

**The Government of
The Hong Kong Special Administrative Region**

Environmental Protection Department

Contract No. EP/SP/19/94

Outlying Islands Transfer Facilities Contract

Sok Kwu Wan Transfer Facility

Annual Environmental Audit Report (Operation)

April 2003 – March 2004

Checked by



25.10.2021

Patrick YEUNG / Senior Environmental Protection Inspector
/ Environmental Protection Department

Audited by



19.11.2021

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Table of Contents

1. INTRODUCTION	1
2. DESCRIPTION OF ENVIRONMENTAL MONITORING TESTS	1
3. RESULTS	5
4. STATUS OF ENVIRONMENTAL COMPLAINT HANDLING	7
5. CONCLUSION	7

APPENDIX

Appendix A1 Odour patrol points of Sok Kwu Wan Transfer Facility

Appendix A2 Odour patrol record

Appendix B1 Location of noise sensitive receiver (NSR)

Appendix B2 Noise monitoring record (NSR)

Appendix C1 Locations of marine water monitoring stations

Appendix C2 Marine water monitoring record

1. INTRODUCTION

Under the requirements of Section 4 of Environmental Permit No EP-014/1998, the measures were undertaken to assure the Sok Kwu Wan Transfer Facility was operated in accordance with the permit.

This report documents the findings of environmental monitoring and audit works for the facility from April 2003 to March 2004.

Environmental monitoring for the odour, noise and water quality was performed in accordance with the EM&A Manual and the monitoring results were checked and reviewed. Full details of the above environmental monitoring tests are described in the **Section 2**. In addition, the environmental complaint handling procedures were also checked and reported in **Section 4** of this report.

2. DESCRIPTION OF ENVIRONMENTAL MONITORING TESTS

Table 1: Summary of Environmental Monitoring Parameters

<u>Test</u>	<u>Location</u>	<u>Frequency</u>	<u>Parameter</u>	<u>Limits</u>
Odour	Site Boundary See Map (Appendix A1)	Weekly	Odour	Odour strength not exceed "Slight" odour intensity
Noise	Nearest Sensitive Receiver See Map (Appendix B1)	Quarterly	L _{Aeq} (30min)	55 dBA (07:00-23:00) 45 dBA (23:00-07:00)
Marine Water	Four monitoring locations and two control sites. See Map (Appendix C1)	Weekly	Dissolved Oxygen (DO)	<u>Surface & Middle</u> 4 mg/L except 5 mg/L for FCZ or 1%-ile of baseline data for surface and middle layer <u>Bottom</u> 2 mg/L and or 1%-ile of baseline data for bottom layer
			Water Turbidity (Turbidity)	99%-ile of baseline or 130% of upstream control station's Turbidity at the same tide of the same day
			Suspended Solids (SS)	99%-ile of baseline or 130% of upstream control station's SS of the same tide of the same day

2.1 Odour

2.1.1 Monitoring Location

The monitoring takes place at the boundary of the facility. The patrol route is shown in **Appendix A1**.

2.1.2 Monitoring Frequency

The odour monitoring is conducted once or twice per week.

2.1.3 Monitoring Methodology

The odour patrol is conducted by a sensory team, which includes a representative (1) from Independent Third-party Accredited Laboratory, one (1) from the Contractor and one (1) from the EPD. The test consists of three (3) person patrolling the site boundary and recording the location and strength of odour identifiable as arising from the facility. The odour intensity is categorized into five (5) classes:

Table 2: Odour Intensity Classification

Class	Remarks
None	No odour perceived or an odour so weak that it cannot be readily characterized or described
Slight	Identifiable odour, slight
Moderate	Identifiable odour, moderate
Strong	Identifiable odour, strong
Extreme	Severe odour

The odour patrol record is set out in **Appendix A2**.

2.2 Noise

2.2.1 Monitoring Location

Noise monitoring is carried out at the nearest Noise Sensitive Receiver (NSR) in accordance with the EM&A Manual. **Appendix B1** shows the location of this monitoring position.

2.2.2 Monitoring Frequency

The noise monitoring is conducted once (1) per quarter.

2.2.3 Monitoring Methodology

The noise monitoring during the Operations phase for the SKWTF was performed in accordance with the “Technical Memorandum for the Assessment of Noise from places other than Domestic, Public or Construction Sites”. The monitoring requirements are summarized as follow:

- The Sound Level Meters in compliance with the IEC61672: 2002 Class 1 and 2 for carrying out the noise monitoring.
- The Sound Level Meter will be set on a tripod at a height of 1.2 m above the ground, subject to local monitoring condition.
- The battery condition will be checked to ensure the correct functioning of the meter.
- Noise monitoring $Leq_{(30\text{ min})}$ to be taken on a monthly basis for daytime measurements.
- Prior to and after each noise measurement, the meter will be calibrated using a Calibrator for 94.0 dB at 1000 Hz. The measurement may be accepted as valid only if the calibration level agrees to within 1.0 dB.
- The wind speed will be frequently checked with the portable wind meter.
- Site conditions and interference noise sources will be recorded.
- Noise monitoring will be cancelled in the presence of fog, rain, and wind with a steady speed exceeding 5 m/s, or wind with gusts exceeding 10 m/s.

The Noise monitoring record is set out in **Appendix B2**.

2.3 Water quality

2.3.1 Monitoring Location

The number of marine water monitoring stations for Sok Kwu Wan Transfer Facility is shown in **Table 3** and **Appendix C1** shows the locations of the marine water quality monitoring stations.

Table 3: Locations of the marine water quality monitoring stations

Facility	Station ID	No. of Stations
Sok Kwu Wan	Control Stations: SC1 & SC2 Impact Stations: S1, S2, S3 & S4	6

2.3.2 Monitoring Methodology

The marine water quality monitoring during the Operations phase for the SKWTF was performed in accordance with the EM&A Manual. The following set out the methods of measurement to be used during the environmental monitoring.

Dissolved Oxygen and Turbidity

The in-situ measurements of dissolved oxygen and turbidity are carried out using an In-situ Aqua Troll 600 Multi-parameter Sonde.

Where the depth of water is less than 3m, duplicate measurements of D.O. are to be taken at one depth to obtain an average reading.

With depths between 3m and 6m, measurements will be taken at 1m below the surface and 1m above the sea bed. In each depth, duplicate readings will be taken and an average value will be calculated.

With a water depth greater than 6m, measurements will be taken at 1m below surface, the mid-depth and 1m above the sea bed. In each depth, duplicate readings will be taken and an average value will be calculated.

Suspended solids

The suspended solids monitoring is carried out in according to the in-house method (E-T-053) with reference to the standard method APHA 17ed 2540 D. The testing method is summarized as below:

A well-mixed sea water sample is filtered through a weighed standard glass-fiber filter and wash thoroughly with water to remove dissolved solids on the filter. The non-filterable residue retained on the filter is dried at 103 to 105°C. The increase in weight of the filter represents the suspended solids content.

3 **RESULTS**

3.1 **Odour**

3.1.1 Summary of Number of Monitoring Events and Exceedances for Odour monitoring

Table 4: Summary of Number of Monitoring Events and Exceedances for Odour monitoring

Monitoring Parameter	Location	No. of monitoring events	No. of Exceedance
		April 2003 – March 2004	
Odour	Point 1	62	0
	Point 2	62	0
	Point 3	62	0
	Point 4	62	0
	Point 5	62	0
	Point 6	62	0
Total		372	0

3.1.2 Conclusion

No odour could be detected during the odour patrols. The results show compliance with the odour objectives.

Please refer to the **Appendix A2** for the odour monitoring record.

3.2 **Noise**

3.2.1 Summary of Number of Monitoring Events and Exceedances for Noise monitoring

Table 5: Summary of Number of Monitoring Events and Exceedances for Noise monitoring

Monitoring Parameter	Location	No. of monitoring events	No. of Exceedance
		April 2003 – March 2004	
Noise	NSR	6	2
Total		6	2

3.2.2 Conclusion

During the reporting period, some of noise monitoring results have exceeded the compliance objectives. According to the notes recorded by the field operator of the Independent Third-party Accredited Laboratory, the major noise sources during monitoring do not come from Transfer Facility.

In addition, EPD site staff conducted random checking of on-site CCTV record and confirmed no operational activities were being carried out at the facility during night time. Hence, it is reasonable to believe that the night-time noise level at SKWTF is insignificant.

The noise level monitoring record taken at the NSR of SKWTF is set out in **Appendix B2**.

3.3 Water Quality

3.3.1 Summary of Number of Monitoring Events and Exceedances for Water quality monitoring

A total of 952 sets of water samples were collected in 56 sampling days during the report period. A summary of exceedance of dissolved oxygen, turbidity and suspended solids at SKWTF is shown in the following **Table 6**.

Table 6: Summary of exceedance of Marine Water Quality at SKWTF

Sampling Point	Type of Exceedance		
	DO	Turbidity	SS
S1	12	2	9
S2	10	0	9
S3	6	2	16
S4	9	4	3
Total	37	8	37

The laboratory analysis shows that there are 82 samples exceed the limit level of

Dissolved Oxygen (37 exceedances), Turbidity (8 exceedances) and Suspended Solids (37 exceedances).

3.3.2 Conclusion

Since there is no wastewater discharge from the SKWTF and no construction activities during the report period, the exceedance of compliance objectives for dissolved oxygen, turbidity and suspended solids were not caused by the operation activities at SKWTF.

The water quality monitoring record is set out in **Appendix C2**

4 **STATUS OF ENVIRONMENTAL COMPLAINT HANDLING**

No verbal or written complaints were received during the reporting period.

5 **CONCLUSION**

Based on the monitoring results during the audit period as well as a review of our observations the following can be concluded.

The environmental protection systems that are currently in use, when combined with the existing level of environmental awareness at the facility, are sufficient to meet current regulatory constraints relating to the environment.

The methods and frequency of environmental monitoring produce a data base that is adequate to assist station management in making accurate and timely decisions relating to the modification of environmental systems or operational practices if needed.

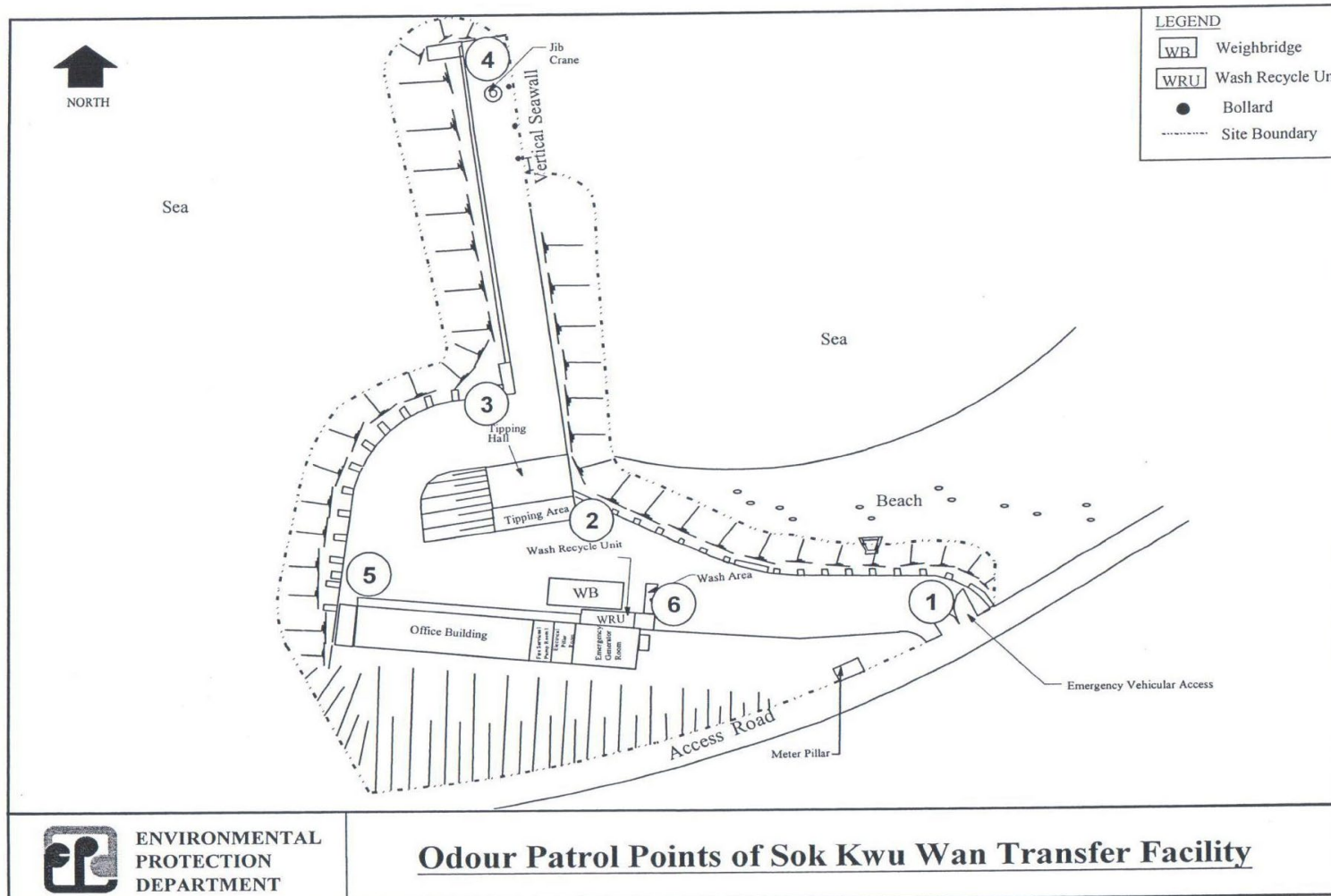
The current environmental management systems and performance provide a good foundation to develop a positive relationship with the community.

Appendix A

Appendix A1

Odour Patrol Points of Sok Kwu Wan Transfer Facility

Appendix A1



Appendix A2

Odour Patrol Record

Appendix A2



C2) Odour

Location	Date	Classification
Mui Wo	April 4, 2003	None
	April 10, 2003	None
	April 16, 2003	None
	April 22, 2003	None
	April 28, 2003	None
Cheung Chau	April 4, 2003	None
	April 10, 2003	None
	April 16, 2003	None
	April 22, 2003	None
	April 28, 2003	None
Peng Chau	April 4, 2003	None
	April 10, 2003	None
	April 16, 2003	None
	April 22, 2003	None
	April 28, 2003	None
Hei Ling Chau	April 4, 2003	None
	April 10, 2003	None
	April 16, 2003	None
	April 22, 2003	None
	April 28, 2003	None
Yung Shue Wan	April 1, 2003	None
	April 7, 2003	None
	April 11, 2003	None
	April 17, 2003	None
	April 23, 2003	None
	April 29, 2003	None
Sok Kwu Wan	April 1, 2003	None
	April 7, 2003	None
	April 11, 2003	None
	April 17, 2003	None
	April 23, 2003	None
	April 29, 2003	None



C2) Odour

Location	Date	Classification
Mui Wo	May 5, 2003	None
	May 12, 2003	None
	May 16, 2003	None
	May 22, 2003	None
	May 28, 2003	Slight
Cheung Chau	May 5, 2003	None
	May 12, 2003	None
	May 16, 2003	None
	May 22, 2003	None
	May 28, 2003	None
Peng Chau	May 5, 2003	None
	May 12, 2003	None
	May 16, 2003	None
	May 22, 2003	None
	May 28, 2003	None
Hei Ling Chau	May 5, 2003	None
	May 12, 2003	None
	May 16, 2003	None
	May 22, 2003	None
	May 28, 2003	None
Yung Shue Wan	May 6, 2003	None
	May 13, 2003	None
	May 19, 2003	None
	May 23, 2003	None
	May 29, 2003	None
Sok Kwu Wan	May 6, 2003	None
	May 13, 2003	None
	May 19, 2003	None
	May 23, 2003	None
	May 29, 2003	None



Location	Date	Classification	Location	Date	Classification
Peng Chau	3 June, 2003	None	Hei Ling Chau	3 June, 2003	None
	9 June, 2003	None		9 June, 2003	None
	16 June, 2003	None		16 June, 2003	None
	23 June 2003	None		23 June 2003	None
	27 June, 2003	None		27 June, 2003	None

Location	Date	Classification	Location	Date	Classification
Yung Shue Wan	5 June, 2003	None	Sok Kwu Wan	5 June, 2003	None
	10 June, 2003	None		10 June, 2003	None
	17 June, 2003	None		17 June, 2003	None
	24 June 2003	None		24 June 2003	None
	30 June, 2003	None		30 June, 2003	None

Location	Date	Classification
Ma Wan	5 June, 2003	None
	10 June, 2003	None
	17 June, 2003	None
	24 June 2003	None
	30 June, 2003	None

4 NOISE

Table 6
Noise at nearest NSR (LeqA 30 min).

Transfer Facility	Measurement Date and Time	
	Day Time	Night Time
Mui Wo	June 20, 2003 (10:25-10:55) 58	June 26, 2003 (00:10-00:40) 50
	June 20, 2003 (14:45-15:15) 68	June 25, 2003 (23:00-23:30) 57



Location	Date	Classification	Location	Date	Classification
Peng Chau	3 July, 2003	None	Hei Ling Chau	3 July, 2003	None
	9 July, 2003	None		9 July, 2003	None
	15 July, 2003	None		15 July, 2003	None
	21 July, 2003	None		21 July, 2003	None
	28 July, 2003	None		28 July, 2003	None

Location	Date	Classification	Location	Date	Classification
Yung Shue Wan	4 July, 2003	None	Sok Kwu Wan	4 July, 2003	None
	10 July, 2003	None		10 July, 2003	None
	16 July, 2003	None		16 July, 2003	None
	22 July, 2003	None		22 July, 2003	None
	29 July, 2003	None		29 July, 2003	None

Location	Date	Classification
Ma Wan	4 July, 2003	None
	10 July, 2003	None
	16 July, 2003	None
	22 July, 2003	None
	29 July, 2003	None

4 GENERAL

Equipment, including Terbergs, JCB, and compactors, functioned properly enabling Swire SITA to provide uninterrupted waste service to station users throughout the month of July.

Mosquito elimination treatment has been carried out at all facilities.

Tool Box Talks on prevention of Atypical Pneumonia were given to all staff. Additional cleaning materials and equipment were obtained. Housekeeping measures were increased.

5 SAFETY

The Superintendent carried out monthly safety inspection. Tool Box Talks on safety related subjects were given to all staff. There were no reportable accidents in July 2003.



Location	Date	Classification	Location	Date	Classification
Peng Chau	4 Aug, 2003	None	Hei Ling Chau	4 Aug, 2003	None
	8 Aug, 2003	None		8 Aug, 2003	None
	14 Aug, 2003	None		14 Aug, 2003	None
	20 Aug, 2003	None		20 Aug, 2003	None
	26 Aug, 2003	None		26 Aug, 2003	None

Location	Date	Classification	Location	Date	Classification
Yung Shue Wan	5 Aug, 2003	None	Sok Kwu Wan	5 Aug, 2003	None
	11 Aug, 2003	None		11 Aug, 2003	None
	15 Aug, 2003	None		15 Aug, 2003	None
	21 Aug, 2003	None		21 Aug, 2003	None
	27 Aug, 2003	None		27 Aug, 2003	None

Location	Date	Classification
Ma Wan	5 Aug, 2003	None
	11 Aug, 2003	None
	15 Aug, 2003	None
	21 Aug, 2003	None
	27 Aug, 2003	None

4 GENERAL

Equipment, including Terbergs, JCB, and compactors, functioned properly enabling Swire SITA to provide uninterrupted waste service to station users throughout the month of August.

Mosquito elimination treatment has been carried out at all facilities.

Tool Box Talks on prevention of Atypical Pneumonia were given to all staff. Additional cleaning materials and equipment were obtained. Housekeeping measures were increased.

5 SAFETY

The Superintendent carried out monthly safety inspection.
 Tool Box Talks on safety related subjects were given to all staff.
 No reportable accident in August 2003.



MTL-ACTS

Location	Date	Classification
Mui Wo	1 Sep, 2003	None
	8 Sep, 2003	None
	15 Sep, 2003	None
	19 Sep, 2003	None
	25 Sep, 2003	None
Cheung Chau	1 Sep, 2003	None
	8 Sep, 2003	None
	15 Sep, 2003	None
	19 Sep, 2003	None
	25 Sep, 2003	None
Peng Chau	1 Sep, 2003	None
	8 Sep, 2003	None
	15 Sep, 2003	None
	19 Sep, 2003	None
	25 Sep, 2003	None
Hei Ling Chau	1 Sep, 2003	None
	8 Sep, 2003	None
	15 Sep, 2003	None
	19 Sep, 2003	None
	25 Sep, 2003	None
Yung Shue Wan	5 Sep, 2003	None
	9 Sep, 2003	None
	16 Sep, 2003	None
	22 Sep, 2003	None
	26 Sep, 2003	None
Sok Kwu Wan	5 Sep, 2003	None
	9 Sep, 2003	None
	16 Sep, 2003	None
	22 Sep, 2003	None
	26 Sep, 2003	None
Ma Wan	2 Sep, 2003	None
	9 Sep, 2003	None
	16 Sep, 2003	None
	22 Sep, 2003	None
	26 Sep, 2003	None



Location	Date	Classification	Location	Date	Classification
Yung Shue Wan	3 Oct, 2003	None	Sok Kwu Wan	3 Oct, 2003	None
	8 Oct, 2003	None		8 Oct, 2003	None
	14 Oct, 2003	None		14 Oct, 2003	None
	21 Oct, 2003	None		21 Oct, 2003	None
	28 Oct, 2003	None		28 Oct, 2003	None

Location	Date	Classification
Ma Wan	3 Oct, 2003	None
	8 Oct, 2003	None
	14 Oct, 2003	None
	21 Oct, 2003	None
	28 Oct, 2003	None

4 GENERAL

Equipment, including Terbergs, JCB, and compactors, functioned properly enabling Swire SITA to provide uninterrupted waste service to station users throughout the month of October.

Mosquito elimination treatment has been carried out at all facilities.

Tool Box Talks on prevention of Atypical Pneumonia were given to all staff. Additional cleaning materials and equipment were obtained. Housekeeping measures were increased.

5 SAFETY

The Superintendent carried out monthly safety inspection. Tool Box Talks on safety related subjects were given to all staff. No reportable accident in October 2003.



MTL-ACTS

Location	Date	Classification
Mui Wo	6-Nov-03 ✓	None ✓
	12-Nov-03 ✓	None ✓
	18-Nov-03 ✓	None ✓
	24-Nov-03 ✓	None ✓
	28-Nov-03 ✓	None ✓
Cheung Chau	6-Nov-03 ✓	None ✓
	12-Nov-03 ✓	None ✓
	18-Nov-03 ✓	None ✓
	24-Nov-03 ✓	None ✓
	28-Nov-03 ✓	None ✓
Peng Chau	6-Nov-03 ✓	None ✓
	12-Nov-03 ✓	None ✓
	18-Nov-03 ✓	None ✓
	24-Nov-03 ✓	None ✓
	28-Nov-03 ✓	None ✓
Hei Ling Chau	6-Nov-03 ✓	None ✓
	12-Nov-03 ✓	None ✓
	18-Nov-03 ✓	None ✓
	24-Nov-03 ✓	None ✓
	28-Nov-03 ✓	None ✓
Yung Shue Wan	3-Nov-03 ✓	None ✓
	7-Nov-03 ✓	None ✓
	13-Nov-03 ✓	None ✓
	19-Nov-03 ✓	None ✓
	26-Nov-03 ✓	None ✓
Sok Kwu Wan	3-Nov-03 ✓	None ✓
	7-Nov-03 ✓	None ✓
	13-Nov-03 ✓	None ✓
	19-Nov-03 ✓	None ✓
	26-Nov-03 ✓	None ✓
Ma Wan	3-Nov-03 ✓	None ✓
	7-Nov-03 ✓	None ✓
	13-Nov-03 ✓	None ✓
	19-Nov-03 ✓	None ✓
	26-Nov-03 ✓	None ✓



Location	Date	Classification	Location	Date	Classification
Yung Shue Wan	Dec 3, 2003	None	Sok Kwu Wan	Dec 3, 2003	None
	Dec 9, 2003	None		Dec 9, 2003	None
	Dec 16, 2003	None		Dec 16, 2003	None
	Dec 23, 2003	None		Dec 23, 2003	None
	Dec 30, 2003	None		Dec 30, 2003	None

Location	Date	Classification
Ma Wan	Dec 3, 2003	None
	Dec 9, 2003	None
	Dec 16, 2003	None
	Dec 24, 2003	None
	Dec 30, 2003	None

4 NOISE

Table 6
Noise at nearest NSR (LeqA 30 min).

Transfer Facility	Measurement Date and Time	
	Noise Level Leq A (30 min) (dB (A))	
	Day Time	Night Time
Mui Wo	Dec 8, 2003 (12:30-13:00) 60	Dec 9, 2003 (00:10-00:40) 52
Cheung Chau	Dec 8, 2003 (16:50-17:20) 56	Dec 8, 2003 (23:00-23:30) 54

Transfer Facility	Measurement Date and Time	
	Noise Level Leq A (30 min) (dB (A))	
	Day Time	Night Time
Peng Chau	Dec 8, 2003 (10:50-11:20) 67	Dec 9, 2003 (01:15-01:45) 54
Hei Ling Chau	Dec 8, 2003 (15:05-15:35) 63	Dec 8, 2003 (18:00-18:30) 51



Location	Date	Classification	Location	Date	Classification
Yung Shue Wan	Jan 2, 2004	None	Sok Kwu Wan	Jan 2, 2004	None
	Jan 8, 2004	None		Jan 8, 2004	None
	Jan 14, 2004	None		Jan 14, 2004	None
	Jan 20, 2004	None		Jan 20, 2004	None
	Jan 26, 2004	None		Jan 26, 2004	None

Location	Date	Classification
Ma Wan	Jan 2, 2004	None
	Jan 8, 2004	None
	Jan 14, 2004	None
	Jan 20, 2004	None
	Jan 26, 2004	None

4 GENERAL

Equipment, including Terbergs, JCB, and compactors, functioned properly enabling Swire SITA to provide uninterrupted waste service to station users throughout the month of January 2004.

Mosquito elimination treatment has been carried out at all facilities.

Tool Box Talks on prevention of Atypical Pneumonia were given to all staff.

Additional cleaning materials and equipment were obtained. Housekeeping measures were increased.

All environmental testing was performed by Wellab Ltd.

5 SAFETY

The Superintendent carried out monthly safety inspection.

Tool Box Talks on safety related subjects were given to all staff.

No reportable accident in January 2004.



Location	Date	Classification	Location	Date	Classification
Yung Shue Wan	Feb 2, 2004	None	Sok Kwu Wan	Feb 2, 2004	None
	Feb 6, 2004	None		Feb 6, 2004	None
	Feb 12, 2004	None		Feb 12, 2004	None
	Feb 18, 2004	None		Feb 18, 2004	None
	Feb 24, 2004	None		Feb 24, 2004	None

Location	Date	Classification
Ma Wan	Feb 3, 2004	None
	Feb 6, 2004	None
	Feb 12, 2004	None
	Feb 18, 2004	None
	Feb 24, 2004	None

4 GENERAL

Equipment, including Terbergs, JCB, and compactors, functioned properly enabling Swire SITA to provide uninterrupted waste service to station users throughout the month of February 2004.

Mosquito elimination treatment has been carried out at all facilities.

Tool Box Talks on prevention of Atypical Pneumonia were given to all staff.

Additional cleaning materials and equipment were obtained. Housekeeping measures were increased.

5 SAFETY

The Superintendent carried out monthly safety inspection.

Tool Box Talks on safety related subjects were given to all staff.

No reportable accident in February 2004.



Location	Date	Classification	Location	Date	Classification
Peng Chau	Mar 1, 2004	None	Hei Ling Chau	Mar 1, 2004	None
	Mar 5, 2004	None		Mar 5, 2004	None
	Mar 11, 2004	None		Mar 11, 2004	None
	Mar 17, 2004	None		Mar 17, 2004	None
	Mar 23, 2004	None		Mar 23, 2004	None
	Mar 29, 2004	None		Mar 29, 2004	None

Location	Date	Classification	Location	Date	Classification
Yung Shue Wan	Mar 1, 2004	None	Sok Kwu Wan	Mar 1, 2004	None
	Mar 5, 2004	None		Mar 5, 2004	None
	Mar 11, 2004	None		Mar 11, 2004	None
	Mar 17, 2004	None		Mar 17, 2004	None
	Mar 23, 2004	None		Mar 23, 2004	None
	Mar 29, 2004	None		Mar 29, 2004	None

Location	Date	Classification
Ma Wan	Mar 1, 2004	None
	Mar 5, 2004	None
	Mar 11, 2004	None
	Mar 17, 2004	None
	Mar 23, 2004	None
	Mar 29, 2004	None

4 GENERAL

Equipment, including Terbergs, JCB, and compactors, functioned properly enabling Swire SITA to provide uninterrupted waste service to station users throughout the month of March 2004.

Mosquito elimination treatment has been carried out at all facilities.

Tool Box Talks on prevention of Atypical Pneumonia were given to all staff.

Additional cleaning materials and equipment were obtained. Housekeeping measures were increased.

5 SAFETY

The Superintendent carried out monthly safety inspection.

Tool Box Talks on safety related subjects were given to all staff.

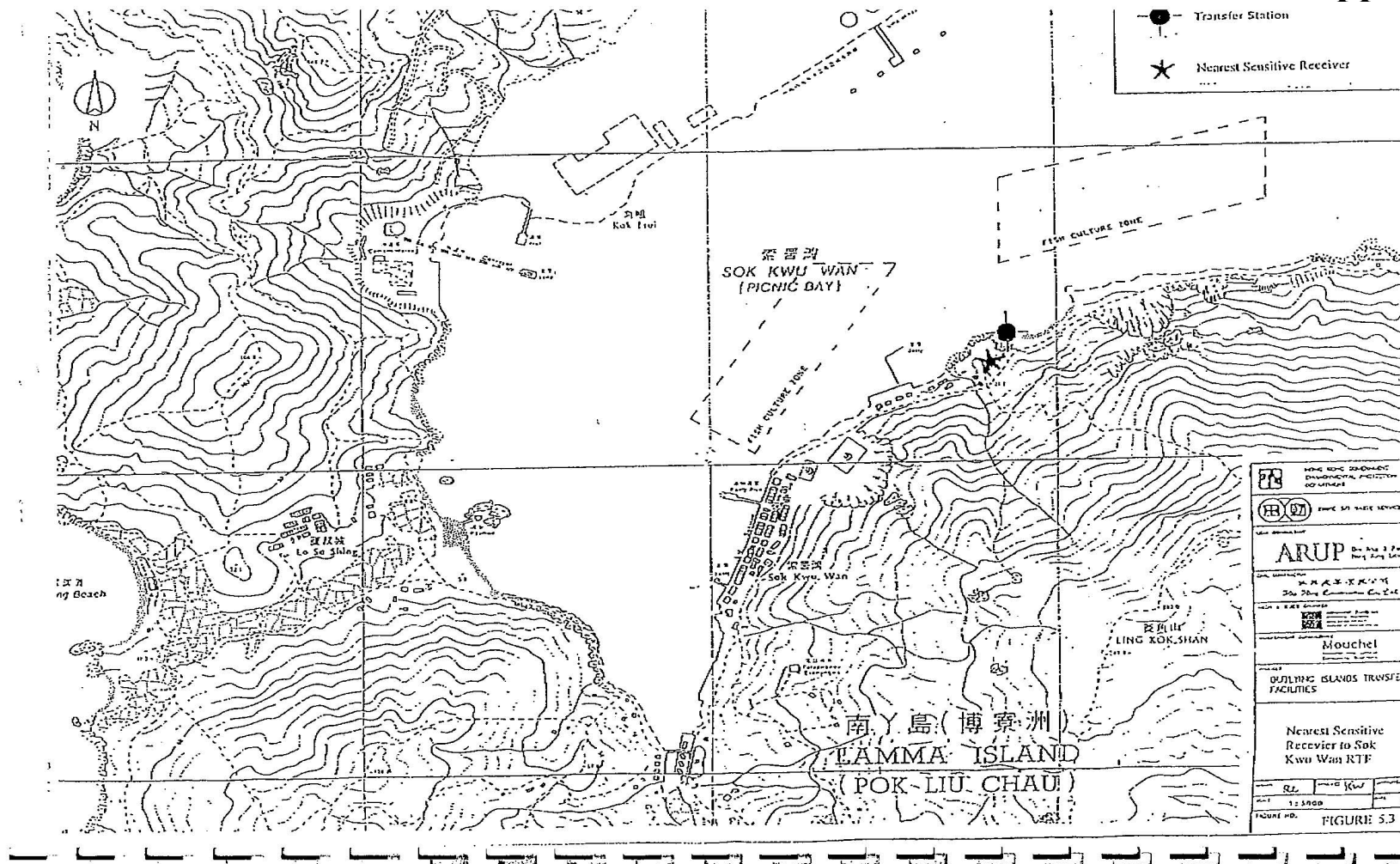
No reportable accident in March 2004.

Appendix B

Appendix B1

Location of Noise Sensitive Receiver (NSR)

Appendix B1



Appendix B2

Noise Monitoring Record (NSR)

Appendix B2 – Noise Monitoring Record (NSR)**Sok Kwu Wan Transfer Facility**

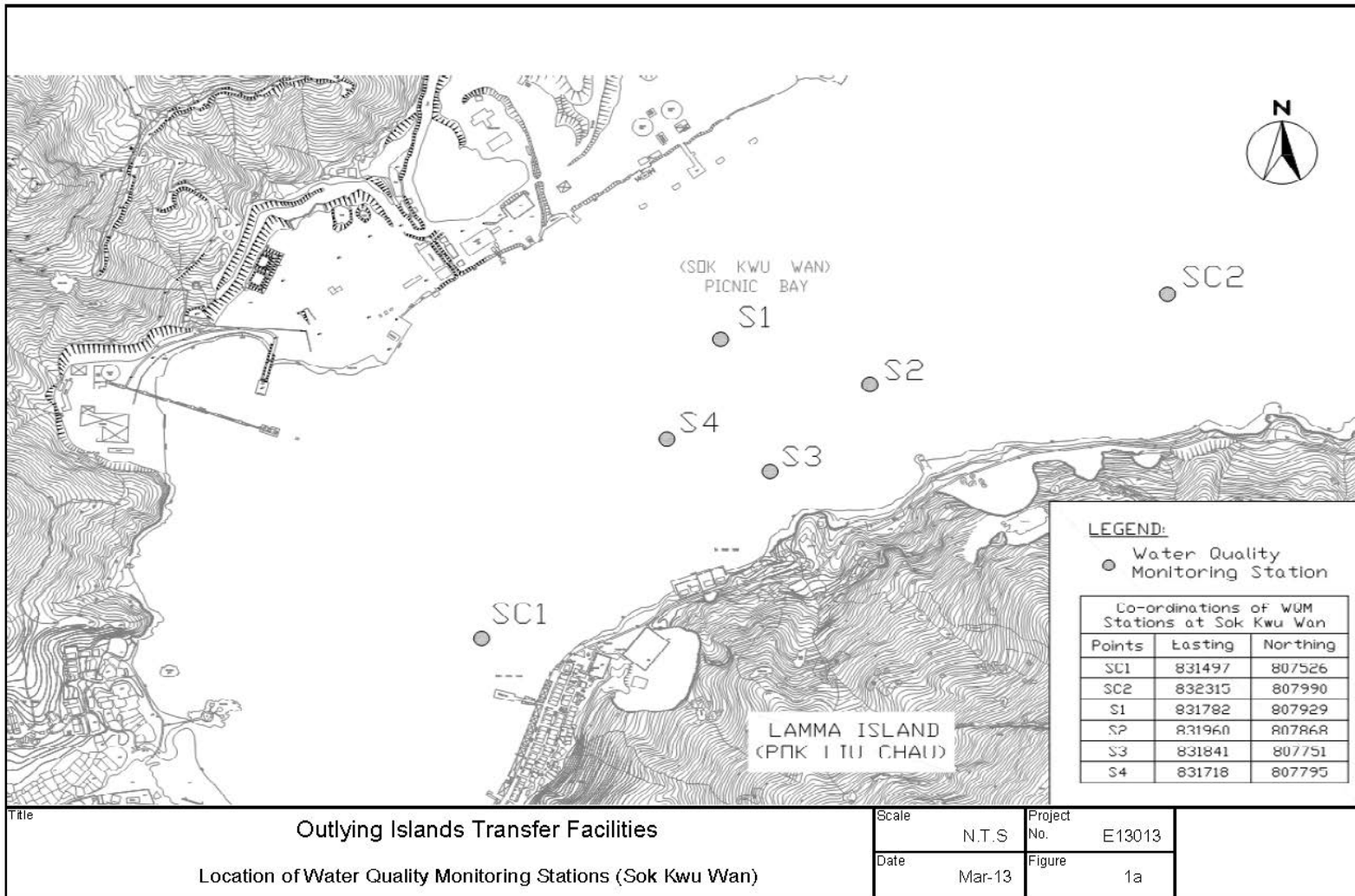
Measurement Date and Time	Noise Level Leq A (30min) / (dB(A))	Remarks
20 June 2003 (09:35 – 10:05)	52	--
20 June 2003 (23:00 – 23:30)	46	The major noise sources during monitoring do not come from Transfer Facility.
16 Sep 2003 (11:00 – 11:30)	55	--
12 Dec 2003 (14:35 – 15:05)	50	--
13 Dec 2003 (00:50 – 01:20)	54	The major noise sources during monitoring do not come from Transfer Facility.
23 Mar 2004 (16:00 – 16:30)	51	--

Appendix C

Appendix C1

Location of Marine Water Monitoring Stations

Appendix C1



Appendix C

Appendix C2

Marine Water Monitoring Record

Appendix C2



Marine Water

Location Sampling Date	Measurement Point	Dissolved Oxygen (mg/L / %)		Turbidity (NTU)	Suspended Solids (mg/L)	Temperature (°C)	
		Average	At 2m above seabed	Average	Average	Air	Water
Sok Kwu Wan <u>Apr 01, 2003</u> (12:30-13:15) mid-ebb	SC1	7.0/93	6.9/90	1.4	4.2	27	21.0
	SC2	7.6/99	7.4/97	2.4	6.1	27	21.0
	S1	6.9/90	6.7/90	1.9	5.1	27	21.0
	S2	7.2/94	7.1/94	1.9	6.2	27	21.0
	S3	7.0/92	6.9/90	1.4	6.1	27	21.0
	S4	7.0/92	6.9/92	1.3	5.4	27	21.0
Sok Kwu Wan <u>Apr 07, 2003</u> (15:00-15:45) mid-ebb	SC1	6.8/89	6.6/88	1.8	4.1	24	21.0
	SC2	8.1/107	7.9/106	1.9	6.9	24	21.0
	S1	7.3/97	7.2/96	1.7	6.0	24	21.0
	S2	7.4/97	7.3/96	1.7	5.4	24	21.0
	S3	7.3/97	7.1/95	1.8	6.2	24	21.0
	S4	7.3/99	7.3/100	1.6	4.9	24	21.0
Sok Kwu Wan <u>Apr 17, 2003</u> (10:20-10:55) mid-ebb	SC1	7.0/95	7.1/97	1.7	3.6	25	21.5
	SC2	7.6/102	7.3/98	3.7	7.6	25	21.5
	S1	7.1/96	7.2/97	3.2	7.5	25	21.5
	S2	7.3/99	7.5/101	3.3	7.0	25	21.5
	S3	7.2/98	7.3/99	3.3	6.3	25	21.5
	S4	7.3/99	7.3/99	2.7	6.4	25	21.5
Sok Kwu Wan <u>Apr 23, 2003</u> (10:45-11:25) mid-flood	SC1	6.2/86	6.2/87	2.4	5.4	27	23.5
	SC2	7.6/104	7.6/105	3.1	7.7	27	23.0
	S1	6.9/95	7.1/98	2.9	6.8	27	23.0
	S2	6.9/96	7.0/97	3.8	9.5	27	23.0
	S3	7.0/97	7.2/100	2.6	8.1	27	23.0
	S4	7.1/98	7.3/99	4.4	8.5	27	23.0
Sok Kwu Wan <u>Apr 29, 2003</u> (16:10-16:45) mid-flood	SC1	8.1/118	8.2/119	1.7	5.7	28	25.0
	SC2	8.8/128	8.6/124	1.9	7.8	28	25.0
	S1	8.1/118	8.1/118	1.8	7.9	28	24.5
	S2	8.0/118	8.2/120	1.6	7.1	28	25.0
	S3	8.0/117	8.1/118	1.6	6.6	28	25.0
	S4	8.0/117	8.2/119	1.8	8.0	28	25.0

mg/L = milligrams per Litre

NTU = Nephelometric Turbidity Unit



Marine Water

Location Sampling Date	Measurement Point	Dissolved Oxygen (mg/L / %)		Turbidity (NTU)	Suspended Solids (mg/L)	Temperature (°C)	
		Average	At 2m above seabed	Average	Average	Air	Water
Sok Kwu Wan <u>May 06, 2003</u> (14:30-15:05) mid-ebb	SC1	6.2/90	6.1/88	2.1	4.4	30	25.5
	SC2	7.1/102	7.1/102	2.2	6.3	30	25.5
	S1	6.6/95	6.5/93	2.1	6.0	30	25.5
	S2	6.5/94	6.3/91	2.6	6.3	30	25.5
	S3	6.4/92	6.2/89	2.1	6.3	30	25.0
	S4	6.4/92	6.4/92	1.9	5.9	30	25.0
Sok Kwu Wan <u>May 13, 2003</u> (16:15-16:50) mid-flood	SC1	7.3/107	6.5/96	2.9	7.3	30	26.5
	SC2	6.7/98	6.7/97	2.6	9.6	30	26.0
	S1	7.2/106	7.1/102	3.3	9.3	30	26.5
	S2	7.0/102	7.0/103	3.1	9.0	30	26.5
	S3	6.9/100	5.8/84	3.1	11	30	26.5
	S4	7.3/106	7.2/105	3.5	7.9	30	27.0
Sok Kwu Wan <u>May 19, 2003</u> (14:45-15:25) mid-ebb	SC1	5.6/80	5.4/79	2.0	4.4	28	26.5
	SC2	6.7/96	6.8/97	2.1	5.4	28	26.5
	S1	5.5/80	5.4/78	1.9	4.7	28	26.5
	S2	5.8/82	5.5/79	1.8	4.7	28	26.5
	S3	5.4/78	5.3/77	2.1	5.1	28	26.5
	S4	5.2/74	5.0/72	1.9	4.9	28	26.5
Sok Kwu Wan <u>May 29, 2003</u> (15:50-16:25) mid-flood	SC1	5.9/86	5.5/81	3.5	5.4	28	28.0
	SC2	5.6/83	5.4/79	2.9	5.4	28	27.0
	S1	5.7/83	5.4/79	3.0	6.3	28	27.0
	S2	5.5/81	5.2/77	3.5	6.6	28	27.0
	S3	5.4/80	5.1/75	3.0	6.1	28	27.0
	S4	5.1/74	5.1/74	3.2	6.9	28	27.0

mg/L = milligrams per Litre

NTU = Nephelometric Turbidity Unit



Location	Measurement Point	Dissolved Oxygen (mg/L / %)		Turbidity (NTU)	Suspended Solids (mg/L)	Temperature (°C)	
		Average	At 2m above Seabed	Average	Average	Air	Water
Sok Kwu Wan <u>Jun 05, 2003</u> (15:00-15:40) mid-ebb	SC1	7.3/103	6.9/99	3.2	5.2	29	28.5
	SC2	7.4/107	7.0/101	3.4	6.9	29	28.0
	S1	7.5/113	7.5/112	3.2	5.9	29	28.5
	S2	6.8/100	6.8/94	3.4	7.5	29	28.5
	S3	7.7/108	7.3/96	3.4	7.0	29	28.5
	S4	7.5/110	7.2/104	3.5	8.8	29	28.0
Sok Kwu Wan <u>Jun 10, 2003</u> (14:20-15:00) mid-flood	SC1	4.9/72	4.7/69	3.2	6.1	28	27.5
	SC2	5.8/86	5.7/85	3.8	9.7	28	27.5
	S1	5.9/87	5.8/86	2.2	5.2	28	27.5
	S2	5.9/88	5.8/87	2.2	5.8	28	27.5
	S3	5.9/87	5.7/83	2.5	5.7	28	27.5
	S4	5.8/86	5.8/85	2.1	5.3	28	27.5
Sok Kwu Wan <u>Jun 17, 2003</u> (14:45-15:20) mid-ebb	SC1	5.7/84	5.4/80	2.1	5.2	31	27.5
	SC2	5.7/84	5.5/80	3.1	6.5	31	27.5
	S1	6.2/90	5.5/80	2.4	5.5	31	27.5
	S2	5.9/87	5.0/73	2.3	5.7	31	27.5
	S3	5.8/85	4.9/71	2.5	5.7	31	27.5
	S4	5.7/84	4.7/68	2.5	5.6	31	27.5
Sok Kwu Wan <u>Jun 24, 2003</u> (14:40-15:15) mid-flood	SC1	6.2/90	4.7/67	1.8	3.9	30	28.5
	SC2	7.3/106	6.4/94	2.1	6.5	30	28.0
	S1	7.4/112	5.8/87	1.6	5.5	30	28.0
	S2	5.9/88	5.1/77	2.1	6.1	30	28.5
	S3	6.1/90	5.1/74	1.8	5.9	30	28.5
	S4	5.8/85	4.8/70	2.2	5.6	30	28.5
Sok Kwu Wan <u>Jun 30, 2003</u> (13:00-13:45) mid-ebb	SC1	9.7/142	9.9/145	3.2	7.8	31	29.0
	SC2	6.9/102	6.6/103	3.3	7.1	31	28.0
	S1	9.0/133	8.8/123	4.1	12	31	28.5
	S2	9.4/136	9.2/134	4.2	11	31	28.5
	S3	9.7/142	9.6/140	5.0	13	31	29.0
	S4	9.1/130	9.1/133	3.3	9.9	31	28.5



Location	Measurement Point	Dissolved Oxygen (mg/L / %)		Turbidity (NTU)	Suspended Solids (mg/L)	Temperature (°C)	
		Average	At 2m above Seabed	Average	Average	Air	Water
Sok Kwu Wan <u>July 10, 2003</u> (16:00-16:40) mid-flood	SC1	7.9/116	7.9/115	2.5	6.5	30	28.5
	SC2	7.5/113	7.2/107	2.3	8.6	30	28.5
	S1	7.5/110	6.7/98	1.9	6.5	30	28.5
	S2	8.2/121	8.1/120	2.1	7.7	30	28.5
	S3	8.8/131	8.7/129	1.8	6.5	30	28.5
	S4	8.0/120	8.0/120	1.8	6.2	30	28.0
Sok Kwu Wan <u>July 16, 2003</u> (13:55-14:30) mid-ebb	SC1	5.7/86	5.6/85	2.8	5.2	31	28.0
	SC2	5.9/87	5.9/87	2.7	6.8	31	28.0
	S1	5.4/82	5.3/81	2.7	6.2	31	28.0
	S2	5.4/82	5.2/80	2.9	6.7	31	27.5
	S3	5.3/82	5.2/81	2.5	6.8	31	27.5
	S4	5.3/81	5.3/81	2.8	6.2	31	27.5
Sok Kwu Wan <u>July 22, 2003</u> (13:15-13:50) mid-flood	SC1	8.0/123	8.0/125	1.8	5.8	32	29.0
	SC2	7.0/108	7.0/110	2.2	8.5	32	28.5
	S1	8.2/125	8.2/127	1.9	8.6	32	28.5
	S2	8.4/129	8.5/130	2.0	8.9	32	28.5
	S3	8.3/126	8.3/126	2.1	8.7	32	28.5
	S4	8.3/127	8.3/127	1.5	6.5	32	28.5
Sok Kwu Wan <u>July 29, 2003</u> (11:45-12:25) mid-ebb	SC1	5.0/77	4.9/74	2.4	5.0	31	28.5
	SC2	6.4/97	5.4/82	3.1	8.4	31	28.0
	S1	5.6/85	4.4/67	3.2	6.7	31	28.0
	S2	5.2/79	4.0/60	3.2	6.9	31	28.0
	S3	5.4/83	4.2/63	3.1	7.4	31	28.5
	S4	5.2/80	4.0/59	2.8	6.5	31	28.5



Location	Measurement Point	Dissolved Oxygen (mg/L / %)		Turbidity (NTU)	Suspended Solids (mg/L)	Temperature (°C)	
		Average	At 2m above Seabed	Average	Average	Air	Water
Sok Kwu Wan <u>Aug 5, 2003</u> (12:00-12:45) mid-flood	SC1	6.7/90	6.4/86	2.6	5.4	29	28.0
	SC2	6.2/92	6.0/90	4.2	8.5	29	28.0
	S1	6.8/102	6.7/100	3.3	8.8	29	28.5
	S2	6.6/100	6.5/99	2.8	7.7	29	28.0
	S3	6.7/102	6.6/101	4.5	9.6	29	28.0
	S4	6.8/102	6.9/105	2.6	8.1	29	28.0
Sok Kwu Wan <u>Aug 11, 2003</u> (11:45-12:20) mid-ebb	SC1	5.7/85	5.4/80	2.3	6.7	32	27.5
	SC2	6.4/97	5.3/79	2.2	8.2	32	28.0
	S1	6.0/90	5.4/80	2.0	9.0	32	27.5
	S2	5.9/89	5.3/79	2.4	8.3	32	27.0
	S3	5.7/85	5.2/78	1.6	8.4	32	27.0
	S4	5.8/87	5.3/79	1.8	8.0	32	27.0
Sok Kwu Wan <u>Aug 21, 2003</u> (15:00-15:40) mid-flood	SC1	6.0/89	6.2/93	1.2	3.9	28	28.5
	SC2	6.3/95	5.8/87	1.1	5.8	28	28.0
	S1	6.5/100	6.5/101	1.3	5.2	28	29.0
	S2	6.4/98	5.9/90	1.2	6.1	28	28.5
	S3	6.6/101	6.5/100	1.1	5.9	28	28.5
	S4	6.6/98	6.4/90	1.4	5.7	28	28.5
Sok Kwu Wan <u>Aug 27, 2003</u> (11:45-12:45) mid-ebb	SC1	4.8/72	5.0/74	3.8	6.3	31	28.0
	SC2	5.5/82	5.4/82	6.1	10	31	28.0
	S1	4.9/74	5.0/75	3.7	6.5	31	28.0
	S2	4.7/71	4.6/70	4.2	8.2	31	28.0
	S3	4.8/73	4.8/72	2.2	6.0	31	28.0
	S4	4.9/72	5.1/76	3.3	6.6	31	27.5



MTL-ACTS

Location Sampling Date	Measurement Point	Dissolved Oxygen (mg/L)		Turbidity (NTU) Average	Suspended Solids (mg/L) Average	Temperature (°C)	
		Average	At 2m above seabed			Air	Water
Sok Kwu Wan Sep 2, 2003 (10:10-10:45) mid-flood	SC1	6.3/96	6.3/96	2.7	6.1	30	28.5 ✓
	SC2	6.2/94	6.1/93	3.1	7.4	30	28.5 ✓
	S1	6.6/102	6.5/100	2.5	7.7	30	28.5 ✓
	S2	6.5/98	6.6/99	2.5	8.0	30	28.5 ✓
	S3	6.5/99	6.5/98	2.6	8.1	30	28.5 ✓
	S4	6.5/98	6.4/97	2.6	7.9	30	28.5 ✓
Sok Kwu Wan Sep 9, 2003 (12:30-13:10) mid-ebb	SC1	5.3/82	5.3/81	1.7	3.6	30	27.5 ✓
	SC2	6.0/92	5.9/89	2.0	4.5	30	27.5 ✓
	S1	6.0/91	5.6/85	1.8	4.4	30	27.5 ✓
	S2	5.6/86	5.3/82	1.9	4.6	30	27.5 ✓
	S3	5.7/87	5.3/82	1.9	4.0	30	27.5 ✓
	S4	5.4/84	5.3/80	1.8	4.3	30	27.5 ✓
Sok Kwu Wan Sep 16, 2003 (10:30-11:10) mid-flood	SC1	5.6/82	5.4/81	1.9	4.6	29	27.5 ✓
	SC2	5.7/86	5.6/85	4.0	7.9	29	27.5 ✓
	S1	5.6/84	5.6/85	3.8	7.2	29	27.5 ✓
	S2	5.5/82	5.5/84	3.3	7.0	29	27.5 ✓
	S3	5.4/81	5.5/82	2.6	6.5	29	27.5 ✓
	S4	5.7/83	5.5/81	2.2	5.0	29	27.5 ✓
Sok Kwu Wan Sep 22, 2003 (10:10-10:50) mid-ebb	SC1	5.6/85	5.3/81	1.7	3.8	27	28.0 ✓
	SC2	6.9/103	6.2/94	1.5	5.5	27	28.0 ✓
	S1	6.0/91	5.2/80	1.5	4.5	27	28.0 ✓
	S2	5.8/87	4.7/70	1.5	5.1	27	28.0 ✓
	S3	6.0/91	5.5/85	1.8	5.2	27	28.0 ✓
	S4	6.4/97	5.9/91	1.6	5.8	27	28.0 ✓



Location	Measurement Point	Dissolved Oxygen (mg/L / %)		Turbidity (NTU)	Suspended Solids (mg/L)	Temperature (°C)	
		Average	At 2m above Seabed	Average	Average	Air	Water
Sok Kwu Wan <u>Oct 3, 2003</u> (14:45-15:30) Mid-flood	SC1	6.1/93	6.0/91	2.5	10	30	28.5
	SC2	6.3/95	6.2/97	3.9	8.8	30	28.5
	S1	6.3/97	6.2/96	3.5	6.1	30	28.5
	S2	6.3/96	6.2/95	3.7	15	30	28.5
	S3	6.2/95	6.1/95	3.8	12	30	28.5
	S4	6.3/95	6.2/95	3.3	11	30	28.5
Sok Kwu Wan <u>Oct 8, 2003</u> (11:45-12:25) mid-ebb	SC1	5.4/83	5.3/83	2.8	4.3	28	28.0
	SC2	6.1/93	6.0/93	2.4	6.6	28	28.0
	S1	5.2/78	5.0/76	2.8	6.9	28	28.0
	S2	5.2/78	5.0/74	2.7	7.2	28	28.0
	S3	5.3/80	5.2/78	2.4	6.4	28	28.0
	S4	5.4/82	5.2/79	2.6	6.3	28	28.0
Sok Kwu Wan <u>Oct 14, 2003</u> (13:45-14:25) mid-ebb	SC1	5.0/73	4.8/69	4.1	6.6	24	28.0
	SC2	5.7/89	5.7/88	4.1	8.0	24	27.5
	S1	4.9/75	4.9/75	5.1	9.9	24	27.5
	S2	5.3/78	5.2/78	4.5	9.3	24	27.5
	S3	5.2/77	5.1/74	4.7	9.1	24	27.5
	S4	5.2/79	5.1/77	4.8	9.7	24	27.5
Sok Kwu Wan <u>Oct 21, 2003</u> (15:45-16:20) mid-flood	SC1	4.8/72	4.9/73	2.3	5.4	28	26.5
	SC2	5.9/90	5.9/90	2.6	7.2	28	26.5
	S1	6.1/92	6.0/91	2.1	6.6	28	27.0
	S2	6.1/92	6.1/92	2.7	6.2	28	26.5
	S3	6.0/91	6.0/91	2.4	6.8	28	26.5
	S4	6.0/91	6.0/91	2.3	6.8	28	26.5
Sok Kwu Wan <u>Oct 28, 2003</u> (13:45-14:25) mid-ebb	SC1	6.1/91	6.0/90	2.0	4.7	29	26.5
	SC2	5.8/88	5.8/88	2.8	8.2	29	26.5
	S1	6.2/92	6.0/91	2.5	6.1	29	26.5
	S2	6.5/98	6.3/94	2.2	5.2	29	26.5
	S3	5.9/89	5.8/88	2.5	6.4	29	26.5
	S4	6.1/92	6.0/91	2.2	7.5	29	26.5



MTL-ACTS

Location	Measurement Point	Dissolved Oxygen (mg/L / %)		Turbidity (NTU)	Suspended Solids (mg/L)	Temperature (°C)	
		Average	At 2m above seabed	Average	Average	Air	Water
Sok Kwu Wan 3-Nov-2003 (15:30-16:10) *mid-flood*	SC1	6.4/102	6.2/100	2.3	5.3	32	26.5
	SC2	6.3/93	6.3/93	1.9	5.1	32	26.5
	S1	6.8/102	6.8/100	2.6	5.5	32	26.5
	S2	6.9/101	6.8/101	2.8	7.4	32	26.5
	S3	6.8/101	6.7/100	2.8	6.6	32	26.5
	S4	6.7/101	6.6/100	2.3	6.7	32	26.5
Sok Kwu Wan 13-Nov-2003 (14:00-14:35) *mid-ebb*	SC1	6.1/89	5.7/83	2.5	5.1	24	24.0
	SC2	6.3/93	6.3/92	3.1	7.0	24	25.0
	S1	6.1/88	6.0/87	3.4	7.9	24	24.5
	S2	6.2/90	6.0/87	2.8	5.7	24	24.5
	S3	6.0/87	6.0/87	3.0	6.9	24	24.5
	S4	6.4/93	6.1/89	2.9	7.0	24	24.5
Sok Kwu Wan 19-Nov-2003 (14:30-15:05) *mid-flood*	SC1	5.9/88	5.9/88	3.8	6.5	25	24.0
	SC2	6.4/93	6.3/92	3.0	8.2	25	24.5
	S1	6.1/90	6.1/90	3.5	7.4	25	24.0
	S2	6.1/91	6.1/91	3.2	8.1	25	24.5
	S3	6.2/91	6.1/90	3.4	7.8	25	24.0
	S4	6.2/91	6.2/91	3.8	9.1	25	24.5
Sok Kwu Wan 26-Nov-2003 (14:30-15:10) *mid-ebb*	SC1	6.0/86	5.8/82	3.2	5.5	25	24.0
	SC2	6.5/93	6.1/87	4.5	9.2	25	23.5
	S1	6.3/90	6.0/86	3.7	9.0	25	24.0
	S2	6.1/87	6.0/85	3.9	7.9	25	24.0
	S3	6.3/92	6.1/87	3.7	8.4	25	24.0
	S4	6.2/89	6.1/88	3.6	8.8	25	24.0



Location	Measurement Point	Dissolved Oxygen (mg/L / %)		Turbidity (NTU)	Suspended Solids (mg/L)	Temperature (°C)	
		Average	At 2m above Seabed	Average	Average	Air	Water
Sok Kwu Wan	SC1	6.5/88	6.2/86	3.1	4.7	23	22.0
<u>Dec 03, 2003</u>	SC2	6.5/91	6.5/91	3.0	6.2	23	22.5
(15:45-16:25)	S1	6.8/94	6.7/94	3.1	7.0	23	22.5
mid-flood	S2	6.8/95	6.6/92	3.0	8.2	23	22.0
	S3	6.9/95	6.7/94	3.5	8.5	23	22.0
	S4	6.9/95	6.7/92	3.3	7.5	23	22.0
Sok Kwu Wan	SC1	6.7/93	6.4/89	3.9	7.2	18	21.0
<u>Dec 12, 2003</u>	SC2	6.4/89	6.3/88	7.6	12	18	21.0
(13:15-13:55)	S1	7.0/96	6.9/94	4.0	7.9	18	21.0
mid-ebb	S2	6.7/92	6.5/90	4.1	9.2	18	21.0
	S3	6.9/95	6.8/95	3.6	7.2	18	21.0
	S4	6.9/95	6.9/94	3.4	7.1	18	21.0
Sok Kwu Wan	SC1	6.7/88	6.5/85	2.3	6.9	19	20.0
<u>Dec 16, 2003</u>	SC2	7.2/97	7.1/95	2.6	7.3	19	20.0
(12:20-13:00)	S1	7.4/99	7.2/96	2.5	8.1	19	20.0
mid-flood	S2	7.3/98	7.3/99	2.9	7.9	19	20.0
	S3	7.4/100	7.4/99	2.4	7.7	19	20.0
	S4	7.3/98	7.3/97	2.3	7.7	19	20.0
Sok Kwu Wan	SC1	7.1/95	7.0/94	2.2	8.1	20	18.5
<u>Dec 23, 2003</u>	SC2	7.2/95	7.0/93	2.7	10	20	19.0
(11:35-12:10)	S1	7.3/97	7.2/96	3.0	9.4	20	18.5
mid-ebb	S2	7.4/98	7.3/97	2.6	8.9	20	18.5
	S3	7.4/98	7.3/97	2.8	11	20	19.0
	S4	7.3/97	7.3/97	2.5	7.7	20	19.0
Sok Kwu Wan	SC1	7.1/93	6.7/90	2.7	5.3	20	18.5
<u>Dec 30, 2003</u>	SC2	7.6/99	7.7/100	2.6	8.5	20	18.5
(12:30-13:10)	S1	7.6/100	7.6/100	1.9	6.7	20	18.5
mid-flood	S2	7.6/99	7.5/97	3.2	9.1	20	18.5
	S3	7.7/99	7.7/99	4.1	10	20	18.5
	S4	7.7/100	7.8/101	3.3	8.6	20	18.5



Location	Measurement Point	Dissolved Oxygen (mg/L / %)		Turbidity (NTU)	Suspended Solids (mg/L)	Temperature (°C)	
		Average	At 2m above Seabed	Average	Average	Air	Water
Sok Kwu Wan	SC1	8.1/105.2	8.7/103.3	3.1	5	19.8	18.7
Jan 02, 2004	SC2	9.3/120	9/116	1.4	3	19.8	18.7
(14:00-14:45)	S1	8.5/110.4	8.5/110.2	2.4	4	19.8	18.8
mid-flood	S2	8.3/108.4	8/104	4.4	6	19.8	18.7
	S3	8.4/109.2	8.2/106.4	3.4	6	19.8	18.9
	S4	8.3/107.1	8/103.3	3.6	5	19.8	18.8
Sok Kwu Wan	SC1	8.9/116.9	8.8/115.6	1.9	4	18.5	18.9
Jan 08, 2004	SC2	9/118.3	9/118.7	2.0	4	18.5	18.8
(12:00-12:45)	S1	8.5/111.2	8.4/110.2	4.8	7	18.5	18.9
mid-ebb	S2	8.4/111	8.2/108.2	2.7	5	18.5	18.9
	S3	8.6/113	8.7/114.5	2.3	5	18.5	18.9
	S4	8.9/115.3	8.6/111.7	2.4	4	18.5	19.0
Sok Kwu Wan	SC1	6.4/83.1	6.4/82.4	2.2	3	15.9	17.9
Jan 14, 2004	SC2	8/103.2	7.5/96.6	1.5	4	15.9	18.0
(11:05-11:55)	S1	6.9/89.3	7/91	2.1	4	15.9	17.9
mid-flood	S2	6.9/89	6.9/88.6	2.0	3	15.9	18
	S3	6.8/87.9	6.8/87.6	2.1	5	15.9	18
	S4	6.3/81.9	6.2/80.5	2.5	4	15.9	18
Sok Kwu Wan	SC1	5.6/71.8	5.5/70.1	2.7	4	10.6	17.2
Jan 20, 2004	SC2	7.3/93.2	7.1/91.1	3.2	5	10.6	17.4
(11:00-11:50)	S1	6.5/84.3	6.5/83.4	2.9	6	10.6	17.4
mid-ebb	S2	6.5/82.7	6.3/81	3.6	5	10.6	17.3
	S3	6.2/78.6	6.1/77.6	2.9	5	10.6	17.2
	S4	5.8/74.2	5.7/72.9	2.6	5	10.6	17.2
Sok Kwu Wan	SC1	7.3/89.8	7.2/89.0	3.4	5	13.3	16
Jan 26, 2004	SC2	8/98.8	7.9/97.7	5.7	8	13.3	16.4
(10:00-10:45)	S1	7.7/95.6	7.6/94.0	3.7	7	13.3	16.1
mid-flood	S2	7.8/96.1	7.7/94.9	3.9	6	13.3	16.2
	S3	7.8/96.1	7.7/94.8	3.6	6	13.3	16.1
	S4	7.3/90.1	7.2/88.5	3.3	6	13.3	16



Location	Measurement Point	Dissolved Oxygen (mg/L / %)		Turbidity (NTU)	Suspended Solids (mg/L)	Temperature (°C)	
		Average	At 2m above Seabed	Average	Average	Air	Water
Sok Kwu Wan	SC1	7.7/98.9	7.3/93.2	2.5	1	19.7	16.7
Feb 2, 2004	SC2	7.7/99.7	7.4/95.7	2.7	LT 1	19.7	16.8
(09:57:10:50)	S1	7.6/98.6	7.6/97.4	2.3	1	19.7	16.8
mid-flood	S2	7.2/93.2	6.9/89.1	2.0	LT 1	19.7	16.9
	S3	7.5/96.1	7.5/96.2	2.1	LT 1	19.7	16.7
	S4	8.0/102.8	7.8/100.8	2.8	2	19.7	16.7
Sok Kwu Wan	SC1	8.0/88.6	6.9/87.7	3.3	1	12.1	16.1
Feb 6, 2004	SC2	7.0/88.3	6.9/86.7	3.4	1	12.1	16.0
(12:30-13:20)	S1	6.5/81.6	6.4/80.2	3.6	2	12.1	15.6
mid-ebb	S2	6.4/80.4	6.2/78.7	2.9	1	12.1	15.8
	S3	6.7/84.9	6.6/84.6	2.9	2	12.1	15.9
	S4	7.0/89.4	6.9/88.5	3.4	2	12.1	16.2
Sok Kwu Wan	SC1	7.6/97.9	7.5/95.8	2.6	LT 1	17.8	16.9
Feb 12, 2004	SC2	7.3/94.5	7.2/92.2	2.6	1	17.8	16.9
(09:30-10:15)	S1	7.3/94.6	7.3/94.2	2.2	1	17.8	16.9
mid-flood	S2	7.4/95.2	7.4/96.0	2.5	1	17.8	16.9
	S3	7.2/92.8	7.1/92.2	2.3	LT 1	17.8	16.9
	S4	7.5/96.3	7.3/94.6	3.7	1	17.8	16.7
Sok Kwu Wan	SC1	7.2/93.5	7.1/92.6	3.9	1	18.8	18.0
Feb 18, 2004	SC2	7.1/91.9	6.7/88.3	4.2	2	18.8	18.1
(11:05-12:05)	S1	7.2/93.2	7.2/93.7	3.8	1	18.8	17.9
mid-flood	S2	7.3/95.0	7.4/96.3	3.5	1	18.8	18.0
	S3	7.3/94.5	7.2/92.6	3.6	LT 1	18.8	18.0
	S4	7.4/95.1	7.2/93.0	4.5	2	18.8	17.9
Sok Kwu Wan	SC1	7.5/100.4	7.6/103.1	6.3	2	20.5	19.0
Feb 24, 2004	SC2	7.8/105.8	7.8/105.5	3.7	1	20.5	19.4
(09:30-10:15)	S1	7.5/101.4	7.4/100.2	4.1	1	20.5	19.3
mid-flood	S2	7.3/98.9	7.2/97.0	3.2	2	20.5	19.1
	S3	7.0/94.3	6.9/92.8	3.4	1	20.5	19.2
	S4	7.8/105.3	7.3/98.0	4.6	2	20.5	19.5



Location	Measurement Point	Dissolved Oxygen		Turbidity (NTU)	Suspended Solids (mg/L)	Temperature (°C)	
		(mg/L / %)				Air	Water
		Average	At 2m above Seabed	Average	Average		
Sok Kwu Wan Mar 1, 2004 (09:20-10:05) *mid-flood*	SC1	6.8/92.6	6.1/84.0	2.0	1	24.2	20.2
	SC2	7.0/95.5	6.8/92.4	1.6	LT 1	24.2	20.1
	S1	7.0/96.8	7.0/95.9	1.3	LT 1	24.2	20.2
	S2	6.9/94.6	6.8/93.7	1.5	LT 1	24.2	20.3
	S3	6.9/94.6	6.8/93.7	1.2	1	24.2	20.3
	S4	7.1/96.9	6.9/94.4	2.2	1	24.2	20.1
Sok Kwu Wan Mar 5, 2004 (12:30-13:35) *mid-ebb*	SC1	7.8/99.7	7.7/99.2	2.7	1	20.5	19.9
	SC2	7.8/99.9	7.7/98.5	3.6	2	20.5	19.9
	S1	8.0/101.9	7.9/101.4	3.1	1	20.5	19.9
	S2	7.9/100.8	7.8/100.5	3.0	LT 1	20.5	19.9
	S3	8.0/102.7	7.9/101.3	3.0	2	20.5	20.0
	S4	8.0/101.9	7.9/101.1	4.2	2	20.5	19.9
Sok Kwu Wan Mar 11, 2004 (09:30-10:15) *mid-flood*	SC1	7.2/98.9	7.1/96.4	2.1	1	22.5	20.2
	SC2	7.1/97.3	6.9/94.9	1.6	1	22.5	20.3
	S1	7.0/97.1	7.0/96.5	2.1	2	22.5	20.3
	S2	6.9/95.2	6.7/91.9	2.4	1	22.5	20.3
	S3	7.0/96.6	7.0/95.6	3.3	1	22.5	20.1
	S4	7.0/96.1	6.9/93.8	6.9	3	22.5	19.9
Sok Kwu Wan Mar 17, 2004 (11:15-12:05) *mid-ebb*	SC1	7.9/110.6	7.7/108.2	6.3	2	24.1	23.2
	SC2	7.6/106.8	7.0/98.6	14.8	6	24.1	23.1
	S1	8.2/114.7	8.1/113.4	7.0	4	24.1	22.4
	S2	7.4/104.2	6.8/95.5	6.1	3	24.1	22.8
	S3	7.9/111.3	7.6/107.9	2.7	2	24.1	23.5
	S4	8.0/112.3	7.7/108.3	9.2	4	24.1	22.8
Sok Kwu Wan Mar 23, 2004 (13:35-14:05) *mid-flood*	SC1	6.9/95.3	7.0/95.8	2.5	1	20.9	20.3
	SC2	6.9/95.5	6.9/95.3	5.3	2	20.9	20.2
	S1	6.9/95.4	6.9/95.2	2.7	LT 1	20.9	20.4
	S2	6.7/91.9	6.6/90.9	3.4	LT 1	20.9	20.4
	S3	6.8/94.2	6.9/94.9	3.1	2	20.9	20.4
	S4	7.3/99.6	7.2/99.2	3.4	2	20.9	20.1



Location	Measurement Point	Dissolved Oxygen (mg/L / %)		Turbidity (NTU)	Suspended Solids (mg/L)	Temperature (°C)	
		Average	At 2m above Seabed	Average	Average	Air	Water
Sok Kwu Wan Mar 29, 2004 (09:00-09:50) *mid-ebb*	SC1	7.5/94.5	7.4/93.8	2.7	LT 1	19.7	19.8
	SC2	7.9/95.9	7.1/97.2	3.4	LT 1	19.7	20.1
	S1	7.8/95.2	7.8/94.7	3.8	2	19.7	20.2
	S2	7.3/94.3	7.3/93.2	3.7	1	19.7	20.0
	S3	7.6/93.6	7.4/93.7	2.9	1	19.7	20.0
	S4	7.3/93.3	7.2/93.9	3.2	2	19.7	20.0