
South-East Asia Japan Cable System (SJC)

Hong Kong Segment

**Environmental Impact Monitoring and Site
Audit Report**

Week 5

16 July 2012 to 22 July 2012

ATKINS

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EXECUTIVE SUMMARY

The site preparation works for the SJC cable network system commenced on 21 June 2012. Atkins China Limited (ACL) has been appointed as the Environmental Team (ET) to undertake environmental management and monitoring work in accordance with the EM&A Manual.

This is the fifth weekly Environmental Impact Monitoring and Site Audit Report for the works specified in the Environmental Permit (EP-423/2011/A) and Environmental Monitoring and Audit (EM&A) Manual. This report summarises the findings and results of the EM&A during the reporting period of the fifth week of works and covers the reporting period 16 July 2012 to 22 July 2012.

Environmental Monitoring and Audit Progress

The EM&A programme have been undertaken in accordance with the approved EM&A Manual. A summary of the monitoring activities performed in the reporting period is summarised below:

- Weekly site environmental inspection was conducted on 19 July 2012
- Water quality monitoring was conducted on 17 and 19 July 2012 during mid-ebb and mid-flood tide periods.

Exceedance of Action and Limit Levels

The DO Action Level exceedances were recorded at the middle and bottom levels of D4 in the mid-ebb tide on 19th July 2012. Also, a Limit Level exceedance was found at the middle level of the same monitoring station and date. A moderate thermocline and halocline was observed for the exceeding stations, which would limit water exchange with the surface and thus result in depleted oxygen levels measures on the bottom. This is a natural phenomenon common during the summer when surface temperatures are high and surface salinities low compared with bottom waters. Therefore, the exceedance of Limit Level of DO was considered as non-project related.

Complaint Log

No complaints were received in relation to environmental impact during the reporting period.

Site Inspection and Audit

Site inspection for shore based works was carried out on 19 July 2012. No non-compliances were recorded for the reporting period. A summary of findings conducted during the monitoring period is provided below.

19 July 2012

All equipments on beach were cleared.

1. INTRODUCTION

1.1 Background of the Project

- 1.1.1 South-East Asia Japan Cable System (SJC) is a submarine cable system linking South-East Asia to Japan. SJC will provide direct access and diverse routing between Singapore, the Philippines, Hong Kong, China, Brunei and Japan. The cable system will span approx. 8,900km and will be mainly composed of a seven-fibre pair high capacity submarine cable system with a design capacity of 17.9 terabits per second. The project will increase the broadband capacity of Hong Kong.
- 1.1.2 The Project is classified as a Designated Project under Item C12 of Part I Schedule 2 of the Environmental Impact Assessment Ordinance (EIAO): “A *dredging operation which is (a) less than 500 metres from the nearest boundary of an existing or planned (iii) bathing beach; and (vii) coastal protection area*”.
- 1.1.3 In accordance with the EIAO, an environmental assessment was undertaken and a Project Profile was submitted to the Environmental Protection Department (EPD) (PP-444/2011) for an Application for Permission to Apply Directly for Environmental Permit for the project (Application No. DIR-213/2011) (DIR). The DIR was granted by EPD on 1st August 2011 with conditions.
- 1.1.4 Atkins China Limited (ACL) has been appointed as the Environmental Team (ET) to undertake environmental management and monitoring work in accordance with the EM&A Manual.
- 1.1.5 This is the fifth Weekly Environmental Impact Monitoring and Site Audit Report for the works specified in the Environmental Monitoring and Audit (EM&A) Manual. This report summarises the results and findings of the EM&A during the reporting period 16 July 2012 to 22 July 2012.

1.2 Summary of Impact EM&A Requirements

- 1.2.1 The EM&A programme requires environmental monitoring for water quality, marine mammals and construction and demolition waste management, as specified in the EM&A Manual. This shall be conducted accordingly.

1.3 Works Undertaken

- 1.3.1 Cable landing works were commenced on 11 July 2012 and finished on 14 July 2012. All equipments on beach was commenced to clean up since 15 July 2012.
- 1.3.2 Cable laying work was continuously operated from 16 July 2012 to 22 July 2012. The cable was laid and buried from 2.344km to 23.994km during reporting period. The works does not take place between 29 June to 30 2012 due to the bad weather (the typhoon signal no. 3 was issued on 29 June 2012 and typhoon signal no.8 was issued on 30 June 2012).

2. MONITORING RESULTS

2.1 Water Quality

Programme

- 2.1.1 The water quality monitoring programme for this reporting period is presented in Table 2-1.

Table 2-1 – Water Quality Monitoring Programme

| Date of Sampling | Tidal State | Time of Sampling |
|------------------|-------------|------------------|
| 17 July 2012 | Mid-Ebb | 10:30 – 11:10 |
| | Mid-Flood | 18:00 – 18:40 |
| 19 July 2012 | Mid-Ebb | 12:30 – 13:10 |
| | Mid-Flood | 19:00 – 19:40 |

Monitoring Stations

- 2.1.2 Five water quality monitoring stations were sampled during the impact water quality monitoring (see Figure 2-1) and listed in Table 2-2 as follows. These stations are applicable for works undertaken during installation of the cable.

Table 2-2 – Impact Water Quality Monitoring stations

| Monitoring Station | Co-ordinates | | Station Purpose |
|--------------------|--------------|--------|-------------------|
| C | 840081 | 808353 | Control Station |
| D1 | 839429 | 808641 | 100m from point D |
| D2 | 839540 | 808552 | 100m from point D |
| D3 | 839453 | 808443 | 100m from point D |
| D4 | 839344 | 808531 | 100m from point D |

Methodology

- 2.1.3 Water quality monitoring was conducted in accordance with the methodology described in the EM&A Manual.
- 2.1.4 The water quality parameters monitored included dissolved oxygen (DO) (% saturation and mg/L), temperature, turbidity (NTU), salinity and suspended solids (SS). DO, temperature, turbidity and salinity were measured *in-situ* whereas SS was determined by laboratory analysis.
- 2.1.5 The equipment used during monitoring included an YSI SONDE Model no. YSI Sonde 6920 V2 Environmental Monitoring System to measure DO, temperature, turbidity and salinity. All monitoring equipment was checked and calibrated prior to use. The report on the calibration of the equipment is provided in **Annex A**
- 2.1.6 Laboratory analysis of SS was carried out at ALS Laboratory Group, a recognised HOKLAS accredited laboratory.

Results

- 2.1.7 The weather during the monitoring period is sunny. The impact monitoring results at each monitoring locations are provided in full in **Annex B**.
- 2.1.8 The impact monitoring data on 17 and 19 July 2012 and laboratory results at each monitoring location are provided in full in **Annex B**. The recorded field transcripts of the impact monitoring data were checked in hard copy with the electronic version of the results and were found to be accurate. The result of the impact monitoring data at each monitoring location are summarised in **Tables 2-3 to 2-6**.

Mid-Ebb Results

Table 2-3 – Summary of Water Quality Data on 17 July 2012 – Mid-Ebb

| Station | Depth | Data Results for Mid Ebb | | | | | |
|------------------------------|----------|--------------------------|----------------|-----------|---------|-----------------|-----------------------|
| | | Temperature (°C) | Salinity (ppt) | DO (mg/L) | DOS (%) | Turbidity (NTU) | Suspended Solids (SS) |
| Control Stations | | | | | | | |
| C | s | N/A | N/A | N/A | N/A | N/A | N/A |
| | m | 30.2* | 20.8* | 8.5* | 126.8* | 1.3* | 4* |
| | b | N/A | N/A | N/A | N/A | N/A | N/A |
| Marine-based Stations | | | | | | | |
| D1 | s | N/A | N/A | N/A | N/A | N/A | N/A |
| | m | 30.2 | 21.1 | 8.4 | 124.8 | 2.0 | 6 |
| | b | N/A | N/A | N/A | N/A | N/A | N/A |
| D2 | s | 30.2 | 21.0 | 8.3 | 122.8 | 1.8 | 4 |
| | m | N/A | N/A | N/A | N/A | N/A | N/A |
| | b | 29.6 | 21.5 | 8.2 | 121.8 | 3.6 | 3 |
| D3 | s | 30.0 | 21.2 | 8.7 | 129.6 | 1.5 | 4 |
| | m | N/A | N/A | N/A | N/A | N/A | N/A |
| | b | 29.2 | 22.1 | 8.2 | 121.3 | 2.4 | 4 |
| D4 | s | N/A | N/A | N/A | N/A | N/A | N/A |
| | m | 30.1 | 21.2 | 8.4 | 124.2 | 1.8 | 6 |
| | b | N/A | N/A | N/A | N/A | N/A | N/A |

Notes: *s* – 1 m below the surface; *m* – mid depth; *b* – 1 m above the seabed

XX: Limit Level Exceedance; **XX**: Action Level Exceedance

* – Average value of duplicate sample

Table 2-4 – Summary of Water Quality Data on 19 July 2012 – Mid-Ebb

| Station | Depth | Data Results for Mid Ebb | | | | | |
|-------------------------|----------|--------------------------|----------------|------------|---------|-----------------|-----------------------|
| | | Temperature (oC) | Salinity (ppt) | DO (mg/L) | DOS (%) | Turbidity (NTU) | Suspended Solids (SS) |
| Control Stations | | | | | | | |
| C | s | N/A | N/A | N/A | N/A | N/A | N/A |
| | m | 29.0* | 24.3* | 7.5* | 110.5* | 1.1* | 2* |
| | b | N/A | N/A | N/A | N/A | N/A | N/A |
| Marine-based Stations | | | | | | | |
| D1 | s | N/A | N/A | N/A | N/A | N/A | N/A |
| | m | 26.6 | 28.2 | 4.8 | 70.4 | 1.9 | 2 |
| | b | N/A | N/A | N/A | N/A | N/A | N/A |
| D2 | s | 29.3 | 24.9 | 7.0 | 105.3 | 1.5 | <2 |
| | m | N/A | N/A | N/A | N/A | N/A | N/A |
| | b | 24.7 | 31.4 | 2.7 | 38.2 | 2.6 | <2 |
| D3 | s | 28.6 | 25.3 | 7.0 | 103.5 | 1.6 | 2 |
| | m | N/A | N/A | N/A | N/A | N/A | N/A |
| | b | 25.4 | 30.2 | 3.0 | 44.1 | 1.9 | 2 |
| D4 | s | N/A | N/A | N/A | N/A | N/A | N/A |
| | m | 27.2 | 27.1 | 6.2 | 91.2 | 1.8 | 2 |
| | b | N/A | N/A | N/A | N/A | N/A | N/A |

Notes: s – 1 m below the surface; m – mid depth; b – 1 m above the seabed

XX: Limit Level Exceedance; **XX**: Action Level Exceedance

* – Average value of duplicate sample

Mid-Ebb Results Summary

- 2.1.9 During mid-ebb survey, the range of DO level from 2.7mg/L to 8.5mg/L with a saturation level from 38.2% to 126.8%. The range of turbidity measurement was 1.1 to 3.6 NTU with SS content from <2 mg/L to 6 mg/L. The recorded temperature was within the expected range and values for these waters during the time of monitoring.
- 2.1.10 The DO Action Level exceedances were found on the middle and bottom levels at station D1, D2 and D3. Also, a Limit Level exceedance was found at the middle level of D4. A moderate thermocline and halocline was observed for the exceeding stations, which would limit water exchange with the surface and thus result in depleted oxygen levels measures on the bottom. This is a natural phenomenon common during the summer when surface temperatures are high and surface salinities low compared with bottom waters. Therefore, the exceedance of Limit Level of DO was considered non-project related.

Mid-Flood Results

Table 2-5 – Summary of Water Quality Data on 17 July 2012 – Mid-Flood

| Station | Depth | Data Results for Mid Flood | | | | | |
|------------------------------|----------|----------------------------|----------------|-----------|---------|-----------------|-----------------------|
| | | Temperature (oC) | Salinity (ppt) | DO (mg/L) | DOS (%) | Turbidity (NTU) | Suspended Solids (SS) |
| Control Stations | | | | | | | |
| C | s | N/A | N/A | N/A | N/A | N/A | N/A |
| | m | 30.5* | 21.2* | 9.4* | 141.0* | 1.7* | 4.5* |
| | b | N/A | N/A | N/A | N/A | N/A | N/A |
| Marine-based Stations | | | | | | | |
| D1 | s | N/A | N/A | N/A | N/A | N/A | N/A |
| | m | 30.3 | 21.5 | 9.4 | 140.6 | 2.4 | 4 |
| | b | N/A | N/A | N/A | N/A | N/A | N/A |
| D2 | s | 30.2 | 21.5 | 10.2 | 152.3 | 1.6 | 6 |
| | m | N/A | N/A | N/A | N/A | N/A | N/A |
| | b | 29.3 | 22.1 | 9.5 | 139.8 | 2.0 | 4 |
| D3 | s | 30.2 | 21.5 | 9.7 | 145.4 | 2.1 | 6 |
| | m | N/A | N/A | N/A | N/A | N/A | N/A |
| | b | 29.5 | 21.9 | 9.7 | 144.1 | 1.9 | 6 |
| D4 | s | N/A | N/A | N/A | N/A | N/A | N/A |
| | m | 30.4 | 21.4 | 9.6 | 144.4 | 2.0 | 6 |
| | b | N/A | N/A | N/A | N/A | N/A | N/A |

Notes: s – 1 m below the surface; m – mid depth; b – 1 m above the seabed

XX: Limit Level Exceedance; **XX**: Action Level Exceedance

* – Average value of duplicate sample

Table 2-6 – Summary of Water Quality Data on 19 July 2012 – Mid-Flood

| Station | Depth | Data Results for Mid Flood | | | | | |
|------------------------------|----------|----------------------------|----------------|-----------|---------|-----------------|-----------------------|
| | | Temperature (oC) | Salinity (ppt) | DO (mg/L) | DOS (%) | Turbidity (NTU) | Suspended Solids (SS) |
| Control Stations | | | | | | | |
| C | s | N/A | N/A | N/A | N/A | N/A | N/A |
| | m | 30.1* | 23.8* | 9.1* | 137.5* | 1.3* | 3.5* |
| | b | N/A | N/A | N/A | N/A | N/A | N/A |
| Marine-based Stations | | | | | | | |
| D1 | s | N/A | N/A | N/A | N/A | N/A | N/A |
| | m | 28.9 | 25.3 | 8.5 | 126.6 | 2.1 | 4 |
| | b | N/A | N/A | N/A | N/A | N/A | N/A |
| D2 | s | 28.8 | 25.3 | 8.4 | 125.8 | 1.7 | <2 |
| | m | N/A | N/A | N/A | N/A | N/A | N/A |
| | b | 27.8 | 26.6 | 7.2 | 106.0 | 3.0 | 6 |
| D3 | s | 28.8 | 25.3 | 8.4 | 124.4 | 2.0 | 4 |
| | m | N/A | N/A | N/A | N/A | N/A | N/A |
| | b | 27.7 | 26.8 | 7.4 | 109.5 | 1.5 | 6 |
| D4 | s | N/A | N/A | N/A | N/A | N/A | N/A |
| | m | 29.1 | 25.1 | 8.7 | 129.6 | 1.7 | <2 |
| | b | N/A | N/A | N/A | N/A | N/A | N/A |

Notes: s – 1 m below the surface; m – mid depth; b – 1 m above the seabed

XX: Limit Level Exceedance; **XX**: Action Level Exceedance

* – Average value of duplicate sample

Mid-Flood Results Summary

2.1.11 During mid-flood survey, the range of DO level from 7.2mg/L to 10.2mg/L with a saturation level from 106.0% to 152.3%. The range of turbidity measurement was 1.3 to 3.0 NTU with SS content from <2 mg/L to 6 mg/L. The recorded temperature

was within the expected range and values for these waters during the time of monitoring.

2.1.12 No DO Limit and Action Levels exceedances were found of surface, middle and bottom levels.

2.2 Marine Mammals

2.2.1 The marine works within marine mammals inspection area in accordance with the EM&A manual were undertaken from the 20 July 2012 to 21 July 2012. This took place during cable laying works by injection jetting method on 20 July 2012 and 21 July 2012. No marine mammals were observed during the monitoring period.

2.3 Construction and Demolition Waste Management

2.3.1 Weekly environmental site inspection was undertaken on 19 July 2012.

3. ENVIRONMENTAL NON-COMPLIANCE AND COMPLAINTS

3.1 Environmental Exceedances

Water Quality

3.1.1 Water quality monitoring was conducted on 17 and 19 July 2012. During mid-ebb tide, the DO Action Level exceedances were recorded at the middle and bottom levels of D4 on 19th July 2012. On the same date and monitoring station, a Limit Level exceedance was found at the middle level. A moderate thermocline and halocline was observed for the exceeding stations, which would limit water exchange with the surface and thus result in depleted oxygen levels measures on the bottom. This is a natural phenomenon common during the summer when surface temperatures are high and surface salinities low compared with bottom waters. Therefore, the exceedance of Limit Level of DO was considered non-project related.

3.2 Site Inspections

3.2.1 Site inspections for shore based works were carried out on 19 July 2012 as appropriate. No non-compliances were recorded for the reporting period. A summary of findings conducted during the monitoring period is provided in Table 3-1.

Table 3-1 – Summary of Environmental Site Inspections

| Date of Inspection | Observation | Action |
|---------------------------|---|---------------|
| 19 July 2012 | General refuses were found in the shore area but it is not project-related. | Nil. |

Photo 1: All equipments on beach were cleared.



3.3 Environmental Complaint

- 3.3.1 No complaints were received in relation to environmental impact during the reporting period.

4. FORECAST AND SCHEDULE

4.1 Key Engineering Works for the Coming Week

- Cable lay and burial operation.

4.2 Monitoring Schedule for the Coming Week

Water Quality Monitoring

- 4.2.1 No marine works shall be carried out in the Stanley Bay in the coming week. Therefore, no water quality monitoring shall be conducted in the coming week.

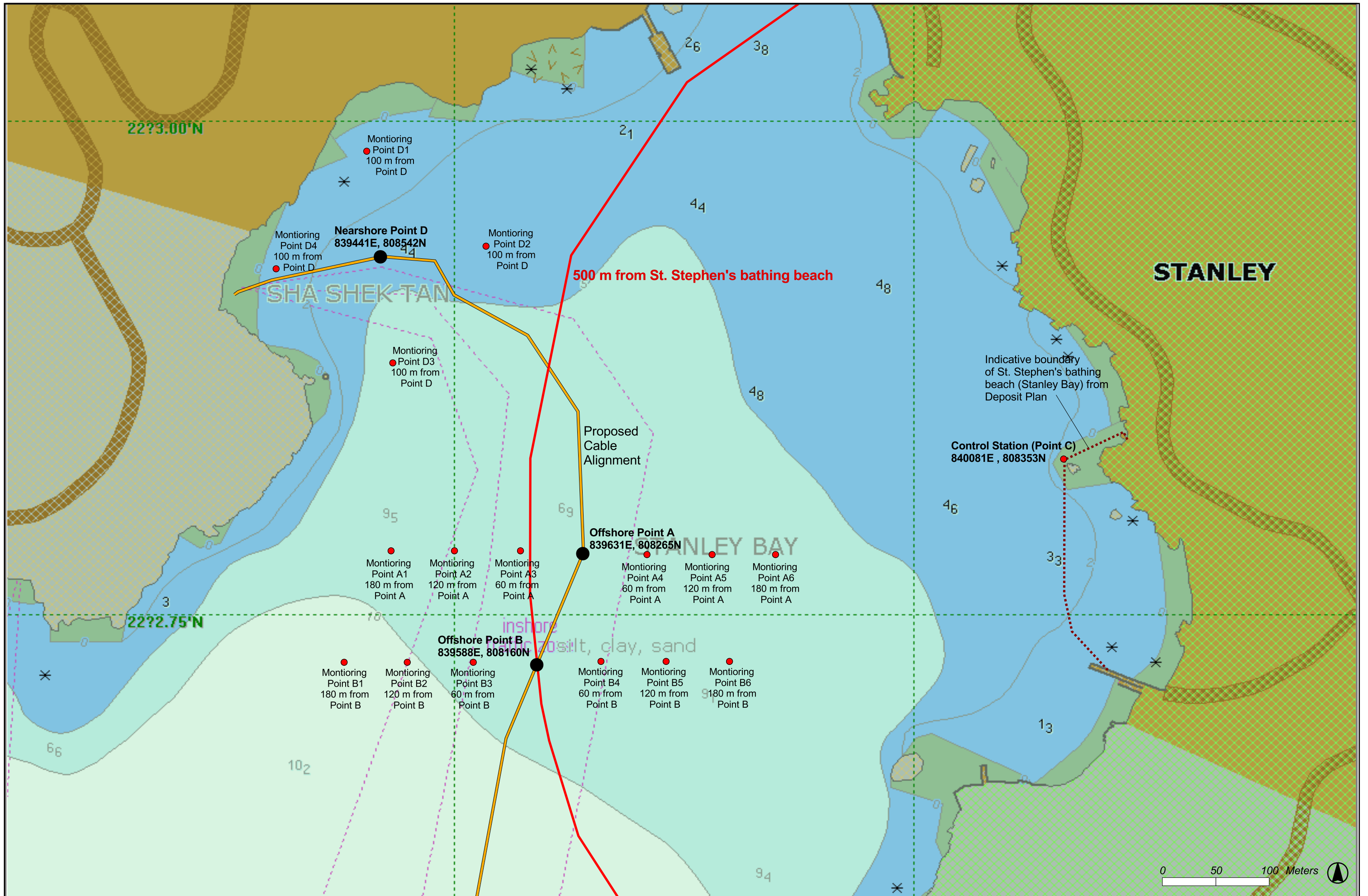
Marine Mammal Inspection

- 4.2.2 The marine works in the marine mammals inspection area were completed on 21 July 2012. No marine mammals shall be carried out in coming week.

5. CONCLUSION

- 5.1.1 This is the fifth weekly Environmental Impact Monitoring and Site Audit Report prepared by Atkins China Limited (ACL), for the consultancy services for the south-East Asia Japan Cable System (SJC) Project. This report been prepared in compliance with the Environmental Permit (EP-423 / 2011 /A) and associated EM&A Manual, and covers the reporting period 16 July 2012 to 22 July 2012.
- 5.1.2 Water quality monitoring was conducted on 17 and 19 July 2012 during reporting period.
- 5.1.3 Site inspection was carried out as appropriate with no non-compliances recorded for the reporting period. During site inspection on 19 July 2012, general refuses were found in the shore area but it is not project-related.
- 5.1.4 The DO Action Level exceedances were found on the middle and bottom levels at station D1, D2 and D3. Also, a Limit Level exceedance was found at the middle level of D4. A moderate thermocline and halocline was observed for the exceeding stations, which would limit water exchange with the surface and thus result in depleted oxygen levels measures on the bottom. This is a natural phenomenon common during the summer when surface temperatures are high and surface salinities low compared with bottom waters. Therefore, the exceedance of Limit Level of DO was considered non-project related.
- 5.1.5 The marine works within marine mammals inspection area in accordance with the EM&A manual were undertaken from the 20 July 2012 to 21 July 2012. This took place during cable laying works by injection jetting method on 20 July 2012 and 21 July 2012. No marine mammals were observed during the monitoring period
- 5.1.6 Overall, environmental impacts arising from the project activities have been controlled and properly rectified.

Figures



Annex A

Calibration Certificates for Water Quality Monitoring Equipment



ALS Technichem (HK) Pty Ltd

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

CONTACT: MR IVAN LEUNG
CLIENT: ALS TECHNICHEM (HK) PTY LTD
ADDRESS: 11/F., CHUNG SHUN KNITTING CENTRE,
1-3 WING YIP STREET,
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N.T., HONG KONG

WORK ORDER: HK1210017
LABORATORY: HONG KONG
DATE RECEIVED: 17/04/2012
DATE OF ISSUE: 20/04/2012

COMMENTS

It is certified that the item under calibration/checking has been calibrated/checked by corresponding calibrated equipment in the laboratory.
Maximum Tolerance and calibration frequency stated in the report, unless otherwise stated, the internal acceptance criteria of ALS will be followed.

Scope of Test: Conductivity, Dissolved Oxygen, pH, Salinity, Temperature and Turbidity
Description: YSI Sonde
Brand Name: YSI
Model No.: 6920 V2
Serial No.: 11F100014
Equipment No.: --
Date of Calibration: 18 April, 2012

NOTES

This is the Final Report and supersedes any preliminary report with this batch number.
Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.

ISSUING LABORATORY: HONG KONG

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Mr Chan Kwok Fai, Godfrey
Laboratory Manager - Hong Kong

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REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

Work Order: HK1210017
Date of Issue: 20/04/2012
Client: ALS TECHNICHEM (HK) PTY LTD



Description: YSI Sonde
Brand Name: YSI
Model No.: 6920 V2
Serial No.: 11F100014
Equipment No.: --

Date of Calibration: 18 April, 2012 **Date of next Calibration:** 18 July, 2012

Parameters:

Conductivity

Method Ref: APHA (21st edition), 2510B

| Expected Reading (mS/cm) | Displayed Reading (mS/cm) | Tolerance (%) |
|--------------------------|----------------------------|---------------|
| 0.1469 | 0.143 | -2.7 |
| 6.667 | 6.478 | -2.8 |
| 12.890 | 12.72 | -1.3 |
| 58.670 | 56.04 | -4.5 |
| | Tolerance Limit (%) | 10.0 |

Dissolved Oxygen

Method Ref: APHA (21st edition), 4500O: G

| Expected Reading (mg/L) | Displayed Reading (mg/L) | Tolerance (mg/L) |
|-------------------------|--------------------------|------------------|
| 5.35 | 5.26 | -0.09 |
| 6.29 | 6.33 | 0.04 |
| 8.25 | 8.39 | 0.14 |
| | Tolerance Limit (±mg/L) | 0.20 |

pH Value

Method Ref: APHA 21st Ed. 4500H:B

| Expected Reading (pH Unit) | Displayed Reading (pH Unit) | Tolerance (pH unit) |
|----------------------------|-----------------------------|---------------------|
| 4.0 | 4.01 | 0.01 |
| 7.0 | 7.10 | 0.10 |
| 10.0 | 10.10 | 0.10 |
| | Tolerance Limit (±unit) | 0.2 |

Salinity

Method Ref: APHA (21st edition), 2520B

| Expected Reading (NTU) | Displayed Reading (NTU) | Tolerance (%) |
|------------------------|-------------------------|---------------|
| 0 | 0 | -- |
| 10 | 10.26 | 2.6 |
| 20 | 20.59 | 3.0 |
| 30 | 31.10 | 3.7 |
| | Tolerance Limit (±%) | 10.0 |


 Mr. Chan Kwok Fai, Godfrey
 Laboratory Manager - Hong Kong

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION



Work Order: HK1210017
Date of Issue: 20/04/2012
Client: ALS TECHNICHEM (HK) PTY LTD

Description: YSI Sonde
Brand Name: YSI
Model No.: 6920 V2
Serial No.: 11F100014
Equipment No.: --

Date of Calibration: 18 April, 2012 **Date of next Calibration:** 18 July, 2012

Parameters:

Temperature

Method Ref: Section 6 of International Accreditation New Zealand Technical

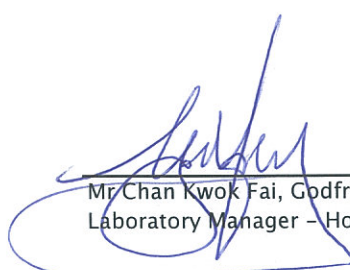
Guide No. 3 Second edition March 2008: Working Thermometer Calibration Procedure.

| Expected Reading (°C) | Displayed Reading (°C) | Tolerance (°C) |
|-----------------------|------------------------|----------------|
| 13.5 | 13.11 | -0.4 |
| 22.5 | 21.96 | -0.5 |
| 39.0 | 38.78 | -0.2 |
| | Tolerance Limit (°C) | 2.0 |

Turbidity

Method Ref: APHA (21st edition), 2130B

| Expected Reading (NTU) | Displayed Reading (NTU) | Tolerance (%) |
|------------------------|-------------------------|---------------|
| 0 | 0.6 | -- |
| 4 | 4.2 | 5.0 |
| 10 | 10.6 | 6.0 |
| 20 | 20.4 | 2.0 |
| 50 | 51.7 | 3.4 |
| 100 | 101.2 | 1.2 |
| | Tolerance Limit (±%) | 10.0 |


 Mr Chan Kwok Fai, Godfrey
 Laboratory Manager - Hong Kong

Annex B

Water Quality Monitoring Data and Result

Project Name: Stanley Bay marine water monitoring

Date of Monitoring: 17/07/2012

Weather : Fine

Tide: Ebb

Sea Condition: Calm

| Monitoring Equipment | Equipment No. |
|----------------------|---------------|
| YSI Sonde 6920 V2 | |
| | |

| Monitoring Location | Time | Water Depth (m) | Sampling Depth (m) | Temperature (oC) | Salinity (ppt) | DO (mg/L) | DOS (%) | Turbidity (NTU) |
|---------------------|-------|-----------------|--------------------|------------------|----------------|-----------|---------|-----------------|
| C | 10:30 | 2.2 | | | | | | |
| | | | 1.1 | 30.2 | 20.8 | 8.5 | 126.8 | 1.3 |
| | | | | | | | | |
| D1 | 10:40 | 2.4 | | | | | | |
| | | | 1.2 | 30.2 | 21.1 | 8.4 | 124.8 | 2.0 |
| | | | | | | | | |
| D2 | 10:50 | 5.1 | 1.0 | 30.2 | 21.0 | 8.3 | 122.8 | 1.8 |
| | | | | | | | | |
| | | | 4.1 | 29.6 | 21.5 | 8.2 | 121.8 | 1.8 |
| D3 | 11:00 | 5.3 | 1.0 | 30.0 | 21.2 | 8.7 | 129.6 | 1.5 |
| | | | | | | | | |
| | | | 4.3 | 29.2 | 22.1 | 8.2 | 121.3 | 2.4 |
| D4 | 11:10 | 2.6 | | | | | | |
| | | | 1.3 | 30.1 | 21.2 | 8.4 | 124.2 | 1.8 |
| | | | | | | | | |
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| | | | | | | | | |
| | | | | | | | | |

Project Name: Stanley Bay marine water monitoring

Date of Monitoring: 17/07/2012

Weather : Fine

Tide: Flood

Sea Condition: Calm

| Monitoring Equipment | Equipment No. |
|----------------------|---------------|
| YSI Sonde 6920 V2 | |
| | |

| Monitoring Location | Time | Water Depth (m) | Sampling Depth (m) | Temperature (oC) | Salinity (ppt) | DO (mg/L) | DOS (%) | Turbidity (NTU) |
|---------------------|-------|-----------------|--------------------|------------------|----------------|-----------|---------|-----------------|
| C | 18:00 | 2.4 | | | | | | |
| | | | 1.2 | 30.4 | 21.2 | 9.4 | 141.0 | 1.7 |
| | | | | | | | | |
| D1 | 18:10 | 2.5 | | | | | | |
| | | | 1.3 | 30.3 | 21.5 | 9.4 | 140.6 | 2.4 |
| | | | | | | | | |
| D2 | 18:20 | 5.2 | 1.0 | 30.2 | 21.5 | 10.2 | 152.3 | 1.6 |
| | | | | | | | | |
| | | | 4.2 | 29.3 | 22.1 | 9.5 | 139.8 | 2.0 |
| D3 | 18:30 | 5.4 | 1.0 | 30.2 | 21.5 | 9.7 | 145.4 | 2.1 |
| | | | | | | | | |
| | | | 4.4 | 29.5 | 21.9 | 9.7 | 144.1 | 1.9 |
| D4 | 18:40 | 2.5 | | | | | | |
| | | | 1.3 | 30.4 | 21.4 | 9.6 | 144.4 | 2.0 |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |



CERTIFICATE OF ANALYSIS

| | | | | | |
|---------------------|---|---------------------|--|-----------------------|--------------------|
| <i>Client</i> | : ATKINS CHINA LTD | <i>Laboratory</i> | : ALS Technichem HK Pty Ltd | <i>Page</i> | : 1 of 3 |
| <i>Contact</i> | : MS ENID YUNG | <i>Contact</i> | : Chan Kwok Fai, Godfrey | <i>Work Order</i> | : HK1217798 |
| <i>Address</i> | : 5TH FLOOR, WHARF T&T CENTRE, HARBOUR CITY, TSIM SHA TSUI 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> | : enid.yung@atkinglobal.com | <i>E-mail</i> | : Godfrey.Chan@alsglobal.com | | |
| <i>Telephone</i> | : +852 2972 1802 | <i>Telephone</i> | : +852 2610 1044 | | |
| <i>Facsimile</i> | : +852 2890 6343 | <i>Facsimile</i> | : +852 2610 2021 | | |
| <i>Project</i> | : QUOTATION OF WATER TEST - STANLEY | <i>Quote number</i> | : --- | <i>Date received</i> | : 17-JUL-2012 |
| <i>Order number</i> | : --- | | | <i>Date of issue</i> | : 26-JUL-2012 |
| <i>C-O-C number</i> | : --- | | | <i>No. of samples</i> | - Received : 16 |
| <i>Site</i> | : STANLEY BAY | | | | - Analysed : 16 |

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK1217798 supersedes any previous reports with this reference. The completion date of analysis is 26-JUL-2012. 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 HK1217798 :
Sample(s) were collected by ALS Technichem (HK) staff on 17 July, 2012.
Water sample(s) analysed and reported on an as received basis.
Temperature, Salinity, Dissolved Oxygen and Turbidity were measured on-site by ALS Technichem (HK) staff.

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



Analytical Results

Sub-Matrix: MARINE WATER

| Client sample ID | Client sampling date / time | Laboratory sample ID | Compound | EA025: Suspended Solids (SS) | EA012-SAMP: Temperature | EA020-SAMP: Salinity | EA045-SAMP: Turbidity | EP025-SAMP: Dissolved Oxygen |
|-----------------------|-----------------------------|----------------------|--|------------------------------|-------------------------|-------------------------|-------------------------|------------------------------|
| | | | LOR Unit | 2 mg/L | 0.1 °C | 0.1 g/L | 1 NTU | 0.1 mg/L |
| | | | EA/ED: Physical and Aggregate Properties | OS: On-Site Measurement | OS: On-Site Measurement | OS: On-Site Measurement | OS: On-Site Measurement | OS: On-Site Measurement |
| D1-M MID-EBB | 17-JUL-2012 10:40 | HK1217798-001 | | 5 | 30.2 | 21.1 | 2 | 8.4 |
| D2-S MID-EBB | 17-JUL-2012 10:50 | HK1217798-002 | | 4 | 30.2 | 21.0 | 2 | 8.3 |
| D2-B MID-EBB | 17-JUL-2012 10:50 | HK1217798-003 | | 3 | 29.6 | 21.5 | 2 | 8.2 |
| D3-S MID-EBB | 17-JUL-2012 11:00 | HK1217798-004 | | 4 | 30.0 | 21.2 | 2 | 8.7 |
| D3-B MID-EBB | 17-JUL-2012 11:00 | HK1217798-005 | | 4 | 29.2 | 22.1 | 2 | 8.2 |
| D4-M MID-EBB | 17-JUL-2012 11:10 | HK1217798-006 | | 5 | 30.1 | 21.2 | 2 | 8.4 |
| D1-M MID-FLOOD | 17-JUL-2012 18:10 | HK1217798-007 | | 4 | 30.3 | 21.5 | 2 | 9.4 |
| D2-S MID-FLOOD | 17-JUL-2012 18:20 | HK1217798-008 | | 5 | 30.2 | 21.5 | 2 | 10.2 |
| D2-B MID-FLOOD | 17-JUL-2012 18:20 | HK1217798-009 | | 4 | 29.3 | 22.1 | 2 | 9.5 |
| D3-S MID-FLOOD | 17-JUL-2012 18:30 | HK1217798-010 | | 5 | 30.2 | 21.5 | 2 | 9.7 |
| D3-B MID-FLOOD | 17-JUL-2012 18:30 | HK1217798-011 | | 5 | 29.5 | 21.9 | 2 | 9.7 |
| D4-M MID-FLOOD | 17-JUL-2012 18:40 | HK1217798-012 | | 5 | 30.4 | 21.4 | 2 | 9.6 |
| C-M-E | 17-JUL-2012 10:30 | HK1217798-013 | | 4 | 30.2 | 20.8 | 1 | 8.5 |
| C-M-F | 17-JUL-2012 18:00 | HK1217798-014 | | 5 | 30.4 | 21.2 | 2 | 9.4 |
| C-M-E FIELD DUPLICATE | [17-JUL-2012] | HK1217798-015 | | 4 | 30.2 | 20.8 | 1 | 8.5 |
| C-M-F FIELD DUPLICATE | [17-JUL-2012] | HK1217798-016 | | 3 | 30.5 | 21.2 | 2 | 9.4 |



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: 2421140) | | | | | | | | |
| HK1217798-001 | D1-M MID-EBB | EA025: Suspended Solids (SS) | ---- | 2 | mg/L | 5 | 4 | 0.0 |
| HK1217798-011 | D3-B MID-FLOOD | EA025: Suspended Solids (SS) | ---- | 2 | mg/L | 5 | 6 | 25.5 |

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 Concentration | Spike Recovery (%) | | Recovery Limits (%) | | RPDs (%) | |
| | | | | | | LCS | DCS | Low | High | Value | Control Limit |
| EA/ED: Physical and Aggregate Properties (QCLot: 2421140) | | | | | | | | | | | |
| EA025: Suspended Solids (SS) | ---- | 2 | mg/L | <2 | 20 mg/L | 101 | ---- | 85 | 113 | ---- | ---- |

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

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

Project Name: Stanley Bay marine water monitoring

Date of Monitoring: 19/07/2012

Weather : Sunny

Tide: Ebb

Sea Condition: Calm

| Monitoring Equipment | Equipment No. |
|----------------------|---------------|
| YSI Sonde 6920 V2 | |
| | |

| Monitoring Location | Time | Water Depth (m) | Sampling Depth (m) | Temperature (oC) | Salinity (ppt) | DO (mg/L) | DOS (%) | Turbidity (NTU) |
|---------------------|-------|-----------------|--------------------|------------------|----------------|-----------|---------|-----------------|
| C | 12:30 | 2.3 | | | | | | |
| | | | 1.2 | 29.7 | 23.1 | 7.8 | 116.2 | 1.0 |
| D1 | 12:50 | 2.4 | | | | | | |
| | | | 1.2 | 26.6 | 28.2 | 4.8 | 70.4 | 1.9 |
| D2 | 13:00 | 5.2 | 1.0 | 29.3 | 24.9 | 7.0 | 105.3 | 1.5 |
| | | | 4.2 | 24.7 | 31.4 | 2.7 | 38.2 | 2.6 |
| D3 | 13:10 | 5.1 | 1.0 | 28.6 | 25.3 | 7.0 | 103.5 | 1.6 |
| | | | 4.1 | 25.4 | 30.2 | 3.0 | 44.1 | 1.9 |
| D4 | 12:40 | 2.6 | | | | | | |
| | | | 1.3 | 27.2 | 27.1 | 6.2 | 91.2 | 1.8 |
| | | | | | | | | |
| | | | | | | | | |

Project Name: Stanley Bay marine water monitoring

Date of Monitoring: 19/07/2012

Weather : Sunny

Tide: Ebb

Sea Condition: Calm

| Monitoring Equipment | Equipment No. |
|----------------------|---------------|
| YSI Sonde 6920 V2 | |
| | |

| Monitoring Location | Time | Water Depth (m) | Sampling Depth (m) | Temperature (oC) | Salinity (ppt) | DO (mg/L) | DOS (%) | Turbidity (NTU) |
|---------------------|-------|-----------------|--------------------|------------------|----------------|-----------|---------|-----------------|
| C | 19:00 | 2.4 | | | | | | |
| | | | 1.2 | 30.1 | 23.7 | 9.1 | 137.7 | 1.3 |
| D1 | 19:20 | 2.3 | | | | | | |
| | | | 1.2 | 28.9 | 25.3 | 8.5 | 126.6 | 2.1 |
| D2 | 19:30 | 5.1 | 1.0 | 28.8 | 25.3 | 8.4 | 125.8 | 1.7 |
| | | | 4.1 | 27.8 | 26.6 | 7.2 | 106.0 | 3.0 |
| D3 | 19:40 | 5.6 | 1.0 | 28.8 | 25.3 | 8.4 | 124.4 | 3.1 |
| | | | 4.6 | 27.7 | 26.8 | 7.4 | 109.5 | 1.5 |
| D4 | 19:10 | 2.2 | | | | | | |
| | | | 1.1 | 29.1 | 25.1 | 8.7 | 129.6 | 1.7 |
| | | | | | | | | |
| | | | | | | | | |



CERTIFICATE OF ANALYSIS

| | | | | | |
|---------------------|---|---------------------|--|-----------------------|------------------------|
| <i>Client</i> | : ATKINS CHINA LTD | <i>Laboratory</i> | : ALS Technichem HK Pty Ltd | <i>Page</i> | : 1 of 3 |
| <i>Contact</i> | : MS ENID YUNG | <i>Contact</i> | : Chan Kwok Fai, Godfrey | <i>Work Order</i> | : HK1219037 |
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| <i>Telephone</i> | : +852 2972 1802 | <i>Telephone</i> | : +852 2610 1044 | | |
| <i>Facsimile</i> | : +852 2890 6343 | <i>Facsimile</i> | : +852 2610 2021 | | |
| <i>Project</i> | : QUOTATION OF WATER TEST - STANLEY | <i>Quote number</i> | : --- | <i>Date received</i> | : 19-JUL-2012 |
| <i>Order number</i> | : --- | | | <i>Date of issue</i> | : 30-JUL-2012 |
| <i>C-O-C number</i> | : --- | | | <i>No. of samples</i> | - <i>Received</i> : 16 |
| <i>Site</i> | : STANLEY BAY | | | | - <i>Analysed</i> : 16 |

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK1219037 supersedes any previous reports with this reference. The completion date of analysis is 30-JUL-2012. 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 HK1219037 :
Sample(s) were collected by ALS Technichem (HK) staff on 19 July, 2012.
Water sample(s) analysed and reported on an as received basis.
Temperature, Salinity, Dissolved Oxygen and Turbidity were measured on-site by ALS Technichem (HK) staff.

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



Analytical Results

Sub-Matrix: MARINE WATER

| Client sample ID | Client sampling date / time | Laboratory sample ID | Compound | EA025: Suspended Solids (SS) | EA012-SAMP: Temperature | EA020-SAMP: Salinity | EA045-SAMP: Turbidity | EP025-SAMP: Dissolved Oxygen |
|-----------------------|-----------------------------|----------------------|--|------------------------------|-------------------------|-------------------------|-------------------------|------------------------------|
| | | | LOR Unit | 2 mg/L | 0.1 °C | 0.1 g/L | 1 NTU | 0.1 mg/L |
| | | | EA/ED: Physical and Aggregate Properties | OS: On-Site Measurement | OS: On-Site Measurement | OS: On-Site Measurement | OS: On-Site Measurement | OS: On-Site Measurement |
| C-M MID-EBB | 19-JUL-2012 12:30 | HK1219037-001 | | 2 | 29.7 | 23.1 | 1 | 7.8 |
| D1-M MID-EBB | 19-JUL-2012 12:50 | HK1219037-002 | | 2 | 26.6 | 28.2 | 2 | 4.8 |
| D2-S MID-EBB | 19-JUL-2012 13:00 | HK1219037-003 | | <2 | 29.3 | 24.9 | 2 | 7.0 |
| D2-B MID-EBB | 19-JUL-2012 13:00 | HK1219037-004 | | <2 | 24.7 | 31.4 | 3 | 2.7 |
| D3-S MID-EBB | 19-JUL-2012 13:10 | HK1219037-005 | | 2 | 28.6 | 25.3 | 2 | 7.0 |
| D3-B MID-EBB | 19-JUL-2012 13:10 | HK1219037-006 | | 2 | 25.4 | 30.2 | 2 | 3.0 |
| D4-M MID-EBB | 19-JUL-2012 12:40 | HK1219037-007 | | 2 | 27.2 | 27.1 | 2 | 6.2 |
| C-M MID-FLOOD | 19-JUL-2012 19:00 | HK1219037-008 | | 2 | 30.1 | 23.7 | 1 | 9.1 |
| D1-M MID-FLOOD | 19-JUL-2012 19:20 | HK1219037-009 | | 4 | 28.9 | 25.3 | 2 | 8.5 |
| D2-S MID-FLOOD | 19-JUL-2012 19:30 | HK1219037-010 | | <2 | 28.8 | 25.3 | 2 | 8.4 |
| D2-B MID-FLOOD | 19-JUL-2012 19:30 | HK1219037-011 | | 5 | 27.8 | 26.6 | 3 | 7.2 |
| D3-S MID-FLOOD | 19-JUL-2012 19:40 | HK1219037-012 | | 4 | 28.8 | 25.3 | 3 | 8.4 |
| D3-B MID-FLOOD | 19-JUL-2012 19:40 | HK1219037-013 | | 5 | 27.7 | 26.8 | 2 | 7.4 |
| D4-M MID-FLOOD | 19-JUL-2012 19:10 | HK1219037-014 | | <2 | 29.1 | 25.1 | 2 | 8.7 |
| C-M-F FIELD DUPLICATE | [19-JUL-2012] | HK1219037-015 | | 3 | 30.1 | 23.8 | 1 | 9.1 |
| C-M-E FIELD DUPLICATE | [19-JUL-2012] | HK1219037-016 | | 2 | 28.2 | 25.4 | 1 | 7.1 |



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: 2424848) | | | | | | | | |
| HK1219037-001 | C-M MID-EBB | EA025: Suspended Solids (SS) | ---- | 2 | mg/L | 2 | 2 | 0.0 |
| HK1219037-011 | D2-B MID-FLOOD | EA025: Suspended Solids (SS) | ---- | 2 | mg/L | 5 | 5 | 0.0 |

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 Concentration | Spike Recovery (%) | | Recovery Limits (%) | | RPDs (%) | |
| | | | | | | LCS | DCS | Low | High | Value | Control Limit |
| EA/ED: Physical and Aggregate Properties (QCLot: 2424848) | | | | | | | | | | | |
| EA025: Suspended Solids (SS) | ---- | 2 | mg/L | <2 | 20 mg/L | 102 | ---- | 85 | 113 | ---- | ---- |

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

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