I3	11:57	Middle	4.3	83.8	5.64	1.4				
2018-Jul-11	Round 3	I3	11:57	Middle	3.3	83.9	5.64	1.5				
2018-Jul-11	Round 3	I3	11:57	Bottom	6.5	87.9	5.86	3.2				
2018-Jul-11	Round 3	I3	11:57	Bottom	5.9	87.9	5.86	3.2				
2018-Jul-11	Round 3	I4	12:08	Surface	2.4	106.7	7.05	1.0	6.51	● 5.86	1.8	3.92
2018-Jul-11	Round 3	I4	12:08	Surface	4.4	106.5	7.04	1.0				
2018-Jul-11	Round 3	I4	12:08	Middle	5.1	88.9	5.99	2.0				
2018-Jul-11	Round 3	I4	12:08	Middle	4.6	88.6	5.97	4.1				
2018-Jul-11	Round 3	I4	12:08	Bottom	3.5	87.3	5.86	1.4				
2018-Jul-11	Round 3	I4	12:08	Bottom	3.5	87.3	5.86	1.4				
2018-Jul-11	Round 3	G1	11:51	Surface	4.5	110.4	7.34	1.3	6.68	● 4.21	1.7	4.33
2018-Jul-11	Round 3	G1	11:51	Surface	3.5	110.2	7.32	1.3				
2018-Jul-11	Round 3	G1	11:51	Middle	3.5	90.1	6.04	1.2				
2018-Jul-11	Round 3	G1	11:51	Middle	3.9	89.6	6.00	1.2				
2018-Jul-11	Round 3	G1	11:51	Bottom	4.6	62.0	4.20	2.6				
2018-Jul-11	Round 3	G1	11:51	Bottom	6.0	62.1	4.21	2.6				

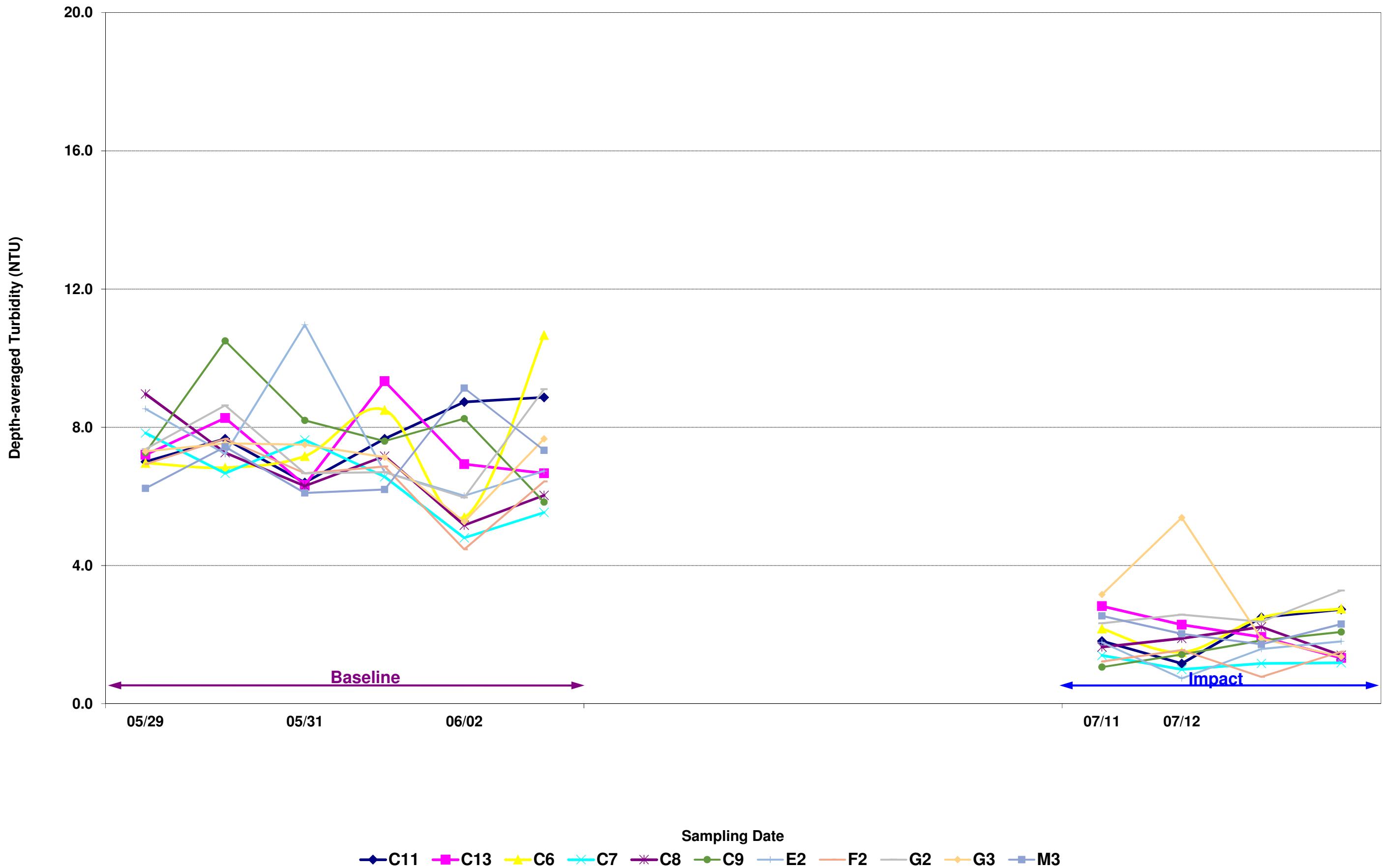
									Surface and Mid-depth Dissolved Oxygen (mg/L)	Bottom Dissolved Oxygen (mg/L)	Depth-Averaged Turbidity (NTU)	Depth-Averaged SS (mg/L)
		TSS (mg/L)	DO Saturation (%)	Dissolved Oxygen (mg/L)	Turbidity (NTU)							
Action Level									<5.19	<4.96	>11.53	>7.39
Limit Level									<4.77	<4.95	>12.56	>8.44
● Red dot to the left of data point indicates trigger of Limit Level. Values also shown in bold. ● Yellow dot to the left of data point indicates trigger of Action Level. Values also underlined. ● Green dot to the left of data point indicates no exceedance.												
Date	Round	Station	Time	Level								
2018-Jul-11	Round 4	E1	13:20	Surface	6.7	125.5	8.39	2.3	6.35	● 3.60	2.7	7.02
2018-Jul-11	Round 4	E1	13:20	Surface	7.2	125.3	8.38	2.3				
2018-Jul-11	Round 4	E1	13:20	Middle	7.0	63.9	4.32	3.4				
2018-Jul-11	Round 4	E1	13:20	Middle	7.0	63.7	4.31	3.3				
2018-Jul-11	Round 4	E1	13:20	Bottom	6.2	53.1	3.59	2.5				
2018-Jul-11	Round 4	E1	13:20	Bottom	8.0	53.2	3.60	2.5				
2018-Jul-11	Round 4	F1	15:16	Surface	5.6	104.8	6.95	1.6	6.77	● <u>5.19</u>	2.0	5.93
2018-Jul-11	Round 4	F1	15:16	Surface	5.1	104.7	6.95	2.2				
2018-Jul-11	Round 4	F1	15:16	Middle	5.7	98.5	6.60	1.8				
2018-Jul-11	Round 4	F1	15:16	Middle	7.0	98.3	6.58	1.8				
2018-Jul-11	Round 4	F1	15:16	Bottom	5.6	76.9	5.19	2.3				
2018-Jul-11	Round 4	F1	15:16	Bottom	6.6	77.0	5.19	2.2				
2018-Jul-11	Round 4	B1	14:17	Surface	3.1	114.9	7.47	1.8	7.48	● <u>5.29</u>	2.0	4.75
2018-Jul-11	Round 4	B1	14:17	Surface	3.6	115.2	7.49	1.8				
2018-Jul-11	Round 4	B1	14:17	Middle	4.4	114.5	7.48	1.3				
2018-Jul-11	Round 4	B1	14:17	Middle	5.7	114.3	7.47	1.4				
2018-Jul-11	Round 4	B1	14:17	Bottom	5.4	79.6	5.29	2.9				
2018-Jul-11	Round 4	B1	14:17	Bottom	6.3	79.6	5.29	2.9				
2018-Jul-11	Round 4	C2	14:48	Surface	6.9	127.4	8.49	2.4	6.53	● 4.49	2.6	6.82
2018-Jul-11	Round 4	C2	14:48	Surface	6.4	127.2	8.48	2.4				
2018-Jul-11	Round 4	C2	14:48	Middle	7.1	67.7	4.58	2.6				
2018-Jul-11	Round 4	C2	14:48	Middle	5.5	67.4	4.57	2.7				
2018-Jul-11	Round 4	C2	14:48	Bottom	7.1	66.3	4.49	2.7				
2018-Jul-11	Round 4	C2	14:48	Bottom	7.9	66.3	4.49	2.6				
2018-Jul-11	Round 4	C3	15:05	Surface	7.1	108.6	7.24	2.2	7.01	● 4.44	2.2	7.30
2018-Jul-11	Round 4	C3	15:05	Surface	7.8	108.5	7.24	2.2				
2018-Jul-11	Round 4	C3	15:05	Middle	6.6	101.8	6.79	1.7				
2018-Jul-11	Round 4	C3	15:05	Middle	6.7	101.6	6.78	1.7				
2018-Jul-11	Round 4	C3	15:05	Bottom	7.3	65.4	4.44	2.7				
2018-Jul-11	Round 4	C3	15:05	Bottom	8.3	65.4	4.44	2.7				
2018-Jul-11	Round 4	I3	13:57	Surface	4.4	109.2	7.24	1.3	6.64	● 4.27	2.2	4.63
2018-Jul-11	Round 4	I3	13:57	Surface	4.1	108.9	7.22	1.4				
2018-Jul-11	Round 4	I3	13:57	Middle	3.3	90.2	6.05	1.7				
2018-Jul-11	Round 4	I3	13:57	Middle	3.4	90.0	6.04	1.8				
2018-Jul-11	Round 4	I3	13:57	Bottom	5.6	63.5	4.27	3.4				
2018-Jul-11	Round 4	I3	13:57	Bottom	7.0	63.5	4.27	3.4				
2018-Jul-11	Round 4	I4	14:08	Surface	3.9	111.7	7.37	1.3	7.27	● <u>5.58</u>	1.5	4.33
2018-Jul-11	Round 4	I4	14:08	Surface	3.9	111.7	7.37	1.3				
2018-Jul-11	Round 4	I4	14:08	Middle	4.0	108.6	7.19	1.6				
2018-Jul-11	Round 4	I4	14:08	Middle	4.4	108.1	7.16	1.6				
2018-Jul-11	Round 4	I4	14:08	Bottom	4.6	83.3	5.58	1.6				
2018-Jul-11	Round 4	I4	14:08	Bottom	5.2	83.3	5.58	1.6				
2018-Jul-11	Round 4	G1	13:51	Surface	4.6	110.5	7.32	1.4	6.96	● 4.84	1.4	4.00
2018-Jul-11	Round 4	G1	13:51	Surface	4.0	110.3	7.31	1.4				
2018-Jul-11	Round 4	G1	13:51	Middle	3.9	98.9	6.61	1.2				
2018-Jul-11	Round 4	G1	13:51	Middle	4.5	98.7	6.59	1.3				
2018-Jul-11	Round 4	G1	13:51	Bottom	3.0	72.4	4.84	1.7				
2018-Jul-11	Round 4	G1	13:51	Bottom	4.0	72.5	4.84	1.7				

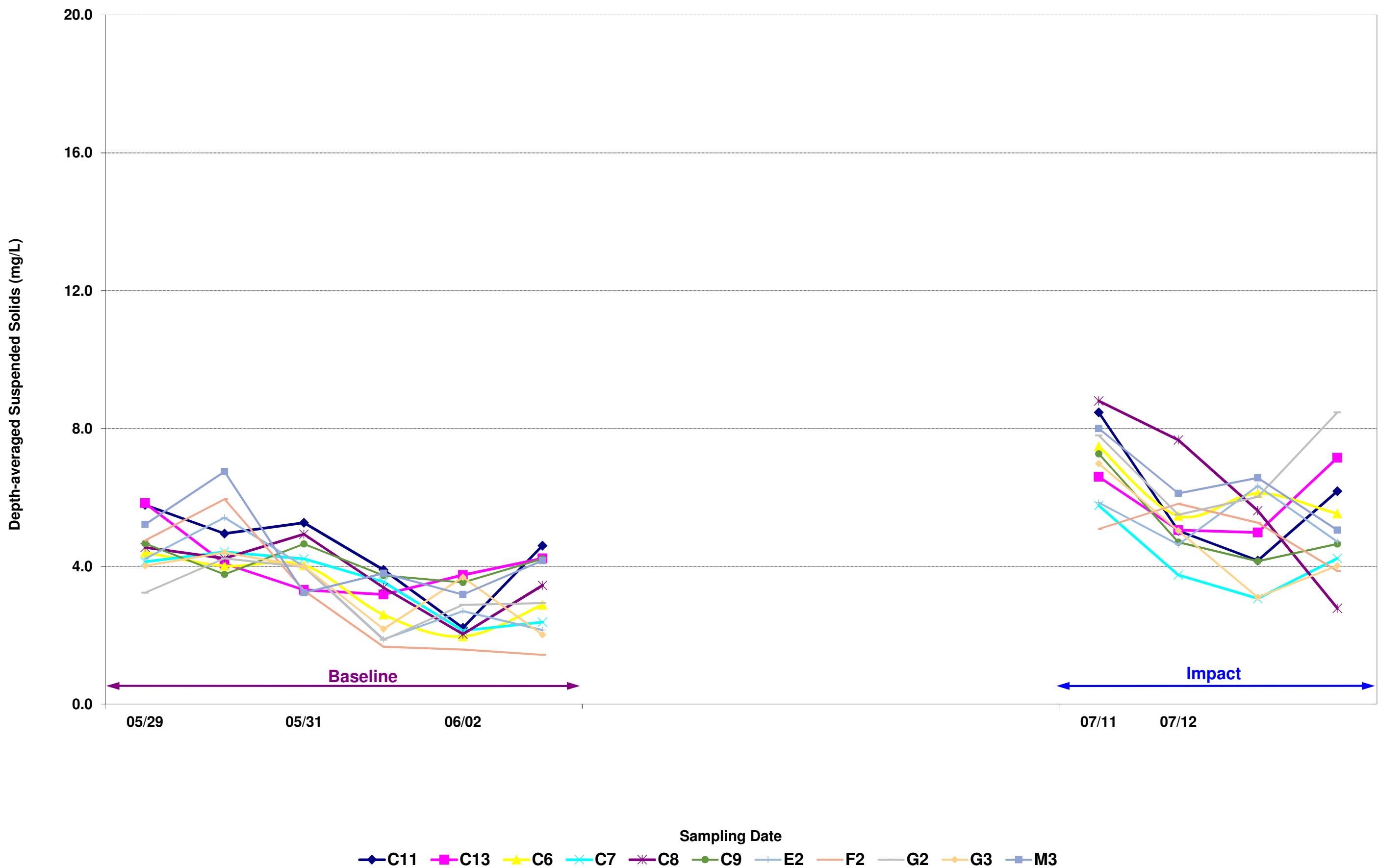
Part 2

Monitoring Results for Zone B









									Surface and Mid-depth Dissolved Oxygen (mg/L)	Bottom Dissolved Oxygen (mg/L)	Depth-Averaged Turbidity (NTU)	Depth-Averaged SS (mg/L)
		TSS (mg/L)	DO Saturation (%)	Dissolved Oxygen (mg/L)	Turbidity (NTU)							
Action Level Limit Level									<5.76	<5.84	>9.28	>5.69
									<u><5.56</u>	<u><5.64</u>	<u>>10.77</u>	<u>>6.23</u>
● Red dot to the left of data point indicates trigger of Limit Level. Values also shown in bold. ● Yellow dot to the left of data point indicates trigger of Action Level. Values also underlined. ● Green dot to the left of data point indicates no exceedance.												
Date	Round	Station	Time	Level								
2018-Jul-11	Round 5	E2	15:38	Surface	5.9	117.3	7.71	1.2	6.30	● 4.54	● 1.8	● 5.85
2018-Jul-11	Round 5	E2	15:38	Surface	6.0	117.2	7.70	1.3				
2018-Jul-11	Round 5	E2	15:39	Middle	5.9	72.9	4.92	2.6				
2018-Jul-11	Round 5	E2	15:39	Middle	4.8	72.1	4.87	2.5				
2018-Jul-11	Round 5	E2	15:40	Bottom	6.0	67.5	4.54	1.6				
2018-Jul-11	Round 5	E2	15:40	Bottom	6.5	67.4	4.54	1.5				
2018-Jul-11	Round 5	F2	16:40	Surface	4.2	102.1	6.63	0.8	● <u>5.48</u>	● 4.49	● 1.2	● 5.08
2018-Jul-11	Round 5	F2	16:40	Surface	5.3	101.6	6.60	0.8				
2018-Jul-11	Round 5	F2	16:41	Middle	4.5	62.8	4.33	1.1				
2018-Jul-11	Round 5	F2	16:41	Middle	4.9	62.9	4.34	1.1				
2018-Jul-11	Round 5	F2	16:42	Bottom	5.7	65.1	4.49	1.8				
2018-Jul-11	Round 5	F2	16:42	Bottom	5.9	65.1	4.49	1.8				
2018-Jul-11	Round 5	C6	16:08	Surface	5.2	98.6	6.56	1.5	6.17	● 4.34	● 2.2	● 7.48
2018-Jul-11	Round 5	C6	16:08	Surface	7.0	98.5	6.55	1.5				
2018-Jul-11	Round 5	C6	16:09	Middle	7.0	86.2	5.79	1.9				
2018-Jul-11	Round 5	C6	16:09	Middle	6.8	86.0	5.77	1.9				
2018-Jul-11	Round 5	C6	16:10	Bottom	9.2	62.8	4.34	3.2				
2018-Jul-11	Round 5	C6	16:10	Bottom	9.7	62.8	4.34	3.2				
2018-Jul-11	Round 5	C7	16:28	Surface	5.4	109.4	7.22	1.2	6.36	● 4.78	● 1.4	● 5.77
2018-Jul-11	Round 5	C7	16:28	Surface	6.4	109.2	7.21	1.2				
2018-Jul-11	Round 5	C7	16:29	Middle	5.8	82.0	5.51	1.2				
2018-Jul-11	Round 5	C7	16:29	Middle	5.6	81.7	5.49	1.5				
2018-Jul-11	Round 5	C7	16:30	Bottom	5.5	70.0	4.78	1.7				
2018-Jul-11	Round 5	C7	16:30	Bottom	5.9	70.0	4.78	1.7				
2018-Jul-11	Round 5	C8	17:43	Surface	6.0	114.6	7.55	1.0	6.06	● 4.54	● 1.6	● 8.80
2018-Jul-11	Round 5	C8	17:43	Surface	5.7	114.4	7.54	1.0				
2018-Jul-11	Round 5	C8	17:44	Middle	10.8	66.6	4.59	2.5				
2018-Jul-11	Round 5	C8	17:44	Middle	9.8	66.4	4.57	2.4				
2018-Jul-11	Round 5	C8	17:45	Bottom	10.1	66.0	4.54	1.5				
2018-Jul-11	Round 5	C8	17:45	Bottom	10.4	66.0	4.54	1.5				
2018-Jul-11	Round 5	C9	17:33	Surface	8.3	113.0	7.40	0.9	6.81	● 5.04	● 1.1	● 7.27
2018-Jul-11	Round 5	C9	17:33	Surface	7.3	112.9	7.39	0.9				
2018-Jul-11	Round 5	C9	17:34	Middle	5.8	94.3	6.24	1.0				
2018-Jul-11	Round 5	C9	17:34	Middle	6.7	94.1	6.22	1.0				
2018-Jul-11	Round 5	C9	17:35	Bottom	7.0	74.0	5.04	1.3				
2018-Jul-11	Round 5	C9	17:35	Bottom	8.5	74.1	5.04	1.3				

									Surface and Mid-depth Dissolved Oxygen (mg/L)	Bottom Dissolved Oxygen (mg/L)	Depth-Averaged Turbidity (NTU)	Depth-Averaged SS (mg/L)
		TSS (mg/L)	DO Saturation (%)	Dissolved Oxygen (mg/L)	Turbidity (NTU)							
Action Level									<5.76	<5.84	>9.28	>5.69
Limit Level									<u><5.56</u>	<u><5.64</u>	<u>>10.77</u>	<u>>6.23</u>
● Red dot to the left of data point indicates trigger of Limit Level. Values also shown in bold. ● Yellow dot to the left of data point indicates trigger of Action Level. Values also underlined. ● Green dot to the left of data point indicates no exceedance.												
Date	Round	Station	Time	Level								
2018-Jul-11	Round 5	C11	17:15	Surface	8.9	103.8	6.75	0.9	● 6.41	● 4.70	● 1.8	● 8.47
2018-Jul-11	Round 5	C11	17:15	Surface	8.5	103.5	6.73	3.5				
2018-Jul-11	Round 5	C11	17:16	Middle	7.4	91.9	6.08	0.8				
2018-Jul-11	Round 5	C11	17:16	Middle	9.0	91.7	6.07	0.9				
2018-Jul-11	Round 5	C11	17:17	Bottom	8.4	67.6	4.70	2.4				
2018-Jul-11	Round 5	C11	17:17	Bottom	8.6	67.5	4.69	2.4				
2018-Jul-11	Round 5	C13	16:03	Surface	6.2	104.1	6.89	1.3	● 5.54	● 4.17	● 2.8	● 6.60
2018-Jul-11	Round 5	C13	16:03	Surface	7.3	103.9	6.88	1.4				
2018-Jul-11	Round 5	C13	16:04	Middle	7.1	60.6	4.21	3.8				
2018-Jul-11	Round 5	C13	16:04	Middle	6.6	60.4	4.19	3.9				
2018-Jul-11	Round 5	C13	16:05	Bottom	5.3	60.3	4.17	3.3				
2018-Jul-11	Round 5	C13	16:05	Bottom	7.1	60.3	4.17	3.3				
2018-Jul-11	Round 5	G2	18:18	Surface	7.9	110.7	7.32	1.3	● 5.96	● 4.62	● 2.3	● 7.80
2018-Jul-11	Round 5	G2	18:18	Surface	7.4	110.3	7.29	1.3				
2018-Jul-11	Round 5	G2	18:18	Middle	7.4	66.4	4.61	3.0				
2018-Jul-11	Round 5	G2	18:18	Middle	7.5	66.4	4.62	3.0				
2018-Jul-11	Round 5	G2	18:20	Bottom	7.4	66.4	4.62	2.7				
2018-Jul-11	Round 5	G2	18:20	Bottom	9.2	66.4	4.62	2.7				
2018-Jul-11	Round 5	G3	17:47	Surface	7.2	108.6	7.32	1.8	● 5.87	● 4.46	● 3.2	● 6.98
2018-Jul-11	Round 5	G3	17:47	Surface	6.7	108.4	7.31	1.8				
2018-Jul-11	Round 5	G3	17:48	Middle	6.6	63.1	4.42	4.1				
2018-Jul-11	Round 5	G3	17:48	Middle	7.6	63.2	4.43	4.1				
2018-Jul-11	Round 5	G3	17:49	Bottom	6.5	64.1	4.46	3.6				
2018-Jul-11	Round 5	G3	17:49	Bottom	7.3	64.0	4.46	3.6				
2018-Jul-11	Round 5	M3	18:31	Surface	8.0	110.9	7.37	1.3	● 6.14	● 4.17	● 2.5	● 8.00
2018-Jul-11	Round 5	M3	18:31	Surface	7.8	110.3	7.33	1.4				
2018-Jul-11	Round 5	M3	18:32	Middle	7.6	72.4	4.95	1.8				
2018-Jul-11	Round 5	M3	18:32	Middle	8.4	71.9	4.92	1.8				
2018-Jul-11	Round 5	M3	18:33	Bottom	8.8	59.8	4.16	4.5				
2018-Jul-11	Round 5	M3	18:33	Bottom	7.4	59.9	4.17	4.5				

									Surface and Mid-depth Dissolved Oxygen (mg/L)	Bottom Dissolved Oxygen (mg/L)	Depth-Averaged Turbidity (NTU)	Depth-Averaged SS (mg/L)
		TSS (mg/L)	DO Saturation (%)	Dissolved Oxygen (mg/L)	Turbidity (NTU)							
Action Level Limit Level									<5.76	<5.84	>9.28	>5.69
									<u><5.56</u>	<u><5.64</u>	<u>>10.77</u>	<u>>6.23</u>
● Red dot to the left of data point indicates trigger of Limit Level. Values also shown in bold. ● Yellow dot to the left of data point indicates trigger of Action Level. Values also underlined. ● Green dot to the left of data point indicates no exceedance.												
Date	Round	Station	Time	Level								
2018-Jul-12	Round 1	E2	07:02	Surface	4.6	102.3	6.72	0.9	● 5.45	● 4.31	● 0.7	● 4.63
2018-Jul-12	Round 1	E2	07:02	Surface	5.1	102.1	6.71	0.9				
2018-Jul-12	Round 1	E2	07:01	Middle	5.4	61.9	4.17	0.6				
2018-Jul-12	Round 1	E2	07:01	Middle	4.1	62.0	4.18	0.6				
2018-Jul-12	Round 1	E2	07:00	Bottom	4.5	63.5	4.30	0.7				
2018-Jul-12	Round 1	E2	07:00	Bottom	4.1	63.6	4.31	0.8				
2018-Jul-12	Round 1	F2	08:30	Surface	3.9	108.6	7.18	0.9	● <u>5.89</u>	● 4.37	● 1.6	● 5.82
2018-Jul-12	Round 1	F2	08:30	Surface	5.2	108.1	7.15	0.9				
2018-Jul-12	Round 1	F2	08:29	Middle	5.4	68.1	4.61	3.0				
2018-Jul-12	Round 1	F2	08:29	Middle	5.9	68.0	4.60	3.0				
2018-Jul-12	Round 1	F2	08:28	Bottom	6.3	63.6	4.36	0.8				
2018-Jul-12	Round 1	F2	08:28	Bottom	8.2	63.7	4.37	0.8				
2018-Jul-12	Round 1	C6	07:46	Surface	5.5	102.7	6.84	0.9	● <u>6.54</u>	● 4.57	● 1.5	● 5.47
2018-Jul-12	Round 1	C6	07:46	Surface	5.5	102.7	6.84	0.9				
2018-Jul-12	Round 1	C6	07:45	Middle	5.3	92.7	6.24	1.2				
2018-Jul-12	Round 1	C6	07:45	Middle	4.6	92.6	6.24	1.2				
2018-Jul-12	Round 1	C6	07:44	Bottom	6.8	65.8	4.56	2.4				
2018-Jul-12	Round 1	C6	07:44	Bottom	5.1	66.1	4.58	2.4				
2018-Jul-12	Round 1	C7	07:59	Surface	2.5	93.6	6.25	1.1	● 5.47	● 4.94	● 1.0	● 3.75
2018-Jul-12	Round 1	C7	07:59	Surface	2.1	93.4	6.23	1.1				
2018-Jul-12	Round 1	C7	07:58	Middle	3.0	70.2	4.70	0.9				
2018-Jul-12	Round 1	C7	07:58	Middle	3.6	70.3	4.71	0.9				
2018-Jul-12	Round 1	C7	07:57	Bottom	6.2	73.4	4.93	1.0				
2018-Jul-12	Round 1	C7	07:57	Bottom	5.1	73.4	4.94	1.1				
2018-Jul-12	Round 1	C8	09:25	Surface	7.5	107.5	7.13	1.0	● <u>6.10</u>	● 4.70	● 1.9	● 7.67
2018-Jul-12	Round 1	C8	09:25	Surface	7.7	107.5	7.13	1.0				
2018-Jul-12	Round 1	C8	09:24	Middle	7.3	74.3	5.08	1.6				
2018-Jul-12	Round 1	C8	09:24	Middle	8.3	74.1	5.07	1.8				
2018-Jul-12	Round 1	C8	09:23	Bottom	8.2	67.8	4.69	3.0				
2018-Jul-12	Round 1	C8	09:23	Bottom	7.0	68.0	4.70	3.0				
2018-Jul-12	Round 1	C9	09:12	Surface	4.2	95.7	6.38	1.0	● <u>5.70</u>	● 4.51	● 1.4	● 4.70
2018-Jul-12	Round 1	C9	09:12	Surface	3.9	95.6	6.37	1.0				
2018-Jul-12	Round 1	C9	09:11	Middle	3.5	74.3	5.04	1.1				
2018-Jul-12	Round 1	C9	09:11	Middle	4.6	74.0	5.02	1.4				
2018-Jul-12	Round 1	C9	09:10	Bottom	7.1	65.3	4.50	2.1				
2018-Jul-12	Round 1	C9	09:10	Bottom	4.9	65.5	4.51	2.0				

									Surface and Mid-depth Dissolved Oxygen (mg/L)	Bottom Dissolved Oxygen (mg/L)	Depth-Averaged Turbidity (NTU)	Depth-Averaged SS (mg/L)
		TSS (mg/L)	DO Saturation (%)	Dissolved Oxygen (mg/L)	Turbidity (NTU)							
Action Level									<5.76	<5.84	>9.28	>5.69
Limit Level									<u><5.56</u>	<u><5.64</u>	<u>>10.77</u>	<u>>6.23</u>
● Red dot to the left of data point indicates trigger of Limit Level. Values also shown in bold. ● Yellow dot to the left of data point indicates trigger of Action Level. Values also underlined. ● Green dot to the left of data point indicates no exceedance.												
Date	Round	Station	Time	Level								
2018-Jul-12	Round 1	C11	08:52	Surface	5.6	105.4	6.96	1.5	● 6.53	● 5.27	● 1.2	● 5.03
2018-Jul-12	Round 1	C11	08:52	Surface	5.6	105.0	6.93	1.4				
2018-Jul-12	Round 1	C11	08:51	Middle	5.9	93.6	6.12	0.9				
2018-Jul-12	Round 1	C11	08:51	Middle	4.7	93.2	6.10	1.2				
2018-Jul-12	Round 1	C11	08:50	Bottom	4.3	77.8	5.27	1.1				
2018-Jul-12	Round 1	C11	08:50	Bottom	4.1	77.9	5.27	1.0				
2018-Jul-12	Round 1	C13	07:31	Surface	4.9	102.7	6.83	1.3	● 5.87	● 4.83	● 2.3	● 5.05
2018-Jul-12	Round 1	C13	07:31	Surface	4.5	102.6	6.82	1.3				
2018-Jul-12	Round 1	C13	07:30	Middle	4.5	71.5	4.90	3.3				
2018-Jul-12	Round 1	C13	07:30	Middle	5.4	71.3	4.91	3.4				
2018-Jul-12	Round 1	C13	07:29	Bottom	6.0	70.4	4.83	2.2				
2018-Jul-12	Round 1	C13	07:29	Bottom	5.0	70.4	4.83	2.2				
2018-Jul-12	Round 1	G2	09:52	Surface	4.6	98.7	6.56	2.2	● 5.46	● 4.37	● 2.6	● 5.50
2018-Jul-12	Round 1	G2	09:52	Surface	4.9	98.2	6.53	2.1				
2018-Jul-12	Round 1	G2	09:50	Middle	4.8	62.8	4.37	2.5				
2018-Jul-12	Round 1	G2	09:50	Middle	5.0	62.8	4.37	2.9				
2018-Jul-12	Round 1	G2	09:48	Bottom	6.1	63.6	4.36	2.9				
2018-Jul-12	Round 1	G2	09:48	Bottom	7.6	63.6	4.37	2.9				
2018-Jul-12	Round 1	G3	09:32	Surface	4.7	104.1	6.76	2.2	● 6.14	● 4.36	● 5.4	● 5.03
2018-Jul-12	Round 1	G3	09:32	Surface	4.4	103.5	6.72	2.2				
2018-Jul-12	Round 1	G3	09:31	Middle	5.1	83.9	5.54	12.1				
2018-Jul-12	Round 1	G3	09:31	Middle	4.7	83.6	5.52	12.0				
2018-Jul-12	Round 1	G3	09:30	Bottom	6.5	65.3	4.36	1.9				
2018-Jul-12	Round 1	G3	09:30	Bottom	4.8	65.2	4.36	1.9				
2018-Jul-12	Round 1	M3	10:13	Surface	5.4	101.5	6.73	1.2	● 5.56	● 4.42	● 2.0	● 6.12
2018-Jul-12	Round 1	M3	10:13	Surface	5.7	101.0	6.70	1.2				
2018-Jul-12	Round 1	M3	10:12	Middle	6.0	64.1	4.41	2.3				
2018-Jul-12	Round 1	M3	10:12	Middle	5.1	63.8	4.39	2.4				
2018-Jul-12	Round 1	M3	10:11	Bottom	6.9	64.1	4.41	2.5				
2018-Jul-12	Round 1	M3	10:11	Bottom	7.6	64.5	4.43	2.6				

									Surface and Mid-depth Dissolved Oxygen (mg/L)	Bottom Dissolved Oxygen (mg/L)	Depth-Averaged Turbidity (NTU)	Depth-Averaged SS (mg/L)
		TSS (mg/L)	DO Saturation (%)	Dissolved Oxygen (mg/L)	Turbidity (NTU)							
Action Level									<5.76	<5.84	>9.28	>5.69
Limit Level									<u><5.56</u>	<u><5.64</u>	<u>>10.77</u>	<u>>6.23</u>
● Red dot to the left of data point indicates trigger of Limit Level. Values also shown in bold. ● Yellow dot to the left of data point indicates trigger of Action Level. Values also underlined. ● Green dot to the left of data point indicates no exceedance.												
Date	Round	Station	Time	Level								
2018-Jul-12	Round 2	E2	11:43	Surface	7.1	109.2	7.17	1.0	● 5.46	● 3.35	● 1.6	● 6.33
2018-Jul-12	Round 2	E2	11:43	Surface	5.8	108.8	7.14	1.0				
2018-Jul-12	Round 2	E2	11:42	Middle	6.7	55.7	3.76	2.9				
2018-Jul-12	Round 2	E2	11:42	Middle	6.3	55.6	3.75	3.0				
2018-Jul-12	Round 2	E2	11:41	Bottom	7.0	49.3	3.34	0.8				
2018-Jul-12	Round 2	E2	11:41	Bottom	5.1	49.4	3.35	0.8				
2018-Jul-12	Round 2	F2	13:18	Surface	5.8	107.7	7.05	0.9	● 6.52	● 4.51	● 0.8	● 5.27
2018-Jul-12	Round 2	F2	13:18	Surface	4.5	107.6	7.04	0.9				
2018-Jul-12	Round 2	F2	13:17	Middle	4.8	90.2	6.00	0.8				
2018-Jul-12	Round 2	F2	13:17	Middle	4.4	90.1	5.99	0.8				
2018-Jul-12	Round 2	F2	13:16	Bottom	7.3	65.9	4.49	0.6				
2018-Jul-12	Round 2	F2	13:16	Bottom	4.8	66.4	4.52	0.6				
2018-Jul-12	Round 2	C6	12:29	Surface	5.3	91.6	6.07	0.9	● 5.55	● 4.35	● 2.5	● <u>6.12</u>
2018-Jul-12	Round 2	C6	12:29	Surface	4.6	91.5	6.06	0.9				
2018-Jul-12	Round 2	C6	12:28	Middle	6.2	74.4	5.04	3.8				
2018-Jul-12	Round 2	C6	12:28	Middle	7.3	74.2	5.02	4.0				
2018-Jul-12	Round 2	C6	12:27	Bottom	7.0	63.2	4.35	2.7				
2018-Jul-12	Round 2	C6	12:27	Bottom	6.3	63.2	4.35	2.7				
2018-Jul-12	Round 2	C7	12:44	Surface	2.3	91.1	6.02	0.7	● 5.20	● 4.73	● 1.2	● 3.07
2018-Jul-12	Round 2	C7	12:44	Surface	4.3	91.0	6.01	0.7				
2018-Jul-12	Round 2	C7	12:43	Middle	3.0	64.8	4.37	0.8				
2018-Jul-12	Round 2	C7	12:43	Middle	2.3	64.9	4.38	0.7				
2018-Jul-12	Round 2	C7	12:42	Bottom	3.3	69.8	4.73	2.1				
2018-Jul-12	Round 2	C7	12:42	Bottom	3.2	69.9	4.72	2.1				
2018-Jul-12	Round 2	C8	14:08	Surface	4.1	91.6	6.05	0.7	● 5.20	● 4.40	● 2.2	● 5.62
2018-Jul-12	Round 2	C8	14:08	Surface	4.9	91.4	6.04	0.7				
2018-Jul-12	Round 2	C8	14:07	Middle	5.8	63.7	4.35	3.1				
2018-Jul-12	Round 2	C8	14:07	Middle	4.9	63.8	4.37	3.3				
2018-Jul-12	Round 2	C8	14:06	Bottom	7.4	63.8	4.39	2.8				
2018-Jul-12	Round 2	C8	14:06	Bottom	6.6	64.0	4.40	2.8				
2018-Jul-12	Round 2	C9	13:49	Surface	4.5	101.0	6.71	1.2	● 5.89	● 4.52	● 1.8	● 4.15
2018-Jul-12	Round 2	C9	13:49	Surface	4.3	100.8	6.70	1.3				
2018-Jul-12	Round 2	C9	13:48	Middle	5.0	74.6	5.07	1.5				
2018-Jul-12	Round 2	C9	13:48	Middle	3.5	74.4	5.06	1.5				
2018-Jul-12	Round 2	C9	13:47	Bottom	4.6	65.6	4.52	2.7				
2018-Jul-12	Round 2	C9	13:47	Bottom	3.0	65.6	4.51	2.7				

									Surface and Mid-depth Dissolved Oxygen (mg/L)	Bottom Dissolved Oxygen (mg/L)	Depth-Averaged Turbidity (NTU)	Depth-Averaged SS (mg/L)
		TSS (mg/L)	DO Saturation (%)	Dissolved Oxygen (mg/L)	Turbidity (NTU)							
Action Level									<5.76	<5.84	>9.28	>5.69
Limit Level									<u><5.56</u>	<u><5.64</u>	<u>>10.77</u>	<u>>6.23</u>
● Red dot to the left of data point indicates trigger of Limit Level. Values also shown in bold. ● Yellow dot to the left of data point indicates trigger of Action Level. Values also underlined. ● Green dot to the left of data point indicates no exceedance.												
Date	Round	Station	Time	Level								
2018-Jul-12	Round 2	C11	13:37	Surface	4.3	110.4	7.20	1.0	● 5.94	● 5.31	● 2.5	● 4.17
2018-Jul-12	Round 2	C11	13:37	Surface	3.9	109.8	7.16	1.0				
2018-Jul-12	Round 2	C11	13:36	Middle	2.6	67.7	4.69	5.3				
2018-Jul-12	Round 2	C11	13:36	Middle	3.3	68.0	4.72	5.3				
2018-Jul-12	Round 2	C11	13:35	Bottom	4.6	78.5	5.31	1.2				
2018-Jul-12	Round 2	C11	13:35	Bottom	6.3	78.6	5.31	1.2				
2018-Jul-12	Round 2	C13	12:16	Surface	3.7	83.3	5.55	0.8	● 4.82	● 4.10	● 1.9	● 4.98
2018-Jul-12	Round 2	C13	12:16	Surface	2.8	83.1	5.54	0.8				
2018-Jul-12	Round 2	C13	12:15	Middle	3.9	59.3	4.09	2.7				
2018-Jul-12	Round 2	C13	12:15	Middle	6.1	59.4	4.10	2.8				
2018-Jul-12	Round 2	C13	12:14	Bottom	7.1	60.1	4.10	2.3				
2018-Jul-12	Round 2	C13	12:14	Bottom	6.3	60.3	4.10	2.3				
2018-Jul-12	Round 2	G2	14:40	Surface	6.8	112.4	7.42	1.2	● 5.90	● 4.33	● 2.4	● 6.02
2018-Jul-12	Round 2	G2	14:40	Surface	6.2	112.3	7.42	1.2				
2018-Jul-12	Round 2	G2	14:38	Middle	5.6	64.5	4.39	3.1				
2018-Jul-12	Round 2	G2	14:38	Middle	5.2	64.2	4.38	3.3				
2018-Jul-12	Round 2	G2	14:36	Bottom	6.8	63.0	4.31	2.8				
2018-Jul-12	Round 2	G2	14:36	Bottom	5.5	63.4	4.34	2.7				
2018-Jul-12	Round 2	G3	14:17	Surface	3.2	89.2	5.88	0.8	● 5.05	● 4.26	● 1.9	● 3.10
2018-Jul-12	Round 2	G3	14:17	Surface	3.2	88.9	5.86	0.8				
2018-Jul-12	Round 2	G3	14:16	Middle	2.7	62.7	4.22	2.1				
2018-Jul-12	Round 2	G3	14:16	Middle	2.5	62.7	4.23	2.2				
2018-Jul-12	Round 2	G3	14:15	Bottom	3.2	62.2	4.26	2.8				
2018-Jul-12	Round 2	G3	14:15	Bottom	3.8	62.1	4.25	2.7				
2018-Jul-12	Round 2	M3	15:01	Surface	7.0	109.8	7.28	1.6	● 6.29	● 5.09	● 1.7	● 6.57
2018-Jul-12	Round 2	M3	15:01	Surface	5.4	109.6	7.26	1.6				
2018-Jul-12	Round 2	M3	15:00	Middle	8.0	78.6	5.30	1.6				
2018-Jul-12	Round 2	M3	15:00	Middle	6.6	78.6	5.30	1.6				
2018-Jul-12	Round 2	M3	14:59	Bottom	6.4	75.3	5.09	2.0				
2018-Jul-12	Round 2	M3	14:59	Bottom	6.0	75.3	5.09	2.0				

									Surface and Mid-depth Dissolved Oxygen (mg/L)	Bottom Dissolved Oxygen (mg/L)	Depth-Averaged Turbidity (NTU)	Depth-Averaged SS (mg/L)
		TSS (mg/L)	DO Saturation (%)	Dissolved Oxygen (mg/L)	Turbidity (NTU)							
Action Level Limit Level									<5.76	<5.84	>9.28	>5.69
									<u><5.56</u>	<u><5.64</u>	<u>>10.77</u>	<u>>6.23</u>
● Red dot to the left of data point indicates trigger of Limit Level. Values also shown in bold. ● Yellow dot to the left of data point indicates trigger of Action Level. Values also underlined. ● Green dot to the left of data point indicates no exceedance.												
Date	Round	Station	Time	Level								
2018-Jul-12	Round 3	E2	15:48	Surface	4.7	121.8	8.14	1.9	6.31	● 4.43	● 1.8	● 4.72
2018-Jul-12	Round 3	E2	15:48	Surface	4.5	121.6	8.13	1.9				
2018-Jul-12	Round 3	E2	15:47	Middle	4.4	65.8	4.48	1.9				
2018-Jul-12	Round 3	E2	15:47	Middle	3.3	65.8	4.48	1.9				
2018-Jul-12	Round 3	E2	15:46	Bottom	4.9	65.3	4.43	1.6				
2018-Jul-12	Round 3	E2	15:46	Bottom	6.5	65.3	4.43	1.6				
2018-Jul-12	Round 3	F2	17:11	Surface	4.2	102.0	6.74	0.9	● <u>5.47</u>	● 4.24	● 1.5	● 3.87
2018-Jul-12	Round 3	F2	17:11	Surface	4.4	101.7	6.72	0.9				
2018-Jul-12	Round 3	F2	17:10	Middle	3.6	61.1	4.21	1.3				
2018-Jul-12	Round 3	F2	17:10	Middle	4.2	61.3	4.22	2.7				
2018-Jul-12	Round 3	F2	17:09	Bottom	3.7	61.5	4.24	1.6				
2018-Jul-12	Round 3	F2	17:09	Bottom	3.1	61.4	4.24	1.6				
2018-Jul-12	Round 3	C6	16:22	Surface	4.6	124.2	8.23	1.6	7.65	● 5.46	● 2.8	● 5.53
2018-Jul-12	Round 3	C6	16:22	Surface	4.1	123.5	8.18	1.7				
2018-Jul-12	Round 3	C6	16:21	Middle	6.4	106.3	7.10	1.7				
2018-Jul-12	Round 3	C6	16:21	Middle	6.2	106.0	7.08	7.5				
2018-Jul-12	Round 3	C6	16:20	Bottom	6.7	80.0	5.46	2.0				
2018-Jul-12	Round 3	C6	16:20	Bottom	5.2	80.0	5.46	2.0				
2018-Jul-12	Round 3	C7	16:27	Surface	4.6	107.5	7.07	1.4	6.24	● 5.10	● 1.2	● 4.23
2018-Jul-12	Round 3	C7	16:27	Surface	3.3	107.1	7.05	1.4				
2018-Jul-12	Round 3	C7	16:26	Middle	3.0	80.7	5.42	1.3				
2018-Jul-12	Round 3	C7	16:26	Middle	4.7	80.6	5.42	1.3				
2018-Jul-12	Round 3	C7	16:25	Bottom	5.4	75.6	5.10	0.9				
2018-Jul-12	Round 3	C7	16:25	Bottom	4.4	75.6	5.10	0.9				
2018-Jul-12	Round 3	C8	18:00	Surface	3.0	107.1	7.07	1.0	5.95	● 4.76	● 1.4	● 2.78
2018-Jul-12	Round 3	C8	18:00	Surface	2.0	106.8	7.05	1.0				
2018-Jul-12	Round 3	C8	17:59	Middle	2.7	70.8	4.84	1.3				
2018-Jul-12	Round 3	C8	17:59	Middle	3.4	70.8	4.84	1.7				
2018-Jul-12	Round 3	C8	17:58	Bottom	2.8	69.2	4.76	1.7				
2018-Jul-12	Round 3	C8	17:58	Bottom	2.8	69.1	4.76	1.7				
2018-Jul-12	Round 3	C9	17:52	Surface	3.5	111.2	7.32	1.0	6.28	● 4.58	● 2.1	● 4.65
2018-Jul-12	Round 3	C9	17:52	Surface	3.2	110.9	7.30	1.1				
2018-Jul-12	Round 3	C9	17:51	Middle	2.4	78.0	5.27	1.8				
2018-Jul-12	Round 3	C9	17:51	Middle	3.0	77.5	5.24	1.9				
2018-Jul-12	Round 3	C9	17:50	Bottom	7.9	65.8	4.58	3.4				
2018-Jul-12	Round 3	C9	17:50	Bottom	7.9	65.9	4.58	3.3				

									Surface and Mid-depth Dissolved Oxygen (mg/L)	Bottom Dissolved Oxygen (mg/L)	Depth-Averaged Turbidity (NTU)	Depth-Averaged SS (mg/L)
		TSS (mg/L)	DO Saturation (%)	Dissolved Oxygen (mg/L)	Turbidity (NTU)							
Action Level Limit Level									<5.76	<5.84	>9.28	>5.69
									<u><5.56</u>	<u><5.64</u>	<u>>10.77</u>	<u>>6.23</u>
● Red dot to the left of data point indicates trigger of Limit Level. Values also shown in bold. ● Yellow dot to the left of data point indicates trigger of Action Level. Values also underlined. ● Green dot to the left of data point indicates no exceedance.												
Date	Round	Station	Time	Level								
2018-Jul-12	Round 3	C11	17:24	Surface	3.1	108.2	7.15	0.9	5.88	● 4.52	● 2.7	● 6.18
2018-Jul-12	Round 3	C11	17:24	Surface	4.2	108.2	7.14	0.9				
2018-Jul-12	Round 3	C11	17:23	Middle	4.7	66.4	4.61	2.4				
2018-Jul-12	Round 3	C11	17:23	Middle	4.7	66.2	4.60	2.8				
2018-Jul-12	Round 3	C11	17:22	Bottom	11.2	64.9	4.52	4.7				
2018-Jul-12	Round 3	C11	17:22	Bottom	9.2	64.8	4.52	4.7				
2018-Jul-12	Round 3	C13	16:09	Surface	6.4	88.4	5.91	1.2	● 5.48	● 5.08	● 1.3	● 7.15
2018-Jul-12	Round 3	C13	16:09	Surface	8.1	88.3	5.90	1.2				
2018-Jul-12	Round 3	C13	16:08	Middle	6.7	74.2	5.04	1.4				
2018-Jul-12	Round 3	C13	16:08	Middle	6.7	74.3	5.05	1.4				
2018-Jul-12	Round 3	C13	16:07	Bottom	8.2	74.7	5.07	1.4				
2018-Jul-12	Round 3	C13	16:07	Bottom	6.8	74.9	5.09	1.4				
2018-Jul-12	Round 3	G2	18:21	Surface	5.2	110.7	7.37	1.9	6.24	● 4.37	● 3.3	● 8.47
2018-Jul-12	Round 3	G2	18:21	Surface	5.9	109.8	7.32	2.0				
2018-Jul-12	Round 3	G2	18:19	Middle	7.8	74.4	5.14	2.5				
2018-Jul-12	Round 3	G2	18:19	Middle	8.7	74.1	5.12	2.5				
2018-Jul-12	Round 3	G2	18:17	Bottom	11.6	62.6	4.36	5.4				
2018-Jul-12	Round 3	G2	18:17	Bottom	11.6	62.6	4.37	5.3				
2018-Jul-12	Round 3	G3	18:08	Surface	4.6	107.7	7.12	1.2	6.30	● 4.49	● 1.4	● 4.02
2018-Jul-12	Round 3	G3	18:08	Surface	3.9	107.6	7.11	1.3				
2018-Jul-12	Round 3	G3	18:07	Middle	3.2	81.6	5.50	1.1				
2018-Jul-12	Round 3	G3	18:07	Middle	4.2	81.3	5.48	1.1				
2018-Jul-12	Round 3	G3	18:06	Bottom	4.2	65.1	4.49	1.8				
2018-Jul-12	Round 3	G3	18:06	Bottom	4.0	65.2	4.49	1.8				
2018-Jul-12	Round 3	M3	18:43	Surface	4.5	95.9	6.49	1.7	● 5.51	● 4.62	● 2.3	● 5.05
2018-Jul-12	Round 3	M3	18:43	Surface	4.7	95.4	6.45	1.7				
2018-Jul-12	Round 3	M3	18:42	Middle	4.8	65.1	4.53	2.7				
2018-Jul-12	Round 3	M3	18:42	Middle	4.5	65.3	4.55	2.7				
2018-Jul-12	Round 3	M3	18:41	Bottom	6.3	66.5	4.61	2.5				
2018-Jul-12	Round 3	M3	18:41	Bottom	5.5	66.6	4.62	2.5				

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Environmental Resources Management

**2507, 25/F,
One Harbourfont,
18 Tak Fung Street
Hung Hom, Kowloon,
Hong Kong
T: 2271 3000
F: 2723 5660**

www.erm.com

