The Hongkong Electric Co Ltd
香港電燈有限公司

ENVIRONMENTAL IMPACT ASSESSMENT (EIA) ORDINANCE, CAP. 499

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LAMMA POWER STATION
NAVIGATION CHANNEL IMPROVEMENT

Report Title	Final EM&A Summary Report
Date	05/05/2005
Certified by	(Mr. Ip Tat-Yan, Environmental Team Leader)
Verified by	(Nature & Technologies (HK) Ltd, Independent Environmental Checker)

香港電燈有限公司
The Hongkong Electric Co., Ltd.

Lamma Power Station
Navigation Channel Improvement
Final EM&A Summary Report

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EXECUTIVE SUMMARY

This is the final Environmental Monitoring and Audit (EM&A) summary report for the Project "Lamma Navigation Channel Improvement" prepared by the Environmental Team (ET). This report presents the data of post-project monitoring on marine water quality and summarizes the EM&A results obtained during the baseline, impact and post-project monitoring periods.

Post-project Marine Water Quality Monitoring

After the completion of all dredging activities, a post-project monitoring was carried out for four weeks from 14th February 2005 to 12th March 2005 in the same manner as the impact monitoring in accordance with the EM&A Manual.

Summary of Marine Water Quality Monitoring Results

Marine water quality monitoring for the dredging works was conducted for three different phases (viz. the baseline, impact and post-project monitoring) at the 10 monitoring stations designated in the EM&A Manual.

Comparison of monitoring results taken during the baseline, impact and post-project periods demonstrates that there was no significant deterioration of water quality during the dredging works and water quality around the project area had returned to ambient conditions after completion of all dredging activities. These support the EIA predictions in water quality assessment that the Project would not cause unacceptable environmental impacts both during and after the construction of the Project with the implementation of the mitigation measures and good site practice recommended in the EIA report.

Environmental Audit

There were two environmental incidents regarding the dumping of dredged mud. After investigations, it was found that both cases were due to the malfunction of the equipment of the hopper barges. Both cases have been reported to EPD through IEC and recorded in the ET Leader's log-book.

There were seventeen (17) cases of Action Level exceedance during the entire period of impact monitoring. All the cases were contributed by Dissolved Oxygen (Bottom). For these exceedances, comprehensive investigations had been carried out. The exceedances were considered not related to dredging activities.

Environmental Complaints, Summons and Prosecutions

There were two environmental enquiries received from EPD. After investigations, it was found that there had not been non-compliances with EP condition and both cases were explained to the satisfaction of EPD. There was no summon or prosecution received for the project.

Concluding Remarks

It is concluded that the environmental performance of the project was generally satisfactory. The post-project marine water quality monitoring results verified the return of ambient level after the completion of the project.

1. INTRODUCTION

1.1 Background

The Environmental Team (hereinafter called the "ET") was formed within the Hongkong Electric Co. Ltd (HEC) to undertake Environmental Monitoring and Audit for "Lamma Power Station Navigation Channel Improvement" (hereinafter called the "Project"). In accordance with the EM&A Manual, environmental monitoring of water quality and regular environmental audits are required for the Project.

The Project involves restoring the depth of existing channel by dredging to a water depth of –16 mPD approximately with an estimated total dredged volume of 2.98 million m^3.

The Project Area is illustrated in Figure 1.1. The shaded area shows the region of the Channel where dredging was required under this Project. There was already sufficient water depth in the remaining section of the Channel in the south (beyond the shaded area in Figure 1.1) and no dredging was required.

The dredging options for the Project were:
(1) continuous dredging using grab dredgers with cage-type silt curtains or
(2) intermittent dredging using one Trailer Suction Hopper Dredger (TSHD).

Only one of these two dredging options was deployed. The contractor chose to adopt the continuous dredging method using grab dredgers with cage-type silt curtains.

1.2 Project Organisation

The management structure to oversee the Project includes the following:

- Environmental Protection Department (The Authority);
- Chief Engineer (Projects) (The official contact person between HEC and EPD);
- Engineer;
- Independent Environmental Checker (IEC);
- Environmental Team (ET);
- Contractor.

The project organisation chart for the construction EM&A programme is shown in Appendix A.

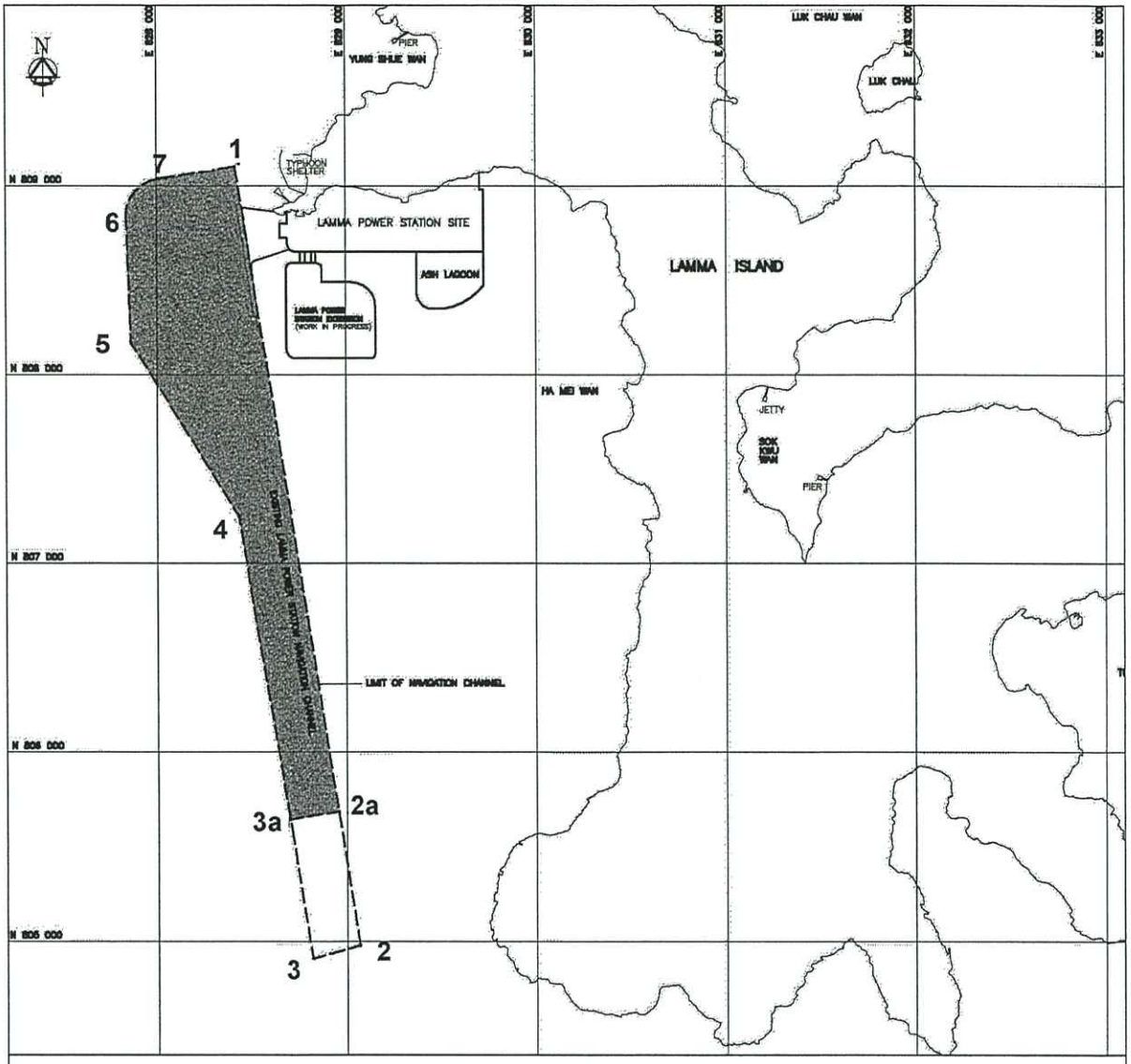
1.3 Construction Works Undertaken

Construction activities undertaken during the construction period were dredging and dumping of dredged mud and was completed on 26th November 2004.

The main construction activity carried out and its corresponding environmental mitigation measures are summarized in Table 1.1. The implementation of major mitigation measures is provided in Appendix I.

Table 1.1 Construction Activities and Their Corresponding Environmental Mitigation Measures

Construction Activities	**Environmental Mitigation Measures**
Dredging	**Water Quality** – Three number of grab dredger with grab capacity of no less than $8m^3$ was operated on site. – Both maximum total hourly and daily dredging rates specified in the latest dredging schedule were strictly followed. – Daily dredging volume was spread as evenly as possible over the 24-hour period. – Cage-type silt curtains were deployed for the grab dredgers. – The grab was tightly closed and the hoist speed was suitably low. – All barges for transportation of dredged materials were fitted with tight bottom seals. **Noise** – General noise mitigation measures were employed at work site throughout the construction phase. – The number of dredgers and operation conditions as specified in the CNP were strictly followed. **Dredging Waste** – All vessels for marine transportation of dredged sediment were fitted with tight fitting seals at the bottom openings to prevent leakage. – All vessels were filled to a level such that dredged materials would not spill over during loading and transportation. – Dredged wastes were disposed of at licensed dumping sites. – Records of the quantities of waste generated and disposed of off-site were taken. **Marine Ecology** – All construction related vessels approached the site from the designated route to avoid the Finless Porpoise habitat area. – The dumping of chemicals, rubbish, oils etc. into the water was strictly prohibited.



SETTING OUT OF NAVIGATION CHANNEL LIMIT

POINT	EASTING (m)	NORTHING (m)
1	828 414.393	809 101.605
2	829 057.326	804 979.151
3	828 815.532	804 906.872
4	828 430.000	807 250.000
5	827 864.900	808 168.200
6	827 843.188	808 808.639
7	828 009.441	809 037.467

SETTING OUT OF POINT "2a" & "3a"

POINT	EASTING (m)	NORTHING (m)
2a	828 956.222	805 680.533
3a	828 704.149	805 608.273

Figure 1.1 Layout of Work Site

2. POST-PROJECT MARINE WATER QUALITY MONITORING

2.1 Monitoring Requirements

After the completion of all dredging activities, the post-project monitoring was carried out for four weeks from 14th February 2005 to 12th March 2005 in the same manner as the impact monitoring in accordance with the EM&A Manual.

2.2 Monitoring Locations

A total of 10 water quality monitoring locations were selected. 7 Sensitive Receiver (SR) stations were chosen on the basis of their proximity to the construction site. 3 Marine Control stations (CS) as recommended in the EIA were selected to facilitate comparison of the water quality of the SR stations with ambient water quality conditions. Table 2.1 describes the locations of these monitoring stations. Their locations are shown in Figure 2.1.

Table 2.1 Water Quality Monitoring Locations

Type	Monitoring Location	HK Metric Grid E	HK Metric Grid N
Sensitive Receiver Stations	SR6	830 150	811 500
	SR7	829 004	810 903
	SR10	829 194	808 600
	SR11	830 119	808 650
	SR12	830 386	807 189
	SR14	829 977	805 758
	SR15	829 566	804 545
Marine Control Stations	CS1	828 000	813 492
	CS2	825 000	808 000
	CS3	829 000	802 000

2.3 Monitoring Equipment

Table 2.2 summarizes the equipment used in the water-quality monitoring programme.

Table 2.2 Water Quality Monitoring Equipment

Equipment	Detection Limit
YSI 6920 Water Quality Monitor	Temperature: -5 to 45 ^{0}C; +/- 0.15 ^{0}C Salinity: 0 to 70 ppt; +/- 0.1 ppt Dissolved Oxygen: 0 to 200%; +/- 0.2% 0 to 20 mg/L; +/- 0.2 mg/L

Equipment	Detection Limit
	Turbidity: 0 to 1000 NTU; +/- 5% of the range pH: 0 to 14 units; +/- 0.2 units
Trimble NT300D GPS	Accuracy better than 3m
Eagle Fisheasy ST Portable Depth Finder	Accuracy better than 0.5m

2.4 Monitoring Parameters and Frequency

Table 2.3 summarizes the monitoring parameters and frequencies of water quality monitoring. The post-project monitoring schedule is shown in Appendix C.

Table 2.3 Water Quality Monitoring Parameters and Frequency

Monitoring Stations	Parameters	Frequency	No. of Depths	No. of Samples
Sensitive Receiver Stations SR6, SR7, SR10, SR11, SR12, SR14 & SR15 Marine Control Stations CS1, CS2, CS3	• Depth, m • Temperature, °C • Salinity, ppt • DO, mg/L • DO Saturation, % • Turbidity, NTU • SS, mg/L • pH	Three times per week	3 Surface, Mid-Depth and Bottom	2 Mid-ebb and Mid-flood

2.5 Monitoring Procedures and Calibration Details

Monitoring Procedures

- The monitoring stations were accessed using survey boat to within 3m, guided by Differential Global Positioning System (DGPS).
- The water depth of the monitoring location at sampling time was measured using depth meter. Afterwards, the probes of the in-situ measurement equipment were lowered to the predetermined depths and the measurements taken accordingly.
- A water sampler was lowered into the water to the required sampling depths. Upon reaching the pre-determined depth, a messenger to activate the sampler was released which travel down the wire. The water sample was sealed within the sampler before retrieving.
- All measurements were taken at 3 water depths where appropriate, namely 1m below water surface, mid-depth, and 1 meter from seabed, except where the water

depth was less than 6m, whereupon the mid-depth measurement would be omitted. If the water depth was less than 3m, only the mid-depth position was monitored.

- One duplicate in-situ measurement and water sample for laboratory analyses were taken at all sampling locations.

- At each measurement depth, two consecutive measurements were taken. The probe was retrieved out of the water after the first measurement and then redeployed for the second measurement. When the difference in value between the first and second measurement of on-site parameters was more than 25% of the value of the first reading, the reading was discarded and further readings were taken.

- A water sampler, consisting of a transparent PVC or glass cylinder of not less than two litres which could be effectively sealed with cups at both ends, was used. The water sampler had a positive latching system to keep it open and prevent premature closure until released by a messenger when the sampler was at the selected water depth.

- Water samples for SS measurements were transferred directly to high density polythene sample bottles, packed in ice (cooled to 4°C without being frozen), and delivered to a HOKLAS laboratory as soon as possible after collection.

- In addition, field information such as the general meteorological conditions and observations regarding any significant activities in the vicinity of each monitoring location were also recorded.

Equipment Calibration

The equipment deployed for in-situ measurement of marine water quality was calibrated before use. The methodologies for the calibration follow the instruction manuals provided by the corresponding manufacturers. The calibration records are shown in Appendix B.

Laboratory Analysis & QA/QC

The collected marine water samples were analyzed for Suspended Solids with methodologies shown in Table 2.4.

Table 2.4 Laboratory Analysis Methodologies of Marine Water Samples

Parameter	**Method**	**Limit of Reporting (mg/L)**
Suspended Solids	APHA 17 ed 2540 D	1.0

In order to ensure that the laboratory analysis works were carried out properly, stringent QA/QC procedures (which include sample preparation as well as subsequent instrumentation analysis) were followed. According to the requirements stipulated in the EM&A Manual, QA/QC requirements for laboratory testing include:

1) "Blind" duplicate samples analysis of 10% collected marine water samples; and
2) in-house QA/QC procedures of the testing laboratory (this includes the use of blank, batch duplicates and quality control samples).

Blind Duplicate:
In order to cross check the accuracy of the measurement results by the laboratory analysis, "blind" duplicate samples of 10% of the collected marine water samples were analyzed alongside the normal samples. The sample codes for the "blind" duplicates were determined by the sampling team and are not identifiable by the laboratory. The results of the "blind" duplicate samples are summarized in Appendix B.

Blank:
A laboratory blank is an analyte free matrix to which all reagents are added in the same volumes or proportions as used in the standard sample preparation to monitor contamination introduced in laboratory. All the laboratory blank values and acceptance criterion of suspended solids are summarized in Appendix B.

Batch Duplicate:
Batch duplicate is an intra-laboratory split sample randomly selected from the sample batch to monitor the method precision in a given matrix. The acceptance limit of duplicate values of suspended solids and their duplicate results are summarized in Appendix B.

Quality Control Sample:
The quality control sample is the analysis of a material with a known concentration of contaminants to determine the accuracy of results in a given matrix. The results of quality control samples for suspended solids are shown in Appendix B.

A total of 1440 sets of samples for Suspended Solids analysis were received during the post-project marine monitoring period including both ebb and flood tides. At least 5% laboratory blanks, batch duplicates and quality control samples for Suspended Solids were used. The acceptance criteria are outlined in Quality Control data.

The QA/QC results in Appendix B indicated that the laboratory analysis works of the collected post-project marine water samples were properly carried out and the measurement results obtained were valid in accordance with the Hong Kong Laboratory Accreditation Scheme (HOKLAS) requirements. Moreover, the "blind" duplicate measurement results indicated that the precision of the measurements for Suspended Solids complied with HOKLAS requirements.

2.6 Post-project Water Quality Monitoring Results

Water quality results of the post-project monitoring are provided in Appendix D.

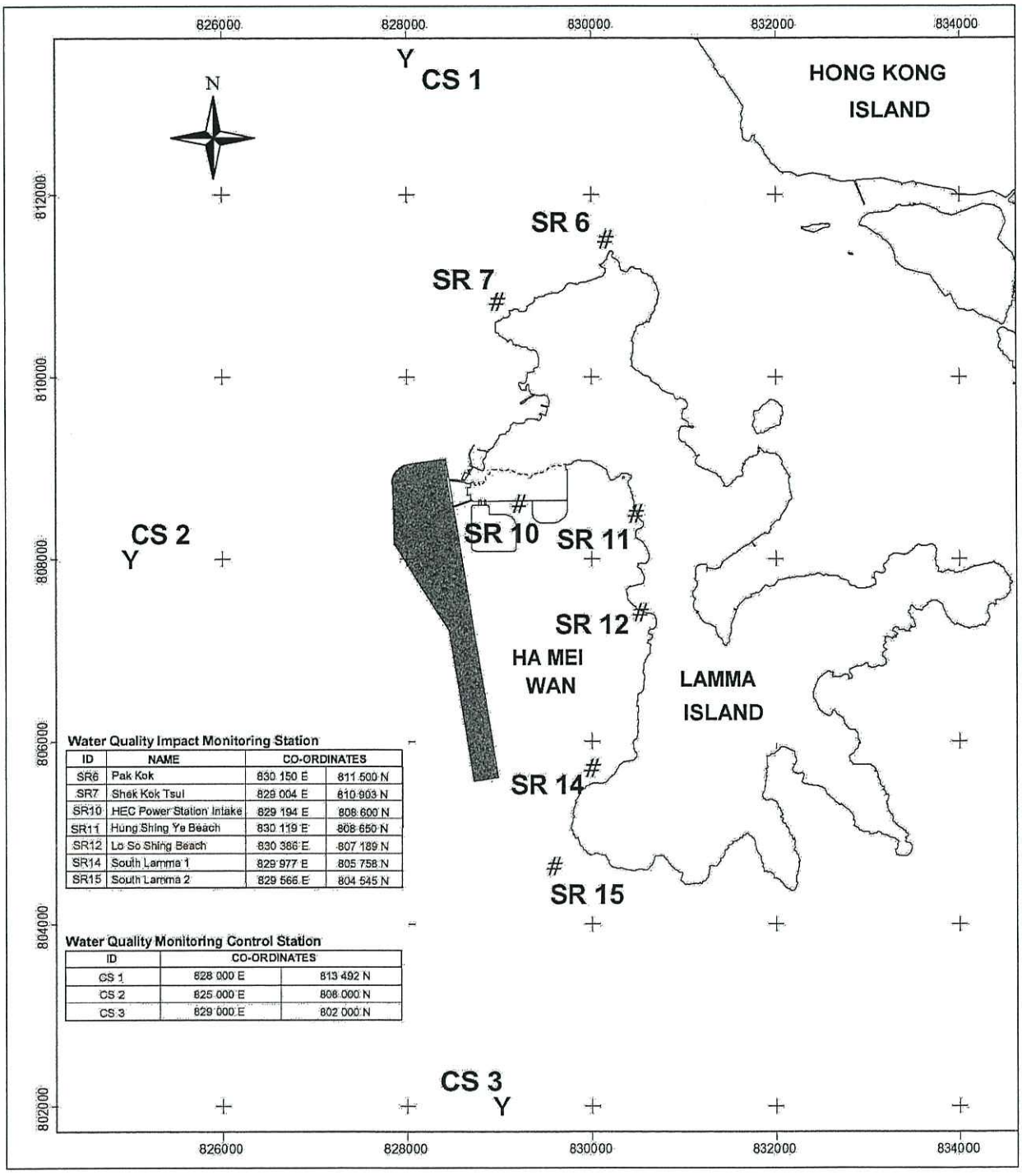


Figure 2.1 Location of Water Quality Monitoring Stations

3. SUMMARY OF MARINE WATER QUALITY MONITORING RESULTS

The marine water quality monitoring for the dredging works was conducted for three different phases (viz. the baseline, impact and post-project monitoring periods) at the 10 monitoring stations designated in the EM&A Manual. A summary of the monitoring periods is provided in Table 3.1.

Table 3.1 Summary of Monitoring Periods

Marine Water Quality Monitoring	Date
Baseline Monitoring	31/03/2003 – 26/04/2003
Impact Monitoring	10/06/2003 – 29/12/2003, 23/02/2004, 02/06/2004 – 30/08/2004, 25/10/2004 – 29/10/2004, 01/11/2004, 26/11/2004
Post-project Monitoring	14/02/2005 – 12/03/2005

Note: No impact monitoring for marine water quality was carried out during the periods when dredging works were suspended.

The baseline monitoring established the ambient conditions and Action and Limit (AL) levels prior to the commencement of works. Appendix E shows the established AL levels for water quality.

During the course of dredging operations for the project, the impact monitoring was carried out and the data collected was checked against the AL levels set out in the Baseline Monitoring Report (Revision 1). The purpose is to ensure that deterioration of water quality, if any, would be detected and that timely action could be taken to rectify the situation.

After the completion of all dredging activities, the post-project monitoring work was carried out for four weeks. It is to demonstrate the return of ambient conditions as recorded during the baseline monitoring programme and confirm no unexpected adverse environmental impact due to the dredging activities.

3.1 Graphical Presentation

Graphical presentations of the baseline, impact and post-project monitoring results for flood and ebb tides are provided in Appendix F. Dredging was commenced on 18th June 2003 and completed on 26th November 2004.

3.2 Statistical Analysis of Monitoring Data

Averages and ranges of monitored parameters for each monitoring station during the monitoring periods are presented in Appendix G.

The averages of Dissolved Oxygen (DO), Turbidity and Suspended Solids (SS) during the baseline, impact and post-project monitoring are summarized in Table 3.2.

Table 3.2 Averages of Dissolved Oxygen, Turbidity & Suspended Solids

Monitoring Stations	Monitoring Period	Turbidity (NTU)	SS (mg/L)	DO (Surface & Middle) (mg/L)	DO (Bottom) (mg/L)
SR's	Baseline	8.4	13.0	7.2	7.2
	Impact	6.2	8.1	6.6 (dry season) 6.2 (wet season)	6.5 (dry season) 5.1 (wet season)
	Post-project	6.4	8.6	6.8	6.6
CS's	Baseline	8.1	12.0	7.1	7.1
	Impact	6.1	8.1	6.6 (dry season) 5.9 (wet season)	6.4 (dry season) 4.8 (wet season)
	Post-project	7.0	9.2	6.9	6.5

Notes: Dry season – from November to March
Wet season – from April to October

3.3 Comparing the Results of Impact Monitoring against Baseline Monitoring

As shown in Table 3.2, the average value of Turbidity at sensitive receiver stations (SR's) in impact monitoring (6.2 NTU) during the construction period was lower than that measured in baseline monitoring (8.4 NTU). Similarly, the average value of SS at SR's in impact monitoring (8.1 mg/L) was lower than that in baseline monitoring (13.0 mg/L). These indicate both the Turbidity and SS levels at sensitive receivers stations were low during the construction period.

The average values of DO (Surface & Middle) in dry season, DO (Bottom) in dry season and DO (Surface & Middle) in wet season at SR's in impact monitoring were 6.6 mg/L and 6.5 mg/L and 6.2 mg/L respectively, which were slightly lower than that measured in baseline monitoring (7.2 mg/L).

Regarding DO (Bottom) in wet season during the impact monitoring period, the average value at SR's (5.1 mg/L) was lower than that in baseline monitoring (7.2 mg/L). It is considered that the decrease in DO in impact monitoring was mainly caused by seasonal effect.

The amount of oxygen dissolved in seawater is affected by physical and meteorological parameters such as water temperature and salinity. Another influencing factor is the stratification that limits the mixing of the water column. Hence, DO at bottom layer is lower during wet season.

The seasonal effect can be demonstrated by:

- The average value of DO (Bottom) at control stations (CS's) measured during impact monitoring in wet season (4.8 mg/L) was lower than that in dry season (6.4 mg/L). As control stations represent ambient water quality conditions (i.e. not

affected by the Project's works), the results reflected that background DO (Bottom) level was generally lower in the wet season than in the dry season.

- In impact monitoring during wet season, the average value of DO (Bottom) at all SR's (5.1 mg/L) was even higher than that in CS's (4.8 mg/L). Therefore, DO (Bottom) level around the project area was not lower than the ambient level during the impact monitoring.

As indicated above, the dredging works did not cause deterioration of water quality at the sensitive receiver stations during the construction of the Project.

3.4 Comparing the Results of Post-project Monitoring against Baseline Monitoring

As shown in Table 3.2, the average value of Turbidity at sensitive receiver stations (SR's) in post-project monitoring (6.4 NTU) was lower than that measured in baseline monitoring (8.4 NTU). Similarly, the average value of SS at SR's in post-project monitoring (8.6 mg/L) was lower than that in baseline monitoring (13.0 mg/L). These indicate both the Turbidity and SS levels at sensitive receiver stations remained low after the completion of the Project.

Regarding DO, the average values of DO (Surface & Middle) and DO (Bottom) at SR's in the post-project monitoring were 6.8 mg/L and 6.6 mg/L respectively which were slightly lower than those measured in baseline monitoring (both were 7.2 mg/L). However, it is worth noting that similar results were obtained for DO (Surface & Middle) and DO (Bottom) at CS's during the post-project monitoring which were 6.9 mg/L and 6.5 mg/L respectively. As control stations represent ambient water quality conditions (i.e. not affected by the Project's works), this suggests that DO levels in the post-project monitoring around the project area were practically the same as the respective ambient levels.

As indicated above, the water quality at sensitive receiver stations has returned to ambient level after the completion of all dredging activities.

The above findings support the EIA predictions in water quality assessment that the Project would not cause unacceptable environmental impacts both during and after the construction of the Project with the full implementation of the mitigation measures summarized in Table 1.1 and good site practice recommended in the EIA report.

4. ENVIRONMENTAL AUDIT

4.1 Assessment of Environmental Monitoring Results

Summary of Exceedances

The number of exceedances recorded at each sensitive receiver station throughout the impact monitoring period is summarized in Table 4.1.

Table 4.1 Number of Exceedances at Sensitive Receiver Stations against AL Levels

Sensitive Receivers	A/L Level	Monitoring Parameters				Total
		DO(S&M)	DO(B)	Turbidity	SS	
SR6	Action	0	0	0	0	0
	Limit	0	0	0	0	0
SR7	Action	0	0	0	0	0
	Limit	0	0	0	0	0
SR11	Action	0	1	0	0	1
	Limit	0	0	0	0	0
SR12	Action	0	2	0	0	2
	Limit	0	0	0	0	0
SR14	Action	0	3	0	0	3
	Limit	0	0	0	0	0
SR15	Action	0	11	0	0	11
	Limit	0	0	0	0	0
Total	*Action*	0	17	0	0	17
	Limit	0	0	0	0	0

Review of Reasons for and the Implications of Non-compliance

There were seventeen (17) cases of Action Level exceedance during the entire impact monitoring period, 0.26% of total 6,650 controlled data. All these cases were contributed by Dissolved Oxygen (Bottom) and were recorded in July 2003 (i.e. in wet season). For these exceedances, comprehensive investigations had been carried out. It was found that similar measurement results were also obtained at the control stations during the monitoring periods. This suggested that the low measurement results might be due to seasonal background fluctuation. Hence, the exceedances were considered not related to dredging activities. No further action was required.

Summary of Actions Taken

For all AL level exceedances on controlled parameters, comprehensive investigations have been carried out. It was found that all exceedances were not related to site activities and have been explained to the satisfaction of EPD. Hence, no further action had to be devised. Nevertheless, the marine water quality results had been closely monitored in order to take corresponding actions to ensure the seawater quality during the impact-monitoring period.

Waste Management

The daily records of dredged / dumped volume of dredged material were already provided in the monthly EM&A reports. The maximum hourly and daily dredging rates actually achieved by the contractors were all within the limits specified in the dredging schedule. Table 4.2 summarizes the total amount of dredged material for each month.

Table 4.2 Total Amount of Dredged Material for Each Month

Month	Total Amount (m^3)
06/2003	80,670
07/2003	279,720
08/2003	385,290
09/2003	424,980
10/2003	372,210
11/2003	552,600
12/2003	544,800
02/2004	7,500
06/2004	72,100
07/2004	113,400
08/2004	58,800
10/2004	14,000
11/2004	3,500

The total bulk volume of dredged material was 2,909,570 m^3.

4.2 Site Environmental Audit

There were two environmental incidents regarding the dumping of dredged mud. After investigations, it was found that both cases were due to the malfunction of the equipment of the hopper barges. Both cases have been reported to EPD through IEC and recorded in the ET Leader's log-book. The details are given in Table 4.3 below.

Table 4.3 Environmental Instance / Circumstance

Log No.	Details of Instance / Circumstance	Investigation / Action Taken
2003/001	Hopper barge No. 21470V accidentally dumped one barge load of dredged mud at about 1.5 km from Lamma Power Station dredging site around 06:30 a.m. on 25/6/2003 due to hydraulic system failure.	The hopper was immediately towed away and the incident was reported to EPD by the contractor by letter on 26/6/2003. The said hopper barge was not deployed for any loading or dumping operations until the defects of the barge had been fully rectified. This incident had been recorded in the ET Leader's log-book.
2004/001	Hopper barge No. 21637V dumped about 500m^3 of marine mud at the dredging site at 05:45 a.m. on 5/6/2004 due to mechanical failure. The short dumping location was actually within the site boundary of the project.	The hopper barge was towed away from the site at 10:00a.m. on 5/6/2004 for examination and repair. The contractor verbally informed EPD of the incident on 5/6/2004 at 09:30a.m. A detailed report was also submitted to EPD on 7/6/2004 by the contractor. The said hopper barge was not deployed for any loading or dumping operations again until the defect of the barge had been fully rectified. This incident had been recorded in the ET Leader's log-book.

4.3 Implementation Status of Environmental Mitigation Measures

Mitigation measures detailed in the permits and the EM&A Manual were required to be implemented. A summary of the Environmental Mitigation Implementation Schedule (EMIS) is presented in Appendix I.

4.4 Implementation Status of Event/Action Plans

The Event/Action Plans for water quality extracted from the EM&A Manual on marine water quality monitoring are presented in Appendix H.

4.5 Summary of Enquiries/Complaints Received

There were two environmental enquiries received from EPD. After investigations, it was found there had not been non-compliances with EP condition and both cases had been explained to the satisfaction of EPD. The details are given in Table 4.4 below.

Table 4.4 Environmental Complaints / Enquiries Received

Case Reference / Date, Time Received / Date, Time Concerned	Descriptions /Actions Taken	Conclusion / Status
Ref.: 20031101NCI Received: By fax on 14/11/03 p.m. Concerned: On 13/11/03 around 14:50	EPD informed HEC that muddy water was noted outside the silt curtain surrounding the dredging point of the project at the concerned period and requested HEC to follow up. An investigation was immediately carried out and it was concluded the incident was not a non-compliance with the EP. Nonetheless, with a view to further minimizing potential water quality impacts, the dredging contractor had carried out special inspection and maintenance works between 14/11/03 and 15/11/03. The contractor was also instructed to closely monitor the dredging operation and take appropriate actions when necessary.	The observed phenomenon was not a non-compliance. Nonetheless, special attention would be paid in the future to further minimize potential water quality impacts. Case closed.
Ref.: 20040701NCI Rec'd: 15/07/2004 13:00 Concerned: As received	EPD informed the contractor of the project that they observed from a helicopter a slurry water column at the back of a loaded hopper barge. The contractor then found a mechanical problem with the hopper barge and stopped using it at once. Though the incident was not considered as a non-compliance with the EP, HEC had reminded the contractor to closely monitor the dredging operation to avoid re-occurrence of the incident.	The incident was not a non-compliance. Nonetheless, attention would be paid to prevent it from occurring again. Case closed.

4.6 Summary Record of Notification of Summons and Successful Prosecutions

There was no summon or prosecution received for the Project.

5. CONCLUSION

Water quality monitoring for the Project was conducted during the baseline, impact and post-project periods.

Comparison of monitoring results taken at vicinity of sensitive receiver stations during the baseline, impact and post-project periods demonstrates that there was no significant deterioration of water quality during the dredging work and the water quality around the project had returned to ambient level after the completion of all dredging activities. These support the EIA predictions in water quality assessment that the Project would not cause unacceptable environmental impacts both during and after the construction of the Project with the implementation of the mitigation measures and good site practice recommended in the EIA report.

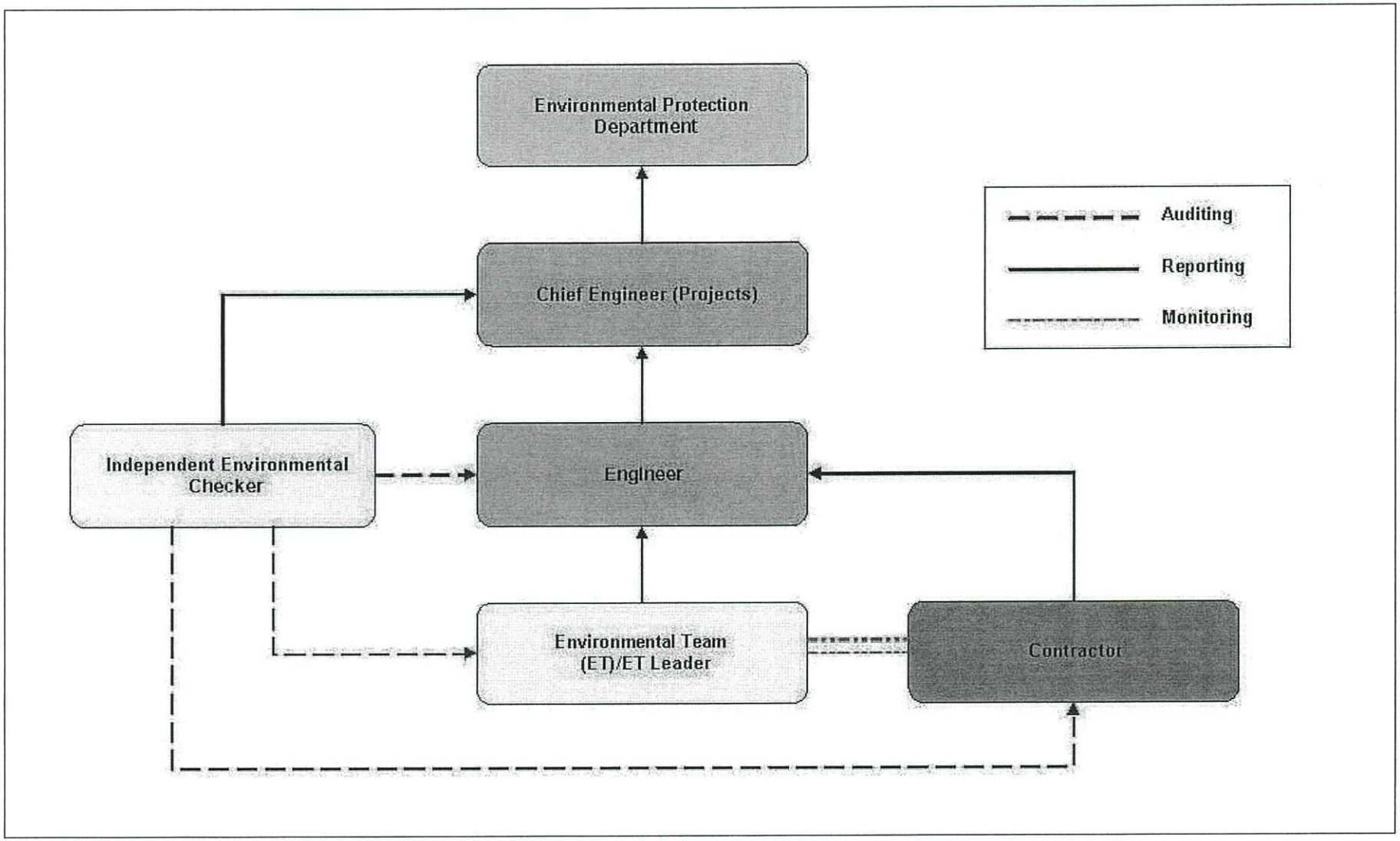
There were two environmental incidents regarding the dumping of dredged mud. After investigations, it was found that both cases were due to the malfunction of the equipment of the hopper barges. Both cases had been reported to EPD through IEC and recorded in the ET Leader's log-book.

There were seventeen (17) cases of Action Level exceedance during the entire period of impact monitoring. All the cases were contributed by Dissolved Oxygen (Bottom). For these exceedances, comprehensive investigations had been carried out. The exceedances were considered not related to dredging activities.

There were two enquiries received from EPD. After investigations, it was found that both incidents were not non-compliances and have been explained to the satisfaction of EPD. There was no summon or prosecution received for the project.

In view of the above, it is concluded that the environmental performance of the project was generally satisfactory. The post-project marine water quality monitoring results verified the return of ambient level after the completion of the project.

Appendix A Organization Chart



Appendix B

Calibration Records and Laboratory QA/QC Results

Equipment Calibration Record

Equipment No.	YSI-6920-1	Equipment Description	YSI-6920 monitor
Calibration method reference	YSI calibration manual	Calibration equipment used (if any)	Nil

	pH	DO	Turbidity
Use of reference material (if any)	pH 7.00 & pH 10.00 Hach buffer std.	Nil	0 NTU & 100 NTU Formazin turbidity std.
Permissible tolerance of calibration	±0.12	±5%	±5%

Calibration Result

		pH		DO	Turbidity		
Date	Standard	**7.00**	**10.00**	**100**	**0**	**100**	Calibrated by
14/02/05	Before	6.96	10.02	98.6	0.2	100.8	W.P.Fung
	After	6.94	9.92	96.3	0.8	97.7	W.P.Fung
16/02/05	Before	7.05	9.94	100.7	0.2	99.2	W.H.Tang
	After	6.93	10.06	96.9	0.9	96.4	W.H.Tang
18/02/05	Before	7.04	10.03	99.2	-0.1	97.3	M.M.Lee
	After	7.00	9.91	98.2	0.6	96.6	M.M.Lee
21/02/05	Before	7.01	10.02	101.8	-0.3	102.3	W.P.Fung
	After	6.97	9.97	98.8	0.7	100.7	W.P.Fung
23/02/05	Before	6.98	9.98	99.6	0.5	98.3	M.H.Tsang
	After	7.03	10.06	102.6	-0.1	101.3	M.H.Tsang
25/02/05	Before	7.05	10.05	97.8	-0.8	99.4	M.H.Tsang
	After	6.96	9.99	98.5	0.4	96.4	M.H.Tsang
28/02/05	Before	6.97	10.03	96.5	0.7	97.4	W.P.Fung
	After	7.02	10.05	98.1	-0.2	98.2	W.P.Fung
	Before						
	After						
	Before						
	After						
	Before						
	After						
	Before						
	After						
	Before						
	After						
	Before						
	After						
	Before						
	After						

Approved by: K.H.Cheung Date: 2/3/05

Equipment Calibration Record

Equipment No.	YSI-6920-1	Equipment Description	YSI-6920 monitor
Calibration method reference	YSI calibration manual	Calibration equipment used (if any)	Nil

	pH	DO	Turbidity
Use of reference material (if any)	pH 7.00 & pH 10.00 Hach buffer std.	Nil	0 NTU & 100 NTU Formazin turbidity std.
Permissible tolerance of calibration	±0.12	±5%	±5%

Calibration Result

		pH		DO	Turbidity		
Date	Standard	**7.00**	**10.00**	**100**	**0**	**100**	Calibrated by
02/03/05	Before	6.93	10.05	96.5	-0.8	96.5	M.H.Tsang
	After	6.99	9.96	99.5	0.2	102.6	M.H.Tsang
04/03/05	Before	6.94	9.96	100.2	0.3	97.8	M.M.Lee
	After	7.03	10.01	99.6	-0.5	101.4	M.M.lee
08/03/05	Before	7.06	10.04	98.5	-0.2	97.2	M.H.Tsang
	After	7.04	9.94	101.6	0.8	101.6	M.H.Tsang
10/03/05	Before	7.04	10.03	98.6	-0.5	101.4	M.M.Lee
	After	7.05	10.01	102.5	0.4	99.5	M.M.Lee
12/03/05	Before	6.92	9.98	99.8	0.6	103.2	W.P.Fung
	After	7.01	10.05	103.2	-0.4	99.7	W.P.Fung
	Before						
	After						
	Before						
	After						
	Before						
	After						
	Before						
	After						
	Before						
	After						
	Before						
	After						
	Before						
	After						
	Before						
	After						
	Before						
	After						

Approved by: K.H.Cheung Date: 16/3/05

SUMMARY OF QUALITY CONTROL DATA – QC SAMPLES RESULTS

Parameter	Control Limit	QC ID	Measured Value	QC ID	Measured Value	QC ID	Measured Value	QC ID	Measured Value	QC ID	Measured Value	QC ID	Measured Value	QC ID	Measured Value
Suspended Solids mg/L	89 – 103%	P0502A14	93%	P0502A28	91%	P0502A41	100%	P0502A56	90%	P0502A70	91%	P0502A83	94%	P0502B14	92%
		P0502B28	100%	P0502B41	91%	P0502B56	97%	P0502B70	98%	P0502B83	91%	P0502C14	95%	P0502C28	93%
		P0502C41	98%	P0502C56	93%	P0502C70	96%	P0502C83	92%	P0502D14	92%	P0502D28	93%	P0502D41	94%
		P0502D56	97%	P0502D70	99%	P0502D83	94%	P0502E14	90%	P0502E28	97%	P0502E41	94%	P0502E56	91%
		P0502E70	93%	P0502E83	98%	P0502F14	98%	P0502F28	94%	P0502F41	95%	P0502F56	92%	P0502F70	93%
		P0502F83	92%	P0502G14	100%	P0502G28	90%	P0502G41	95%	P0502G56	91%	P0502G70	93%	P0502G83	93%
		P0503A14	98%	P0503A28	92%	P0503A41	92%	P0503A56	91%	P0503A70	95%	P0503A83	91%	P0503B14	101%
		P0503B28	91%	P0503B41	95%	P0503B56	92%	P0503B70	90%	P0503B83	94%	P0503C14	92%	P0503C28	94%
		P0503C41	97%	P0503C56	95%	P0503C70	101%	P0503C83	92%	P0503D14	98%	P0503D28	91%	P0503D41	93%
		P0503D56	101%	P0503D70	93%	P0503D83	95%	P0503E14	97%	P0503E28	92%	P0503E41	92%	P0503E56	99%
		P0503E70	91%	P0503E83	99%										

Total:72

SUMMARY OF QUALITY CONTROL DATA – BLANK RESULTS

Parameter	Control Limit	Blank ID	Measured Value	Blank ID	Measured Value	Blank ID	Measured Value	Blank ID	Measured Value	Blank ID	Measured Value	Blank ID	Measured Value	Blank ID	Measured Value
Suspended Solids mg/L	<1	P0502A15	<1	P0502A29	<1	P0502A42	<1	P0502A57	<1	P0502A71	<1	P0502A84	<1	P0502B15	<1
		P0502B29	<1	P0502B42	<1	P0502B57	<1	P0502B71	<1	P0502B84	<1	P0502C15	<1	P0502C29	<1
		P0502C42	<1	P0502C57	<1	P0502C71	<1	P0502C84	<1	P0502D15	<1	P0502D29	<1	P0502D42	<1
		P0502D57	<1	P0502D71	<1	P0502D84	<1	P0502E15	<1	P0502E29	<1	P0502E42	<1	P0502E57	<1
		P0502E71	<1	P0502E84	<1	P0502F15	<1	P0502F29	<1	P0502F42	<1	P0502F57	<1	P0502F71	<1
		P0502F84	<1	P0502G15	<1	P0502G29	<1	P0502G42	<1	P0502G57	<1	P0502G71	<1	P0502G84	<1
		P0503A15	<1	P0503A29	<1	P0503A42	<1	P0503A57	<1	P0503A71	<1	P0503A84	<1	P0503B15	<1
		P0503B29	<1	P0503B42	<1	P0503B57	<1	P0503B71	<1	P0503B84	<1	P0503C15	<1	P0503C29	<1
		P0503C42	<1	P0503C57	<1	P0503C71	<1	P0503C84	<1	P0503D15	<1	P0503D29	<1	P0503D42	<1
		P0503D57	<1	P0503D71	<1	P0503D84	<1	P0503E15	<1	P0503E29	<1	P0503E42	<1	P0503E57	<1
		P0503E71	<1	P0503E84	<1										

Total:72

SUMMARY OF QUALITY CONTROL DATA – DUPLICATE RESULTS

Parameter	Control Limit	Sample ID	Measured Value	Sample ID	Measured Value	Sample ID	Measured Value	Sample ID	Measured Value	Sample ID	Measured Value	Sample ID	Measured Value	Sample ID	Measured Value
Suspended Solids mg/L	Exceed 20%	P0502A13	10.0	P0502A27	6.2	P0502A40	7.8	P0502A55	10.6	P0502A69	6.1	P0502A82	8.1	P0502B13	9.8
			8.9		5.4		6.9		9.0		5.5		7.6		8.8
		P0502B27	9.9	P0502B40	9.5	P0502B55	9.7	P0502B69	9.6	P0502B82	10.0	P0502C13	9.4	P0502C27	9.3
			10.3		10.9		10.9		10.0		9.4		10.5		9.5
		P0502C40	11.8	P0502C55	10.1	P0502C69	8.5	P0502C82	10.4	P0502D13	8.2	P0502D27	8.6	P0502D40	9.1
			13.8		9.9		7.8		10.1		7.5		7.5		8.5
		P0502D55	8.5	P0502D69	8.7	P0502D82	9.4	P0502E13	8.3	P0502E27	4.7	P0502E40	6.7	P0502E55	8.4
			7.4		7.5		8.4		7.8		4.3		7.3		8.0
		P0502E69	6.0	P0502E82	7.5	P0502F13	9.5	P0502F27	8.8	P0502F40	8.9	P0502F55	9.8	P0502F69	9.5
			5.5		7.7		11.3		8.9		8.8		8.3		8.2
		P0502F82	8.9	P0502G13	9.2	P0502G27	3.7	P0502G40	10.4	P0502G55	8.1	P0502G69	7.2	P0502G82	5.4
			8.5		8.4		3.4		9.3		8.7		6.9		5.0
		P0503A13	9.5	P0503A27	8.9	P0503A40	10.2	P0503A55	9.8	P0503A69	9.5	P0503A82	9.2	P0503B13	10.0
			10.0		8.0		10.9		9.6		9.2		8.3		9.1
		P0503B27	5.8	P0503B40	9.6	P0503B55	9.5	P0503B69	5.6	P0503B82	9.3	P0503C13	9.9	P0503C27	8.8
			4.9		8.5		9.9		4.8		8.5		10.5		7.7
		P0503C40	10.0	P0503C55	9.3	P0503C69	10.2	P0503C82	9.9	P0503D13	9.5	P0503D27	7.7	P0503D40	7.8
			11.4		10.1		10.9		8.9		8.2		8.2		7.0
		P0503D55	9.8	P0503D69	7.9	P0503D82	8.4	P0503E13	9.4	P0503E27	8.9	P0503E40	8.7	P0503E55	9.1
			9.5		7.7		7.9		10.1		8.4		7.7		8.4
		P0503E69	9.9	P0503E82	9.6										
			9.2		8.6										

Total:72

SUMMARY OF QUALITY CONTROL DATA – BLIND DUPLICATE RESULTS

Parameter	Control Limit	Sample ID	Measured Value	Sample ID	Measured Value	Sample ID	Measured Value	Sample ID	Measured Value	Sample ID	Measured Value	Sample ID	Measured Value	Sample ID	Measured Value	Sample ID	Measured Value	Sample ID	Measured Value	Sample ID	Measured Value	Sample ID	Measured Value	Sample ID	Measured Value	Sample ID	Measured Value
Suspended Solids mg/L	Exceed 20%	P0502A05	9.6	P0502A11	10.6	P0502A20	11.2	P0502A25	6.2	P0502A33	5.2	P0502A38	8.3	P0502A47	10.1	P0502A53	10.7	P0502A62	10.8	P0502A67	5.3	P0502A75	5.5	P0502A80	9.2
			9.5		9.3		12.1		5.4		4.5		7.8		11.3		9.4		9.4		4.5		6.0		8.3
		P0502B05	9.5	P0502B11	9.2	P0502B20	10.9	P0502B25	9.5	P0502B33	9.1	P0502B38	9.1	P0502B47	10.6	P0502B53	10.2	P0502B62	9.7	P0502B67	10.1	P0502B75	10.1	P0502B80	10.1
			9.2		9.9		10.0		9.6		9.5		8.6		10.2		10.7		10.3		8.9		9.8		9.9
		P0502C05	8.7	P0502C11	9.9	P0502C20	7.8	P0502C25	10.9	P0502C33	10.7	P0502C38	9.1	P0502C47	9.5	P0502C53	9.5	P0502C62	11.0	P0502C67	9.4	P0502C75	9.0	P0502C80	10.6
			7.6		10.8		8.5		9.2		9.9		8.3		9.3		8.8		9.6		8.1		8.7		12.0
		P0502D05	9.5	P0502D11	8.1	P0502D20	9.4	P0502D25	9.2	P0502D33	9.5	P0502D38	9.7	P0502D47	9.8	P0502D53	8.2	P0502D62	9.2	P0502D67	8.5	P0502D75	9.5	P0502D80	10.2
			10.4		7.5		8.1		10.1		10.2		8.9		10.7		7.5		10.5		8.3		10.4		10.1
		P0502E05	9.1	P0502E11	8.9	P0502E20	11.2	P0502E25	5.3	P0502E33	5.2	P0502E38	7.1	P0502E47	8.1	P0502E53	9.0	P0502E62	10.8	P0502E67	5.0	P0502E75	6.2	P0502E80	7.1
			7.9		9.4		10.3		5.3		4.6		6.6		8.9		8.8		9.6		4.6		6.3		6.4
		P0502F05	9.7	P0502F11	8.6	P0502F20	9.3	P0502F25	8.6	P0502F33	9.3	P0502F38	10.1	P0502F47	8.8	P0502F53	9.6	P0502F62	9.7	P0502F67	9.7	P0502F75	8.3	P0502F80	8.3
			10.0		7.8		10.5		7.5		10.7		9.7		8.5		8.8		8.2		8.5		8.9		9.1
		P0502G05	8.7	P0502G11	6.6	P0502G20	5.1	P0502G25	7.1	P0502G33	9.5	P0502G38	10.0	P0502G47	9.6	P0502G53	8.9	P0502G62	8.3	P0502G67	8.1	P0502G75	8.5	P0502G80	8.1
			9.4		6.1		4.6		7.3		8.2		11.7		11.0		9.7		7.4		7.6		7.6		9.5
		P0503A05	10.1	P0503A11	10.4	P0503A20	9.9	P0503A25	8.5	P0503A33	8.7	P0503A38	10.1	P0503A47	8.9	P0503A53	10.3	P0503A62	9.0	P0503A67	9.8	P0503A75	9.1	P0503A80	8.2
			9.1		9.9		9.0		9.8		7.7		9.6		9.7		9.1		7.9		8.9		8.4		7.3
		P0503B05	9.0	P0503B11	10.3	P0503B20	9.2	P0503B25	5.6	P0503B33	6.1	P0503B38	10.0	P0503B47	9.4	P0503B53	10.4	P0503B62	8.9	P0503B67	5.4	P0503B75	6.3	P0503B80	9.9
			8.1		9.7		9.6		4.8		6.4		9.6		8.0		9.4		8.3		5.6		6.5		10.6
		P0503C05	9.1	P0503C11	9.7	P0503C20	9.4	P0503C25	8.4	P0503C33	9.5	P0503C38	10.2	P0503C47	9.9	P0503C53	8.8	P0503C62	8.6	P0503C67	9.6	P0503C75	9.5	P0503C80	9.7
			10.0		9.4		10.7		8.1		8.6		10.8		9.2		8.2		9.1		10.9		8.1		10.1
		P0503D05	8.3	P0503D11	10.3	P0503D20	10.5	P0503D25	6.9	P0503D33	7.4	P0503D38	8.5	P0503D47	10.3	P0503D53	8.1	P0503D62	7.9	P0503D67	9.1	P0503D75	8.7	P0503D80	9.3
			8.9		9.5		11.6		7.1		7.1		7.3		9.8		7.8		7.5		8.9		9.3		8.7
		P0503E05	9.1	P0503E11	9.3	P0503E20	8.6	P0503E25	9.1	P0503E33	9.6	P0503E38	8.5	P0503E47	10.0	P0503E53	9.2	P0503E62	9.2	P0503E67	9.7	P0503E75	8.7	P0503E80	9.9
			8.1		8.5		9.5		8.9		8.7		7.6		9.8		10.7		8.1		9.1		7.7		10.4

Total:144

Appendix C

Environmental Monitoring Schedule

The Hongkong Electric Co., Ltd.
Navigation Channel Improvement - Post Project Marine Water Monitoring Schedule

Feb - Mar 2005

No.	Date		Tide	High tide	Low tide	Tentative Start Time
1	14/2/2005	Mon	Mid-flood	13:06	06:48	09:00
			Mid-ebb	13:06	19:20	15:15
2	16/2/2005	Wed	Mid-flood	14:34	07:17	10:00
			Mid-ebb	14:34	22:45	16:00
3	18/2/2005	Fri	Mid-flood	17:01	01:04	08:30
			Mid-ebb	18/2/2005 17:01	19/2/2005 01:55	16:00
4	21/2/2005	Mon	Mid-ebb	10:34	12:21	10:30
			Mid-flood	19:43	12:21	15:00
5	23/2/2005	Wed	Mid-ebb	10:31	14:27	11:30
			Mid-flood	20:59	14:27	16:00
6	25/2/2005	Fri	Mid-ebb	10:39	15:50	12:15
			Mid-flood	22:12	15:50	16:00
7	28/2/2005	Mon	Mid-flood	11:41	05:53	08:30
			Mid-ebb	11:41	17:54	13:45
8	2/3/2005	Wed	Mid-flood	12:26	06:37	08:30
			Mid-ebb	12:26	19:41	15:00
9	4/3/2005	Fri	Mid-flood	4/3/2005 14:06	3/3/2005 21:15	08:00
			Mid-ebb	14:06	23:21	16:00
10	8/3/2005	Tue	Mid-ebb	09:47	13:22	10:30
			Mid-flood	19:44	13:22	15:30
11	10/3/2005	Thu	Mid-ebb	10:29	15:08	11:45
			Mid-flood	21:35	15:08	16:00
12	12/3/2005	Sat	Mid-flood	10:57	04:45	08:30
			Mid-ebb	10:57	16:40	12:45

Notes: 1. The time of high tide and low tide is made reference to tidal information at Chi Ma Wan provided by the HKO.

2. Monitoring works will not be arranged during night time period for safety reasons.

3. Monitoring works should be carried out three days per week at mid-flood and mid-ebb.

4. The interval between two sets of monitoring should not be less than 36 hours.

Appendix D

Post-project Water Quality Monitoring Results

Date: 14/2/2005
Weather: Overcast
Sea Condition: Rough
Tide: Mid-Flood

Water Quality Monitoring Result

Location	Time	Depth (m)		Temp. (°C)	Salinity (ppt)	pH	D.O. Sat. (%)	D.O. (mg/L)		Turbidity (NTU)		S.S. (mg/L)	
								Value	DA	Value	DA	Average	DA
SR6	11:14	Surface	1	17.3 17.3	38.9 38.9	8.50 8.50	96.3 95.9	7.32 7.29	7.25	6.2 6.0	7.0	9.8	9.8
		Middle	11.5	17.2 17.2	38.9 39.0	8.50 8.50	94.5 94.4	7.19 7.18		7.9 7.7		10.3	
		Bottom	21.5	17.2 17.2	38.9 38.9	8.50 8.50	94.4 94.4	7.17 7.17	7.17	6.9 7.1		9.5	
	Other Observations:			Nil									
SR7	11:02	Surface	1	17.4 17.4	38.8 38.8	8.47 8.48	100.8 100.5	7.66 7.64	7.55	5.6 5.6	5.5	10.0	9.4
		Middle	5	17.4 17.4	38.8 38.8	8.48 8.48	98.1 98.0	7.45 7.44		5.4 5.5		10.5	
		Bottom	8.5	17.4 17.3	38.9 38.9	8.48 8.48	96.3 96.4	7.32 7.32	7.32	5.3 5.4		7.8	
	Other Observations:			Nil									
SR10	10:48	Surface	1	16.8 16.8	39.1 39.1	8.56 8.56	92.1 92.0	6.98 6.97	6.98	4.7 4.9	6.3	11.4	11.1
		Middle	4.5	16.9 16.9	39.2 39.2	8.57 8.57	92.3 92.2	6.99 6.98		6.7 6.8		10.8	
		Bottom	7.5	16.9 16.9	39.2 39.2	8.57 8.57	92.6 92.8	7.01 7.03	7.02	7.1 7.3		11.1	
	Other Observations:			Nil									
SR11	10:37	Surface	1	16.7 16.7	39.0 39.0	8.55 8.55	93.7 94.0	7.10 7.12	7.12	6.0 6.2	6.2	7.1	6.4
		Middle	4	16.7 16.7	39.2 39.2	8.56 8.56	93.5 93.3	7.18 7.07		6.4 6.5		6.9	
		Bottom	7	16.6 16.6	39.2 39.1	8.56 8.56	93.3 93.2	7.07 7.06	7.07	5.9 5.9		5.3	
	Other Observations:			Nil									
SR12	10:28	Surface	1	16.6 16.6	39.0 39.0	8.55 8.55	93.3 93.6	7.07 7.09	7.10	6.7 6.6	6.8	5.6	5.7
		Middle	4.5	16.5 16.6	39.1 39.1	8.56 8.56	93.8 94.1	7.11 7.13		6.4 6.5		5.4	
		Bottom	7.5	16.6 16.6	39.2 39.2	8.56 8.56	94.0 93.7	7.12 7.10	7.11	7.2 7.4		6.1	
	Other Observations:			Nil									
SR14	10:16	Surface	1	16.4 16.4	39.0 39.0	8.56 8.56	93.2 93.7	7.06 7.10	7.15	7.3 7.2	7.2	4.9	4.7
		Middle	5	16.4 16.4	39.1 39.1	8.57 8.56	95.4 95.2	7.23 7.21		7.1 6.9		4.8	
		Bottom	8.5	16.3 16.3	39.1 39.1	8.57 8.57	95.1 94.9	7.20 7.19	7.20	7.4 7.5		4.6	
	Other Observations:			Nil									
SR15	10:03	Surface	1	16.4 16.4	39.0 39.0	8.56 8.56	95.9 96.2	7.27 7.29	7.29	8.1 8.3	8.2	9.2	8.4
		Middle	11	16.3 16.3	39.1 39.1	8.57 8.57	96.3 96.2	7.30 7.29		7.8 7.9		7.9	
		Bottom	21	16.4 16.4	39.1 39.1	8.57 8.57	95.4 95.6	7.22 7.24	7.23	8.6 8.4		8.3	
	Other Observations:			Nil									
CS1	09:20	Surface	1	17.2 17.2	38.7 38.8	8.47 8.48	94.4 93.7	7.19 7.14	7.13	6.4 6.2	6.0	9.0	9.5
		Middle	5	17.2 17.2	38.9 38.9	8.48 8.48	93.1 93.0	7.09 7.08		5.8 5.9		10.0	
		Bottom	8.5	17.2 17.2	38.9 38.9	8.48 8.48	92.6 92.5	7.06 7.05	7.06	5.7 5.7		9.5	
	Other Observations:			Nil									
CS2	09:33	Surface	1	17.5 17.5	38.6 38.6	8.48 8.48	94.7 94.5	7.18 7.16	7.17	6.1 6.0	5.9	9.3	9.9
		Middle	5.5	17.5 17.5	38.8 38.8	8.49 8.49	94.3 94.6	7.15 7.17		5.7 5.6		9.7	
		Bottom	9.5	17.5 17.5	38.8 38.8	8.49 8.48	94.4 94.3	7.15 7.14	7.15	5.9 5.9		10.7	
	Other Observations:			Nil									
CS3	09:49	Surface	1	16.6 16.6	39.1 39.1	8.56 8.56	95.9 95.5	7.27 7.23	7.23	7.2 7.0	7.6	7.1	6.9
		Middle	11.5	16.6 16.6	39.2 39.2	8.56 8.56	95.3 95.2	7.22 7.21		7.5 7.7		7.2	
		Bottom	21.5	16.4 16.5	39.2 39.2	8.55 8.55	94.9 94.6	7.19 7.17	7.18	8.0 7.9		6.4	
	Other Observations:			Nil									

* Contains sample results < detection limit but assumed to be at the detection limit for the sake of computation.

Date: 14/2/2005
Weather: Overcast
Sea Condition: Rough
Tide: Mid-Ebb

Water Quality Monitoring Result

Location	Time	Depth (m)		Temp. (°C)	Salinity (ppt)	pH	D.O. Sat. (%)	D.O. (mg/L)		Turbidity (NTU)		S.S. (mg/L)	
								Value	DA	Value	DA	Average	DA
SR6	16:58	Surface	1	17.2 17.2	39.0 39.0	8.52 8.52	86.8 86.6	6.59 6.57	6.53	6.4 6.5	6.7	11.4	10.6
		Middle	11	17.2 17.2	38.9 39.0	8.53 8.53	85.2 85.4	6.46 6.48		6.9 6.7		11.1	
		Bottom	21	17.3 17.3	39.1 39.1	8.53 8.53	84.7 84.5	6.43 6.41	6.42	6.8 6.6		9.2	
	Other Observations:			Nil									
SR7	16:45	Surface	1	17.3 17.3	38.9 39.0	8.52 8.52	87.4 87.9	6.63 6.67	6.71	6.1 5.9	5.8	11.1	10.1
		Middle	4.5	17.3 17.3	39.0 39.0	8.52 8.52	88.9 89.3	6.75 6.78		5.7 5.8		8.8	
		Bottom	8	17.2 17.2	39.1 39.1	8.53 8.53	89.3 89.2	6.78 6.77	6.78	5.6 5.7		10.5	
	Other Observations:			Nil									
SR10	16:31	Surface	1	16.8 16.8	39.2 39.1	8.50 8.50	79.8 79.9	6.11 6.12	6.13	5.3 5.1	5.8	9.4	9.3
		Middle	4	16.8 16.8	39.0 39.0	8.51 8.50	80.2 80.3	6.14 6.15		5.8 6.0		9.7	
		Bottom	7	16.9 16.9	39.2 39.2	8.51 8.51	80.6 80.7	6.17 6.19	6.18	6.2 6.4		8.9	
	Other Observations:			Nil									
SR11	16:20	Surface	1	16.6 16.6	39.1 39.2	8.50 8.50	83.9 83.9	6.37 6.39	6.36	6.6 6.5	6.8	5.5	5.3
		Middle	4	16.5 16.5	39.3 39.2	8.51 8.51	83.7 83.7	6.35 6.34		6.8 6.9		5.2	
		Bottom	6.5	16.5 16.5	39.3 39.3	8.52 8.51	82.9 82.8	6.29 6.28	6.29	7.1 6.9		5.3	
	Other Observations:			Nil									
SR12	16:12	Surface	1	16.7 16.7	39.1 39.1	8.50 8.50	83.0 83.2	6.30 6.31	6.29	6.4 6.2	6.7	6.2	5.7
		Middle	4	16.6 16.7	39.1 39.1	8.50 8.51	82.7 82.9	6.27 6.29		6.5 6.7		6.0	
		Bottom	7	16.5 16.5	39.2 39.3	8.51 8.51	82.0 82.3	6.22 6.24	6.23	6.9 7.2		4.9	
	Other Observations:			Nil									
SR14	15:59	Surface	1	16.5 16.4	39.0 39.1	8.48 8.49	82.8 82.9	6.28 6.29	6.27	7.1 6.9	6.8	5.4	5.2
		Middle	4.5	16.4 16.4	39.1 39.1	8.49 8.49	82.4 82.3	6.25 6.25		6.8 6.8		4.6	
		Bottom	8	16.4 16.5	39.2 39.2	8.48 8.48	81.7 81.5	6.20 6.18	6.19	6.7 6.5		5.7	
	Other Observations:			Nil									
SR15	15:48	Surface	1	16.5 16.5	38.7 38.8	8.49 8.49	83.8 83.6	6.36 6.34	6.34	7.7 7.9	7.9	8.9	8.5
		Middle	11	16.4 16.4	38.9 39.0	8.51 8.51	83.2 83.4	6.31 6.33		8.2 8.0		9.6	
		Bottom	20.5	16.3 16.4	39.3 39.2	8.51 8.52	84.1 83.7	6.38 6.35	6.37	8.0 7.8		7.1	
	Other Observations:			Nil									
CS1	15:10	Surface	1	17.6 17.6	38.9 39.0	8.47 8.47	84.1 84.9	6.36 6.41	6.45	6.7 6.5	6.3	10.1	9.6
		Middle	4.5	17.6 17.6	38.9 38.9	8.48 8.48	85.9 86.2	6.49 6.52		6.4 6.1		8.5	
		Bottom	8	17.4 17.4	39.1 39.1	8.50 8.49	86.8 86.9	6.59 6.60	6.60	5.9 6.2		10.4	
	Other Observations:			Nil									
CS2	15:22	Surface	1	17.5 17.6	38.8 38.7	8.47 8.48	84.2 84.0	6.39 6.37	6.36	6.4 6.3	6.0	9.7	9.4
		Middle	5	17.5 17.5	38.9 38.9	8.48 8.48	83.3 83.7	6.32 6.35		6.1 5.9		9.4	
		Bottom	8.5	17.3 17.4	39.2 39.2	8.50 8.50	83.0 82.9	6.30 6.29	6.30	5.7 5.7		9.3	
	Other Observations:			Nil									
CS3	15:36	Surface	1	16.7 16.6	38.9 38.9	8.50 8.49	83.7 84.0	6.35 6.37	6.41	7.4 7.6	7.9	6.5	6.9
		Middle	11	16.5 16.5	39.1 39.1	8.50 8.51	84.8 85.2	6.44 6.47		7.7 7.5		7.2	
		Bottom	21	16.5 16.5	39.2 39.3	8.52 8.52	85.6 85.7	6.50 6.51	6.51	8.3 8.6		6.9	
	Other Observations:			Nil									

* Contains sample results < detection limit but assumed to be at the detection limit for the sake of computation.

Date: 16/2/2005
Weather: Overcast
Sea Condition: Calm
Tide: Mid-Flood

Water Quality Monitoring Result

Location	Time	Depth (m)		Temp. (°C)	Salinity (ppt)	pH	D.O. Sat. (%)	D.O. (mg/L)		Turbidity (NTU)		S.S. (mg/L)	
								Value	DA	Value	DA	Average	DA
SR6	12:03	Surface	1	17.8 17.7	38.7 38.8	8.08 8.06	76.4 75.5	5.51 5.66	5.70	7.8 7.7	4.8	8.6	9.5
		Middle	11	17.5 17.5	38.9 38.8	8.10 8.11	77.0 76.6	5.83 5.81		2.2 2.1		10.4	
		Bottom	21	17.3 17.4	39.0 38.8	8.07 8.08	75.4 75.0	5.73 5.71	5.72	4.4 4.5		9.6	
	Other Observations:			Nil									
SR7	11:50	Surface	1	17.9 17.9	38.8 38.8	8.04 8.05	79.0 79.5	5.93 5.97	5.93	2.6 2.5	6.2	9.2	8.9
		Middle	5	17.8 17.7	38.8 38.9	8.09 8.09	78.7 78.2	5.94 5.89		7.7 7.9		8.8	
		Bottom	8.5	17.7 17.7	38.9 38.9	8.09 8.07	77.8 77.6	5.87 5.85	5.86	8.3 8.4		8.9	
	Other Observations:			Nil									
SR10	11:33	Surface	1	17.8 17.6	39.0 39.1	8.08 8.09	72.6 72.5	5.46 5.47	5.58	7.1 7.2	5.5	11.9	10.7
		Middle	4.5	17.3 17.4	39.2 39.2	8.10 8.09	75.5 75.9	5.61 5.76		7.0 7.1		10.5	
		Bottom	7.5	17.3 17.4	39.2 39.2	8.09 8.09	75.7 76.0	5.74 5.76	5.75	2.2 2.1		9.6	
	Other Observations:			Nil									
SR11	11:20	Surface	1	17.7 17.7	39.1 39.2	8.11 8.12	72.4 76.0	5.45 5.72	5.75	7.8 7.5	6.1	8.7	9.4
		Middle	4	17.6 17.6	39.2 39.2	8.09 8.10	78.1 78.8	5.89 5.95		2.2 2.1		10.0	
		Bottom	7	17.5 17.5	39.2 39.2	8.13 8.13	78.4 81.9	5.93 6.19	6.06	8.3 8.5		9.6	
	Other Observations:			Nil									
SR12	11:07	Surface	1	17.4 17.5	39.0 39.1	8.08 8.09	72.6 74.0	5.36 5.61	5.66	4.2 4.3	3.0	9.9	10.2
		Middle	4.5	17.3 17.3	39.1 39.1	8.08 8.08	76.6 76.8	5.81 5.84		2.2 2.3		9.9	
		Bottom	7.5	17.2 17.2	39.1 39.1	8.08 8.07	76.8 77.0	5.80 5.86	5.83	2.6 2.5		10.9	
	Other Observations:			Nil									
SR14	10:54	Surface	1	17.2 17.1	39.0 39.1	8.06 8.08	72.0 73.0	5.70 5.56	5.70	7.2 7.1	7.7	9.5	8.6
		Middle	5	16.9 16.8	39.1 39.1	8.07 8.07	75.6 75.4	5.76 5.77		7.8 7.7		7.7	
		Bottom	8.5	16.7 16.7	39.1 39.1	8.06 8.06	74.9 74.4	5.73 5.71	5.72	8.1 8.2		8.6	
	Other Observations:			Nil									
SR15	10:39	Surface	1	17.1 17.1	39.0 39.1	8.06 8.06	74.4 75.7	5.77 5.76	5.87	7.1 7.0	7.5	8.4	8.5
		Middle	11	16.7 16.7	39.1 39.1	8.07 8.06	78.2 78.0	5.98 5.98		7.4 7.6		8.6	
		Bottom	20.5	16.6 16.6	39.1 39.1	8.06 8.05	77.2 75.9	5.94 5.84	5.89	7.8 7.8		8.5	
	Other Observations:			Nil									
CS1	09:54	Surface	1	17.6 17.6	38.6 38.6	8.07 8.06	76.8 74.2	5.84 5.64	5.63	4.7 4.7	5.4	10.4	9.1
		Middle	5	17.6 17.5	38.6 38.7	8.06 8.06	73.1 72.3	5.54 5.48		2.5 2.7		10.6	
		Bottom	8.5	17.4 17.4	38.7 38.7	8.05 8.05	71.4 71.0	5.42 5.39	5.41	8.8 8.8		6.3	
	Other Observations:			Nil									
CS2	10:08	Surface	1	18.0 17.9	38.6 38.7	8.04 8.05	83.0 82.2	6.37 6.18	6.10	2.3 2.5	4.1	9.0	9.0
		Middle	5.5	17.8 17.8	38.7 38.6	8.03 8.04	78.8 78.0	5.96 5.87		7.3 7.4		9.7	
		Bottom	10	17.6 17.7	38.7 38.7	8.04 8.04	76.6 75.7	5.80 5.75	5.78	2.7 2.5		8.3	
	Other Observations:			Nil									
CS3	10:22	Surface	1	17.1 17.2	39.0 39.1	8.07 8.09	91.0 84.2	6.92 6.43	6.48	4.4 4.2	6.7	9.4	9.0
		Middle	11	16.7 16.6	39.1 39.1	8.04 8.04	82.4 80.6	6.31 6.24		7.5 7.6		9.2	
		Bottom	21	16.6 16.6	39.1 39.1	8.05 8.07	79.1 78.1	6.09 6.01	6.05	8.1 8.2		8.4	
	Other Observations:			Nil									

* Contains sample results < detection limit but assumed to be at the detection limit for the sake of computation.

Date: 16/2/2005
Weather: Overcast
Sea Condition: Calm
Tide: Mid-Ebb

Water Quality Monitoring Result

Location	Time	Depth (m)		Temp. (°C)	Salinity (ppt)	pH	D.O. Sat. (%)	D.O. (mg/L)		Turbidity (NTU)		S.S. (mg/L)	
								Value	DA	Value	DA	Average	DA
SR6	18:04	Surface	1	17.7 17.6	38.9 39.0	8.02 8.02	72.1 75.2	5.44 5.64	5.66	8.8 8.9	6.2	10.9	9.9
		Middle	11	17.0 17.0	39.1 39.1	8.01 8.01	76.2 75.3	5.82 5.75		7.4 7.5		9.7	
		Bottom	20.5	16.9 16.9	39.1 39.1	8.00 8.00	74.3 74.1	5.70 5.66	5.68	2.1 2.2		9.2	
	Other Observations:			Nil									
SR7	17:52	Surface	1	18.4 18.5	39.0 39.1	8.01 8.03	83.0 84.9	6.26 6.33	6.31	7.2 7.1	5.8	10.5	9.8
		Middle	4.5	18.3 18.3	39.1 39.1	8.02 8.02	85.3 85.2	6.32 6.34		7.6 7.7		10.1	
		Bottom	8	17.9 17.8	39.1 39.1	8.01 8.01	83.8 83.2	6.28 6.26	6.27	2.6 2.7		8.9	
	Other Observations:			Nil									
SR10	17:36	Surface	1	18.0 17.9	38.9 39.1	8.07 8.08	72.0 73.7	5.40 5.53	5.52	7.4 7.3	7.9	8.7	9.5
		Middle	4	17.9 17.9	39.1 39.1	8.08 8.07	74.3 74.4	5.57 5.56		7.8 7.6		10.6	
		Bottom	7	17.8 17.8	39.1 39.1	8.07 8.08	74.1 74.1	5.57 5.58	5.58	8.6 8.8		9.2	
	Other Observations:			Nil									
SR11	17:23	Surface	1	17.9 17.9	39.0 39.1	8.10 8.10	71.6 74.0	5.37 5.59	5.61	7.1 7.1	6.1	9.5	9.9
		Middle	4	17.9 17.9	39.1 39.1	8.09 8.09	76.3 76.4	5.73 5.74		2.4 2.2		10.2	
		Bottom	6.5	17.9 17.9	39.1 39.1	8.09 8.09	76.3 76.2	5.73 5.72	5.73	8.8 8.9		9.9	
	Other Observations:			Nil									
SR12	17:11	Surface	1	17.9 17.8	39.0 39.1	8.10 8.11	73.4 76.5	5.52 5.79	5.74	7.4 7.4	7.9	8.7	8.8
		Middle	4	17.6 17.6	39.1 39.1	8.09 8.08	77.2 77.0	5.83 5.81		7.9 8.1		8.4	
		Bottom	7	17.6 17.6	39.1 39.1	8.08 8.08	76.9 76.9	5.80 5.80	5.80	8.3 8.1		9.3	
	Other Observations:			Nil									
SR14	16:58	Surface	1	17.6 17.4	39.0 39.1	8.07 8.08	72.0 74.6	5.40 5.66	5.65	7.3 7.2	5.8	10.4	10.0
		Middle	4.5	17.4 17.4	39.1 39.2	8.08 8.08	76.2 76.1	5.77 5.77		7.6 7.5		8.8	
		Bottom	8	17.2 17.1	39.1 39.2	8.07 8.07	75.8 75.7	5.77 5.75	5.76	2.5 2.7		11.0	
	Other Observations:			Nil									
SR15	16:45	Surface	1	17.2 17.2	39.1 39.1	8.07 8.07	70.9 74.8	5.38 5.64	5.67	7.7 7.5	5.9	9.3	9.5
		Middle	10.5	17.1 17.1	39.1 39.1	8.06 8.06	76.3 76.4	5.82 5.82		7.4 7.3		9.8	
		Bottom	19.5	16.9 16.9	39.2 39.2	8.05 8.05	76.0 75.4	5.81 5.77	5.79	2.5 2.7		9.6	
	Other Observations:			Nil									
CS1	16:01	Surface	1	18.0 18.0	38.8 38.8	8.00 7.99	71.6 73.8	5.38 5.53	5.50	7.5 7.7	5.0	8.3	9.3
		Middle	4.5	17.9 17.9	38.8 38.8	8.07 8.06	74.2 73.3	5.57 5.51		2.2 2.1		9.1	
		Bottom	8	17.8 17.8	38.8 38.9	8.03 8.02	72.6 72.5	5.47 5.46	5.47	5.4 5.3		10.5	
	Other Observations:			Nil									
CS2	16:14	Surface	1	18.1 18.2	38.8 38.8	8.01 8.01	77.1 75.4	5.73 5.64	5.75	7.3 7.2	5.8	8.9	9.5
		Middle	5.5	17.8 17.8	38.8 38.8	8.01 8.01	77.0 77.2	5.80 5.81		7.5 7.6		10.6	
		Bottom	9.5	17.4 17.4	39.0 39.0	8.02 8.02	76.4 75.4	5.78 5.72	5.75	2.4 2.5		9.1	
	Other Observations:			Nil									
CS3	16:31	Surface	1	17.0 17.0	39.1 39.1	8.10 8.09	79.4 77.9	6.06 5.93	5.99	4.4 4.4	4.9	9.2	9.1
		Middle	10.5	16.8 16.8	39.1 39.2	8.07 8.07	78.7 77.6	6.03 5.95		7.5 7.6		9.5	
		Bottom	20	16.6 16.6	39.2 39.2	8.05 8.05	76.5 75.1	5.88 5.79	5.84	2.9 2.7		8.6	
	Other Observations:			Nil									

* Contains sample results < detection limit but assumed to be at the detection limit for the sake of computation.

Date: 18/2/2005
Weather: Rainy
Sea Condition: Rough
Tide: Mid-Flood

Water Quality Monitoring Result

Location	Time	Depth (m)		Temp. (°C)	Salinity (ppt)	pH	D.O. Sat. (%)	D.O. (mg/L)		Turbidity (NTU)		S.S. (mg/L)	
								Value	DA	Value	DA	Average	DA
SR6	11:30	Surface	1	17.2 17.2	38.8 38.8	8.20 8.20	87.4 86.6	5.81 5.71	5.74	9.6 8.8	9.4	10.4	9.1
		Middle	11.5	17.4 17.4	39.0 39.0	8.20 8.20	86.9 86.7	5.72 5.70		7.2 7.6		9.7	
		Bottom	22	17.8 17.8	39.0 39.0	8.22 8.22	86.9 86.5	5.72 5.69	5.71	11.8 11.6		7.2	
	Other Observations:			Nil									
SR7	11:16	Surface	1	17.2 17.3	38.9 38.9	8.23 8.23	107.8 107.4	7.00 6.97	6.87	10.2 10.0	10.1	8.2	9.0
		Middle	4.5	17.3 17.3	39.0 39.0	8.28 8.28	103.0 103.2	6.74 6.75		8.2 8.6		8.7	
		Bottom	8	17.2 17.2	39.1 39.1	8.30 8.30	106.1 106.4	6.81 6.82	6.82	11.9 11.6		10.0	
	Other Observations:			Nil									
SR10	11:02	Surface	1	17.0 17.0	38.9 38.9	8.25 8.25	101.9 103.0	6.68 6.74	6.35	9.0 9.4	9.4	8.3	8.1
		Middle	4.5	17.0 17.1	39.1 39.1	8.29 8.29	92.0 91.8	6.01 5.98		7.4 7.0		8.9	
		Bottom	7.5	16.9 16.9	39.1 39.1	8.30 8.30	86.9 86.4	5.72 5.66	5.69	11.7 11.9		7.1	
	Other Observations:			Nil									
SR11	10:45	Surface	1	17.2 17.2	39.0 39.0	8.25 8.25	106.2 106.1	6.82 6.81	6.62	10.0 10.1	9.6	9.1	9.4
		Middle	4	17.2 17.2	39.0 39.0	8.26 8.26	99.1 98.2	6.49 6.37		9.0 9.8		10.2	
		Bottom	7	17.2 17.2	39.1 39.1	8.28 8.28	92.1 92.0	6.03 6.01	6.02	9.1 9.7		8.9	
	Other Observations:			Nil									
SR12	10:30	Surface	1	17.2 17.2	38.9 38.8	8.25 8.25	96.1 99.2	6.33 6.49	6.06	10.2 9.3	10.5	8.5	9.0
		Middle	4.5	17.1 17.1	39.1 39.1	8.28 8.28	86.9 86.8	5.72 5.70		11.5 11.3		8.7	
		Bottom	7.5	17.1 17.1	39.1 39.1	8.28 8.28	86.0 86.2	5.68 5.68	5.68	10.6 10.1		10.0	
	Other Observations:			Nil									
SR14	10:15	Surface	1	17.1 17.1	39.0 39.0	8.25 8.25	108.4 108.6	7.02 7.03	6.80	9.9 9.1	9.5	10.8	9.6
		Middle	5	17.1 17.1	39.1 39.1	8.26 8.26	100.8 100.6	6.57 6.56		7.2 7.5		8.2	
		Bottom	8.5	17.1 17.1	39.1 39.1	8.27 8.27	87.5 86.5	5.81 5.72	5.77	11.3 11.8		9.7	
	Other Observations:			Nil									
SR15	09:50	Surface	1	16.9 16.9	38.9 38.9	8.23 8.23	100.9 100.8	6.58 6.57	6.14	9.3 9.6	9.6	9.2	10.2
		Middle	11	17.0 17.0	39.1 39.1	8.26 8.26	86.2 86.4	5.69 5.71		8.3 8.0		8.8	
		Bottom	21	16.9 16.9	39.1 39.2	8.27 8.27	86.5 86.0	5.72 5.68	5.70	11.2 10.9		12.6	
	Other Observations:			Nil									
CS1	08:50	Surface	1	17.0 17.0	38.9 38.9	8.16 8.16	87.5 86.6	5.81 5.71	6.12	7.4 7.2	8.7	10.0	9.0
		Middle	5	17.1 17.1	39.0 39.0	8.18 8.18	99.1 99.3	6.46 6.50		7.8 7.2		7.6	
		Bottom	8.5	17.3 17.3	39.0 39.0	8.20 8.20	99.6 99.8	6.52 6.53	6.53	11.4 11.0		9.5	
	Other Observations:			Nil									
CS2	09:12	Surface	1	17.2 17.2	38.9 39.0	8.19 8.19	80.7 80.6	5.36 5.32	5.56	8.6 7.8	9.1	7.8	9.9
		Middle	5.5	17.2 17.2	39.1 39.1	8.20 8.20	88.2 86.9	5.82 5.72		7.2 7.1		8.2	
		Bottom	9.5	17.3 17.3	39.0 39.1	8.21 8.21	87.5 86.8	5.81 5.72	5.77	12.1 12.0		13.7	
	Other Observations:			Nil									
CS3	09:35	Surface	1	17.1 17.1	39.0 39.0	8.23 8.23	100.1 100.6	6.49 6.54	6.75	10.7 11.1	10.7	9.9	10.5
		Middle	11.5	17.1 17.1	39.1 39.1	8.24 8.24	107.5 107.5	6.99 6.99		9.0 9.7		11.0	
		Bottom	22	17.0 17.0	39.1 39.1	8.26 8.26	99.8 99.6	6.53 6.51	6.52	11.7 12.0		10.6	
	Other Observations:			Nil									

* Contains sample results < detection limit but assumed to be at the detection limit for the sake of computation.

Date: 18/2/2005
Weather: Rainy
Sea Condition: Rough
Tide: Mid-Ebb

Water Quality Monitoring Result

Location	Time	Depth (m)		Temp. (°C)	Salinity (ppt)	pH	D.O. Sat. (%)	D.O. (mg/L)		Turbidity (NTU)		S.S. (mg/L)	
								Value	DA	Value	DA	Average	DA
SR6	18:25	Surface	1	17.3 17.3	38.9 38.9	8.20 8.20	100.4 101.7	6.55 6.68	6.58	9.7 9.6	10.0	10.1	9.3
		Middle	11	17.5 17.5	38.9 38.9	8.21 8.21	100.8 100.0	6.58 6.52		10.8 10.4		9.5	
		Bottom	21	18.0 17.9	39.0 39.0	8.23 8.23	92.3 93.4	6.04 6.10	6.07	9.1 10.2		8.3	
	Other Observations:			Nil									
SR7	18:10	Surface	1	17.1 17.0	39.0 39.0	8.25 8.24	106.4 106.0	6.82 6.80	6.58	8.8 8.0	10.0	9.5	9.1
		Middle	4.5	17.3 17.7	39.0 39.0	8.28 8.28	98.6 96.9	6.36 6.35		10.0 10.1		9.3	
		Bottom	8	17.3 16.8	39.1 39.1	8.29 8.29	86.9 86.8	5.72 5.71	5.72	11.8 11.3		8.5	
	Other Observations:			Nil									
SR10	17:55	Surface	1	17.0 17.0	39.1 39.1	8.27 8.27	108.4 108.0	7.02 7.00	6.68	10.1 10.0	10.2	10.9	10.7
		Middle	4	16.9 16.9	39.1 39.1	8.28 8.28	96.1 96.8	6.33 6.37		9.2 9.0		10.5	
		Bottom	7	16.8 16.8	39.1 39.2	8.28 8.28	86.9 86.0	5.72 5.67	5.70	11.2 11.4		10.8	
	Other Observations:			Nil									
SR11	17:40	Surface	1	17.2 17.2	39.1 39.1	8.26 8.26	106.2 107.8	6.81 7.03	6.64	8.6 8.4	9.9	9.2	9.2
		Middle	3.5	17.2 17.2	39.1 39.1	8.28 8.28	98.4 98.6	6.36 6.37		10.2 9.8		9.7	
		Bottom	6	17.2 17.2	39.1 39.2	8.29 8.29	86.7 86.8	5.71 5.72	5.72	11.2 11.3		8.7	
	Other Observations:			Nil									
SR12	17:25	Surface	1	17.2 17.2	39.1 39.1	8.27 8.27	106.4 106.3	6.82 6.83	6.72	7.8 7.7	7.8	7.2	8.6
		Middle	4	17.1 17.1	39.1 39.1	8.29 8.29	100.2 101.8	6.54 6.68		7.2 7.4		8.4	
		Bottom	7	17.1 17.1	39.1 39.1	8.28 8.28	91.6 91.4	6.01 5.98	6.00	8.2 8.6		10.2	
	Other Observations:			Nil									
SR14	17:10	Surface	1	17.1 17.1	39.1 39.0	8.27 8.28	107.5 107.7	7.01 7.02	6.80	9.3 9.1	9.3	8.6	9.3
		Middle	4.5	17.1 17.1	39.1 39.1	8.28 8.28	100.8 100.9	6.58 6.59		8.3 8.4		9.8	
		Bottom	8	17.2 17.2	39.1 39.2	8.28 8.28	92.3 92.0	6.04 6.02	6.03	10.1 10.3		9.4	
	Other Observations:			Nil									
SR15	16:55	Surface	1	16.8 16.8	39.1 39.1	8.25 8.25	100.7 100.9	6.57 6.58	6.45	7.6 7.2	9.0	9.9	10.0
		Middle	11	16.9 16.9	39.1 39.1	8.26 8.26	96.1 95.8	6.32 6.31		8.4 8.6		10.2	
		Bottom	20.5	16.8 16.9	39.1 39.1	8.27 8.27	87.5 86.2	5.81 5.68	5.75	11.4 11.0		9.8	
	Other Observations:			Nil									
CS1	16:00	Surface	1	17.1 17.0	38.9 38.9	8.18 8.18	100.4 100.3	6.55 6.54	6.53	8.0 8.4	9.2	8.6	9.3
		Middle	4.5	17.2 17.2	39.0 39.0	8.20 8.20	99.6 99.5	6.52 6.51		7.4 7.8		8.6	
		Bottom	8	17.2 17.2	39.0 39.0	8.23 8.23	86.6 86.2	5.70 5.68	5.69	11.4 12.0		10.6	
	Other Observations:			Nil									
CS2	16:20	Surface	1	17.2 17.2	38.9 38.9	8.16 8.16	101.6 101.8	6.67 6.68	6.18	10.1 10.4	9.3	8.5	9.2
		Middle	5	17.2 17.3	39.0 39.0	8.20 8.20	86.1 86.0	5.67 5.68		8.4 8.6		9.8	
		Bottom	8.5	17.2 17.2	39.0 39.0	8.22 8.23	86.0 86.2	5.68 5.69	5.69	9.0 9.2		9.2	
	Other Observations:			Nil									
CS3	16:40	Surface	1	17.0 17.0	38.9 38.9	8.22 8.22	101.7 101.8	6.67 6.68	6.20	9.6 9.3	9.5	10.0	9.7
		Middle	11	17.1 17.1	39.1 39.1	8.25 8.25	86.9 87.0	5.72 5.73		7.7 7.4		10.6	
		Bottom	21	17.1 17.1	39.1 39.1	8.27 8.28	86.0 86.2	5.67 5.68	5.68	11.2 11.7		8.5	
	Other Observations:			Nil									

* Contains sample results < detection limit but assumed to be at the detection limit for the sake of computation.

Date: 21/2/2005
Weather: Overcast
Sea Condition: Moderate
Tide: Mid-Flood

Water Quality Monitoring Result

Location	Time	Depth (m)		Temp. (°C)	Salinity (ppt)	pH	D.O. Sat. (%)	D.O. (mg/L)		Turbidity (NTU)		S.S. (mg/L)	
								Value	DA	Value	DA	Average	DA
SR6	16:54	Surface	1	16.1 16.1	39.4 39.5	8.40 8.39	83.1 84.0	6.45 6.52	6.35	7.9 8.1	8.7	8.8	8.2
		Middle	11	16.1 16.1	39.6 39.6	8.43 8.43	80.4 79.7	6.24 6.19		8.6 8.8		9.0	
		Bottom	21	16.2 16.2	39.6 39.6	8.44 8.44	76.3 76.9	5.92 5.97	5.95	9.4 9.2		7.0	
	Other Observations:			Nil									
SR7	16:42	Surface	1	16.1 16.1	39.4 39.4	8.37 8.36	85.8 86.3	6.66 6.70	6.58	7.3 7.1	6.8	9.2	8.7
		Middle	5	16.2 16.1	39.4 39.4	8.42 8.42	83.6 83.1	6.49 6.45		6.8 6.9		8.4	
		Bottom	8.5	16.1 16.1	39.5 39.5	8.45 8.45	80.5 81.3	6.25 6.31	6.28	6.3 6.4		8.4	
	Other Observations:			Nil									
SR10	16:29	Surface	1	15.9 15.9	39.7 39.7	8.50 8.49	81.7 81.5	6.34 6.33	6.30	5.7 5.5	5.8	9.6	9.7
		Middle	4.5	15.9 15.9	39.8 39.8	8.51 8.51	81.0 80.5	6.29 6.25		5.6 5.7		9.2	
		Bottom	7.5	16.0 16.1	39.8 39.8	8.52 8.52	77.4 77.0	6.01 5.98	6.00	6.0 6.2		10.4	
	Other Observations:			Nil									
SR11	16:19	Surface	1	15.9 15.8	39.4 39.4	8.49 8.48	78.9 78.7	6.13 6.11	6.08	4.9 5.1	5.0	7.8	8.7
		Middle	4	15.9 15.9	39.5 39.5	8.51 8.50	77.6 78.1	6.02 6.06		5.2 5.3		9.2	
		Bottom	7	16.0 16.0	39.6 39.6	8.51 8.51	76.9 76.5	5.97 5.94	5.96	4.8 4.8		9.1	
	Other Observations:			Nil									
SR12	16:08	Surface	1	15.9 16.0	39.7 39.7	8.50 8.49	80.8 79.2	6.27 6.15	6.08	4.8 4.7	4.5	9.7	9.1
		Middle	4.5	16.0 16.0	39.7 39.7	8.50 8.50	76.8 76.3	5.96 5.92		4.5 4.5		8.2	
		Bottom	7.5	16.1 16.1	39.8 39.8	8.51 8.51	76.1 75.6	5.91 5.87	5.89	4.2 4.3		9.5	
	Other Observations:			Nil									
SR14	15:57	Surface	1	16.0 16.0	39.7 39.7	8.47 8.47	83.9 84.3	6.51 6.54	6.41	5.2 5.3	5.7	9.9	9.7
		Middle	5	16.1 16.1	39.8 39.8	8.48 8.49	80.9 81.2	6.28 6.30		5.6 5.4		8.7	
		Bottom	8.5	16.2 16.2	39.8 39.8	8.49 8.49	79.9 79.8	6.20 6.19	6.20	6.2 6.5		10.4	
	Other Observations:			Nil									
SR15	15:45	Surface	1	16.0 16.0	39.6 39.6	8.48 8.47	81.3 81.5	6.31 6.33	6.23	5.7 5.5	5.3	10.5	9.8
		Middle	11	16.1 16.1	39.7 39.7	8.48 8.48	79.1 78.8	6.14 6.12		5.2 5.4		10.0	
		Bottom	20.5	16.1 16.1	39.8 39.8	8.49 8.49	76.7 76.9	5.95 5.97	5.96	5.1 5.0		9.1	
	Other Observations:			Nil									
CS1	15:03	Surface	1	16.1 16.1	39.3 39.4	8.45 8.45	78.8 79.3	6.11 6.15	6.23	8.1 7.9	7.0	10.2	9.9
		Middle	5	16.2 16.1	39.4 39.4	8.47 8.47	81.7 81.5	6.34 6.32		7.6 7.4		8.4	
		Bottom	8.5	16.2 16.2	39.5 39.5	8.47 8.47	80.8 80.7	6.27 6.26	6.27	5.3 5.5		11.2	
	Other Observations:			Nil									
CS2	15:16	Surface	1	16.1 16.2	39.6 39.6	8.45 8.45	79.4 79.5	6.16 6.17	6.22	7.7 7.8	7.1	9.4	10.0
		Middle	5.5	16.2 16.2	39.7 39.7	8.47 8.47	81.1 80.6	6.29 6.25		7.2 6.9		10.2	
		Bottom	9.5	16.2 16.2	39.8 39.7	8.47 8.47	78.2 78.5	6.07 6.09	6.08	6.7 6.5		10.4	
	Other Observations:			Nil									
CS3	15:32	Surface	1	16.1 16.1	39.5 39.4	8.46 8.46	81.9 82.6	6.36 6.41	6.30	5.9 5.9	5.5	8.8	9.5
		Middle	11	16.1 16.1	39.5 39.5	8.47 8.47	80.1 79.7	6.22 6.19		5.4 5.6		9.6	
		Bottom	21	16.2 16.2	39.6 39.6	8.47 8.47	78.6 78.2	6.10 6.07	6.09	4.9 5.0		10.1	
	Other Observations:			Nil									

* Contains sample results < detection limit but assumed to be at the detection limit for the sake of computation.

Date: 21/2/2005
Weather: Overcast
Sea Condition: Moderate
Tide: Mid-Ebb

Water Quality Monitoring Result

Location	Time	Depth (m)		Temp. (°C)	Salinity (ppt)	pH	D.O. Sat. (%)	D.O. (mg/L)		Turbidity (NTU)		S.S. (mg/L)	
								Value	DA	Value	DA	Average	DA
SR6	12:20	Surface	1	16.0 16.0	39.3 39.3	8.40 8.39	84.7 84.3	6.60 6.57	6.65	5.5 5.6	5.8	8.7	8.6
		Middle	11	16.1 16.1	39.5 39.5	8.43 8.42	86.4 85.9	6.73 6.69		5.3 5.0		7.4	
		Bottom	20.5	16.1 16.1	39.6 39.5	8.45 8.44	84.5 84.8	6.53 6.56	6.55	6.4 6.7		9.7	
	Other Observations:			Nil									
SR7	12:07	Surface	1	16.0 16.0	39.3 39.2	8.30 8.30	94.1 95.1	7.32 7.39	7.32	5.2 5.0	6.0	8.0	8.1
		Middle	4.5	16.1 16.1	39.4 39.4	8.41 8.41	94.0 93.7	7.29 7.27		5.9 5.8		7.8	
		Bottom	8	16.1 16.1	39.5 39.5	8.42 8.42	92.0 91.7	7.14 7.12	7.13	7.0 6.9		8.5	
	Other Observations:			Nil									
SR10	11:54	Surface	1	15.9 15.9	39.6 39.6	8.49 8.49	82.1 81.2	6.37 6.30	6.23	4.7 4.9	5.3	9.7	9.6
		Middle	4	15.9 16.0	39.7 39.7	8.50 8.50	79.0 78.9	6.13 6.12		5.2 5.5		10.6	
		Bottom	7	16.0 16.0	39.7 39.7	8.51 8.50	77.8 78.1	6.04 6.06	6.05	5.6 5.7		8.7	
	Other Observations:			Nil									
SR11	11:42	Surface	1	15.9 15.9	39.5 39.5	8.49 8.48	78.8 79.8	6.14 6.21	6.17	5.9 5.9	5.6	9.9	8.9
		Middle	4	15.8 15.8	39.6 39.6	8.50 8.50	79.3 79.2	6.17 6.16		5.7 5.6		8.2	
		Bottom	6.5	15.8 15.8	39.7 39.7	8.50 8.50	77.1 76.8	6.02 6.00	6.01	5.3 5.3		8.7	
	Other Observations:			Nil									
SR12	11:31	Surface	1	15.9 15.9	39.6 39.6	8.49 8.49	81.0 82.5	6.30 6.41	6.29	5.4 5.6	5.4	10.1	9.5
		Middle	4	15.9 15.9	39.7 39.7	8.50 8.50	80.4 80.1	6.24 6.21		5.5 5.5		10.8	
		Bottom	7	15.9 15.9	39.7 39.7	8.51 8.51	78.7 78.5	6.11 6.09	6.10	5.1 5.0		7.5	
	Other Observations:			Nil									
SR14	11:19	Surface	1	15.9 15.9	39.6 39.6	8.46 8.47	83.6 83.2	6.49 6.46	6.37	5.8 5.7	5.5	9.2	9.6
		Middle	4.5	16.0 16.0	39.7 39.7	8.48 8.48	81.1 80.5	6.29 6.24		5.5 5.6		9.9	
		Bottom	8	16.0 16.0	39.7 39.7	8.49 8.49	79.2 79.6	6.14 6.17	6.16	5.2 5.2		9.7	
	Other Observations:			Nil									
SR15	11:07	Surface	1	16.0 16.0	39.6 39.6	8.47 8.47	84.1 84.4	6.52 6.54	6.40	6.5 6.3	5.5	9.6	9.1
		Middle	10.5	16.0 16.0	39.7 39.7	8.49 8.49	81.3 80.9	6.29 6.26		5.3 5.1		8.8	
		Bottom	19.5	16.1 16.1	39.7 39.7	8.50 8.50	79.1 78.8	6.12 6.10	6.11	4.7 4.9		8.9	
	Other Observations:			Nil									
CS1	10:24	Surface	1	16.1 16.1	39.5 39.4	8.46 8.46	82.8 83.9	6.33 6.42	6.42	9.6 9.3	7.3	6.8	8.7
		Middle	4.5	16.1 16.1	39.5 39.6	8.48 8.48	83.5 83.7	6.46 6.48		7.1 7.4		8.8	
		Bottom	8	16.1 16.1	39.6 39.6	8.49 8.49	82.3 82.0	6.37 6.35	6.36	5.2 5.0		10.5	
	Other Observations:			Nil									
CS2	10:38	Surface	1	16.0 16.0	39.6 39.6	8.45 8.44	81.8 82.4	6.35 6.38	6.34	8.7 8.4	7.9	8.5	9.2
		Middle	5	16.1 16.1	39.7 39.7	8.47 8.46	81.7 81.5	6.33 6.31		7.5 7.7		9.7	
		Bottom	9	16.1 16.1	39.7 39.7	8.47 8.47	80.7 80.6	6.25 6.24	6.25	7.3 7.5		9.5	
	Other Observations:			Nil									
CS3	10:54	Surface	1	16.0 16.0	39.5 39.5	8.46 8.46	82.8 82.4	6.43 6.40	6.34	6.7 6.8	5.6	9.3	9.4
		Middle	10.5	16.0 16.0	39.6 39.6	8.47 8.47	81.0 80.4	6.28 6.24		5.6 5.8		10.3	
		Bottom	20	16.0 16.0	39.7 39.7	8.47 8.47	79.6 79.4	6.16 6.15	6.16	4.4 4.5		8.5	
	Other Observations:			Nil									

* Contains sample results < detection limit but assumed to be at the detection limit for the sake of computation.

Date: 23/2/2005
Weather: Overcast
Sea Condition: Moderate
Tide: Mid-Flood

Water Quality Monitoring Result

Location	Time	Depth (m)		Temp. (°C)	Salinity (ppt)	pH	D.O. Sat. (%)	D.O. (mg/L)		Turbidity (NTU)		S.S. (mg/L)	
								Value	DA	Value	DA	Average	DA
SR6	18:08	Surface	1	16.1 16.1	39.4 39.4	8.49 8.48	88.5 87.6	6.29 6.23	6.38	5.1 4.8	6.3	9.4	9.4
		Middle	11	16.0 16.0	39.5 39.5	8.51 8.50	90.7 90.5	6.50 6.48		7.1 7.7		9.3	
		Bottom	21	15.8 15.8	39.5 39.5	8.50 8.50	85.0 86.3	6.12 6.20	6.16	6.3 6.5		9.4	
	Other Observations:			Nil									
SR7	17:55	Surface	1	15.8 15.8	39.5 39.5	8.47 8.46	93.5 92.8	6.69 6.67	6.77	6.2 6.1	5.5	9.6	8.8
		Middle	4.5	15.8 15.8	39.5 39.5	8.47 8.47	94.8 95.2	6.84 6.88		4.1 4.4		8.0	
		Bottom	8	15.8 15.8	39.5 39.5	8.47 8.47	93.3 92.8	6.77 6.73	6.75	6.2 5.9		8.7	
	Other Observations:			Nil									
SR10	17:40	Surface	1	16.1 16.1	39.5 39.5	8.56 8.55	101.6 100.9	7.10 7.06	7.15	7.1 6.8	7.8	10.3	10.7
		Middle	4	16.0 16.0	39.5 39.5	8.55 8.55	99.6 99.8	7.21 7.22		8.4 8.3		10.3	
		Bottom	7	16.0 16.0	39.4 39.4	8.54 8.55	99.2 99.4	7.09 7.10	7.10	8.0 8.1		11.6	
	Other Observations:			Nil									
SR11	17:26	Surface	1	16.0 16.0	39.6 39.6	8.61 8.57	94.3 93.0	6.71 6.61	6.70	6.3 6.2	7.4	4.6	5.0
		Middle	4	15.9 15.9	39.6 39.6	8.56 8.60	93.4 93.8	6.71 6.76		8.1 8.4		5.3	
		Bottom	7	15.9 15.9	39.6 39.6	8.60 8.58	86.5 87.5	6.23 6.29	6.26	7.2 8.0		5.1	
	Other Observations:			Nil									
SR12	17:13	Surface	1	16.0 16.0	39.6 39.5	8.62 8.61	99.4 96.8	7.15 6.97	6.91	8.1 9.1	6.0	5.1	5.0
		Middle	4	15.9 15.9	39.6 39.6	8.60 8.60	93.5 94.7	6.71 6.80		3.3 3.4		4.6	
		Bottom	7	15.8 15.8	39.7 39.6	8.61 8.61	87.8 88.4	6.31 6.36	6.34	5.8 6.1		5.3	
	Other Observations:			Nil									
SR14	17:01	Surface	1	16.4 16.4	39.6 39.6	8.44 8.44	89.2 88.9	6.41 6.38	6.59	7.5 7.1	5.5	5.1	5.8
		Middle	4.5	16.3 16.3	39.6 39.6	8.43 8.43	93.7 92.5	6.83 6.75		4.2 4.1		5.0	
		Bottom	8	16.2 16.2	39.7 39.6	8.44 8.44	88.1 87.6	6.35 6.34	6.35	5.2 5.1		7.2	
	Other Observations:			Nil									
SR15	16:47	Surface	1	16.3 16.3	39.6 39.6	8.57 8.56	89.9 89.7	6.43 6.42	6.56	5.1 5.3	5.6	7.6	7.4
		Middle	10	16.0 16.0	39.6 39.6	8.56 8.56	92.4 92.7	6.68 6.70		7.1 8.2		7.2	
		Bottom	19	15.8 15.8	39.6 39.6	8.57 8.57	91.1 91.7	6.62 6.64	6.63	3.9 4.0		7.4	
	Other Observations:			Nil									
CS1	16:00	Surface	1	15.9 15.9	39.4 39.5	8.50 8.49	90.2 90.7	6.50 6.52	6.54	4.1 4.3	6.1	10.6	9.7
		Middle	4.5	15.8 15.8	39.5 39.5	8.39 8.38	91.3 91.1	6.57 6.56		6.2 6.1		9.7	
		Bottom	8	15.8 15.8	39.5 39.5	8.50 8.49	88.8 89.7	6.37 6.43	6.40	8.2 7.4		8.8	
	Other Observations:			Nil									
CS2	16:15	Surface	1	15.4 15.4	39.4 39.4	8.51 8.50	89.6 90.0	6.36 6.40	6.46	9.0 10.0	6.8	10.0	8.4
		Middle	5.5	15.2 15.2	39.3 39.3	8.52 8.51	91.5 91.7	6.53 6.54		3.1 3.3		7.4	
		Bottom	10	15.2 15.2	39.3 39.3	8.50 8.50	86.6 87.1	6.18 6.20	6.19	7.1 8.2		7.8	
	Other Observations:			Nil									
CS3	16:33	Surface	1	16.6 16.6	39.6 39.6	8.56 8.55	90.6 89.6	6.40 6.34	6.46	6.2 6.3	7.9	9.1	7.9
		Middle	11	15.9 15.9	39.6 39.6	8.58 8.57	92.6 92.7	6.55 6.56		9.1 10.2		6.9	
		Bottom	20.5	15.8 15.8	39.7 39.7	8.57 8.57	89.7 89.5	6.41 6.39	6.40	7.4 8.4		7.8	
	Other Observations:			Nil									

* Contains sample results < detection limit but assumed to be at the detection limit for the sake of computation.

Date: 23/2/2005
Weather: Overcast
Sea Condition: Moderate
Tide: Mid-Ebb

Water Quality Monitoring Result

Location	Time	Depth (m)		Temp. (°C)	Salinity (ppt)	pH	D.O. Sat. (%)	D.O. (mg/L)		Turbidity (NTU)		S.S. (mg/L)	
								Value	DA	Value	DA	Average	DA
SR6	13:35	Surface	1	16.1 16.1	39.3 39.3	8.45 8.44	93.1 92.7	6.70 6.67	6.72	6.2 7.1	7.8	8.3	8.0
		Middle	10.5	16.0 16.0	39.5 39.5	8.50 8.51	93.8 93.9	6.74 6.75		8.4 7.3		7.4	
		Bottom	20	15.9 15.9	39.5 39.5	8.50 8.50	91.5 91.8	6.58 6.60	6.59	8.8 8.7		8.2	
	Other Observations:			Nil									
SR7	13:21	Surface	1	15.7 15.7	39.5 39.5	8.48 8.47	100.0 99.1	7.26 7.19	7.12	8.1 7.2	8.7	9.5	9.1
		Middle	4	15.7 15.7	39.5 39.5	8.47 8.47	96.2 96.6	6.99 7.02		11.2 10.2		8.4	
		Bottom	7	15.7 15.7	39.5 39.5	8.47 8.47	94.9 95.1	6.88 6.89	6.89	8.2 7.3		9.3	
	Other Observations:			Nil									
SR10	13:05	Surface	1	16.1 16.1	39.6 39.6	8.57 8.56	96.7 96.1	7.03 6.97	6.93	8.1 7.1	7.3	11.4	10.2
		Middle	4	16.0 16.0	39.5 39.5	8.56 8.55	94.2 94.8	6.85 6.87		6.2 6.7		9.3	
		Bottom	7	15.9 15.9	39.5 39.5	8.55 8.56	94.1 93.7	6.82 6.79	6.81	7.5 8.0		10.0	
	Other Observations:			Nil									
SR11	12:51	Surface	1	16.4 16.5	39.6 39.6	8.56 8.56	98.2 99.8	7.07 7.16	7.00	10.1 9.1	8.9	5.6	4.8
		Middle	4	16.0 16.0	39.6 39.6	8.56 8.57	96.2 95.3	6.91 6.85		7.7 7.6		4.9	
		Bottom	7	15.9 15.9	39.6 39.6	8.57 8.57	91.7 91.8	6.60 6.61	6.61	9.2 9.7		4.0	
	Other Observations:			Nil									
SR12	12:45	Surface	1	16.3 16.3	39.6 39.6	8.58 8.57	92.7 93.7	6.59 6.68	6.72	7.1 6.1	9.3	5.0	5.7
		Middle	4	16.0 16.0	39.6 39.6	8.56 8.57	95.1 95.9	6.79 6.83		9.1 10.2		5.6	
		Bottom	7	15.9 15.9	39.6 39.6	8.57 8.57	92.7 92.0	6.62 6.58	6.60	12.2 11.3		6.7	
	Other Observations:			Nil									
SR14	12:28	Surface	1	16.4 16.4	39.6 39.6	8.59 8.58	95.2 95.4	6.93 6.94	6.87	5.1 5.2	6.5	4.9	5.2
		Middle	4.5	16.2 16.2	39.6 39.6	8.57 8.56	93.3 92.8	6.83 6.79		6.5 6.1		5.3	
		Bottom	7.5	16.1 16.1	39.6 39.6	8.56 8.56	90.6 90.3	6.55 6.51	6.53	8.2 7.7		5.6	
	Other Observations:			Nil									
SR15	12:13	Surface	1	16.3 16.3	39.6 39.6	8.56 8.56	96.4 95.0	7.04 6.95	6.83	6.0 6.9	8.1	7.2	6.9
		Middle	10	16.0 16.0	39.7 39.7	8.57 8.56	91.7 91.0	6.70 6.62		8.1 8.6		6.8	
		Bottom	19	15.8 15.8	39.7 39.7	8.56 8.56	91.2 90.9	6.64 6.61	6.63	9.4 9.6		6.8	
	Other Observations:			Nil									
CS1	11:30	Surface	1	15.9 15.9	39.4 39.4	8.49 8.48	96.6 96.9	6.96 6.97	6.94	6.1 6.2	6.8	10.5	10.0
		Middle	4.5	15.9 15.9	39.4 39.4	8.55 8.54	96.3 95.9	6.93 6.90		7.8 7.7		10.1	
		Bottom	7.5	15.8 15.8	39.5 39.5	8.45 8.45	94.3 94.7	6.79 6.81	6.80	6.2 6.6		9.3	
	Other Observations:			Nil									
CS2	11:46	Surface	1	15.3 15.3	39.4 39.4	8.50 8.49	92.3 91.2	6.64 6.62	6.62	6.0 6.4	6.8	10.8	9.5
		Middle	5	15.2 15.2	39.3 39.3	8.51 8.50	91.0 91.3	6.60 6.62		6.5 6.4		9.4	
		Bottom	8.5	15.2 15.2	39.3 39.3	8.50 8.50	90.5 90.4	6.52 6.51	6.52	7.6 7.7		8.3	
	Other Observations:			Nil									
CS3	11:58	Surface	1	16.6 16.6	39.6 39.6	8.55 8.56	94.8 94.1	6.82 6.77	6.83	6.2 7.3	8.7	6.5	6.8
		Middle	10.5	15.9 15.9	39.7 39.7	8.56 8.55	95.4 94.6	6.89 6.82		8.6 8.8		6.4	
		Bottom	20	15.8 15.8	39.7 39.7	8.56 8.55	92.0 91.5	6.68 6.61	6.65	10.6 10.8		7.6	
	Other Observations:			Nil									

* Contains sample results < detection limit but assumed to be at the detection limit for the sake of computation.

Date: 25/2/2005
Weather: Overcast
Sea Condition: Moderate
Tide: Mid-Flood

Water Quality Monitoring Result

Location	Time	Depth (m)		Temp. (°C)	Salinity (ppt)	pH	D.O. Sat. (%)	D.O. (mg/L)		Turbidity (NTU)		S.S. (mg/L)	
								Value	DA	Value	DA	Average	DA
SR6	18:20	Surface	1	16.3 16.3	39.4 39.4	8.50 8.49	78.3 78.7	6.09 6.12	5.87	7.2 7.3	7.1	8.4	8.5
		Middle	11	16.3 16.3	39.4 39.4	8.49 8.50	73.4 73.7	5.62 5.63		7.2 7.8		9.5	
		Bottom	21	16.2 16.2	39.5 39.5	8.50 8.50	71.7 71.0	5.54 5.48	5.51	6.3 6.7		7.8	
	Other Observations:			Nil									
SR7	18:05	Surface	1	16.4 16.4	39.4 39.4	8.41 8.40	92.4 89.2	7.14 6.89	6.46	8.1 8.2	8.2	9.4	9.4
		Middle	4.5	16.3 16.3	39.4 39.4	8.43 8.42	76.7 76.5	5.92 5.90		8.2 8.5		9.7	
		Bottom	8	16.3 16.3	39.4 39.4	8.44 8.44	71.9 72.0	5.57 5.58	5.58	8.3 8.0		9.1	
	Other Observations:			Nil									
SR10	17:52	Surface	1	16.1 16.1	39.5 39.5	8.56 8.55	78.7 78.5	6.11 6.10	5.87	4.1 4.3	6.4	9.9	10.2
		Middle	4.5	16.1 16.1	39.5 39.5	8.56 8.56	73.2 73.5	5.62 5.63		8.1 8.8		10.8	
		Bottom	7.5	16.1 16.1	39.5 39.5	8.55 8.55	73.8 73.7	5.64 5.63	5.64	6.6 6.7		9.8	
	Other Observations:			Nil									
SR11	17:38	Surface	1	16.2 16.2	39.5 39.5	8.57 8.57	83.7 82.6	6.41 6.36	6.27	7.2 7.0	7.9	8.4	9.0
		Middle	4	16.2 16.2	39.5 39.5	8.56 8.57	80.8 78.2	6.24 6.06		6.1 6.5		8.8	
		Bottom	7	16.2 16.2	39.5 39.5	8.55 8.56	76.5 73.4	5.93 5.62	5.78	9.6 10.7		9.9	
	Other Observations:			Nil									
SR12	17:25	Surface	1	16.0 16.0	39.5 39.5	8.56 8.55	84.6 82.2	6.56 6.34	6.14	8.1 8.4	7.5	8.4	8.9
		Middle	4	16.0 16.0	39.5 39.5	8.55 8.56	76.8 74.4	5.95 5.72		9.1 8.7		9.4	
		Bottom	7	16.0 16.0	39.5 39.5	8.55 8.55	73.8 73.2	5.62 5.60	5.61	5.2 5.4		9.1	
	Other Observations:			Nil									
SR14	17:10	Surface	1	16.1 16.1	39.5 39.4	8.54 8.53	80.9 80.3	6.26 6.22	5.98	8.2 8.3	8.6	7.5	8.0
		Middle	4.5	16.1 16.1	39.5 39.5	8.54 8.54	75.4 73.4	5.85 5.60		9.1 9.2		8.2	
		Bottom	8	16.1 16.1	39.5 39.5	8.55 8.54	73.0 73.6	5.58 5.61	5.60	8.3 8.4		8.4	
	Other Observations:			Nil									
SR15	16:55	Surface	1	16.1 16.1	39.5 39.5	8.56 8.55	84.5 84.6	6.57 6.58	6.48	4.1 4.5	6.7	7.4	8.1
		Middle	10.5	16.1 16.1	39.6 39.6	8.55 8.55	83.7 83.0	6.42 6.35		8.2 8.3		7.9	
		Bottom	20	16.1 16.1	39.6 39.6	8.55 8.55	76.4 75.3	5.93 5.86	5.90	7.4 7.6		9.2	
	Other Observations:			Nil									
CS1	16:00	Surface	1	16.3 16.3	39.3 39.3	8.50 8.51	80.6 82.5	6.23 6.36	6.12	5.1 5.6	8.0	9.7	10.0
		Middle	4.5	16.3 16.3	39.4 39.4	8.50 8.50	76.4 76.8	5.93 5.95		8.2 8.3		9.7	
		Bottom	8	16.2 16.2	39.4 39.4	8.51 8.50	76.3 73.6	5.92 5.61	5.77	10.4 10.4		10.5	
	Other Observations:			Nil									
CS2	16:20	Surface	1	16.3 16.3	39.4 39.3	8.50 8.49	82.5 81.7	6.35 6.28	6.16	8.0 8.8	7.8	10.2	9.3
		Middle	5.5	16.3 16.2	39.4 39.4	8.51 8.50	77.6 77.0	6.02 6.00		5.1 5.4		8.0	
		Bottom	9.5	16.2 16.2	39.5 39.5	8.51 8.51	74.3 73.5	5.71 5.60	5.66	9.2 10.3		9.8	
	Other Observations:			Nil									
CS3	16:40	Surface	1	16.0 16.0	39.5 39.5	8.53 8.54	83.7 82.6	6.42 6.36	6.19	9.0 10.2	7.7	8.7	9.0
		Middle	11	16.0 16.0	39.5 39.5	8.54 8.54	77.8 76.8	6.04 5.92		8.0 8.3		9.0	
		Bottom	21	16.0 16.0	39.5 39.5	8.54 8.54	73.6 73.8	5.61 5.62	5.62	5.3 5.4		9.4	
	Other Observations:			Nil									

* Contains sample results < detection limit but assumed to be at the detection limit for the sake of computation.

Date: 25/2/2005
Weather: Rainy
Sea Condition: Moderate
Tide: Mid-Ebb

Water Quality Monitoring Result

Location	Time	Depth (m)		Temp. (°C)	Salinity (ppt)	pH	D.O. Sat. (%)	D.O. (mg/L)		Turbidity (NTU)		S.S. (mg/L)	
								Value	DA	Value	DA	Average	DA
SR6	14:33	Surface	1	16.3 16.3	39.4 39.4	8.44 8.43	84.5 84.3	6.56 6.55	6.29	6.1 7.1	6.8	9.3	9.8
		Middle	10.5	16.3 16.3	39.5 39.5	8.43 8.44	77.2 77.4	6.01 6.02		8.2 9.1		9.9	
		Bottom	20	16.2 16.2	39.5 39.5	8.45 8.44	73.6 73.2	5.61 5.60	5.61	5.2 5.3		10.1	
	Other Observations:			Nil									
SR7	14:20	Surface	1	16.4 16.4	39.4 39.4	8.42 8.42	80.7 80.2	6.24 6.20	6.13	7.0 7.2	7.7	9.6	9.8
		Middle	4.5	16.4 16.4	39.4 39.4	8.45 8.46	77.7 77.2	6.05 6.01		8.1 8.4		9.9	
		Bottom	7.5	16.3 16.3	39.4 39.4	8.45 8.45	75.7 75.2	5.86 5.82	5.84	7.1 8.1		10.1	
	Other Observations:			Nil									
SR10	14:08	Surface	1	16.1 16.1	39.5 39.5	8.54 8.53	77.8 77.4	6.04 6.01	5.98	4.5 4.7	7.0	8.5	9.2
		Middle	4	16.1 16.1	39.5 39.5	8.55 8.55	76.5 76.8	5.92 5.93		8.0 8.2		9.8	
		Bottom	7	16.1 16.1	39.5 39.5	8.55 8.53	73.6 73.8	5.61 5.63	5.62	8.6 8.0		9.4	
	Other Observations:			Nil									
SR11	13:55	Surface	1	16.2 16.2	39.4 39.5	8.54 8.53	83.7 83.0	6.42 6.37	6.32	8.1 8.7	6.8	8.3	8.4
		Middle	4	16.2 16.2	39.5 39.5	8.53 8.54	80.7 80.8	6.24 6.25		5.2 5.4		7.8	
		Bottom	7	16.2 16.2	39.5 39.5	8.52 8.52	76.5 76.9	5.94 5.97	5.96	6.5 6.6		9.3	
	Other Observations:			Nil									
SR12	13:40	Surface	1	16.0 16.0	39.5 39.4	8.53 8.52	84.4 84.2	6.56 6.54	6.44	8.3 8.4	7.1	9.5	10.1
		Middle	4	16.0 16.0	39.4 39.5	8.52 8.52	82.2 82.0	6.34 6.33		6.2 6.3		10.3	
		Bottom	7	16.0 16.0	39.5 39.5	8.52 8.52	75.7 75.5	5.86 5.85	5.86	6.6 6.7		10.5	
	Other Observations:			Nil									
SR14	13:25	Surface	1	16.1 16.1	39.4 39.4	8.52 8.51	80.9 80.7	6.26 6.24	6.15	5.4 5.3	6.1	9.9	9.3
		Middle	4.5	16.0 16.0	39.5 39.5	8.52 8.52	77.7 77.6	6.05 6.04		7.1 7.8		8.7	
		Bottom	8	16.0 16.0	39.5 39.5	8.53 8.53	75.2 75.7	5.82 5.86	5.84	5.5 5.4		9.4	
	Other Observations:			Nil									
SR15	13:10	Surface	1	16.0 16.0	39.5 39.5	8.52 8.52	83.3 83.5	6.41 6.42	6.33	8.0 8.2	7.2	10.1	9.1
		Middle	10	16.0 16.0	39.5 39.5	8.51 8.52	80.6 80.7	6.23 6.24		7.1 7.4		9.3	
		Bottom	19	16.0 16.0	39.6 39.5	8.52 8.52	74.6 74.8	5.73 5.74	5.74	6.2 6.4		8.0	
	Other Observations:			Nil									
CS1	12:15	Surface	1	16.3 16.3	39.3 39.3	8.48 8.49	84.5 84.0	6.57 6.55	6.45	7.2 7.3	7.8	8.7	9.4
		Middle	4.5	16.2 16.2	39.4 39.4	8.48 8.48	82.5 82.0	6.36 6.33		6.5 6.8		9.3	
		Bottom	8	16.2 16.2	39.4 39.4	8.49 8.49	73.6 73.8	5.61 5.62	5.62	9.1 10.0		10.3	
	Other Observations:			Nil									
CS2	12:35	Surface	1	16.3 16.3	39.3 39.3	8.48 8.47	83.6 83.8	6.42 6.43	6.33	11.0 10.2	7.8	11.4	11.2
		Middle	5	16.3 16.2	39.3 39.3	8.49 8.48	80.4 80.8	6.22 6.25		7.1 8.2		10.0	
		Bottom	9	16.2 16.2	39.4 39.3	8.49 8.48	76.3 76.7	5.93 5.95	5.94	5.1 5.3		12.2	
	Other Observations:			Nil									
CS3	12:55	Surface	1	16.0 15.9	39.5 39.5	8.50 8.49	82.4 82.8	6.35 6.38	6.30	6.4 6.2	6.5	8.6	9.8
		Middle	10.5	16.0 16.0	39.5 39.5	8.51 8.51	80.8 80.6	6.25 6.23		6.1 7.0		10.5	
		Bottom	19.5	16.0 16.0	39.5 39.5	8.51 8.51	77.5 77.8	6.04 6.05	6.05	6.5 6.7		10.3	
	Other Observations:			Nil									

* Contains sample results < detection limit but assumed to be at the detection limit for the sake of computation.

Date: 28/2/2005
Weather: Overcast
Sea Condition: Moderate
Tide: Mid-Flood

Water Quality Monitoring Result

Location	Time	Depth (m)		Temp. (°C)	Salinity (ppt)	pH	D.O. Sat. (%)	D.O. (mg/L)		Turbidity (NTU)		S.S. (mg/L)	
								Value	DA	Value	DA	Average	DA
SR6	10:43	Surface	1	16.0 16.0	39.2 39.2	8.46 8.45	91.1 90.7	7.08 7.05	6.97	5.4 5.3	5.9	7.0	7.9
		Middle	11	16.1 16.1	39.4 39.3	8.44 8.44	88.5 88.4	6.87 6.86		5.9 6.0		9.5	
		Bottom	21	16.1 16.1	39.5 39.5	8.46 8.47	88.9 89.0	6.89 6.90	6.90	6.4 6.6		7.2	
	Other Observations:			Nil									
SR7	10:31	Surface	1	16.0 16.0	39.3 39.2	8.43 8.44	90.3 90.6	7.02 7.04	7.03	6.3 6.1	5.3	6.8	6.2
		Middle	5	16.0 16.0	39.3 39.3	8.40 8.41	90.4 90.2	7.03 7.01		5.4 5.5		6.0	
		Bottom	8.5	16.0 16.0	39.3 39.3	8.39 8.38	90.6 90.7	7.04 7.05	7.05	4.4 4.2		6.0	
	Other Observations:			Nil									
SR10	10:18	Surface	1	16.2 16.1	39.4 39.5	8.48 8.48	86.8 86.9	6.69 6.70	6.69	3.7 3.8	3.4	5.5	5.0
		Middle	4.5	16.2 16.2	39.6 39.6	8.49 8.49	86.9 86.1	6.70 6.65		3.5 3.6		6.3	
		Bottom	7.5	16.2 16.2	39.7 39.7	8.51 8.51	86.4 86.3	6.67 6.66	6.67	2.9 3.0		3.2	
	Other Observations:			Nil									
SR11	10:07	Surface	1	16.0 15.9	39.5 39.4	8.48 8.47	85.5 85.7	6.61 6.63	6.64	2.3 2.2	2.2	3.1	4.2
		Middle	4	16.1 16.1	39.7 39.6	8.49 8.49	86.0 86.3	6.65 6.67		2.2 2.1		6.5	
		Bottom	6.5	16.2 16.2	39.8 39.7	8.51 8.51	86.4 86.5	6.66 6.67	6.67	2.2 2.3		3.1	
	Other Observations:			Nil									
SR12	09:55	Surface	1	16.1 16.1	39.3 39.3	8.47 8.46	86.3 86.8	6.69 6.72	6.71	2.8 2.7	3.0	6.5	7.9
		Middle	4.5	16.1 16.2	39.6 39.5	8.50 8.50	86.9 86.8	6.71 6.70		2.6 2.7		8.7	
		Bottom	7.5	16.2 16.2	39.7 39.7	8.52 8.51	86.7 86.7	6.69 6.69	6.69	3.4 3.5		8.5	
	Other Observations:			Nil									
SR14	09:43	Surface	1	16.1 16.1	39.4 39.3	8.49 8.48	87.1 86.6	6.74 6.70	6.75	4.5 4.7	4.2	9.7	10.4
		Middle	5	16.2 16.2	39.5 39.5	8.51 8.50	87.8 87.5	6.78 6.76		4.1 4.0		11.5	
		Bottom	8.5	16.2 16.2	39.6 39.6	8.52 8.52	87.3 87.4	6.74 6.71	6.73	3.9 3.9		10.1	
	Other Observations:			Nil									
SR15	09:32	Surface	1	16.1 16.1	39.5 39.5	8.49 8.49	84.8 86.4	6.55 6.67	6.69	4.2 4.4	4.1	7.9	9.7
		Middle	11	16.2 16.2	39.7 39.6	8.52 8.52	87.3 87.9	6.74 6.79		3.7 3.9		11.1	
		Bottom	20.5	16.2 16.2	39.8 39.8	8.52 8.52	89.6 89.5	6.92 6.91	6.92	4.1 4.0		10.1	
	Other Observations:			Nil									
CS1	08:50	Surface	1	16.1 16.1	39.3 39.2	8.46 8.45	89.1 89.9	6.93 6.98	6.94	6.7 6.5	6.6	8.7	9.5
		Middle	5	16.1 16.1	39.4 39.4	8.47 8.47	89.2 89.2	6.92 6.92		6.0 6.2		8.9	
		Bottom	8.5	16.1 16.1	39.4 39.4	8.48 8.48	89.0 88.9	6.90 6.89	6.90	7.0 7.1		11.0	
	Other Observations:			Nil									
CS2	09:02	Surface	1	16.0 16.0	39.0 39.1	8.42 8.42	87.2 87.1	6.80 6.79	6.78	6.4 6.5	5.0	7.0	8.1
		Middle	5.5	16.0 16.0	39.2 39.1	8.43 8.43	86.9 86.9	6.77 6.77		4.9 4.7		8.5	
		Bottom	9.5	16.0 16.0	39.2 39.2	8.44 8.45	87.5 86.8	6.81 6.76	6.79	3.7 3.6		8.8	
	Other Observations:			Nil									
CS3	09:18	Surface	1	16.2 16.2	39.5 39.5	8.48 8.47	88.3 88.7	6.82 6.85	6.81	7.6 8.0	7.5	8.5	8.4
		Middle	11	16.2 16.2	39.8 39.7	8.53 8.52	88.1 87.9	6.79 6.77		8.1 8.2		7.7	
		Bottom	21	16.2 16.2	39.9 39.9	8.52 8.52	89.0 88.4	6.86 6.81	6.84	6.5 6.4		8.9	
	Other Observations:			Nil									

* Contains sample results < detection limit but assumed to be at the detection limit for the sake of computation.

Date: 28/2/2005
Weather: Overcast
Sea Condition: Moderate
Tide: Mid-Ebb

Water Quality Monitoring Result

Location	Time	Depth (m)		Temp. (°C)	Salinity (ppt)	pH	D.O. Sat. (%)	D.O. (mg/L)		Turbidity (NTU)		S.S. (mg/L)	
								Value	DA	Value	DA	Average	DA
SR6	15:45	Surface	1	16.0 15.9	39.2 39.2	8.40 8.40	86.3 86.3	6.69 6.69	6.61	5.6 5.5	6.1	8.0	7.8
		Middle	11	16.1 16.1	39.4 39.3	8.38 8.39	84.1 84.5	6.52 6.55		5.8 5.8		7.3	
		Bottom	20.5	16.0 16.0	39.5 39.6	8.37 8.36	83.3 82.7	6.46 6.41	6.44	6.7 6.9		8.1	
	Other Observations:			Nil									
SR7	15:33	Surface	1	16.1 16.0	39.2 39.2	8.41 8.41	86.5 85.9	6.71 6.66	6.68	5.8 5.8	6.0	8.7	8.1
		Middle	4.5	16.2 16.1	39.3 39.3	8.39 8.39	86.2 86.0	6.68 6.67		5.9 6.0		7.6	
		Bottom	8	16.3 16.2	39.5 39.5	8.35 8.36	84.1 83.6	6.52 6.48	6.50	6.2 6.4		8.0	
	Other Observations:			Nil									
SR10	15:17	Surface	1	16.2 16.2	39.4 39.4	8.46 8.46	85.9 86.1	6.66 6.68	6.63	3.5 3.6	3.4	8.2	8.7
		Middle	4	16.2 16.2	39.5 39.5	8.48 8.48	84.7 85.1	6.57 6.60		3.4 3.4		8.6	
		Bottom	7	16.2 16.2	39.6 39.5	8.50 8.49	82.8 83.0	6.42 6.44	6.43	3.1 3.2		9.4	
	Other Observations:			Nil									
SR11	15:06	Surface	1	16.0 16.1	39.4 39.5	8.49 8.48	84.6 85.1	6.58 6.62	6.57	3.4 3.3	3.2	8.5	7.8
		Middle	4	16.1 16.2	39.5 39.5	8.49 8.49	84.1 84.1	6.54 6.54		3.1 3.2		8.2	
		Bottom	6.5	16.2 16.2	39.6 39.6	8.50 8.51	81.9 82.4	6.37 6.41	6.39	3.2 3.2		6.7	
	Other Observations:			Nil									
SR12	14:54	Surface	1	16.1 16.2	39.3 39.3	8.48 8.48	85.1 85.3	6.62 6.64	6.61	4.3 4.4	4.1	8.7	8.5
		Middle	4	16.2 16.2	39.4 39.3	8.48 8.49	85.3 84.8	6.59 6.60		4.2 4.2		9.4	
		Bottom	7	16.2 16.2	39.4 39.4	8.50 8.50	83.9 83.9	6.53 6.53	6.53	3.8 3.9		7.5	
	Other Observations:			Nil									
SR14	14:43	Surface	1	16.1 16.0	39.3 39.4	8.47 8.46	86.4 85.9	6.72 6.68	6.68	4.9 5.0	5.3	8.0	8.8
		Middle	4.5	16.2 16.2	39.4 39.4	8.49 8.49	85.6 85.5	6.66 6.65		5.2 5.4		10.1	
		Bottom	8	16.2 16.2	39.5 39.4	8.51 8.51	84.7 84.7	6.59 6.59	6.59	5.7 5.7		8.4	
	Other Observations:			Nil									
SR15	14:30	Surface	1	16.0 16.0	39.2 39.3	8.46 8.46	83.2 83.0	6.48 6.46	6.44	4.6 4.8	4.5	8.2	7.7
		Middle	10.5	16.1 16.1	39.4 39.4	8.46 8.47	82.1 82.5	6.39 6.42		4.5 4.3		9.2	
		Bottom	20	16.2 16.2	39.5 39.5	8.49 8.49	83.7 83.4	6.51 6.49	6.50	4.2 4.4		5.7	
	Other Observations:			Nil									
CS1	13:49	Surface	1	16.0 16.1	39.2 39.2	8.47 8.47	88.6 88.9	6.87 6.89	6.81	6.5 6.5	6.5	6.9	7.7
		Middle	4.5	16.2 16.1	39.2 39.3	8.46 8.47	86.9 87.1	6.74 6.75		6.3 6.2		8.0	
		Bottom	8	16.0 16.0	39.3 39.3	8.49 8.48	86.3 85.5	6.69 6.63	6.66	6.9 6.8		8.4	
	Other Observations:			Nil									
CS2	14:01	Surface	1	16.0 16.0	39.1 39.0	8.44 8.44	85.8 86.1	6.68 6.70	6.67	6.1 6.3	6.4	7.7	9.0
		Middle	5	16.0 16.1	39.2 39.2	8.44 8.45	85.3 85.4	6.64 6.65		6.5 6.7		10.2	
		Bottom	9	16.1 16.1	39.2 39.2	8.46 8.46	83.8 84.0	6.52 6.54	6.53	6.4 6.5		9.1	
	Other Observations:			Nil									
CS3	14:16	Surface	1	16.1 16.1	39.3 39.3	8.45 8.45	86.9 87.0	6.76 6.77	6.73	7.2 7.1	7.2	9.1	8.0
		Middle	11	16.1 16.1	39.3 39.4	8.49 8.49	86.0 86.2	6.69 6.71		7.5 7.5		7.6	
		Bottom	20.5	16.2 16.2	39.4 39.4	8.51 8.51	84.1 83.9	6.54 6.53	6.54	7.0 6.9		7.4	
	Other Observations:			Nil									

* Contains sample results < detection limit but assumed to be at the detection limit for the sake of computation.

Date: 2/3/2005
Weather: Overcast
Sea Condition: Moderate
Tide: Mid-Flood

Water Quality Monitoring Result

Location	Time	Depth (m)		Temp. (°C)	Salinity (ppt)	pH	D.O. Sat. (%)	D.O. (mg/L)		Turbidity (NTU)		S.S. (mg/L)	
								Value	DA	Value	DA	Average	DA
SR6	11:10	Surface	1	16.1 16.1	39.4 39.4	8.48 8.49	92.6 90.4	7.18 7.02	6.75	9.1 8.7	5.3	11.2	9.7
		Middle	10.5	16.1 16.1	39.5 39.5	8.49 8.48	84.2 81.1	6.52 6.29		3.2 3.0		8.6	
		Bottom	20	16.1 16.1	39.6 39.7	8.48 8.48	84.8 80.3	6.57 6.22	6.40	3.8 4.0		9.4	
	Other Observations:			Nil									
SR7	10:55	Surface	1	16.3 16.3	39.4 39.4	8.43 8.44	101.3 101.1	7.82 7.81	7.38	7.1 7.2	6.6	9.4	9.2
		Middle	4.5	16.2 16.2	39.5 39.5	8.45 8.44	91.1 89.0	7.03 6.87		8.3 8.0		9.7	
		Bottom	7.5	16.2 16.2	39.6 39.6	8.49 8.48	79.3 79.5	6.16 6.17	6.17	4.4 4.6		8.6	
	Other Observations:			Nil									
SR10	10:42	Surface	1	16.0 16.0	39.6 39.6	8.54 8.53	79.1 78.0	6.16 6.06	6.25	7.3 7.4	6.1	8.9	9.8
		Middle	4	16.0 16.0	39.8 39.8	8.54 8.54	83.0 82.0	6.43 6.35		6.9 6.0		10.6	
		Bottom	7	16.0 16.0	39.8 39.8	8.53 8.55	80.1 79.2	6.20 6.14	6.17	4.2 4.5		9.8	
	Other Observations:			Nil									
SR11	10:27	Surface	1	16.0 16.0	39.7 39.7	8.53 8.54	99.0 89.5	7.70 6.95	6.89	5.2 5.6	4.1	10.2	9.2
		Middle	4	15.9 15.9	39.8 39.8	8.50 8.51	82.2 83.9	6.38 6.51		3.0 3.1		8.1	
		Bottom	7	15.9 15.9	39.8 39.8	8.53 8.52	79.9 78.7	6.20 6.11	6.16	3.8 4.0		9.4	
	Other Observations:			Nil									
SR12	10:10	Surface	1	16.0 16.0	39.7 39.7	8.54 8.51	84.6 86.5	6.53 6.74	6.50	6.1 6.4	5.3	8.7	8.3
		Middle	4	16.0 16.0	39.8 39.8	8.53 8.54	83.6 80.6	6.48 6.25		5.1 5.4		8.3	
		Bottom	7	16.0 16.0	39.8 39.8	8.54 8.53	80.1 79.7	6.20 6.17	6.19	4.2 4.3		8.0	
	Other Observations:			Nil									
SR14	09:55	Surface	1	16.0 16.0	39.6 39.6	8.58 8.59	102.3 94.7	7.97 7.35	7.06	10.1 9.7	7.5	8.1	7.7
		Middle	4.5	16.0 16.0	39.8 39.8	8.53 8.54	84.0 82.8	6.51 6.42		6.1 6.5		7.6	
		Bottom	7.5	16.0 16.0	39.8 39.8	8.56 8.56	80.3 79.5	6.22 6.16	6.19	6.2 6.5		7.6	
	Other Observations:			Nil									
SR15	09:42	Surface	1	15.5 15.5	39.4 39.4	8.54 8.55	111.0 100.9	8.72 7.92	7.35	4.7 4.3	6.6	8.9	9.5
		Middle	10	15.7 15.7	39.6 39.6	8.55 8.54	83.7 79.6	6.55 6.22		7.9 7.1		9.9	
		Bottom	19	15.8 15.8	39.7 39.7	8.55 8.53	80.3 78.9	6.25 6.14	6.20	8.3 7.4		9.8	
	Other Observations:			Nil									
CS1	08:50	Surface	1	16.0 16.0	39.3 39.2	8.44 8.45	102.9 102.7	8.01 8.00	7.22	7.6 7.8	6.9	8.3	9.4
		Middle	4.5	16.0 16.0	39.3 39.4	8.46 8.47	84.5 81.2	6.57 6.31		6.3 6.4		9.9	
		Bottom	8	16.0 16.0	39.4 39.4	8.47 8.46	80.5 79.7	6.26 6.20	6.23	6.6 6.7		10.2	
	Other Observations:			Nil									
CS2	09:19	Surface	1	15.9 15.9	39.3 39.2	8.49 8.48	112.0 112.4	8.75 8.77	7.79	7.1 7.3	9.2	10.9	10.6
		Middle	5	15.9 15.9	39.4 39.4	8.48 8.49	88.8 86.1	6.91 6.71		10.0 10.9		10.3	
		Bottom	9	16.0 16.0	39.6 39.6	8.51 8.50	83.8 82.5	6.51 6.40	6.46	10.2 9.9		10.7	
	Other Observations:			Nil									
CS3	09:25	Surface	1	15.8 15.8	39.6 39.6	8.53 8.52	105.9 100.0	8.26 7.79	7.21	6.0 6.9	6.7	9.5	9.8
		Middle	10.5	15.8 15.8	39.7 39.7	8.52 8.53	82.1 82.3	6.39 6.41		7.3 7.2		9.0	
		Bottom	20	16.0 16.0	39.8 39.8	8.54 8.53	79.3 80.5	6.15 6.24	6.20	6.2 6.5		10.9	
	Other Observations:			Nil									

* Contains sample results < detection limit but assumed to be at the detection limit for the sake of computation.

Date: 2/3/2005
Weather: Overcast
Sea Condition: Moderate
Tide: Mid-Ebb

Water Quality Monitoring Result

Location	Time	Depth (m)		Temp. (°C)	Salinity (ppt)	pH	D.O. Sat. (%)	D.O. (mg/L)		Turbidity (NTU)		S.S. (mg/L)	
								Value	DA	Value	DA	Average	DA
SR6	17:40	Surface	1	16.0 15.9	39.3 39.3	8.48 8.49	91.2 88.2	7.10 6.86	6.64	6.0 6.9	6.3	10.9	10.0
		Middle	11	16.0 16.0	39.4 39.4	8.49 8.48	81.8 80.1	6.36 6.23		6.1 6.4		10.0	
		Bottom	21	16.0 16.0	39.5 39.5	8.51 8.50	78.2 78.5	6.07 6.10	6.09	6.1 6.3		9.0	
	Other Observations:			Nil									
SR7	17:20	Surface	1	15.9 15.9	39.3 39.3	8.48 8.47	92.6 92.0	7.19 7.16	6.91	5.1 5.4	6.8	8.8	9.1
		Middle	4.5	15.9 15.9	39.4 39.4	8.48 8.48	86.4 85.0	6.73 6.54		8.9 9.0		8.7	
		Bottom	7.5	15.9 15.9	39.5 39.5	8.49 8.49	82.6 81.1	6.42 6.31	6.37	6.0 6.5		9.8	
	Other Observations:			Nil									
SR10	17:05	Surface	1	16.3 16.3	39.7 39.7	8.52 8.53	77.7 85.6	6.77 6.61	6.47	6.2 6.5	7.4	8.3	8.7
		Middle	4	16.2 16.2	39.8 39.7	8.53 8.54	81.2 80.6	6.27 6.22		8.1 8.9		9.4	
		Bottom	7	16.0 16.1	39.8 39.8	8.54 8.55	79.4 79.5	6.14 6.15	6.15	7.1 7.3		8.5	
	Other Observations:			Nil									
SR11	16:55	Surface	1	16.0 15.9	39.7 39.8	8.53 8.52	82.2 81.1	6.39 6.30	6.19	8.1 8.7	8.5	10.0	10.0
		Middle	4	15.9 15.9	39.8 39.8	8.53 8.52	77.6 77.8	6.03 6.04		8.3 8.2		10.2	
		Bottom	7	15.9 15.9	39.8 39.8	8.53 8.52	77.3 77.1	6.00 5.98	5.99	8.6 8.8		9.7	
	Other Observations:			Nil									
SR12	16:43	Surface	1	16.0 16.0	39.7 39.7	8.54 8.55	95.2 90.4	7.40 7.02	6.72	7.1 7.4	6.6	9.5	9.7
		Middle	4	16.0 16.0	39.8 39.8	8.54 8.53	80.6 79.9	6.25 6.20		6.1 6.5		8.7	
		Bottom	7	16.0 16.0	39.8 39.8	8.53 8.55	78.1 78.3	6.06 6.07	6.07	6.4 6.2		10.9	
	Other Observations:			Nil									
SR14	16:30	Surface	1	16.0 16.0	39.7 39.7	8.52 8.51	89.1 86.5	6.93 6.72	6.49	6.3 6.2	6.1	8.6	8.9
		Middle	4.5	16.0 16.0	39.8 39.8	8.53 8.54	79.4 79.1	6.16 6.13		7.1 6.5		8.9	
		Bottom	8	16.0 16.0	39.8 39.8	8.55 8.55	77.8 78.1	6.03 6.04	6.04	5.2 5.3		9.1	
	Other Observations:			Nil									
SR15	16:15	Surface	1	16.1 16.1	39.7 39.7	8.53 8.54	79.0 80.5	6.14 6.24	6.16	5.1 5.6	6.5	9.1	8.8
		Middle	10.5	16.1 16.1	39.8 39.8	8.55 8.55	79.7 78.9	6.17 6.10		6.2 6.5		8.2	
		Bottom	20	16.1 16.1	39.8 39.8	8.55 8.54	78.6 78.2	6.08 6.07	6.08	7.8 8.0		9.1	
	Other Observations:			Nil									
CS1	15:30	Surface	1	15.9 15.9	39.2 39.2	8.48 8.47	107.4 92.6	8.37 7.21	7.04	6.2 6.5	6.7	8.9	9.9
		Middle	4.5	15.9 15.9	39.3 39.4	8.47 8.48	81.2 81.0	6.33 6.23		8.1 8.3		10.0	
		Bottom	8	15.9 15.9	39.4 39.4	8.49 8.48	77.0 77.6	5.99 6.03	6.01	5.5 5.4		11.0	
	Other Observations:			Nil									
CS2	15:45	Surface	1	15.8 15.8	39.3 39.3	8.49 8.48	87.5 86.0	6.84 6.71	6.53	9.0 10.1	8.4	8.0	8.4
		Middle	5.5	15.8 15.8	39.4 39.4	8.49 8.49	81.4 80.0	6.34 6.23		8.2 8.1		9.1	
		Bottom	10	15.9 15.9	39.5 39.5	8.49 8.48	78.3 78.6	6.10 6.12	6.11	7.9 7.0		8.1	
	Other Observations:			Nil									
CS3	16:00	Surface	1	15.9 15.9	39.6 39.6	8.53 8.52	90.1 91.7	7.00 7.12	6.66	6.2 6.3	5.5	7.3	9.2
		Middle	11	15.9 15.9	39.7 39.8	8.54 8.55	80.8 81.1	6.22 6.29		6.8 6.9		10.9	
		Bottom	21	15.9 15.9	39.8 39.8	8.55 8.54	80.3 80.1	6.23 6.22	6.23	3.3 3.4		9.6	
	Other Observations:			Nil									

* Contains sample results < detection limit but assumed to be at the detection limit for the sake of computation.

Date: 4/3/2005
Weather: Overcast
Sea Condition: Moderate
Tide: Mid-Flood

Water Quality Monitoring Result

Location	Time	Depth (m)		Temp. (°C)	Salinity (ppt)	pH	D.O. Sat. (%)	D.O. (mg/L)		Turbidity (NTU)		S.S. (mg/L)	
								Value	DA	Value	DA	Average	DA
SR6	11:50	Surface	1	15.4 15.4	39.3 39.3	8.19 8.19	93.4 93.3	7.34 7.33	7.00	5.8 5.2	7.1	10.5	9.4
		Middle	11	15.5 15.5	39.5 39.5	8.20 8.20	85.4 84.8	6.69 6.62		7.1 7.2		9.2	
		Bottom	21	15.5 15.5	39.5 39.5	8.20 8.20	84.7 84.8	6.64 6.66	6.65	8.1 8.9		8.6	
	Other Observations:			Nil									
SR7	11:40	Surface	1	15.6 15.6	39.4 39.4	8.26 8.26	89.9 90.1	7.05 7.08	6.92	6.7 6.8	7.0	8.8	9.4
		Middle	4.5	15.6 15.6	39.6 39.6	8.25 8.25	86.3 86.4	6.76 6.77		6.9 6.7		8.3	
		Bottom	8	15.6 15.6	39.6 39.6	8.24 8.24	83.3 83.0	6.51 6.46	6.49	7.3 7.7		11.1	
	Other Observations:			Nil									
SR10	11:25	Surface	1	15.5 15.5	39.5 39.5	8.12 8.12	84.9 84.9	6.67 6.68	6.58	4.6 4.4	5.4	9.8	9.8
		Middle	4.5	15.5 15.5	39.6 39.6	8.14 8.14	82.8 82.6	6.49 6.46		5.2 5.6		8.8	
		Bottom	7.5	15.5 15.5	39.7 39.7	8.14 8.14	81.5 81.4	6.39 6.38	6.39	6.0 6.8		10.9	
	Other Observations:			Nil									
SR11	11:10	Surface	1	15.5 15.5	39.5 39.5	8.17 8.17	89.4 98.9	6.98 7.06	6.73	3.1 3.4	4.0	5.3	5.1
		Middle	4.5	15.5 15.5	39.6 39.6	8.17 8.17	82.1 82.1	6.43 6.44		3.9 3.9		5.2	
		Bottom	7.5	15.5 15.5	39.6 39.6	8.18 8.18	81.6 81.2	6.39 6.36	6.38	4.9 4.7		4.9	
	Other Observations:			Nil									
SR12	11:00	Surface	1	15.4 15.4	39.5 39.5	8.18 8.18	90.9 91.2	7.13 7.18	6.85	3.6 3.4	3.9	4.2	4.5
		Middle	4.5	15.4 15.4	39.6 39.6	8.18 8.18	84.6 81.7	6.68 6.40		3.9 3.3		3.7	
		Bottom	8	15.4 15.4	39.6 39.6	8.19 8.19	76.5 77.4	6.01 6.08	6.05	4.4 4.6		5.5	
	Other Observations:			Nil									
SR14	10:50	Surface	1	15.3 15.3	39.4 39.4	8.16 8.16	100.4 100.3	7.91 7.90	7.23	4.0 4.0	4.4	6.1	5.8
		Middle	5	15.3 15.3	39.5 39.5	8.17 8.17	83.1 83.7	6.52 6.58		4.4 4.4		5.3	
		Bottom	9	15.3 15.3	39.6 39.6	8.17 8.17	82.1 82.0	6.46 6.44	6.45	4.7 4.8		6.1	
	Other Observations:			Nil									
SR15	10:35	Surface	1	15.1 15.1	39.3 39.3	8.18 8.18	101.4 101.2	8.02 8.01	7.44	3.7 4.1	5.6	9.8	10.0
		Middle	11	15.1 15.1	39.4 39.4	8.19 8.19	87.3 87.0	6.89 6.84		5.2 5.0		10.5	
		Bottom	20.5	15.2 15.2	39.5 39.5	8.19 8.19	85.2 85.2	6.72 6.71	6.72	7.7 7.7		9.8	
	Other Observations:			Nil									
CS1	09:40	Surface	1	15.4 15.4	39.4 39.5	8.18 8.18	89.2 89.9	7.03 7.07	6.87	7.3 7.2	7.1	11.0	9.9
		Middle	5	15.4 15.4	39.5 39.5	8.18 8.18	85.3 85.4	6.69 6.68		6.7 6.6		8.8	
		Bottom	8.5	15.4 15.4	39.5 39.5	8.17 8.17	84.2 84.3	6.61 6.62	6.62	7.1 7.6		9.9	
	Other Observations:			Nil									
CS2	10:00	Surface	1	15.6 15.6	39.3 39.3	8.15 8.15	99.1 99.2	7.79 7.80	7.31	6.6 6.7	7.3	8.8	8.9
		Middle	5.5	15.6 15.6	39.4 39.4	8.18 8.18	87.5 87.4	6.84 6.80		7.6 7.0		8.7	
		Bottom	9.5	15.6 15.6	39.6 39.6	8.18 8.18	84.3 84.0	6.59 6.51	6.55	8.1 8.0		9.2	
	Other Observations:			Nil									
CS3	10:25	Surface	1	15.1 15.1	39.2 39.2	8.18 8.18	95.4 95.2	7.59 7.55	7.19	4.6 4.8	4.8	9.1	9.1
		Middle	11.5	15.1 15.1	39.4 39.4	8.19 8.19	86.0 86.1	6.80 6.81		3.9 4.4		9.0	
		Bottom	21.5	15.0 15.0	39.4 39.4	8.19 8.19	84.6 84.3	6.69 6.68	6.69	5.9 4.9		9.2	
	Other Observations:			Nil									

* Contains sample results < detection limit but assumed to be at the detection limit for the sake of computation.

Date: 4/3/2005
Weather: Overcast
Sea Condition: Moderate
Tide: Mid-Ebb

Water Quality Monitoring Result

Location	Time	Depth (m)		Temp. (°C)	Salinity (ppt)	pH	D.O. Sat. (%)	D.O. (mg/L)		Turbidity (NTU)		S.S. (mg/L)	
								Value	DA	Value	DA	Average	DA
SR6	18:00	Surface	1	15.5 15.5	39.4 39.4	8.20 8.20	87.4 87.6	6.96 6.98	6.80	7.0 7.7	8.3	9.4	9.5
		Middle	11	15.5 15.5	39.5 39.5	8.20 8.20	84.2 84.4	6.61 6.64		6.8 6.9		10.3	
		Bottom	20.5	15.5 15.5	39.5 39.5	8.19 8.19	83.4 83.2	6.54 6.56	6.55	10.3 11.1		8.7	
	Other Observations:			Nil									
SR7	17:50	Surface	1	15.6 15.6	39.5 39.5	8.23 8.23	86.7 86.8	6.76 6.78	6.71	6.6 6.2	6.6	9.8	10.1
		Middle	4.5	15.6 15.6	39.6 39.6	8.23 8.23	85.5 85.2	6.69 6.62		6.4 6.0		9.8	
		Bottom	8	15.5 15.5	39.6 39.6	8.22 8.22	84.8 84.9	6.63 6.61	6.62	7.4 7.0		10.6	
	Other Observations:			Nil									
SR10	17:30	Surface	1	15.5 15.5	39.6 39.6	8.11 8.11	84.2 84.0	6.60 6.58	6.52	5.6 5.8	6.4	8.4	9.0
		Middle	4.5	15.5 15.5	39.7 39.7	8.12 8.12	82.1 82.0	6.45 6.44		6.0 6.2		8.8	
		Bottom	7.5	15.5 15.5	39.7 39.7	8.13 8.13	81.4 81.1	6.37 6.32	6.35	7.0 7.7		9.9	
	Other Observations:			Nil									
SR11	17:20	Surface	1	15.5 15.5	39.6 39.6	8.18 8.18	86.8 86.8	6.80 6.79	6.67	4.0 4.1	4.7	5.9	5.5
		Middle	4	15.5 15.5	39.6 39.6	8.18 8.18	83.7 83.6	6.55 6.54		4.2 4.7		5.6	
		Bottom	7	15.5 15.5	39.7 39.7	8.18 8.18	82.6 82.9	6.47 6.49	6.48	5.7 5.6		5.0	
	Other Observations:			Nil									
SR12	17:10	Surface	1	15.3 15.3	39.3 39.3	8.18 8.18	90.0 90.5	7.08 7.11	6.82	3.7 3.8	4.2	4.1	4.0
		Middle	4.5	15.4 15.4	39.5 39.5	8.18 8.18	84.0 82.6	6.59 6.49		3.9 3.8		4.3	
		Bottom	7.5	15.4 15.4	39.5 39.5	8.19 8.19	82.9 82.6	6.51 6.48	6.50	4.7 5.1		3.6	
	Other Observations:			Nil									
SR14	17:00	Surface	1	15.3 15.3	39.5 39.5	8.16 8.16	95.3 95.5	7.50 7.53	6.95	3.3 3.7	3.9	5.8	5.5
		Middle	5	15.2 15.2	39.5 39.5	8.16 8.16	80.9 81.1	6.36 6.39		4.0 4.1		4.9	
		Bottom	8.5	15.3 15.3	39.6 39.6	8.16 8.16	82.1 82.8	6.57 6.51	6.54	4.3 4.1		6.0	
	Other Observations:			Nil									
SR15	16:50	Surface	1	15.1 15.1	39.4 39.4	8.20 8.20	97.5 97.4	7.72 7.70	7.26	5.2 4.9	5.3	8.4	9.2
		Middle	10.5	15.1 15.1	39.5 39.5	8.20 8.19	86.0 86.0	6.82 6.81		4.9 4.7		10.6	
		Bottom	20	15.2 15.2	39.5 39.5	8.20 8.20	83.3 82.1	6.57 6.49	6.53	5.9 6.3		8.6	
	Other Observations:			Nil									
CS1	16:00	Surface	1	15.4 15.4	39.2 39.2	8.19 8.19	98.9 98.6	7.80 7.78	7.17	7.7 7.3	8.2	9.6	9.6
		Middle	4.5	15.4 15.4	39.4 39.4	8.16 8.16	84.0 83.6	6.59 6.52		8.2 8.0		8.8	
		Bottom	8	15.4 15.4	39.5 39.5	8.16 8.16	83.6 83.5	6.56 6.55	6.56	9.1 8.9		10.5	
	Other Observations:			Nil									
CS2	16:15	Surface	1	15.6 15.6	39.5 39.5	8.18 8.18	90.7 90.5	7.10 7.07	6.89	6.8 6.3	7.2	9.8	8.6
		Middle	5.5	15.6 15.6	39.6 39.6	8.19 8.19	85.7 85.5	6.70 6.68		7.3 7.7		8.4	
		Bottom	9.5	15.6 15.6	39.6 39.6	8.19 8.19	84.4 84.4	6.59 6.60	6.60	7.0 7.9		7.8	
	Other Observations:			Nil									
CS3	16:35	Surface	1	15.1 15.1	39.3 39.3	8.18 8.18	94.7 94.6	7.52 7.50	7.18	7.7 7.2	7.2	9.9	9.0
		Middle	11	15.0 15.0	39.4 39.4	8.19 8.19	86.7 86.6	6.85 6.83		7.4 7.0		8.9	
		Bottom	21	15.0 15.0	39.5 39.5	8.19 8.19	84.2 84.4	6.66 6.68	6.67	6.9 6.8		8.4	
	Other Observations:			Nil									

* Contains sample results < detection limit but assumed to be at the detection limit for the sake of computation.

Date: 8/3/2005
Weather: Sunny
Sea Condition: Calm
Tide: Mid-Flood

Water Quality Monitoring Result

Location	Time	Depth (m)		Temp. (°C)	Salinity (ppt)	pH	D.O. Sat. (%)	D.O. (mg/L)		Turbidity (NTU)		S.S. (mg/L)	
								Value	DA	Value	DA	Average	DA
SR6	17:45	Surface	1	16.1 16.1	39.4 39.3	8.45 8.46	95.8 90.6	7.50 7.03	7.17	6.1 7.0	4.3	8.3	8.8
		Middle	11	15.7 15.7	39.5 39.5	8.49 8.49	90.3 91.3	7.02 7.12		2.8 2.9		8.6	
		Bottom	21	15.6 15.6	39.5 39.5	8.49 8.48	91.0 92.2	7.11 7.20	7.16	3.5 3.6		9.7	
	Other Observations:			Nil									
SR7	17:28	Surface	1	17.3 17.3	39.3 39.4	8.47 8.48	129.6 108.8	9.86 9.08	8.76	7.2 7.3	4.4	8.7	8.4
		Middle	4.5	16.5 16.5	39.4 39.4	8.49 8.50	104.2 106.3	7.95 8.16		2.0 2.1		8.8	
		Bottom	8	16.1 16.1	39.4 39.4	8.49 8.50	102.0 102.6	7.88 7.95	7.92	3.8 3.9		7.7	
	Other Observations:			Nil									
SR10	17:13	Surface	1	16.4 16.4	39.4 39.4	8.57 8.56	107.2 102.8	8.26 8.23	8.26	6.9 7.0	6.3	8.9	8.6
		Middle	4.5	16.4 16.4	39.5 39.5	8.56 8.57	107.4 107.3	8.27 8.26		4.3 4.2		8.4	
		Bottom	7.5	15.6 15.6	39.5 39.5	8.57 8.56	105.5 105.3	8.25 8.24	8.25	7.9 7.7		8.4	
	Other Observations:			Nil									
SR11	16:57	Surface	1	16.0 16.0	39.4 39.4	8.57 8.58	107.7 109.7	8.35 8.52	8.42	7.5 7.6	4.9	8.8	9.5
		Middle	4	15.8 15.8	39.5 39.5	8.58 8.57	108.1 107.9	8.41 8.40		2.4 2.3		9.0	
		Bottom	7	15.3 15.3	39.5 39.5	8.58 8.58	107.0 107.1	8.35 8.38	8.37	4.8 4.9		10.9	
	Other Observations:			Nil									
SR12	16:44	Surface	1	15.5 15.5	39.3 39.3	8.59 8.58	92.4 98.2	7.24 7.70	7.65	7.4 7.5	4.1	9.2	9.2
		Middle	4.5	15.3 15.3	39.5 39.4	8.59 8.58	97.5 101.9	7.65 8.01		2.1 2.2		9.3	
		Bottom	7.5	15.3 15.3	39.5 39.5	8.59 8.58	104.4 104.9	8.22 8.26	8.24	2.8 2.7		9.0	
	Other Observations:			Nil									
SR14	16:30	Surface	1	15.4 15.4	39.4 39.4	8.57 8.56	97.5 97.0	7.66 7.63	7.78	4.2 4.1	3.4	8.6	9.4
		Middle	4.5	15.3 15.3	39.5 39.5	8.56 8.55	100.6 100.9	7.91 7.93		2.1 2.0		9.6	
		Bottom	8	15.3 15.3	39.5 39.5	8.55 8.56	101.4 101.2	7.98 7.95	7.97	3.9 4.0		10.0	
	Other Observations:			Nil									
SR15	16:15	Surface	1	15.8 15.8	39.4 39.4	8.57 8.56	117.6 111.8	9.17 8.72	8.49	4.1 4.0	3.7	9.8	9.2
		Middle	10.5	15.6 15.6	39.5 39.5	8.55 8.54	102.3 103.3	8.00 8.08		2.5 2.4		9.1	
		Bottom	20	15.5 15.5	39.5 39.5	8.54 8.53	101.9 101.6	7.98 7.96	7.97	4.4 4.5		8.7	
	Other Observations:			Nil									
CS1	15:30	Surface	1	16.0 16.0	39.1 39.1	8.47 8.46	120.6 110.2	9.37 8.57	8.23	6.9 7.0	5.1	8.3	9.0
		Middle	5	15.9 16.0	39.3 39.3	8.46 8.47	95.8 96.1	7.48 7.49		4.9 4.8		9.1	
		Bottom	8.5	15.7 15.7	39.3 39.3	8.45 8.46	94.8 94.3	7.40 7.37	7.39	3.4 3.3		9.8	
	Other Observations:			Nil									
CS2	15:45	Surface	1	16.9 16.9	39.4 39.4	8.55 8.56	127.1 120.3	9.69 9.18	8.90	4.1 4.0	5.1	8.9	10.2
		Middle	5.5	16.6 16.6	39.5 39.5	8.56 8.55	108.4 109.6	8.30 8.41		7.6 7.5		10.3	
		Bottom	10	15.9 15.8	39.5 39.5	8.56 8.55	107.4 107.0	8.35 8.33	8.34	3.6 3.5		11.3	
	Other Observations:			Nil									
CS3	15:55	Surface	1	15.9 16.0	39.4 39.3	8.56 8.55	122.4 111.0	9.52 8.64	8.64	7.2 7.1	5.8	9.4	9.6
		Middle	11	15.7 15.7	39.5 39.5	8.56 8.56	104.8 104.9	8.18 8.20		7.5 7.6		9.4	
		Bottom	21	15.5 15.5	39.5 39.5	8.54 8.54	103.9 104.4	8.13 8.19	8.16	2.8 2.7		10.0	
	Other Observations:			Nil									

* Contains sample results < detection limit but assumed to be at the detection limit for the sake of computation.

Date: 8/3/2005
Weather: Sunny
Sea Condition: Calm
Tide: Mid-Ebb

Water Quality Monitoring Result

Location	Time	Depth (m)		Temp. (°C)	Salinity (ppt)	pH	D.O. Sat. (%)	D.O. (mg/L)		Turbidity (NTU)		S.S. (mg/L)	
								Value	DA	Value	DA	Average	DA
SR6	12:50	Surface	1	15.8 15.8	39.2 39.3	8.52 8.51	110.8 110.7	8.55 8.55	8.58	7.1 7.2	6.2	10.2	9.3
		Middle	10.5	15.7 15.7	39.4 39.4	8.53 8.52	110.6 109.7	8.64 8.58		7.8 7.9		10.2	
		Bottom	20	15.5 15.5	39.4 39.4	8.51 8.50	103.7 103.2	8.12 8.08	8.10	3.6 3.7		7.4	
	Other Observations:			Nil									
SR7	12:35	Surface	1	15.8 15.8	39.3 39.3	8.37 8.38	120.5 114.4	9.16 8.57	9.34	6.9 7.0	6.4	7.6	8.6
		Middle	4.5	15.7 15.7	39.4 39.4	8.41 8.42	126.7 124.6	9.90 9.74		4.5 4.3		8.9	
		Bottom	8	15.6 15.6	39.5 39.5	8.44 8.43	114.9 114.0	8.98 8.92	8.95	7.8 7.9		9.4	
	Other Observations:			Nil									
SR10	12:17	Surface	1	16.0 16.0	39.3 39.3	8.56 8.55	115.5 110.7	8.95 8.59	8.35	4.4 4.2	3.8	9.3	9.7
		Middle	4	15.7 15.7	39.5 39.5	8.57 8.56	101.9 101.5	7.94 7.92		2.2 2.1		8.8	
		Bottom	7	15.5 15.5	39.5 39.5	8.56 8.57	100.2 100.4	7.84 7.86	7.85	5.1 5.0		11.1	
	Other Observations:			Nil									
SR11	12:05	Surface	1	16.0 16.0	39.4 39.5	8.56 8.57	111.5 107.3	8.69 8.36	8.30	6.9 7.0	4.4	10.2	9.5
		Middle	4	15.6 15.6	39.5 39.5	8.57 8.56	103.2 103.3	8.06 8.07		2.2 2.3		9.0	
		Bottom	7	15.6 15.6	39.5 39.5	8.59 8.58	101.0 101.5	7.90 7.94	7.92	4.0 3.9		9.3	
	Other Observations:			Nil									
SR12	11:50	Surface	1	15.8 15.8	39.4 39.4	8.58 8.59	122.5 115.6	9.55 9.01	8.66	4.2 4.3	4.7	8.3	8.4
		Middle	4	15.7 15.7	39.5 39.5	8.58 8.57	103.2 102.7	8.05 8.02		4.9 4.8		9.0	
		Bottom	7	15.5 15.5	39.6 39.6	8.58 8.59	100.6 100.8	7.88 7.90	7.89	5.0 4.9		8.1	
	Other Observations:			Nil									
SR14	11:35	Surface	1	15.9 15.9	39.3 39.3	8.58 8.57	106.2 105.3	8.27 8.20	8.08	4.1 4.0	5.6	10.0	9.0
		Middle	4.5	15.6 15.6	39.5 39.5	8.57 8.58	101.0 101.9	7.87 7.97		7.8 7.7		8.6	
		Bottom	8	15.3 15.3	39.5 39.5	8.57 8.56	99.3 101.1	7.79 7.88	7.84	4.8 4.9		8.5	
	Other Observations:			Nil									
SR15	11:17	Surface	1	15.5 15.5	39.3 39.3	8.56 8.57	110.8 107.5	8.68 8.42	8.22	6.9 7.1	6.1	9.7	9.8
		Middle	10	15.2 15.2	39.5 39.5	8.56 8.55	100.1 99.8	7.89 7.87		4.7 4.8		10.4	
		Bottom	19	15.2 15.2	39.5 39.5	8.56 8.55	97.4 97.7	7.68 7.70	7.69	6.6 6.7		9.3	
	Other Observations:			Nil									
CS1	10:30	Surface	1	15.8 15.8	39.2 39.2	8.50 8.51	119.6 115.6	9.34 9.03	8.62	7.1 7.0	6.5	8.9	9.1
		Middle	4.5	15.7 15.7	39.3 39.4	8.51 8.52	103.1 103.0	8.06 8.05		4.5 4.6		9.1	
		Bottom	8	15.6 15.6	39.4 39.4	8.51 8.51	99.0 99.3	7.75 7.77	7.76	7.8 7.7		9.3	
	Other Observations:			Nil									
CS2	10:45	Surface	1	15.7 15.7	39.4 39.4	8.57 8.58	142.9 131.7	11.18 10.30	9.65	7.0 6.9	7.2	10.3	9.6
		Middle	5	15.5 15.4	39.5 39.5	8.57 8.56	109.9 108.6	8.60 8.52		7.1 7.2		9.4	
		Bottom	9	15.4 15.4	39.5 39.5	8.56 8.57	104.9 104.7	8.24 8.22	8.23	7.6 7.5		9.2	
	Other Observations:			Nil									
CS3	11:02	Surface	1	15.5 15.5	39.3 39.3	8.56 8.57	102.2 104.4	7.74 8.03	8.14	6.9 7.0	6.9	9.6	9.3
		Middle	10.5	15.3 15.3	39.5 39.5	8.57 8.57	107.0 106.1	8.42 8.36		7.8 7.9		9.4	
		Bottom	20	15.2 15.2	39.5 39.5	8.56 8.55	102.8 101.9	8.10 8.03	8.07	5.8 6.0		8.9	
	Other Observations:			Nil									

* Contains sample results < detection limit but assumed to be at the detection limit for the sake of computation.

Date: 10/3/2005
Weather: Overcast
Sea Condition: Moderate
Tide: Mid-Flood

Water Quality Monitoring Result

Location	Time	Depth (m)		Temp. (°C)	Salinity (ppt)	pH	D.O. Sat. (%)	D.O. (mg/L)		Turbidity (NTU)		S.S. (mg/L)	
								Value	DA	Value	DA	Average	DA
SR6	17:55	Surface	1	16.3 16.3	39.3 39.3	8.21 8.21	114.9 115.1	8.87 8.88	8.65	7.6 7.7	10.0	7.5	8.9
		Middle	11.5	16.2 16.2	39.5 39.5	8.20 8.20	108.6 109.0	8.40 8.43		10.4 11.1		9.0	
		Bottom	21.5	16.1 16.1	39.5 39.5	8.20 8.20	107.0 106.8	8.29 8.26	8.28	11.3 11.7		10.4	
	Other Observations:			Nil									
SR7	17:45	Surface	1	16.7 16.7	39.3 39.3	8.23 8.23	123.2 122.8	9.45 9.43	9.21	8.6 8.3	8.0	9.1	8.6
		Middle	5	16.6 16.6	39.4 39.4	8.25 8.25	116.7 117.4	8.95 9.00		7.2 7.7		9.0	
		Bottom	8.5	16.1 16.1	39.5 39.5	8.25 8.25	112.5 112.4	8.72 8.71	8.72	8.1 7.9		7.8	
	Other Observations:			Nil									
SR10	17:35	Surface	1	16.0 16.0	39.4 39.4	8.20 8.20	113.5 113.8	8.81 8.84	8.63	5.0 4.8	5.2	8.1	8.1
		Middle	4.5	15.8 15.8	39.5 39.5	8.20 8.20	109.0 108.2	8.48 8.40		4.9 5.0		7.6	
		Bottom	7.5	15.8 15.8	39.5 39.5	8.19 8.19	106.3 106.4	8.30 8.31	8.31	5.6 5.9		8.7	
	Other Observations:			Nil									
SR11	17:20	Surface	1	16.4 16.4	39.4 39.4	8.21 8.21	118.7 118.4	9.14 9.10	9.02	5.3 5.4	5.6	9.5	9.0
		Middle	4	16.1 16.1	39.5 39.5	8.20 8.20	115.0 115.0	8.92 8.91		5.6 5.2		9.5	
		Bottom	7	15.9 15.9	39.5 39.5	8.20 8.20	112.8 112.4	8.77 8.72	8.75	6.0 6.1		8.1	
	Other Observations:			Nil									
SR12	17:10	Surface	1	16.1 16.1	39.5 39.5	8.20 8.20	115.3 115.3	8.93 8.92	8.76	5.8 5.2	6.4	8.2	8.5
		Middle	4.5	16.0 16.0	39.5 39.5	8.19 8.19	110.7 110.8	8.59 8.61		6.8 6.4		9.6	
		Bottom	7.5	15.8 15.8	39.5 39.5	8.19 8.19	107.3 107.2	8.36 8.33	8.35	7.0 7.1		7.9	
	Other Observations:			Nil									
SR14	16:55	Surface	1	16.2 16.2	39.9 39.9	8.20 8.20	115.2 114.8	8.95 8.91	8.80	7.2 7.1	6.6	8.6	8.2
		Middle	5	15.8 15.8	39.5 39.5	8.19 8.19	111.3 111.1	8.68 8.66		6.3 6.1		7.1	
		Bottom	8.5	15.9 15.9	39.5 39.5	8.18 8.19	107.7 107.0	8.38 8.33	8.36	6.4 6.7		8.9	
	Other Observations:			Nil									
SR15	16:45	Surface	1	16.1 16.1	39.5 39.5	8.18 8.18	112.0 111.4	8.67 8.63	8.49	7.6 7.4	8.3	8.2	8.7
		Middle	11	15.7 15.7	39.5 39.5	8.18 8.18	106.4 106.6	8.31 8.33		8.1 8.4		8.6	
		Bottom	21	15.6 15.6	39.5 39.5	8.16 8.16	103.4 103.2	8.09 8.08	8.09	9.1 9.1		9.3	
	Other Observations:			Nil									
CS1	16:00	Surface	1	16.1 16.1	39.1 39.1	8.13 8.13	102.9 103.1	8.00 8.02	7.84	7.9 7.7	9.2	9.7	10.3
		Middle	5	16.1 16.1	39.3 39.3	8.13 8.13	98.8 98.8	7.66 7.67		8.7 8.3		10.0	
		Bottom	8.5	16.1 16.1	39.3 39.3	8.13 8.13	97.1 97.1	7.53 7.52	7.53	11.1 11.2		11.4	
	Other Observations:			Nil									
CS2	16:15	Surface	1	16.7 16.7	39.3 39.3	8.15 8.15	112.0 112.2	8.61 8.64	8.43	8.7 8.9	9.5	11.5	10.3
		Middle	5.5	16.5 16.5	39.4 39.4	8.15 8.15	107.3 106.8	8.25 8.20		9.4 9.4		10.2	
		Bottom	9.5	16.2 16.2	39.5 39.5	8.15 8.15	105.2 105.2	8.14 8.13	8.14	10.1 10.7		9.2	
	Other Observations:			Nil									
CS3	16:35	Surface	1	15.8 15.8	39.5 39.5	8.18 8.18	113.1 112.4	8.81 8.77	8.65	6.8 6.4	7.4	7.2	7.8
		Middle	11.5	15.6 15.6	39.5 39.5	8.18 8.18	109.0 108.8	8.52 8.50		7.7 7.0		8.2	
		Bottom	21.5	15.6 15.6	39.5 39.6	8.17 8.17	105.0 104.9	8.22 8.20	8.21	8.2 8.0		7.9	
	Other Observations:			Nil									

* Contains sample results < detection limit but assumed to be at the detection limit for the sake of computation.

Date: 10/3/2005
Weather: Overcast
Sea Condition: Moderate
Tide: Mid-Ebb

Water Quality Monitoring Result

Location	Time	Depth (m)		Temp. (°C)	Salinity (ppt)	pH	D.O. Sat. (%)	D.O. (mg/L)		Turbidity (NTU)		S.S. (mg/L)	
								Value	DA	Value	DA	Average	DA
SR6	13:25	Surface	1	16.3 16.3	39.2 39.2	8.21 8.21	132.0 132.1	10.20 10.30	9.32	8.3 8.7	9.7	10.5	9.1
		Middle	11	16.3 16.3	39.5 39.5	8.19 8.19	108.5 108.7	8.38 8.41		9.3 9.0		8.8	
		Bottom	21	16.1 16.1	39.5 39.5	8.18 8.18	106.9 106.2	8.28 8.20	8.24	11.0 11.7		8.0	
	Other Observations:			Nil									
SR7	13:15	Surface	1	16.7 16.7	39.2 39.2	8.24 8.24	135.2 135.8	10.40 10.70	9.80	7.6 7.6	8.1	10.3	9.2
		Middle	4.5	16.6 16.6	39.4 39.4	8.24 8.24	118.0 118.1	9.05 9.06		8.0 8.8		8.7	
		Bottom	8	16.2 16.2	39.5 39.5	8.25 8.25	114.5 114.0	8.84 8.80	8.82	8.4 8.1		8.7	
	Other Observations:			Nil									
SR10	13:05	Surface	1	15.9 15.9	39.3 39.3	8.19 8.19	114.7 114.5	8.90 8.86	8.70	5.2 5.2	5.2	9.8	9.3
		Middle	4	16.0 16.0	39.5 39.5	8.18 8.18	109.9 109.8	8.53 8.52		5.0 4.8		9.2	
		Bottom	7	15.8 15.8	39.5 39.5	8.18 8.18	106.9 106.8	8.33 8.32	8.33	6.0 5.2		8.8	
	Other Observations:			Nil									
SR11	12:50	Surface	1	16.4 16.4	39.4 39.4	8.20 8.20	123.5 123.1	9.51 9.47	9.23	5.7 5.4	6.2	6.1	6.6
		Middle	4	16.4 16.5	39.5 39.5	8.20 8.20	116.4 116.2	8.97 8.96		6.1 6.0		6.4	
		Bottom	6.5	15.9 15.9	39.5 39.5	8.19 8.19	113.7 113.1	8.84 8.80	8.82	7.0 7.1		7.3	
	Other Observations:			Nil									
SR12	12:40	Surface	1	16.1 16.1	39.4 39.4	8.20 8.20	116.6 116.8	9.03 9.05	8.89	7.1 7.7	6.8	6.3	6.5
		Middle	4	16.0 16.0	39.5 39.5	8.20 8.20	112.7 112.6	8.75 8.74		6.8 6.7		6.3	
		Bottom	7	15.8 15.8	39.5 39.5	8.19 8.19	109.3 109.0	8.51 8.48	8.50	6.6 6.1		7.0	
	Other Observations:			Nil									
SR14	12:30	Surface	1	16.0 16.0	39.2 39.3	8.19 8.19	114.7 114.2	8.90 8.86	8.80	9.4 9.3	8.2	7.9	7.6
		Middle	4.5	15.9 15.9	39.4 39.4	8.18 8.18	112.2 111.6	8.75 8.70		8.2 8.1		8.4	
		Bottom	8	15.8 15.8	39.5 39.5	8.18 8.18	109.0 108.6	8.50 8.48	8.49	7.0 7.3		6.6	
	Other Observations:			Nil									
SR15	12:20	Surface	1	16.2 16.2	39.4 39.4	8.18 8.18	116.3 116.0	8.98 8.96	8.72	8.6 8.4	8.7	6.4	7.3
		Middle	11	15.7 15.7	39.5 39.5	8.18 8.18	109.0 108.6	8.48 8.44		8.2 8.1		8.3	
		Bottom	20.5	15.6 15.6	39.5 39.5	8.16 8.16	104.1 103.7	8.13 8.11	8.12	9.6 9.1		7.1	
	Other Observations:			Nil									
CS1	11:30	Surface	1	16.3 16.3	39.1 39.1	8.14 8.14	109.0 109.2	8.50 8.51	8.13	10.1 10.9	10.7	8.9	9.6
		Middle	4.5	16.1 16.1	39.3 39.3	8.13 8.13	100.1 99.8	7.77 7.74		10.4 10.2		8.7	
		Bottom	8	16.1 16.1	39.3 39.3	8.13 8.13	97.9 97.9	7.58 7.58	7.58	11.3 11.5		11.4	
	Other Observations:			Nil									
CS2	11:45	Surface	1	16.6 16.4	39.1 39.1	8.15 8.15	114.2 114.1	8.79 8.78	8.55	7.9 7.3	8.7	7.9	8.1
		Middle	5	16.5 16.5	39.3 39.3	8.15 8.15	108.5 108.2	8.33 8.28		8.1 8.3		7.6	
		Bottom	8.5	16.3 16.3	39.5 39.5	8.14 8.14	105.7 105.9	8.15 8.18	8.17	10.1 10.7		8.7	
	Other Observations:			Nil									
CS3	12:05	Surface	1	15.9 15.9	39.5 39.5	8.19 8.19	116.0 115.8	9.01 9.00	8.81	7.7 7.2	8.1	7.9	8.1
		Middle	11	15.6 15.6	39.5 39.5	8.18 8.18	110.0 110.3	8.60 8.64		8.2 8.1		8.0	
		Bottom	21	15.6 15.6	39.5 39.5	8.17 8.17	107.0 106.4	8.39 8.33	8.36	8.9 8.7		8.4	
	Other Observations:			Nil									

* Contains sample results < detection limit but assumed to be at the detection limit for the sake of computation.

Date: 12/3/2005
Weather: Rainy
Sea Condition: Rough
Tide: Mid-Flood

Water Quality Monitoring Result

Location	Time	Depth (m)		Temp. (°C)	Salinity (ppt)	pH	D.O. Sat. (%)	D.O. (mg/L)		Turbidity (NTU)		S.S. (mg/L)	
								Value	DA	Value	DA	Average	DA
SR6	10:41	Surface	1	16.3 16.3	38.8 38.8	8.43 8.43	84.7 84.8	6.56 6.57	6.55	5.3 5.5	4.8	8.4	9.4
		Middle	11	16.3 16.3	39.1 39.1	8.45 8.45	84.3 84.4	6.53 6.54		4.9 5.1		9.2	
		Bottom	21	16.2 16.2	39.1 39.1	8.46 8.46	84.6 84.1	6.55 6.51	6.53	3.8 3.9		10.6	
	Other Observations:			Nil									
SR7	10:30	Surface	1	16.3 16.3	38.8 38.8	8.43 8.43	86.1 85.8	6.67 6.64	6.60	5.7 6.0	5.6	8.9	9.8
		Middle	5	16.3 16.3	38.8 38.7	8.43 8.44	84.2 84.6	6.52 6.55		5.6 5.7		9.6	
		Bottom	8.5	16.2 16.3	38.9 38.9	8.44 8.44	83.6 82.5	6.47 6.39	6.43	5.3 5.2		11.0	
	Other Observations:			Nil									
SR10	10:16	Surface	1	16.3 16.3	38.4 38.5	8.43 8.43	81.5 81.1	6.31 6.28	6.27	5.5 5.3	5.1	9.1	8.8
		Middle	4.5	16.3 16.3	38.5 38.5	8.43 8.44	80.6 80.9	6.24 6.26		5.1 4.9		8.7	
		Bottom	7.5	16.2 16.2	38.6 38.6	8.45 8.45	79.7 79.8	6.17 6.18	6.18	4.9 4.8		8.6	
	Other Observations:			Nil									
SR11	10:04	Surface	1	16.2 16.3	38.2 38.1	8.43 8.44	80.9 80.9	6.27 6.26	6.24	6.3 6.5	6.1	9.4	9.0
		Middle	4	16.3 16.3	38.3 38.2	8.45 8.45	80.1 80.3	6.20 6.22		6.0 6.2		8.9	
		Bottom	7	16.2 16.2	38.4 38.4	8.45 8.45	79.3 79.6	6.14 6.16	6.15	5.7 5.7		8.7	
	Other Observations:			Nil									
SR12	09:57	Surface	1	16.3 16.3	38.3 38.2	8.44 8.44	80.3 79.9	6.22 6.19	6.16	5.7 6.0	6.0	8.7	8.6
		Middle	4.5	16.3 16.4	38.3 38.3	8.45 8.45	78.9 79.3	6.11 6.13		6.1 6.2		8.5	
		Bottom	7.5	16.2 16.2	38.4 38.4	8.45 8.45	78.3 78.5	6.06 6.08	6.07	5.9 5.8		8.7	
	Other Observations:			Nil									
SR14	09:46	Surface	1	16.3 16.2	38.2 38.3	8.44 8.44	81.1 81.2	6.28 6.29	6.26	5.5 5.3	5.5	9.8	9.3
		Middle	5	16.2 16.2	38.3 38.3	8.45 8.44	80.7 80.5	6.25 6.23		5.6 5.8		8.5	
		Bottom	8.5	16.2 16.2	38.5 38.4	8.45 8.45	79.8 79.6	6.18 6.16	6.17	5.4 5.6		9.6	
	Other Observations:			Nil									
SR15	09:34	Surface	1	16.3 16.3	38.2 38.2	8.43 8.43	81.4 80.9	6.30 6.26	6.27	4.8 4.6	5.3	8.9	9.0
		Middle	11	16.3 16.3	38.2 38.2	8.45 8.45	80.6 81.0	6.24 6.27		5.2 5.4		9.1	
		Bottom	21	16.2 16.2	38.3 38.4	8.45 8.45	79.9 79.8	6.19 6.18	6.19	5.9 5.7		9.2	
	Other Observations:			Nil									
CS1	08:54	Surface	1	16.4 16.3	38.1 38.2	8.43 8.44	79.2 79.8	6.13 6.17	6.13	4.7 4.6	4.7	9.4	9.4
		Middle	5	16.4 16.4	38.2 38.2	8.44 8.44	79.3 78.6	6.14 6.08		4.5 4.6		10.0	
		Bottom	8.5	16.3 16.3	38.3 38.3	8.45 8.45	78.5 78.7	6.08 6.10	6.09	4.9 5.1		8.9	
	Other Observations:			Nil									
CS2	09:07	Surface	1	16.3 16.3	38.1 38.1	8.43 8.43	80.0 79.3	6.19 6.14	6.11	5.2 5.0	5.1	9.5	9.3
		Middle	5.5	16.4 16.3	38.3 38.2	8.44 8.45	77.7 78.7	6.02 6.09		5.1 5.3		9.0	
		Bottom	9.5	16.2 16.2	38.3 38.3	8.46 8.45	78.0 77.5	6.04 6.00	6.02	4.9 4.9		9.5	
	Other Observations:			Nil									
CS3	09:22	Surface	1	16.3 16.3	38.2 38.2	8.43 8.43	80.7 80.3	6.25 6.22	6.19	3.9 4.0	4.0	10.5	10.0
		Middle	11.5	16.2 16.2	38.3 38.4	8.45 8.44	79.6 79.2	6.16 6.13		4.2 4.2		11.1	
		Bottom	21.5	16.2 16.1	38.5 38.5	8.46 8.46	77.1 76.7	5.97 5.94	5.96	3.7 3.8		8.5	
	Other Observations:			Nil									

* Contains sample results < detection limit but assumed to be at the detection limit for the sake of computation.

Date: 12/3/2005
Weather: Rainy
Sea Condition: Rough
Tide: Mid-Ebb

Water Quality Monitoring Result

Location	Time	Depth (m)		Temp. (°C)	Salinity (ppt)	pH	D.O. Sat. (%)	D.O. (mg/L)		Turbidity (NTU)		S.S. (mg/L)	
								Value	DA	Value	DA	Average	DA
SR6	14:55	Surface	1	16.2 16.1	39.0 39.0	8.43 8.43	81.1 81.4	6.27 6.29	6.20	6.4 6.5	6.2	9.4	8.9
		Middle	11	16.1 16.1	39.1 39.2	8.45 8.45	79.1 79.4	6.11 6.14		6.1 6.3		8.5	
		Bottom	20.5	16.0 15.9	39.2 39.2	8.46 8.46	77.7 77.2	6.01 5.97	5.99	5.7 5.9		8.9	
	Other Observations:			Nil									
SR7	14:40	Surface	1	16.2 16.2	38.9 39.0	8.44 8.43	81.3 81.6	6.28 6.31	6.25	6.3 6.1	6.1	8.6	9.3
		Middle	4.5	16.2 16.2	39.0 39.0	8.44 8.44	79.8 80.5	6.17 6.22		5.9 5.8		9.9	
		Bottom	8	16.1 16.1	39.1 39.1	8.45 8.45	78.8 78.4	6.09 6.06	6.08	6.0 6.2		9.5	
	Other Observations:			Nil									
SR10	14:26	Surface	1	16.2 16.2	38.8 38.7	8.44 8.43	81.9 81.5	6.33 6.30	6.29	6.7 6.5	6.4	9.0	9.1
		Middle	4	16.2 16.2	38.8 38.9	8.44 8.45	80.9 81.3	6.25 6.28		6.4 6.5		9.0	
		Bottom	7	16.1 16.1	38.9 38.9	8.46 8.46	79.4 79.6	6.14 6.15	6.15	6.2 5.9		9.4	
	Other Observations:			Nil									
SR11	14:14	Surface	1	16.1 16.1	39.1 39.1	8.49 8.49	82.0 81.7	6.34 6.32	6.30	5.2 5.0	5.5	8.9	9.2
		Middle	4	16.1 16.0	39.2 39.2	8.50 8.50	80.7 81.4	6.24 6.29		5.4 5.5		9.1	
		Bottom	7	16.1 16.1	39.2 39.2	8.51 8.52	79.8 79.4	6.17 6.14	6.16	5.7 5.9		9.7	
	Other Observations:			Nil									
SR12	14:01	Surface	1	16.1 16.1	39.0 39.1	8.49 8.49	79.9 80.5	6.18 6.22	6.23	4.9 4.8	5.1	8.7	9.0
		Middle	4	16.1 16.1	39.1 39.2	8.50 8.51	80.7 80.9	6.24 6.26		5.1 5.3		9.5	
		Bottom	7	16.0 16.0	39.2 39.2	8.52 8.52	80.9 80.6	6.25 6.23	6.24	5.4 5.2		8.9	
	Other Observations:			Nil									
SR14	13:48	Surface	1	16.2 16.2	39.0 39.0	8.48 8.49	81.4 81.1	6.29 6.27	6.26	5.8 5.7	5.5	8.1	8.7
		Middle	4.5	16.2 16.2	39.1 39.1	8.49 8.49	80.8 80.3	6.25 6.21		5.6 5.4		8.8	
		Bottom	8	16.1 16.1	39.2 39.2	8.50 8.51	79.9 80.2	6.18 6.20	6.19	5.2 5.3		9.2	
	Other Observations:			Nil									
SR15	13:34	Surface	1	16.2 16.2	38.8 38.8	8.48 8.48	80.1 80.3	6.19 6.21	6.20	4.7 4.5	4.7	9.5	9.5
		Middle	11	16.1 16.1	38.9 38.9	8.49 8.49	80.2 79.9	6.20 6.18		4.6 4.4		10.2	
		Bottom	20.5	16.1 16.1	39.0 39.1	8.50 8.51	79.4 78.9	6.14 6.10	6.12	4.9 5.0		8.8	
	Other Observations:			Nil									
CS1	12:50	Surface	1	16.3 16.3	38.6 38.5	8.45 8.45	80.9 81.3	6.26 6.28	6.26	5.6 5.5	5.6	10.0	9.2
		Middle	4.5	16.2 16.3	38.6 38.6	8.45 8.46	81.1 80.7	6.27 6.24		5.4 5.4		9.1	
		Bottom	8	16.2 16.2	38.7 38.7	8.46 8.46	80.5 80.6	6.22 6.23	6.23	5.7 5.8		8.5	
	Other Observations:			Nil									
CS2	13:04	Surface	1	16.4 16.3	38.6 38.6	8.46 8.46	79.7 80.2	6.16 6.20	6.16	5.9 6.1	5.6	9.0	10.0
		Middle	5	16.4 16.4	38.7 38.7	8.47 8.47	79.2 79.6	6.11 6.15		5.7 5.9		10.6	
		Bottom	9	16.4 16.4	38.8 38.8	8.48 8.49	79.0 78.9	6.10 6.09	6.10	5.2 5.0		10.6	
	Other Observations:			Nil									
CS3	13:20	Surface	1	16.3 16.2	38.7 38.8	8.47 8.47	78.7 80.1	6.15 6.20	6.21	5.4 5.3	5.4	9.2	9.1
		Middle	11	16.2 16.1	38.8 38.9	8.48 8.48	80.6 80.7	6.23 6.24		5.6 5.8		8.5	
		Bottom	21	16.1 16.1	39.0 39.1	8.49 8.49	79.3 78.8	6.13 6.09	6.11	5.1 5.1		9.6	
	Other Observations:			Nil									

* Contains sample results < detection limit but assumed to be at the detection limit for the sake of computation.

Appendix E Action and Limit Levels for Water Quality Monitoring

Table E1 Action / Limit Levels for Dissolved Oxygen (mg/L)

(a) Surface and Middle – Dry Season (November – March)

	SR6	SR7	SR11	SR12	SR14	SR15
Action Level (5%-ile)	5.2*	5.2*				
1%-ile	4.3**	4.6**				
Limit Level	4.0***					

Note:

1. * - figure 5.2 mg/L represents 5%-ile of baseline monitoring data and Marine Water Quality (MWQ) in Hong Kong from 1997 to 2001
2. ** - figures 4.3 and 4.6 mg/L represent 1%-ile of baseline monitoring data and MWQ in Hong Kong from 1997 to 2001
3. *** - WQO for DO in non-FCZ
4. All the figures may be subjected to review by EPD as and when necessary.

(b) Surface and Middle – Wet Season (April – October)

	SR6	SR7	SR11	SR12	SR14	SR15
Action Level (5%-ile)	4.2*	4.6*				
1%-ile	3.9**	4.3**				
Limit Level	4.0***					

Note:

1. * - figures 4.2 and 4.6 mg/L represent 5%-ile MWQ in Hong Kong from 1997 to 2001
2. ** - figures 3.9 and 4.3 mg/L represent 1%-ile of MWQ in Hong Kong from 1997 to 2001
3. *** - the WQO for DO in non-FCZ
4. All the figures may be subjected to review by EPD as and when necessary.

(c) Bottom – Dry Season (November – March)

	SR6	SR7	SR11	SR12	SR14	SR15
Action Level (5%-ile)	5.5*	5.4*				
1%-ile	4.1**	4.8**				
Limit Level	2.0***					

Note:

1. * - figures 5.5 and 5.4 mg/L represent 5%-ile of baseline monitoring data and MWQ in Hong Kong from 1997 to 2001
2. ** - figures 4.1 and 4.8 mg/L represent 1%-ile of baseline monitoring data and MWQ in Hong Kong from 1997 to 2001
3. *** - WQO for DO in non-FCZ
4. All the figures may be subjected to review by EPD as and when necessary.

(d) Bottom – Wet Season (April – October)

	SR6	SR7	SR11	SR12	SR14	SR15
Action Level (5%-ile)	2.7*	3.5*				
1%-ile	2.3**	2.0**				
Limit Level	2.0***					

Note:

a. * - figures 2.7 and 3.5 mg/L represent 5%-ile of MWQ in Hong Kong from 1997 to 2001

b. ** - figures 2.3 and 2.0 mg/L represent 1%-ile of MWQ in Hong Kong from 1997 to 2001

c. *** - WQO for DO in non-FCZ

d. All the figures may be subjected to review by EPD as and when necessary.

Table E2 Action / Limit Levels for Turbidity (NTU)

(depth-average)

	SR6	SR7	SR11	SR12	SR14	SR15
Action Level (95%-ile)	16.4	15.3	13.5	14.2	16.1	16.1
Limit Level (99%-ile)	17.4	16.1	16.2	16.2	16.5	16.8

Note:

1. 95% ile of baseline data is adopted for setting the Action Level for various SRs according to the EM&A Manual.
2. 99% ile of baseline data is adopted for setting the Limit Level for various SRs according to the EM&A Manual.
3. All the figures may be subjected to review by EPD as and when necessary.

Table E3 Action / Limit Levels for Suspended Solids (mg/L)

(depth-average)

	SR6	SR7	SR10	SR11	SR12	SR14	SR15
95%-ile	16.8	16.4	16.0	16.1	16.8	17.9	16.7
Action Level	16.8	16.4	--	16.1	16.8	17.9	16.7
99%-ile	16.9	16.8	16.2	16.4	17.0	18.8	17.8
Limit Level	16.9	16.8	100	16.4	17.0	18.8	17.8

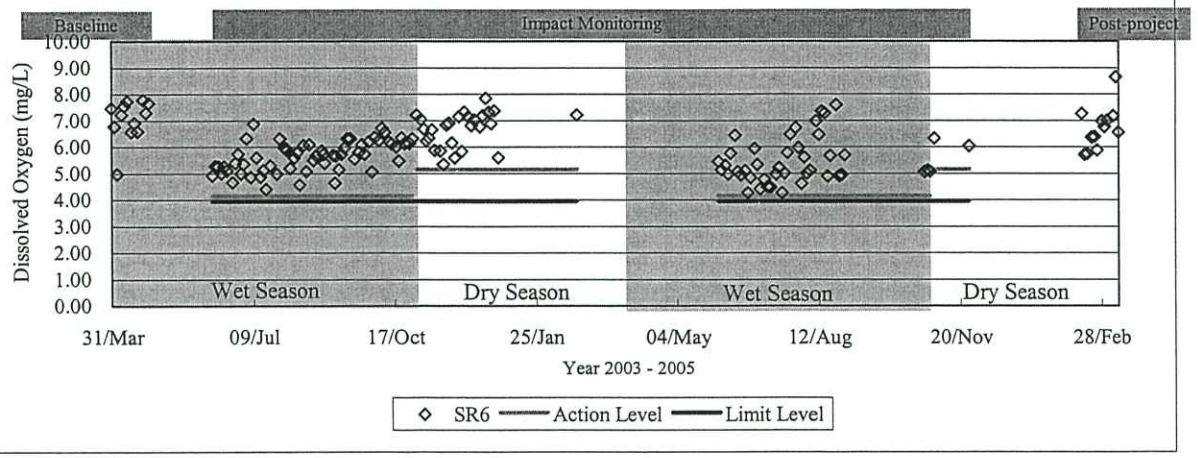
Note:

1. No Action Level is applied to SR10 according to the EM&A Manual
2. Limit Level of SR10 is 100 mg/L according to the EM&A Manual
3. 95% ile of baseline data is adopted for setting the Action Level for various SRs according to the EM&A Manual.
4. 99% ile of baseline data is adopted for setting the Limit Level for various SRs according to the EM&A Manual.
5. All the figures may be subjected to review by EPD as and when necessary.

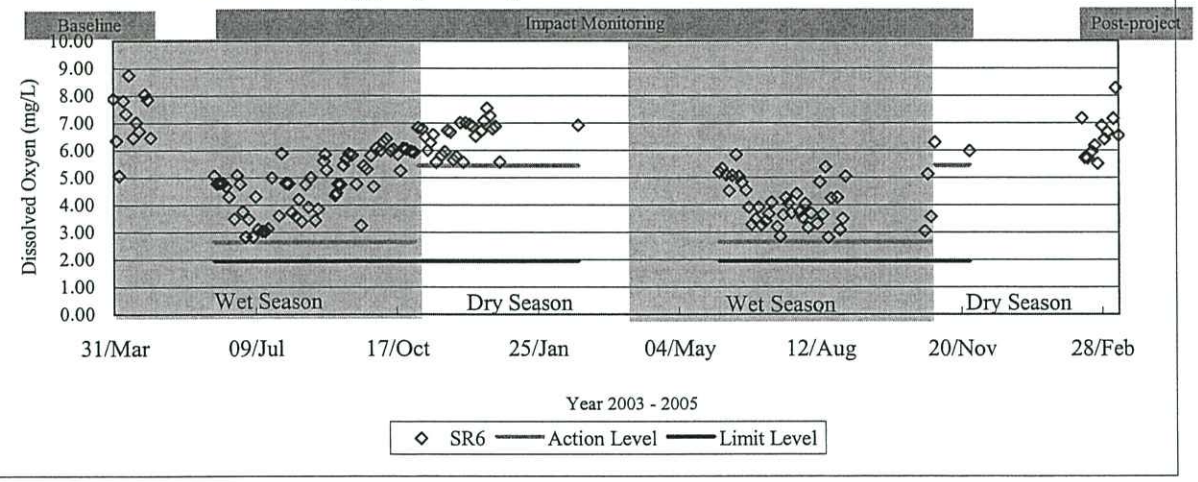
Appendix F

Graphical Presentation of Water Quality Monitoring Results
(Baseline, Impact and Post-project)

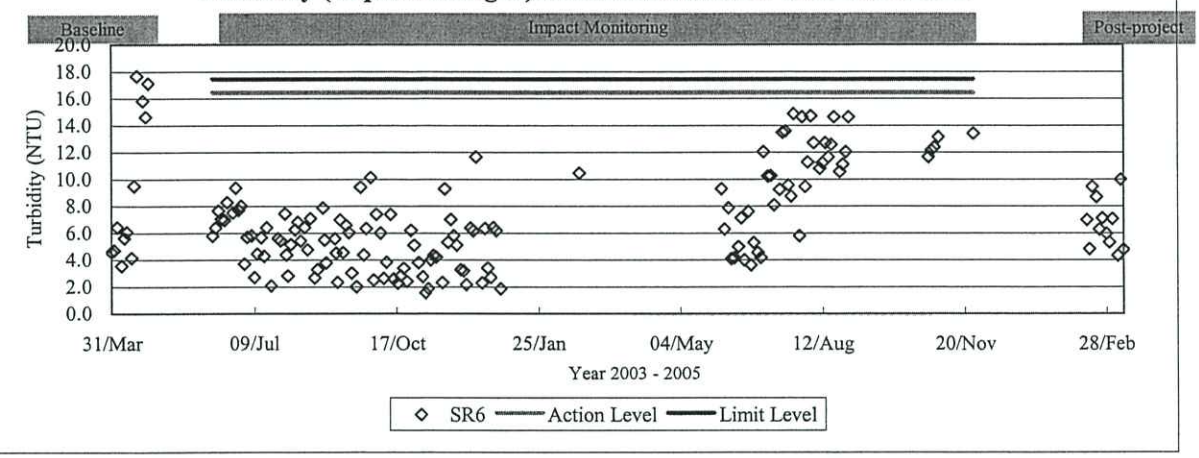
Dissolved Oxygen (Surface & Middle) at Location SR6 for Mid-Flood Tide



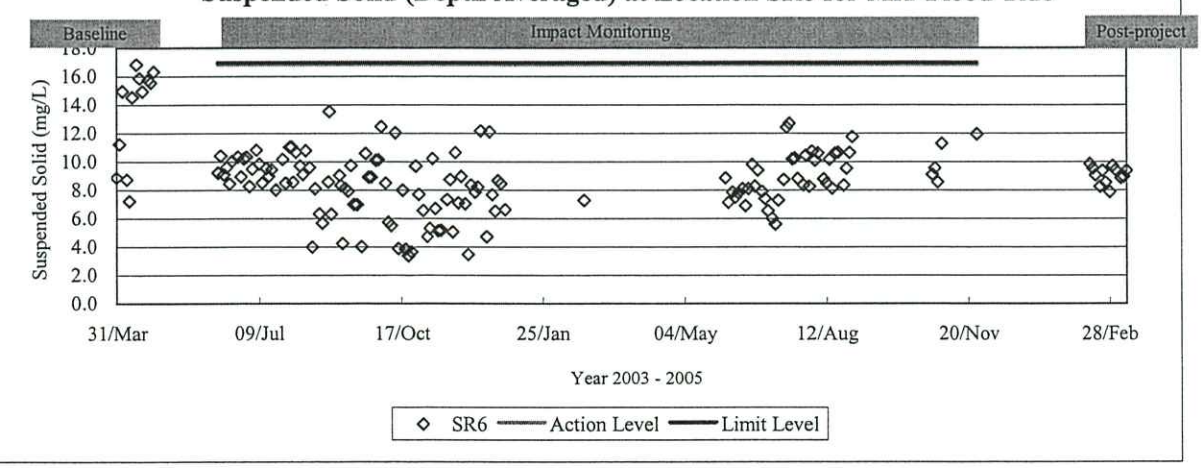
Dissolved Oxygen (Bottom) at Location SR6 for Mid-Flood Tide



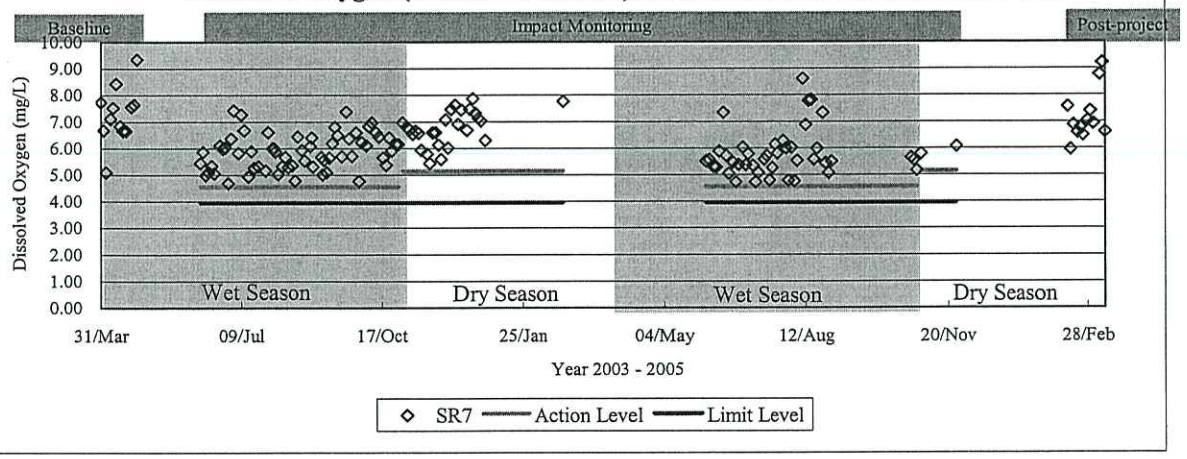
Turbidity (Depth Averaged) at Location SR6 for Mid-Flood Tide



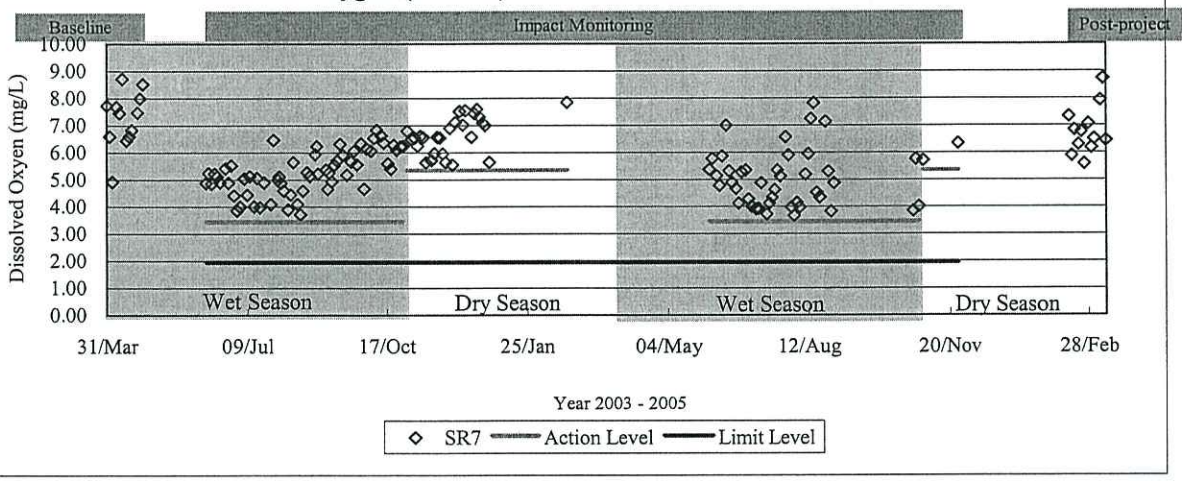
Suspended Solid (Depth Averaged) at Location SR6 for Mid-Flood Tide



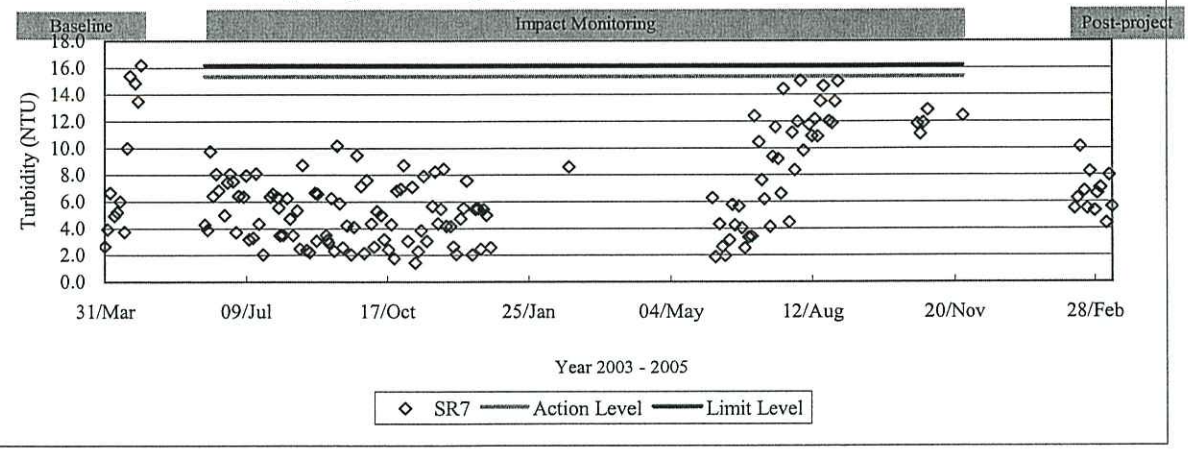
Dissolved Oxygen (Surface & Middle) at Location SR7 for Mid-Flood Tide



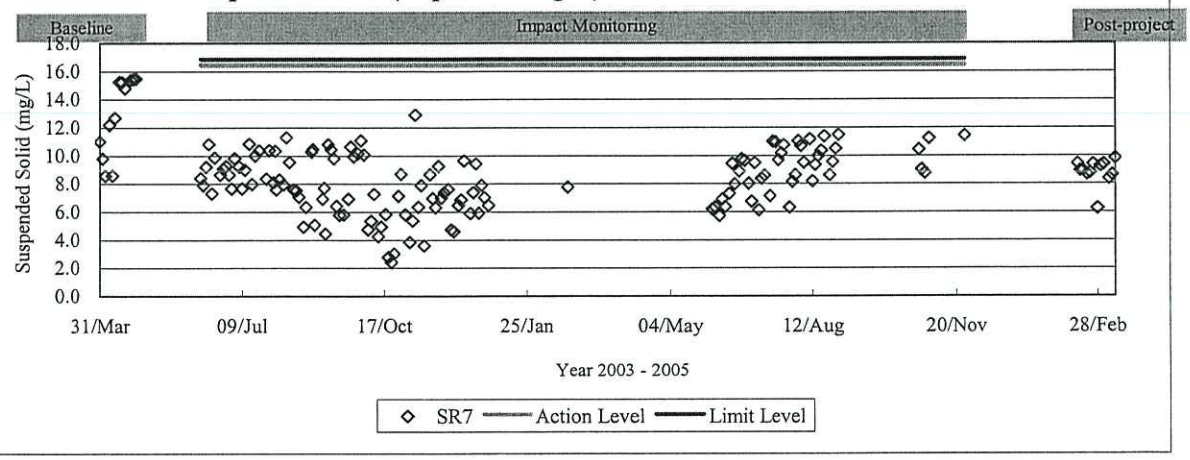
Dissolved Oxygen (Bottom) at Location SR7 for Mid-Flood Tide

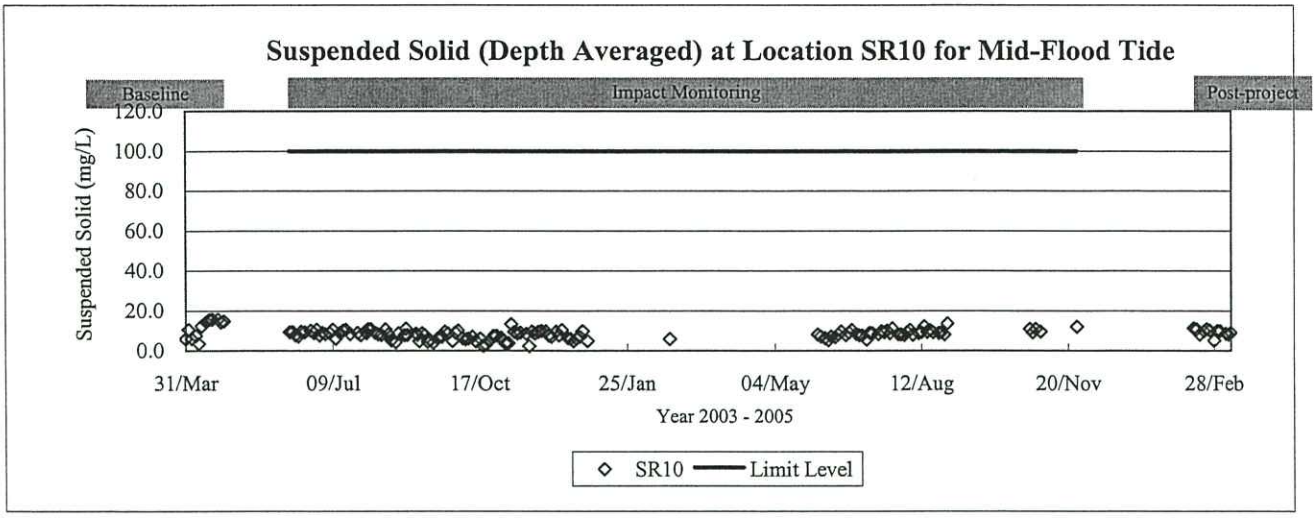


Turbidity (Depth Averaged) at Location SR7 for Mid-Flood Tide

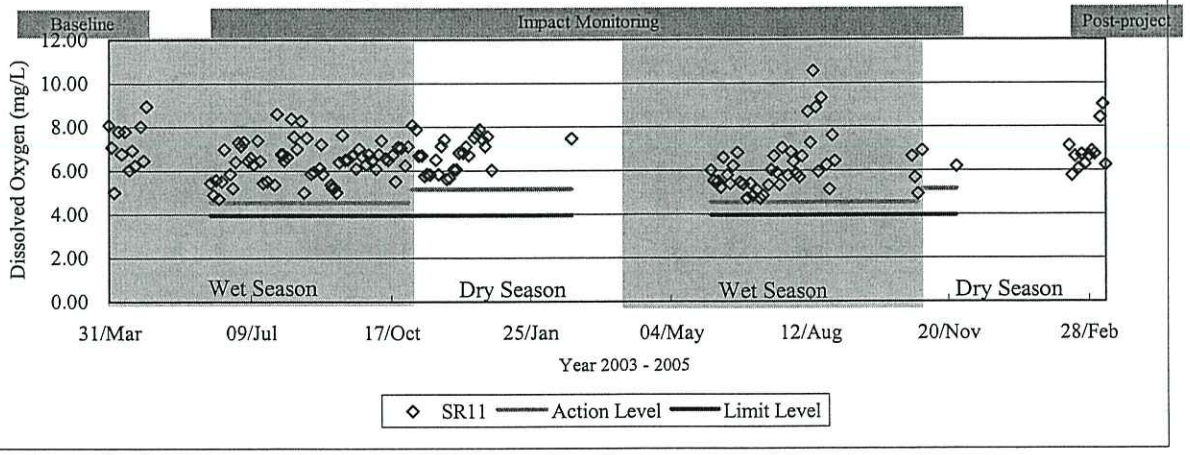


Suspended Solid (Depth Averaged) at Location SR7 for Mid-Flood Tide

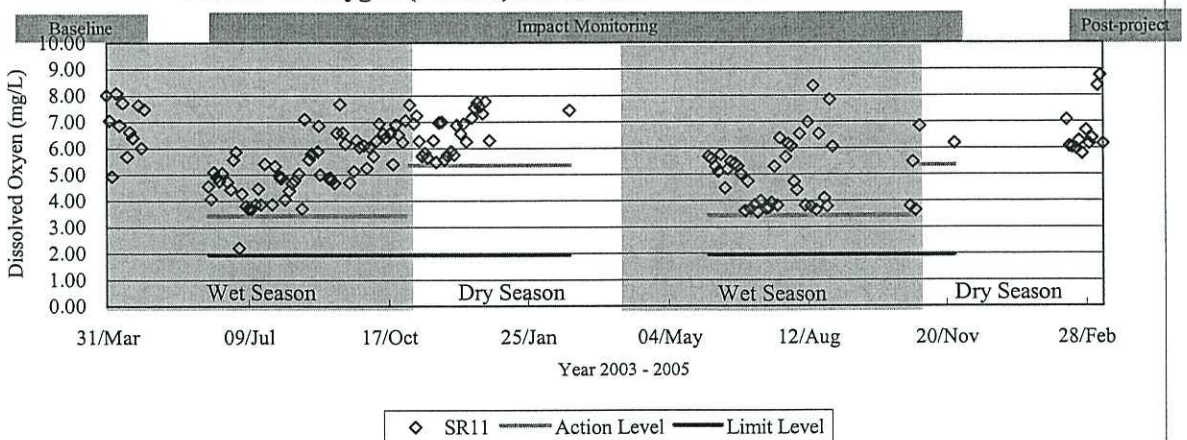



Suspended Solid (Depth Averaged) at Location SR10 for Mid-Flood Tide
Baseline
Impact Monitoring
Post-project
Suspended Solid (mg/L)
120.0
100.0
80.0
60.0
40.0
20.0
0.0
31/Mar
09/Jul
17/Oct
25/Jan
04/May
12/Aug
20/Nov
28/Feb
Year 2003 - 2005
SR10
Limit Level

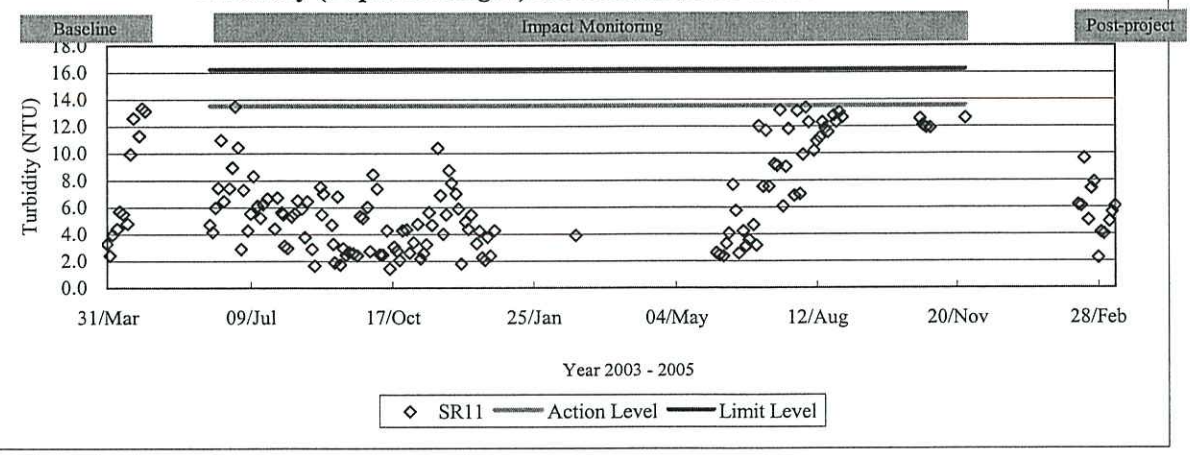
Dissolved Oxygen (Surface & Middle) at Location SR11 for Mid-Flood Tide



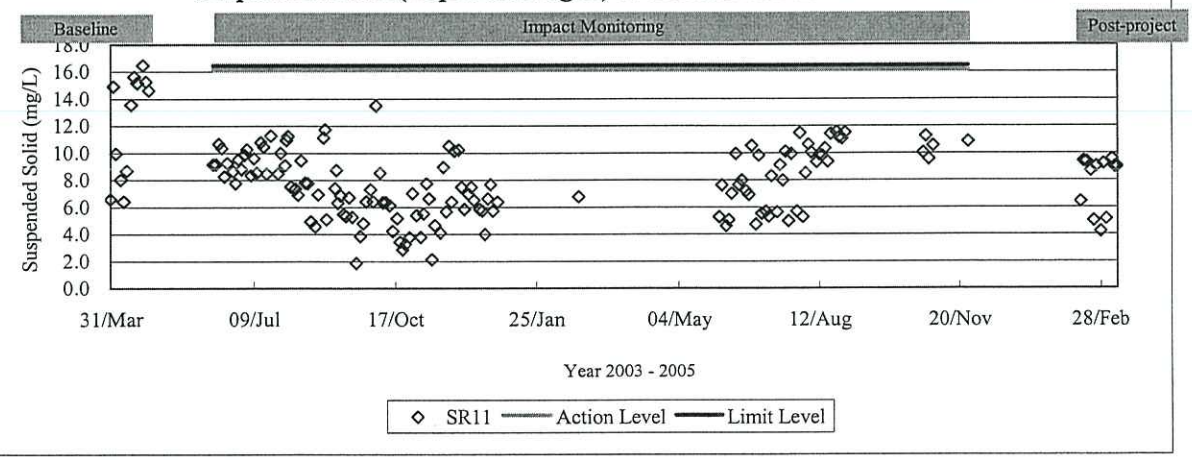
Dissolved Oxygen (Bottom) at Location SR11 for Mid-Flood Tide



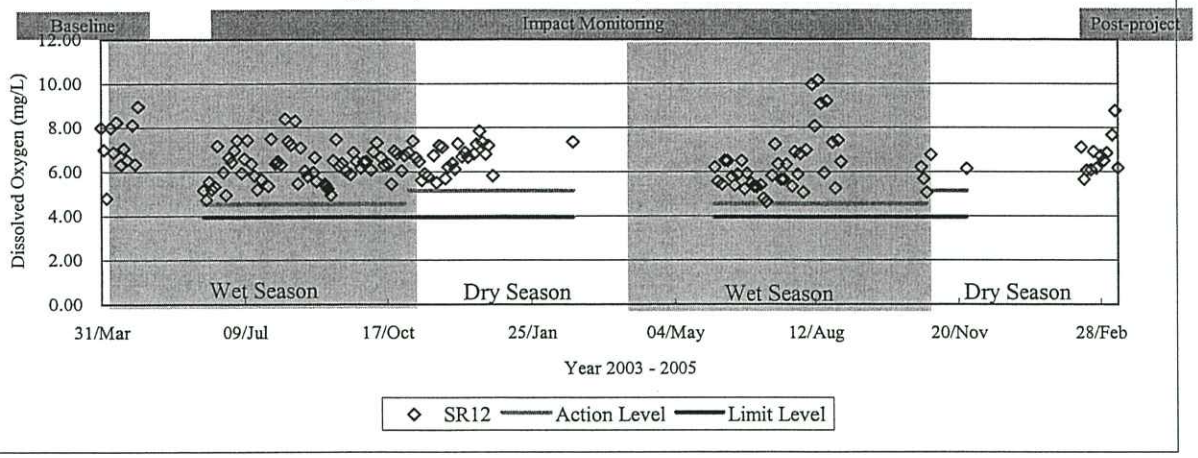
Turbidity (Depth Averaged) at Location SR11 for Mid-Flood Tide



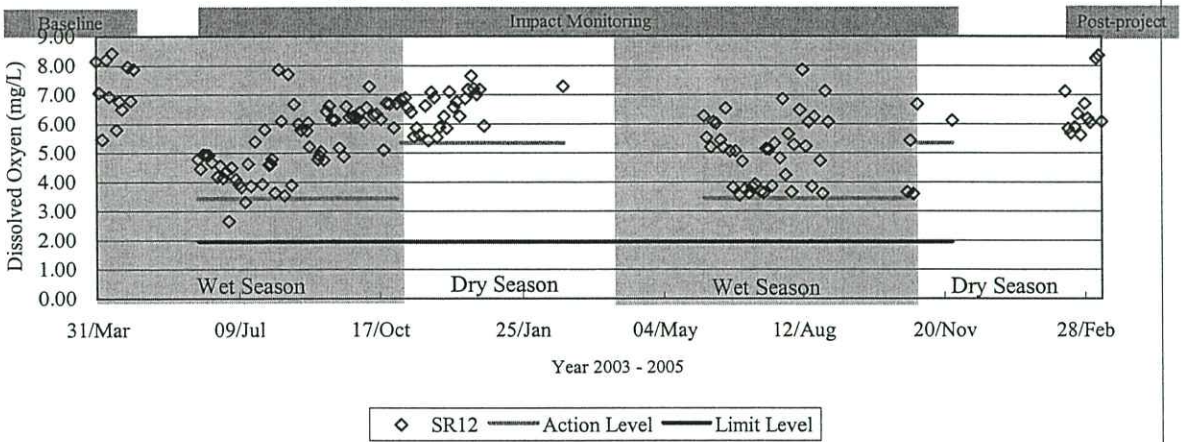
Suspended Solid (Depth Averaged) at Location SR11 for Mid-Flood Tide



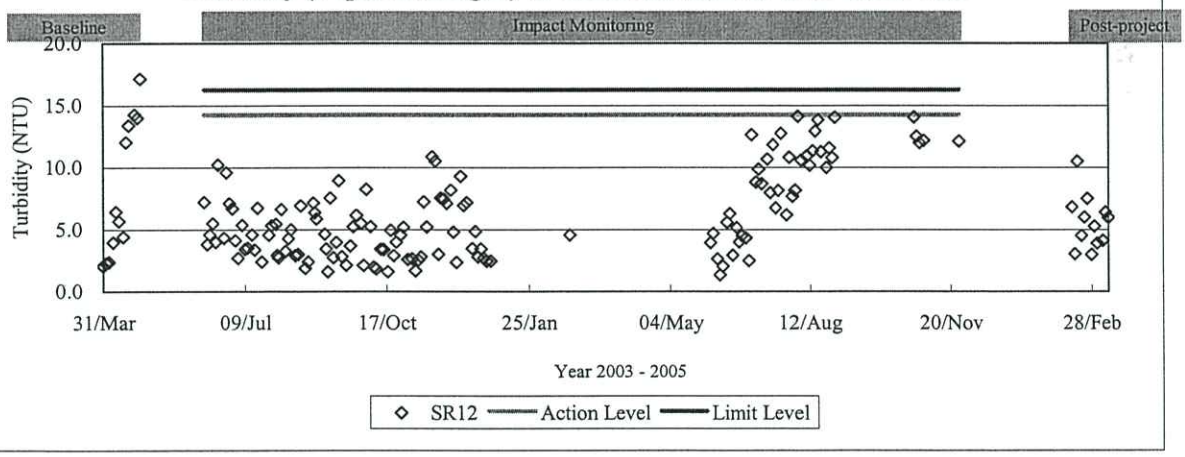
Dissolved Oxygen (Surface & Middle) at Location SR12 for Mid-Flood Tide



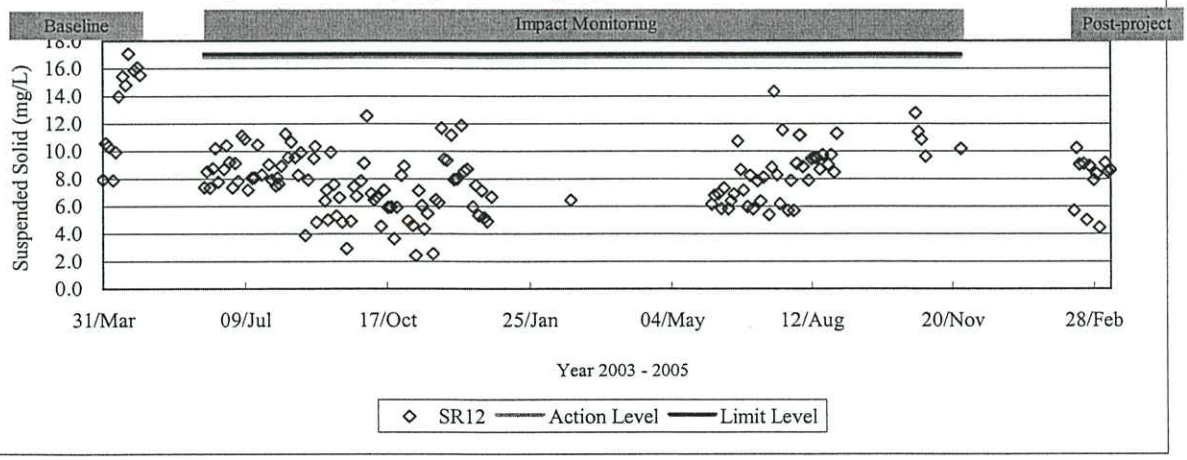
Dissolved Oxygen (Bottom) at Location SR12 for Mid-Flood Tide



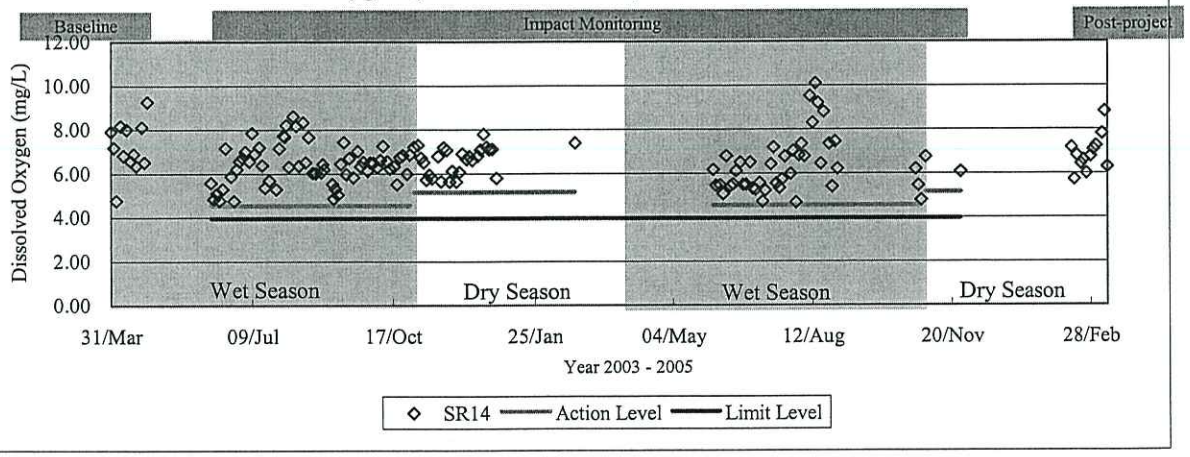
Turbidity (Depth Averaged) at Location SR12 for Mid-Flood Tide



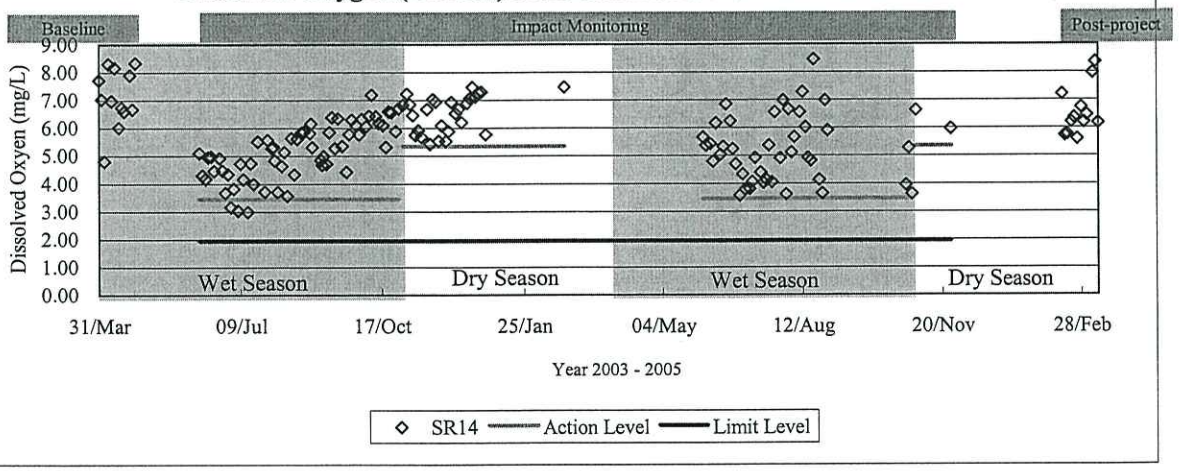
Suspended Solid (Depth Averaged) at Location SR12 for Mid-Flood Tide



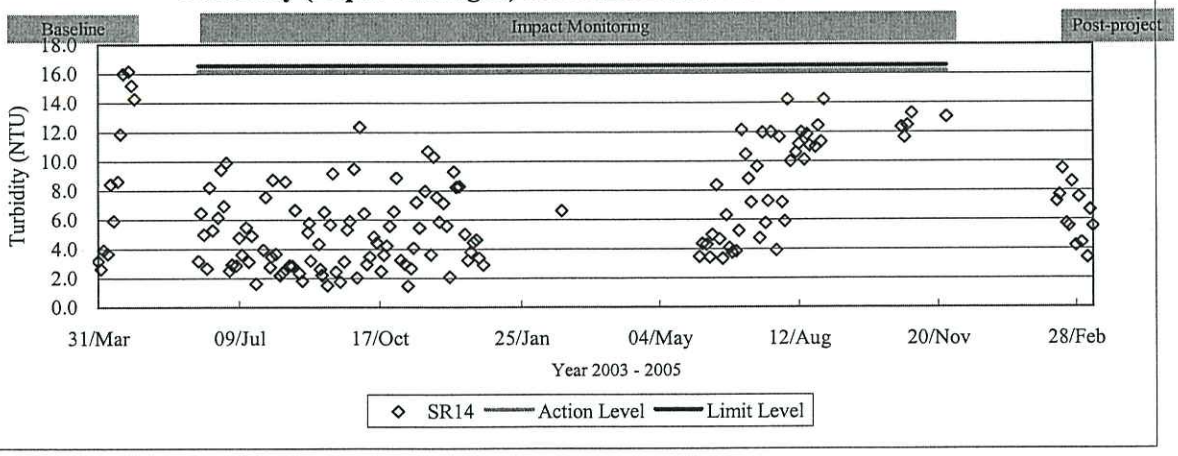
Dissolved Oxygen (Surface & Middle) at Location SR14 for Mid-Flood Tide



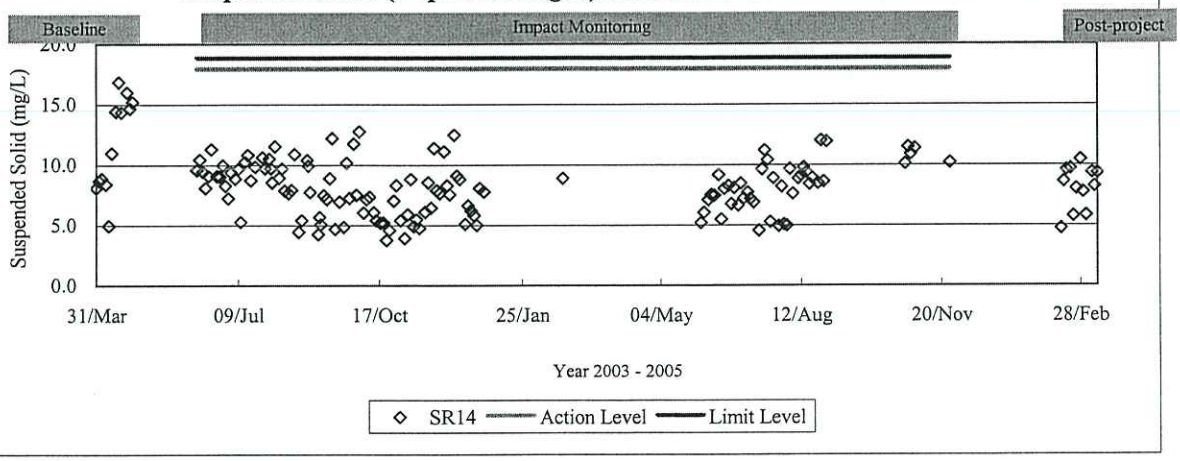
Dissolved Oxygen (Bottom) at Location SR14 for Mid-Flood Tide



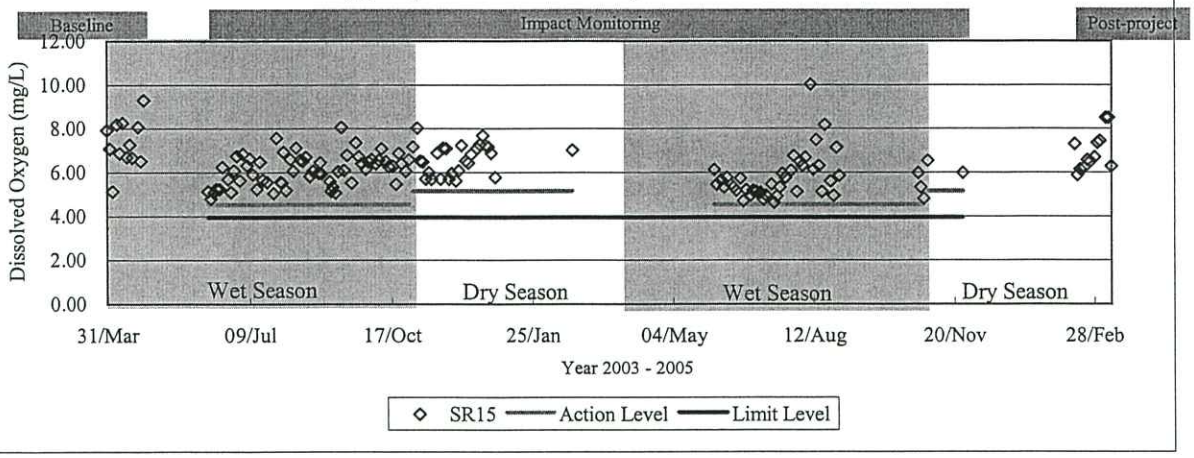
Turbidity (Depth Averaged) at Location SR14 for Mid-Flood Tide



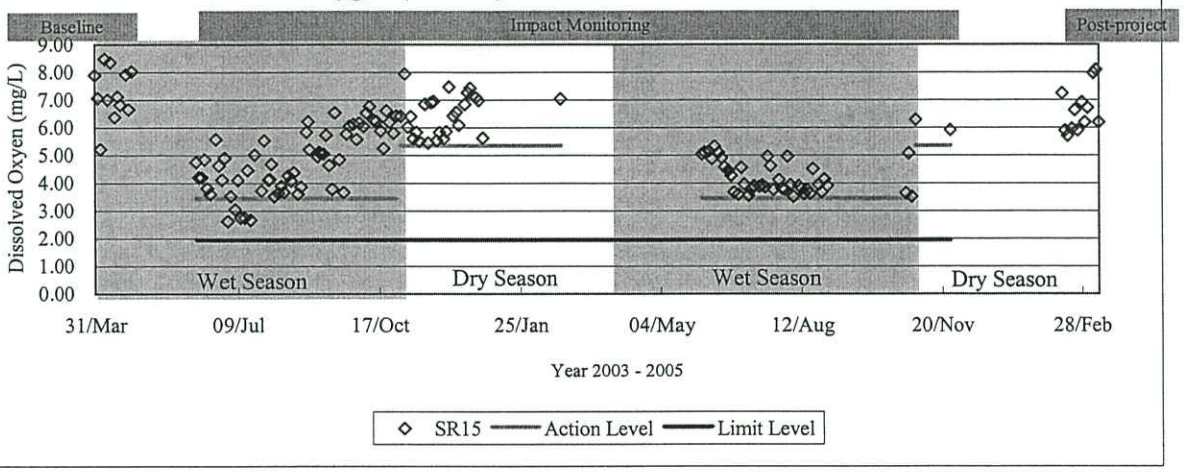
Suspended Solid (Depth Averaged) at Location SR14 for Mid-Flood Tide



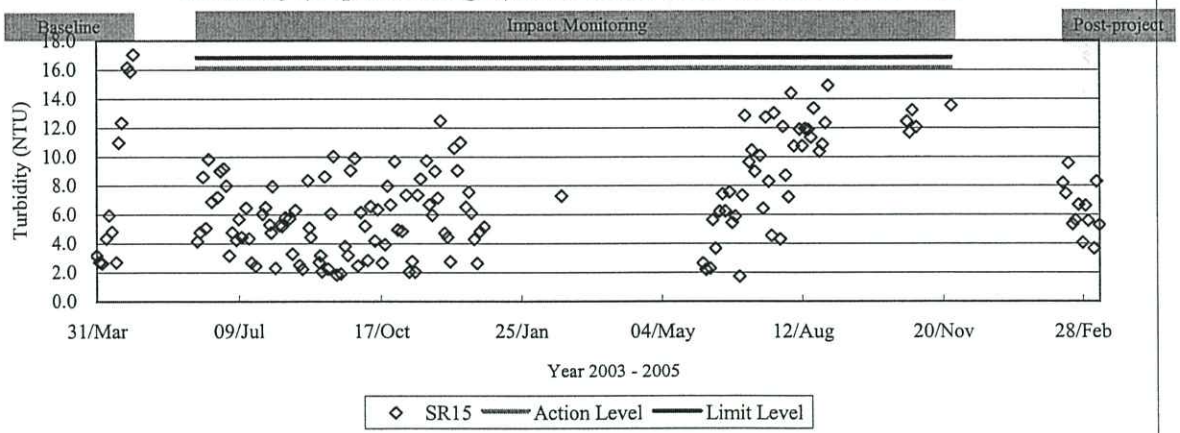
Dissolved Oxygen (Surface & Middle) at Location SR15 for Mid-Flood Tide



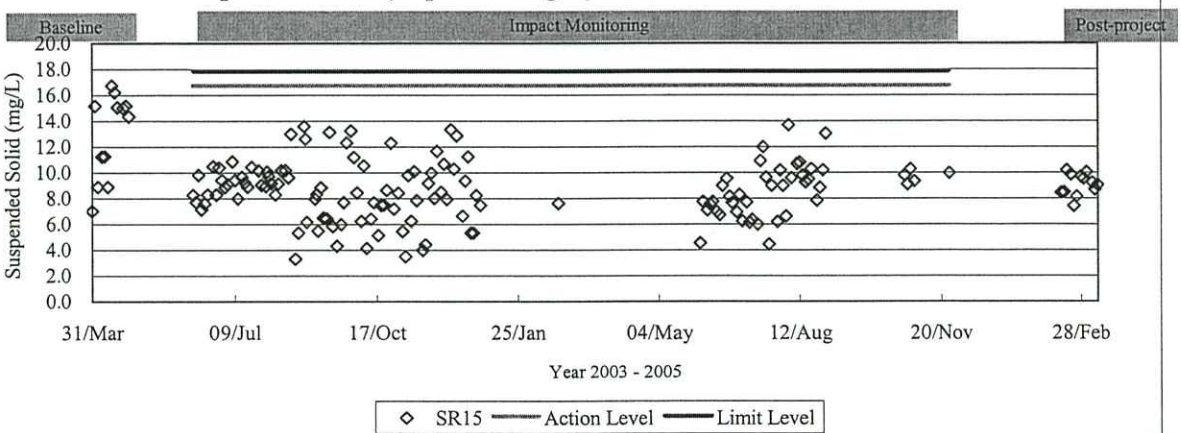
Dissolved Oxygen (Bottom) at Location SR15 for Mid-Flood Tide



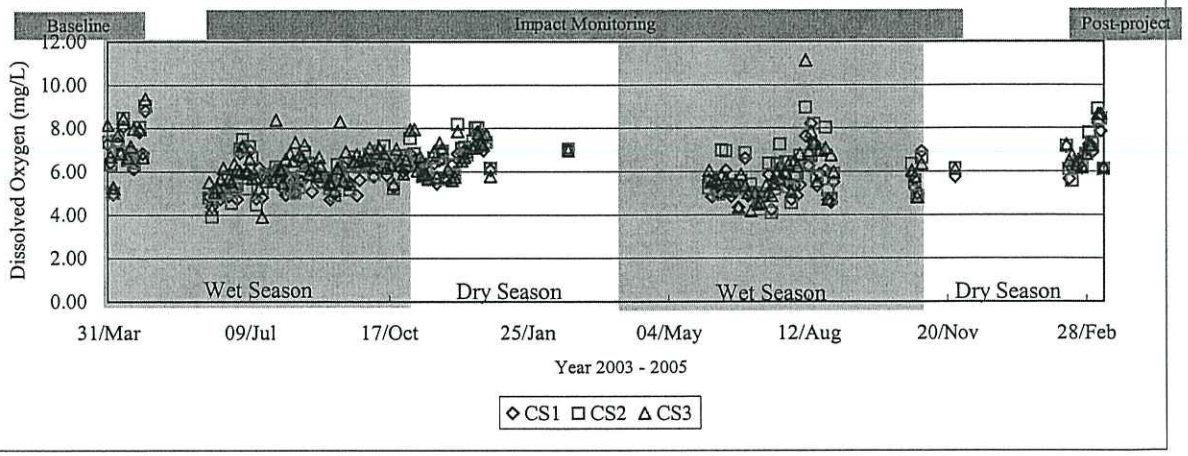
Turbidity (Depth Averaged) at Location SR15 for Mid-Flood Tide



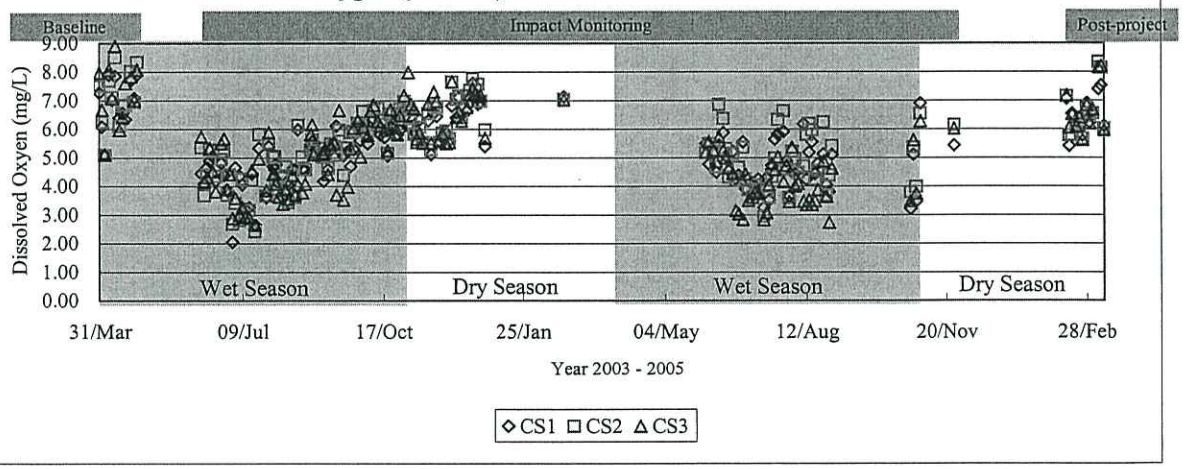
Suspended Solid (Depth Averaged) at Location SR15 for Mid-Flood Tide



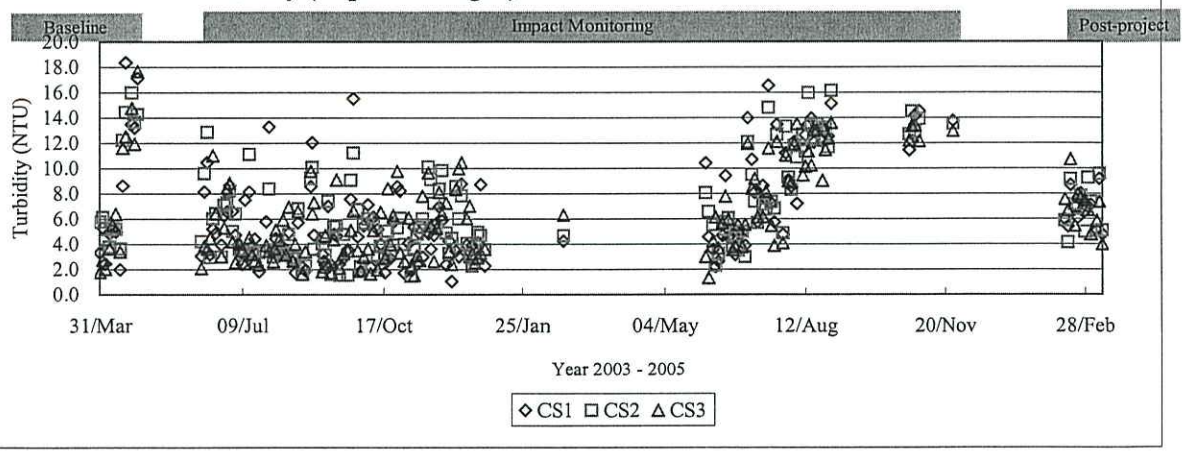
Dissolved Oxygen (Surface & Middle) from CS1 to CS3 for Mid-Flood Tide



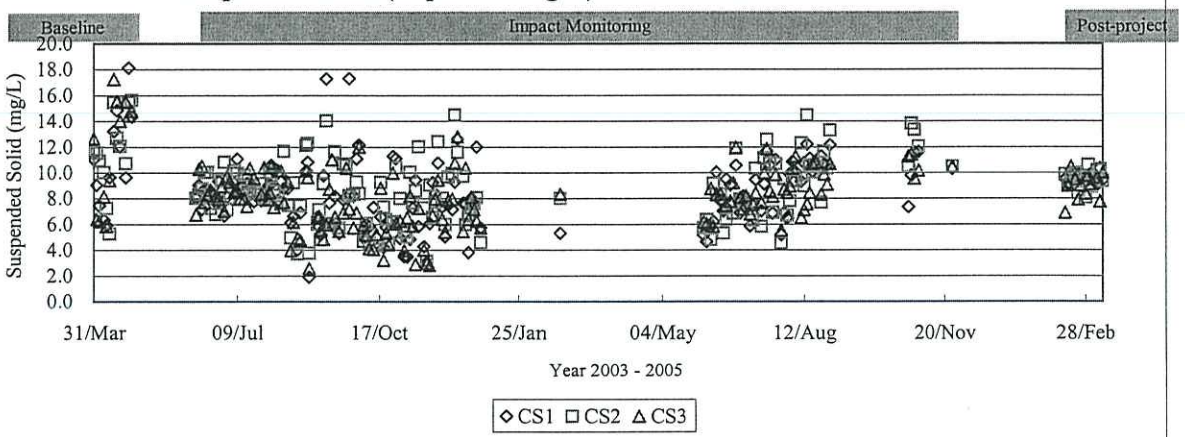
Dissolved Oxygen (Bottom) from CS1 to CS3 for Mid-Flood Tide



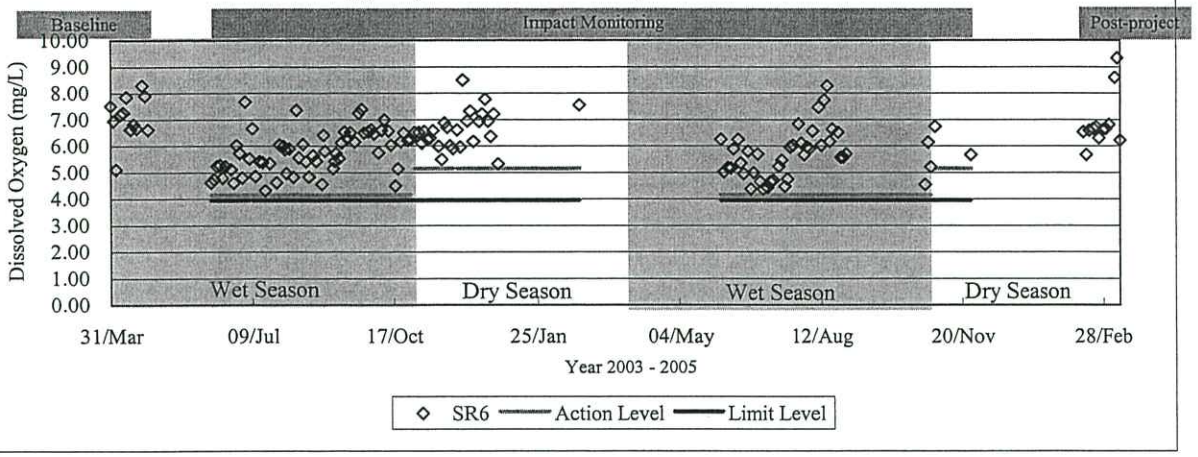
Turbidity (Depth Averaged) from CS1 to CS3 for Mid-Flood Tide



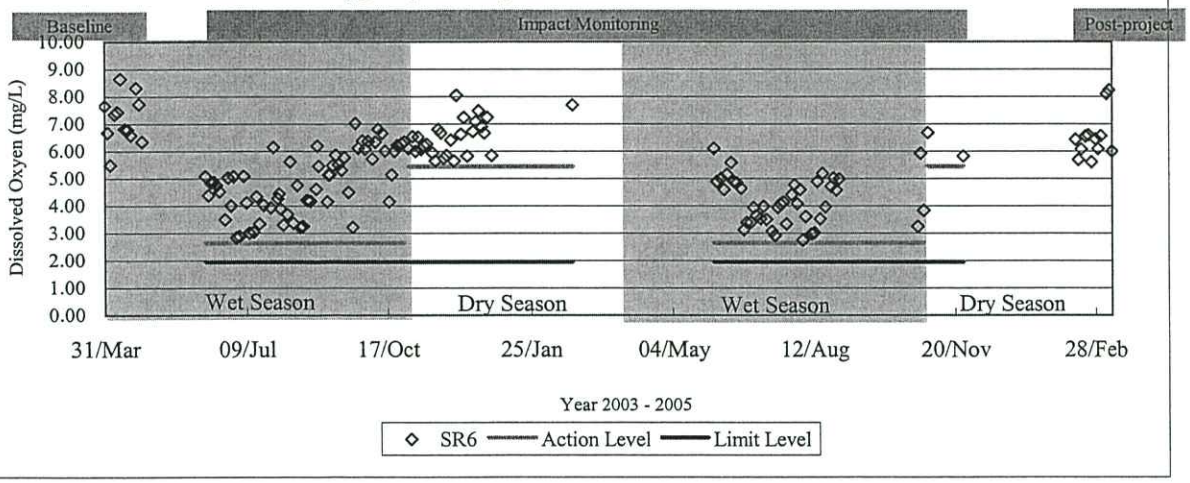
Suspended Solid (Depth Averaged) from CS1 to CS3 for Mid-Flood Tide



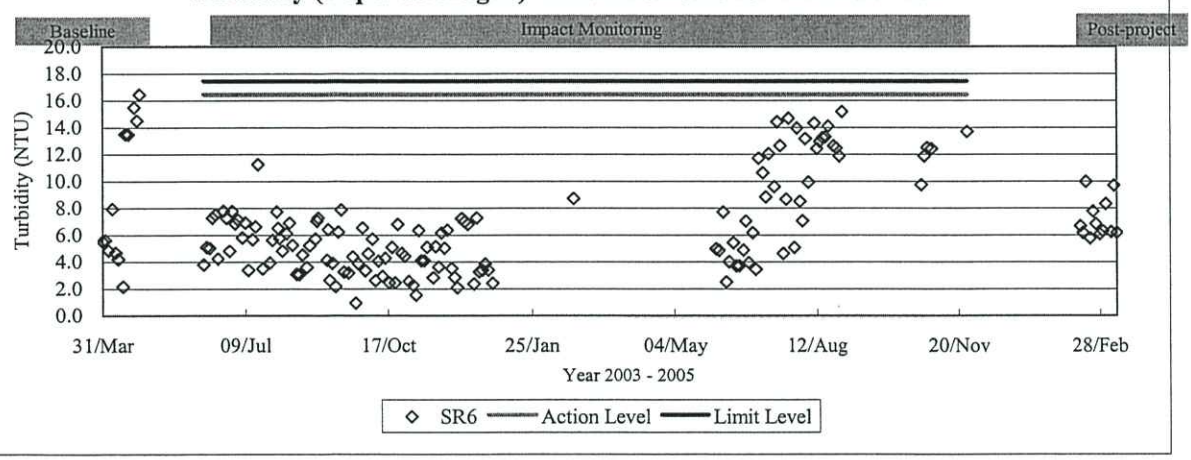
Dissolved Oxygen (Surface & Middle) at Location SR6 for Mid-Ebb Tide



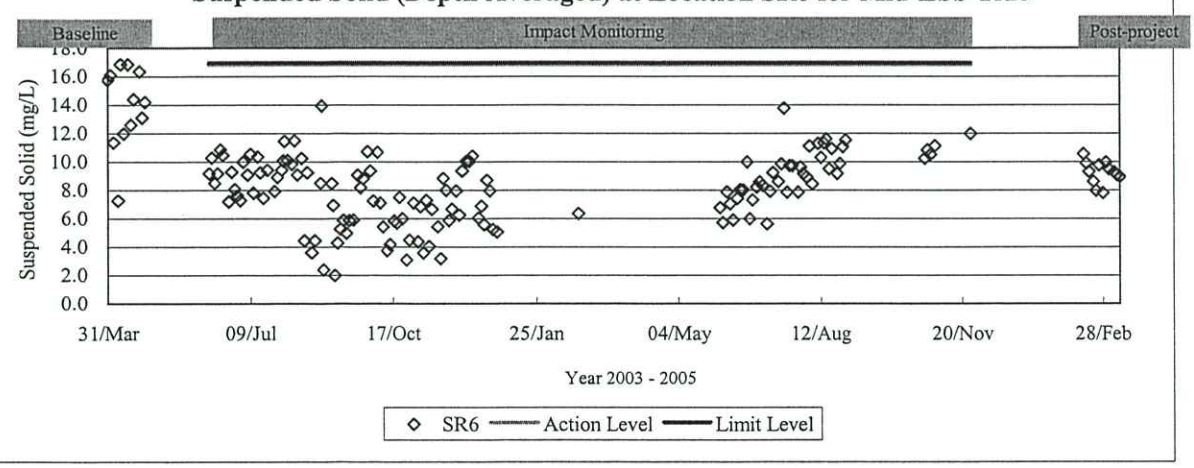
Dissolved Oxygen (Bottom) at Location SR6 for Mid-Ebb Tide



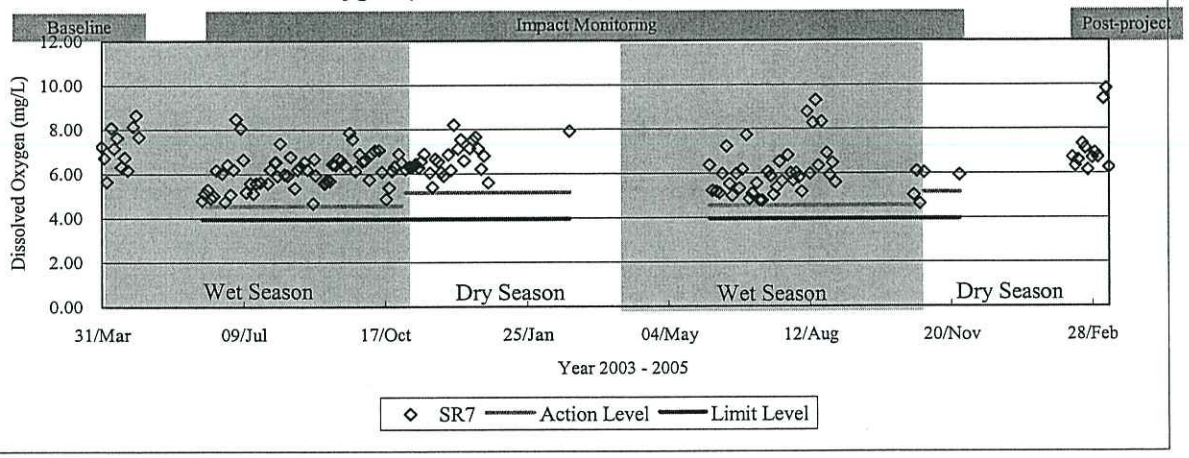
Turbidity (Depth Averaged) at Location SR6 for Mid-Ebb Tide



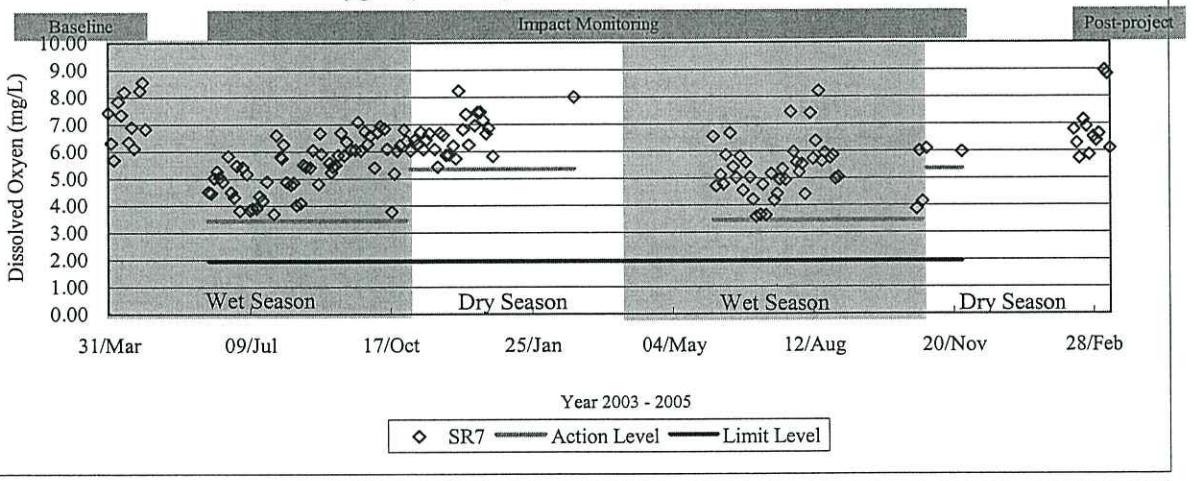
Suspended Solid (Depth Averaged) at Location SR6 for Mid-Ebb Tide



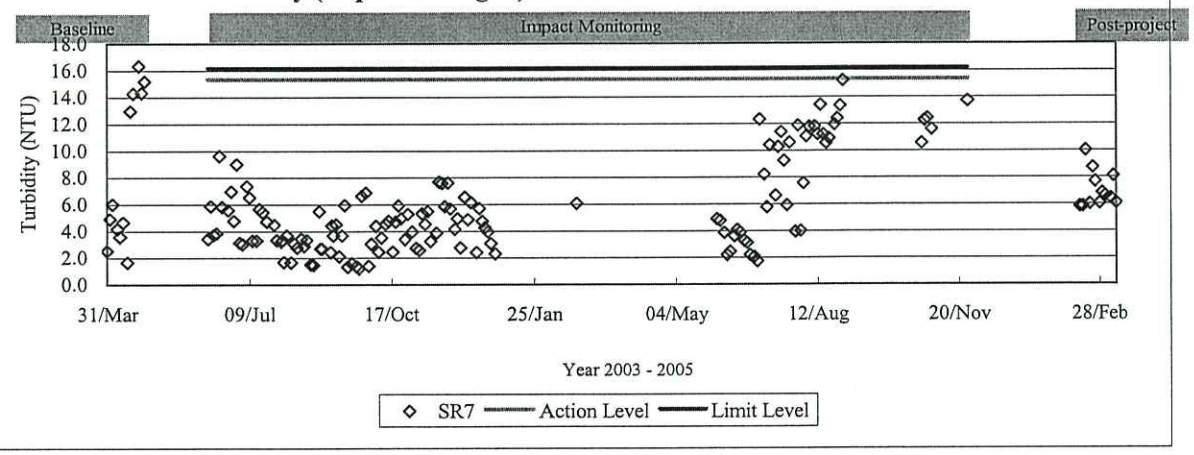
Dissolved Oxygen (Surface & Middle) at Location SR7 for Mid-Ebb Tide



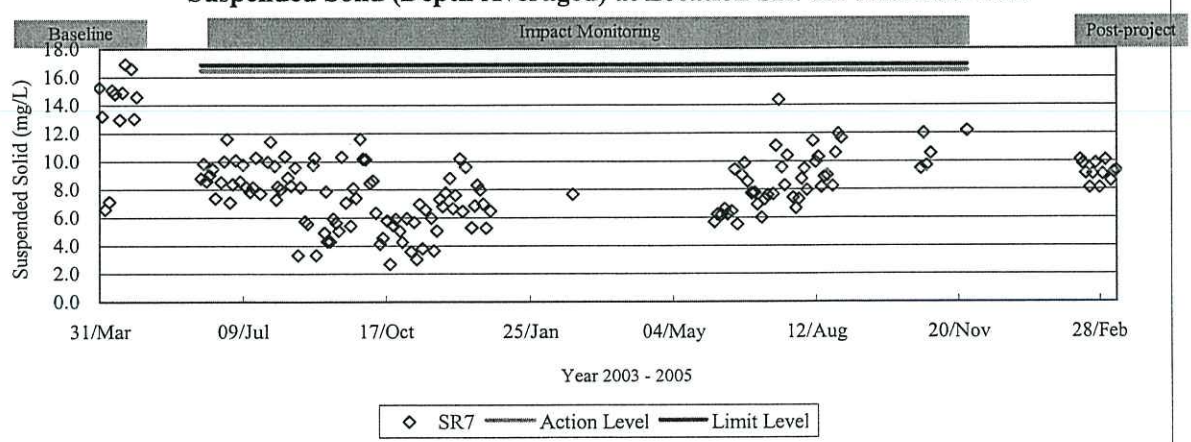
Dissolved Oxygen (Bottom) at Location SR7 for Mid-Ebb Tide

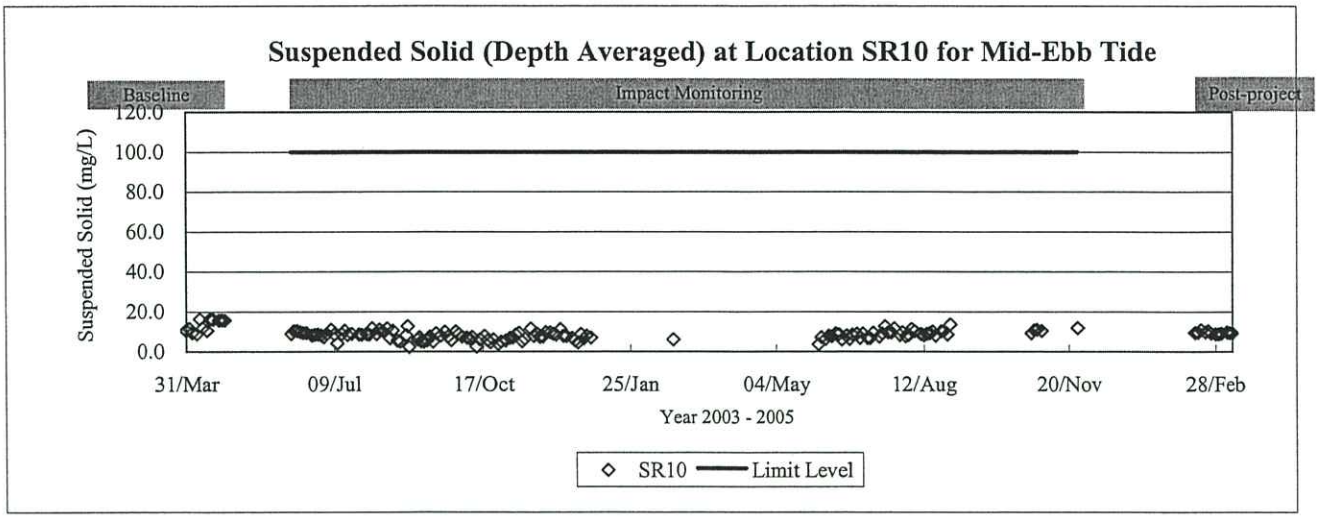


Turbidity (Depth Averaged) at Location SR7 for Mid-Ebb Tide

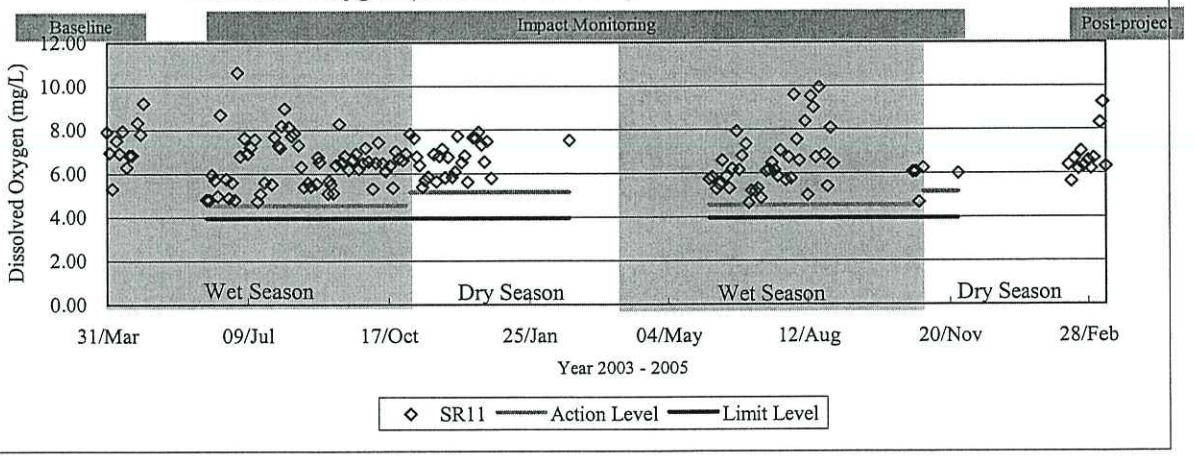


Suspended Solid (Depth Averaged) at Location SR7 for Mid-Ebb Tide

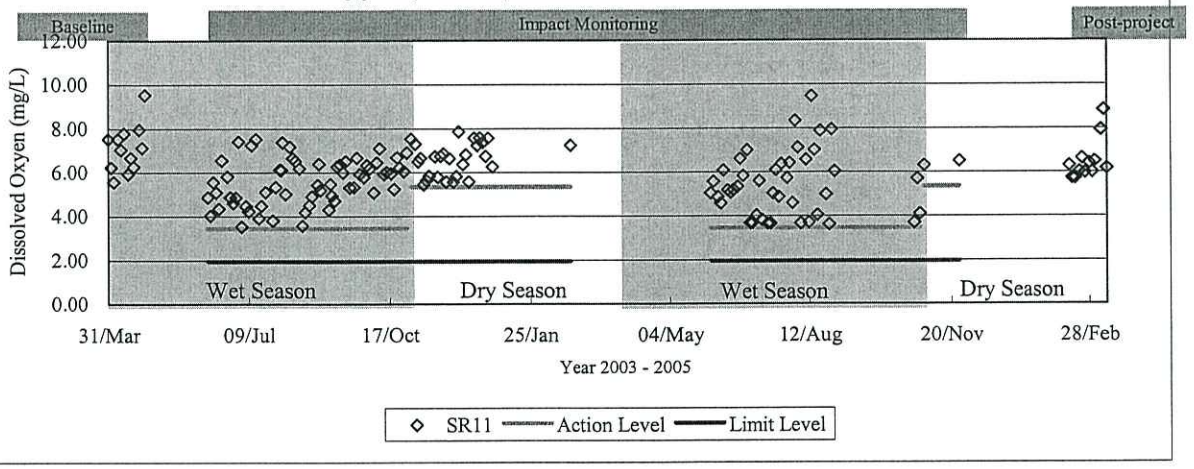



Suspended Solid (Depth Averaged) at Location SR10 for Mid-Ebb Tide
Baseline
Impact Monitoring
Post-project
Suspended Solid (mg/L)
120.0
100.0
80.0
60.0
40.0
20.0
0.0
31/Mar
09/Jul
17/Oct
25/Jan
04/May
12/Aug
20/Nov
28/Feb
Year 2003 - 2005
SR10
Limit Level

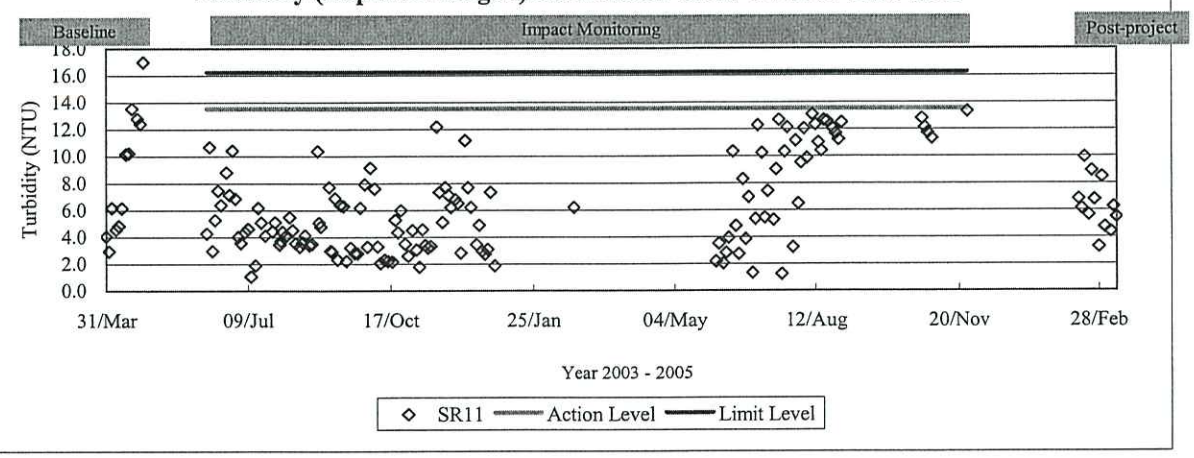
Dissolved Oxygen (Surface & Middle) at Location SR11 for Mid-Ebb Tide



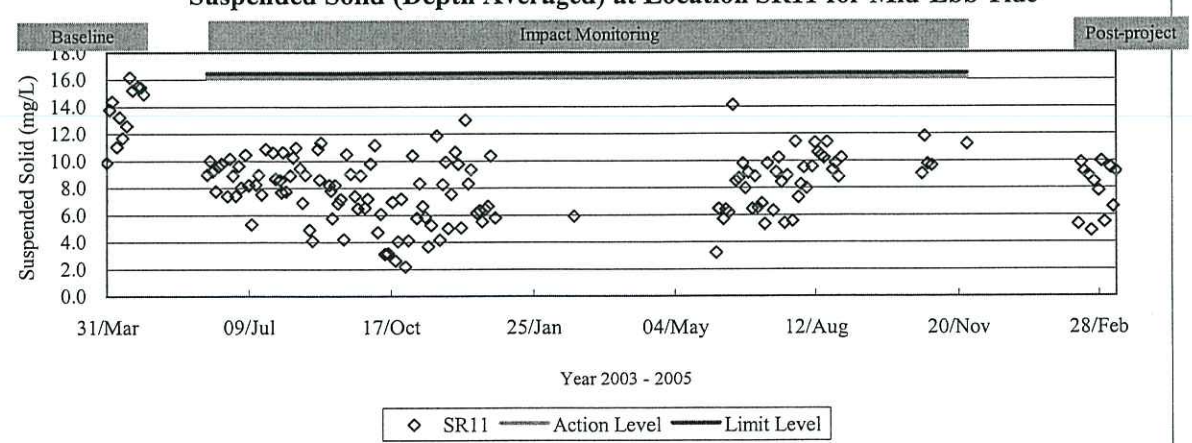
Dissolved Oxygen (Bottom) at Location SR11 for Mid-Ebb Tide



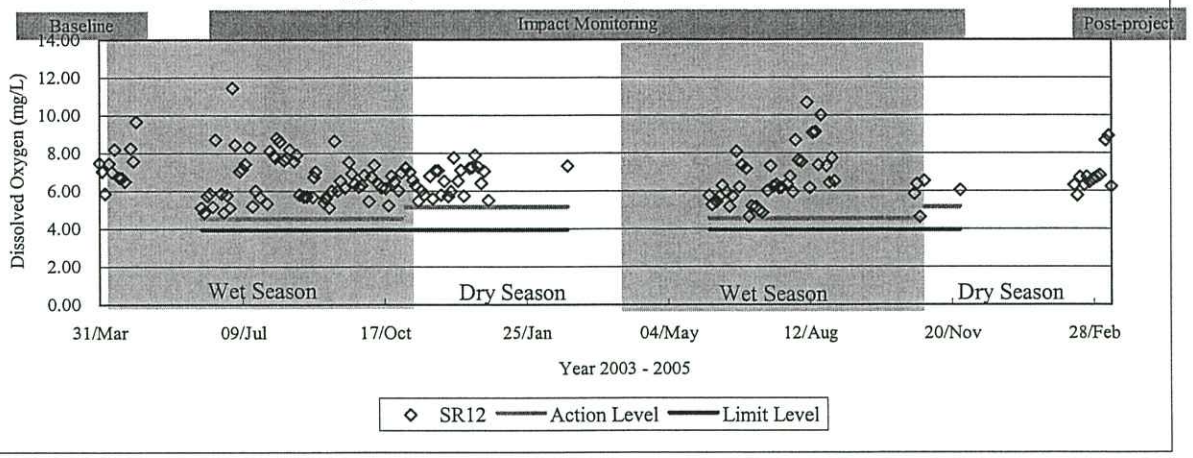
Turbidity (Depth Averaged) at Location SR11 for Mid-Ebb Tide



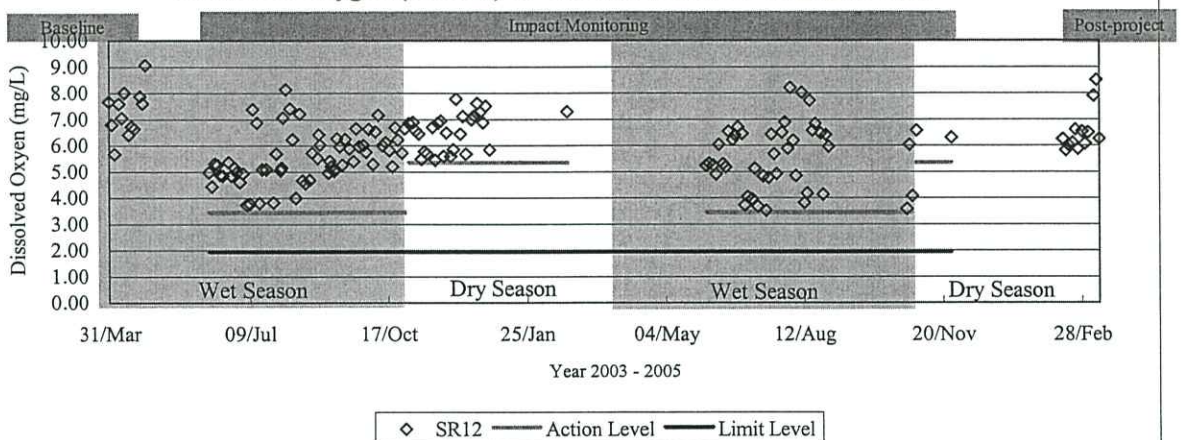
Suspended Solid (Depth Averaged) at Location SR11 for Mid-Ebb Tide



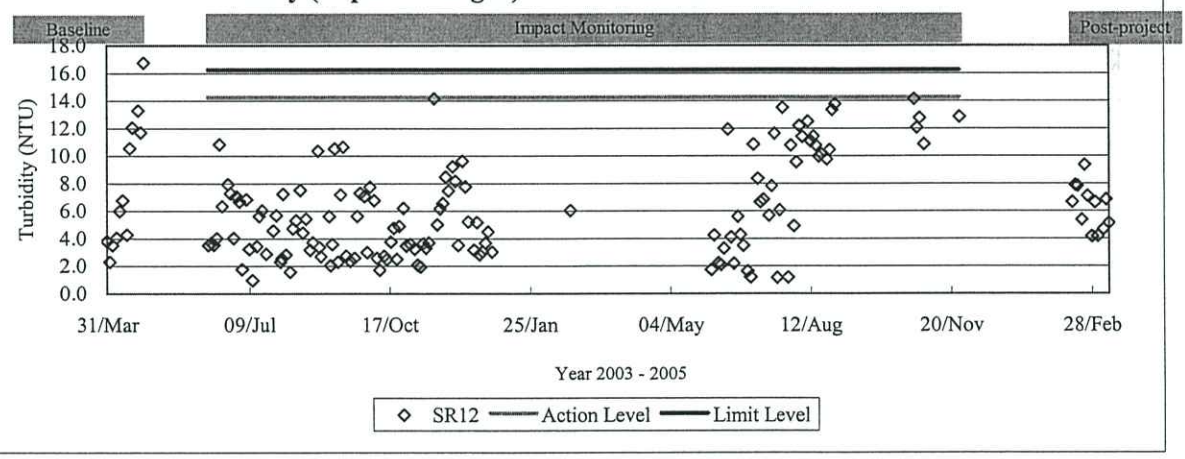
Dissolved Oxygen (Surface & Middle) at Location SR12 for Mid-Ebb Tide



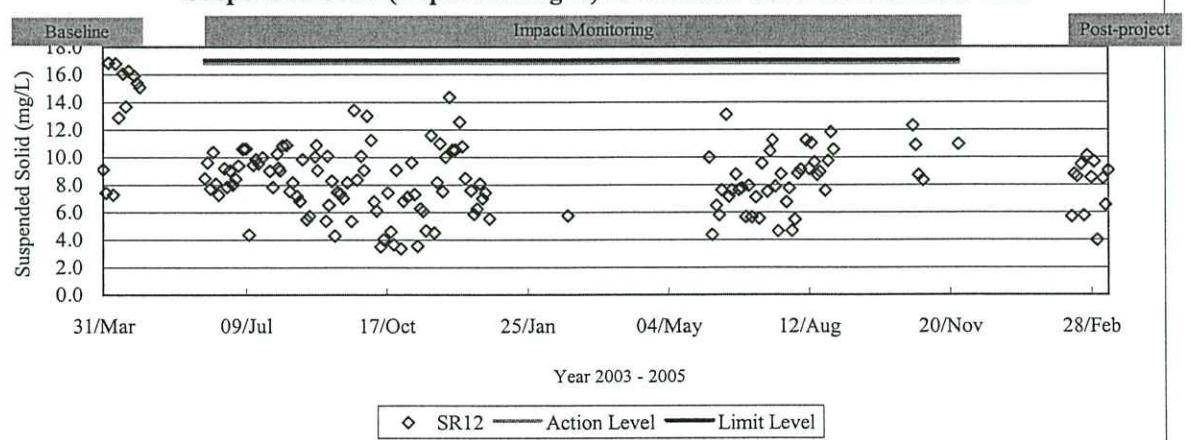
Dissolved Oxygen (Bottom) at Location SR12 for Mid-Ebb Tide



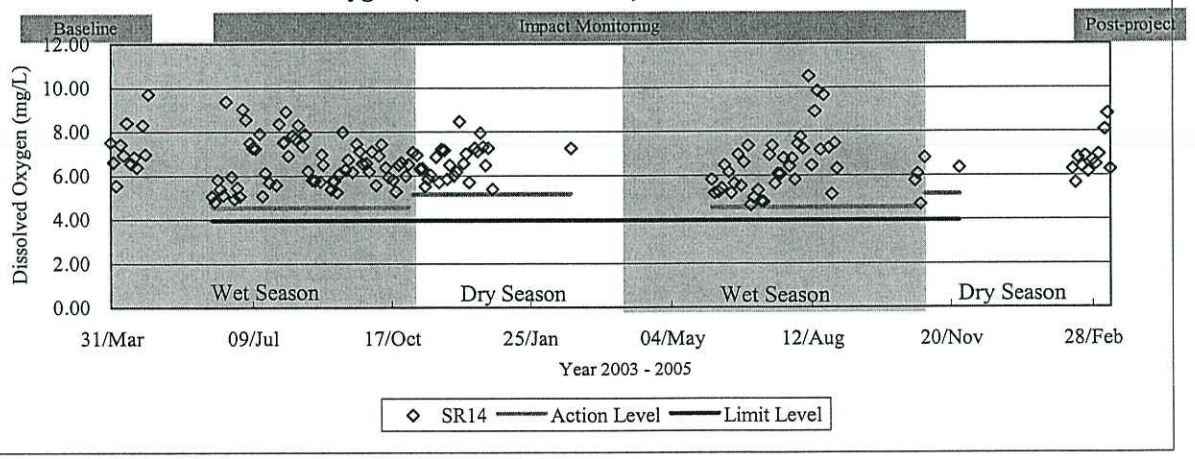
Turbidity (Depth Averaged) at Location SR12 for Mid-Ebb Tide



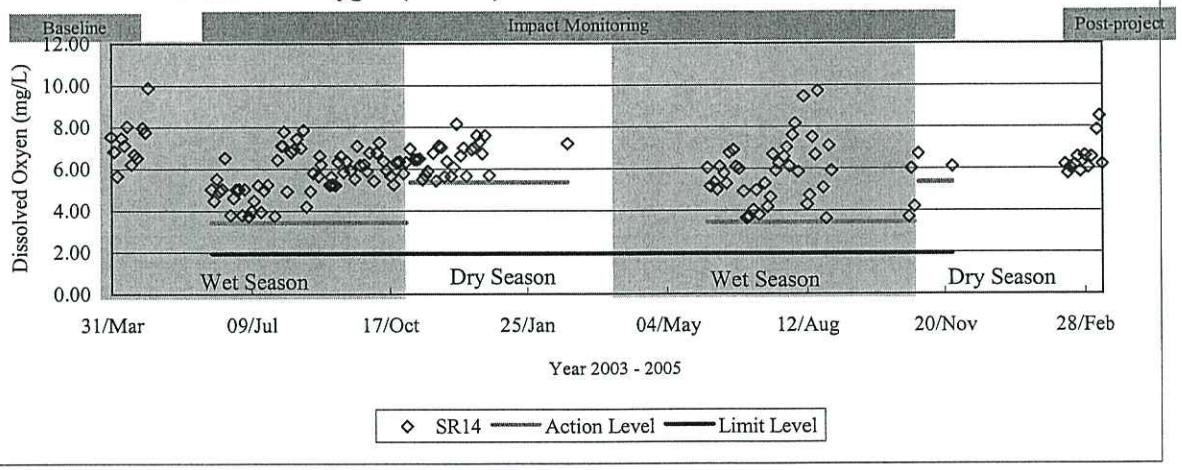
Suspended Solid (Depth Averaged) at Location SR12 for Mid-Ebb Tide



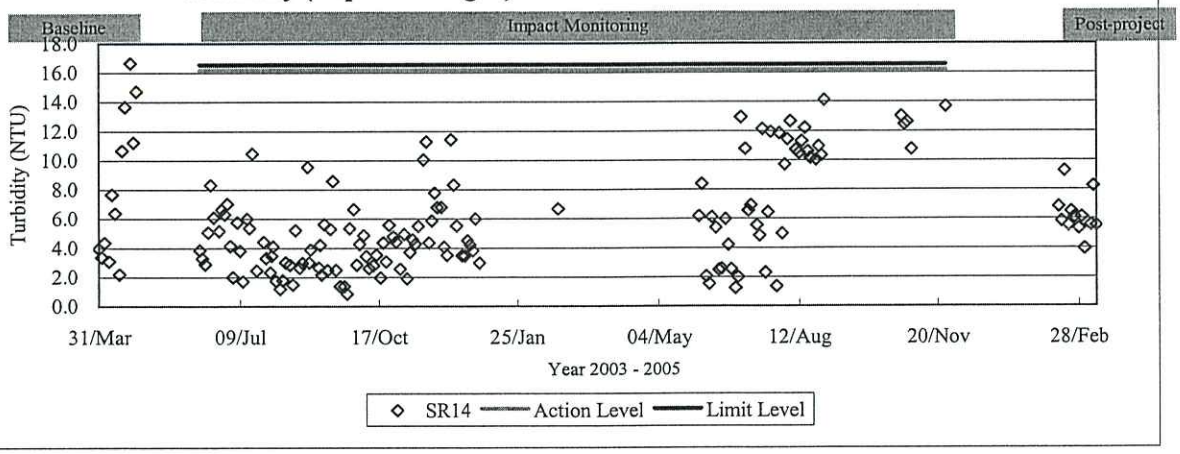
Dissolved Oxygen (Surface & Middle) at Location SR14 for Mid-Ebb Tide



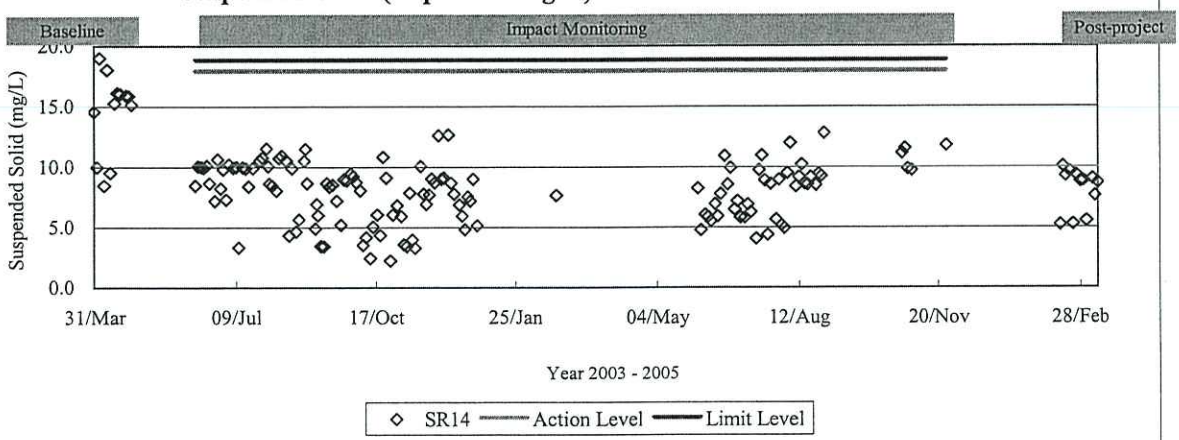
Dissolved Oxygen (Bottom) at Location SR14 for Mid-Ebb Tide



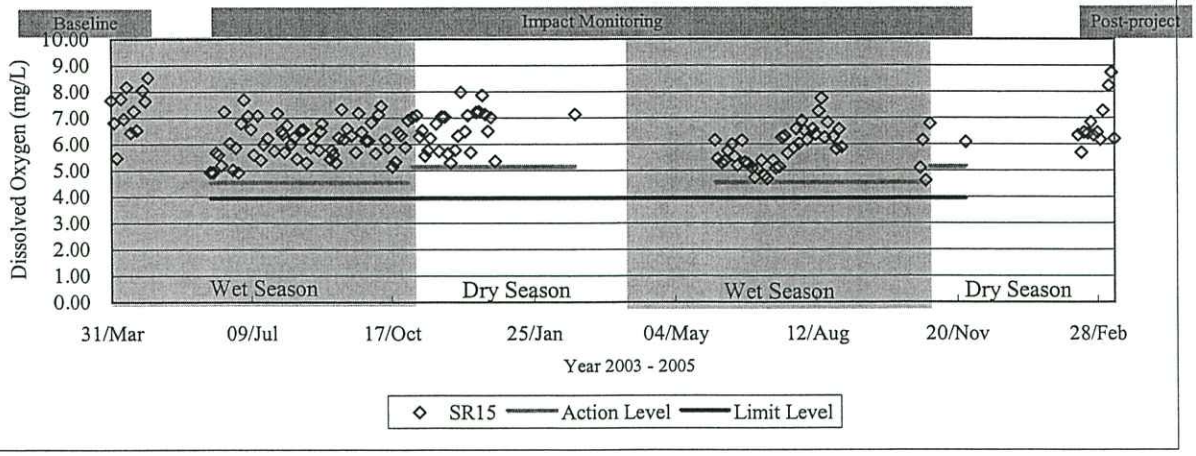
Turbidity (Depth Averaged) at Location SR14 for Mid-Ebb Tide



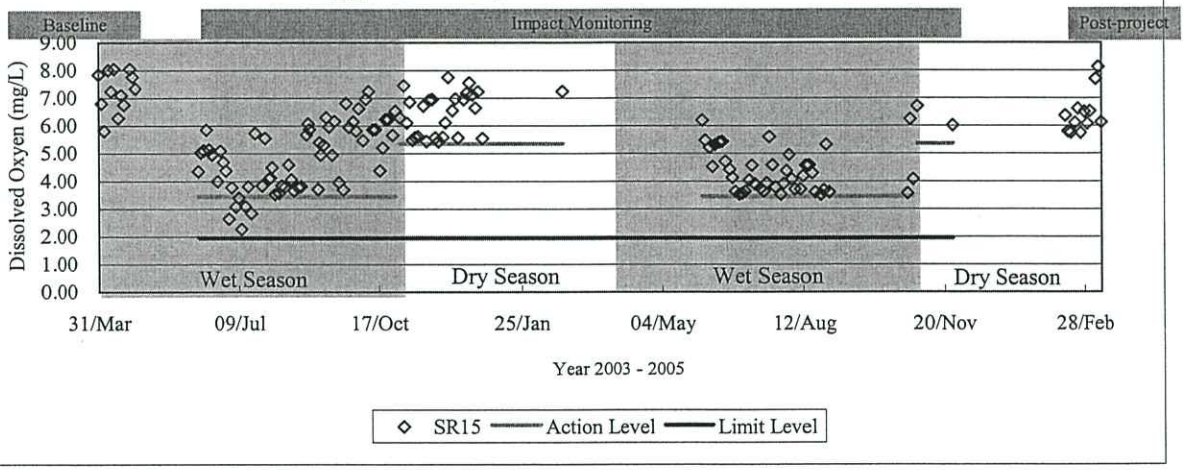
Suspended Solid (Depth Averaged) at Location SR14 for Mid-Ebb Tide



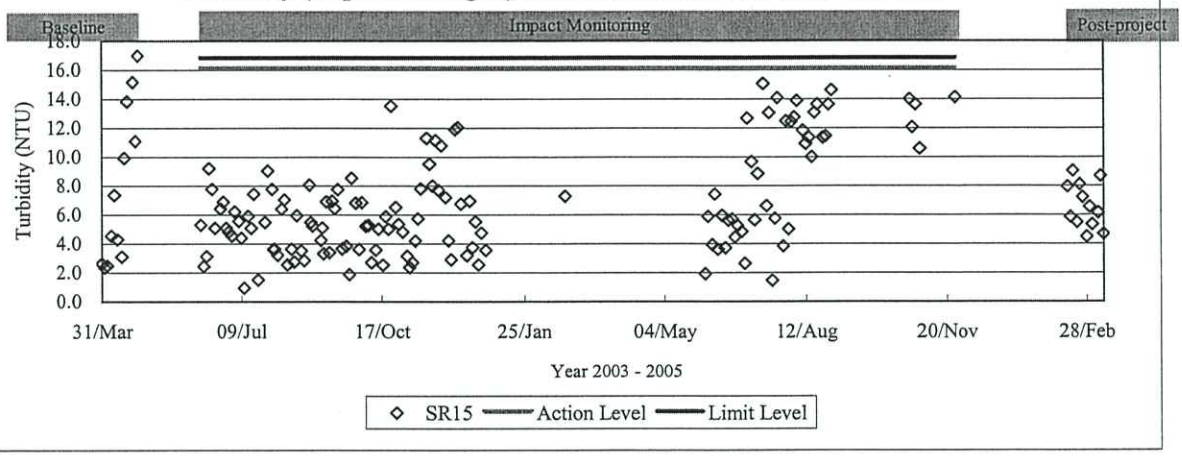
Dissolved Oxygen (Surface & Middle) at Location SR15 for Mid-Ebb Tide



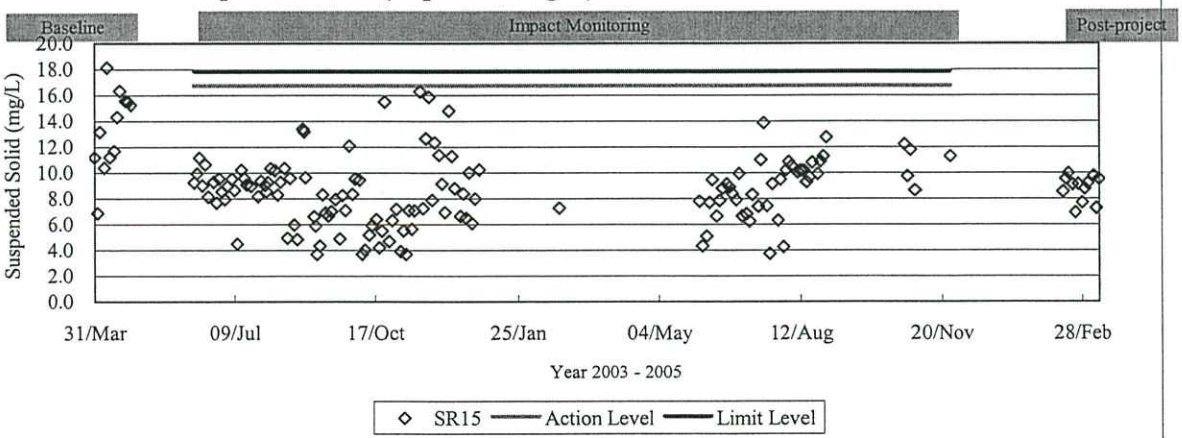
Dissolved Oxygen (Bottom) at Location SR15 for Mid-Ebb Tide



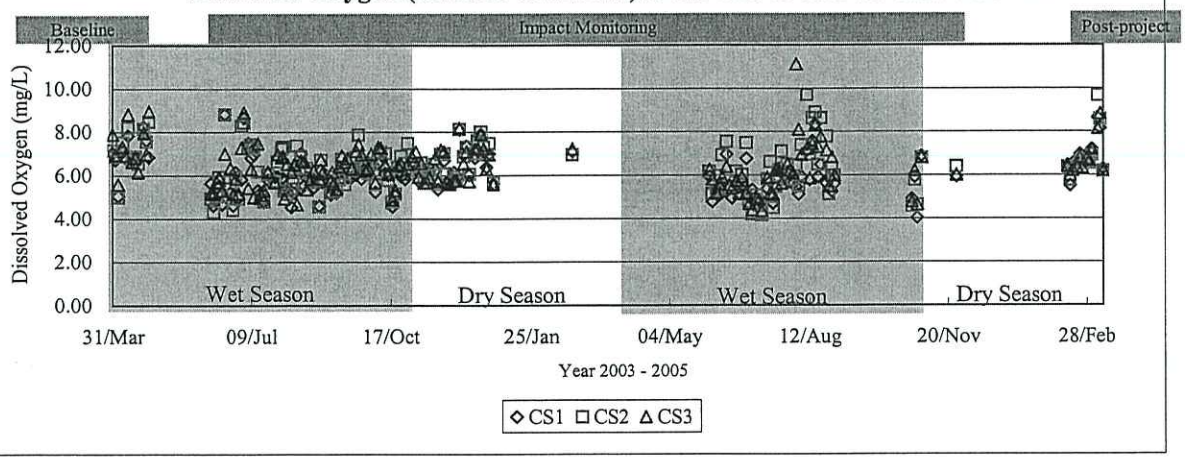
Turbidity (Depth Averaged) at Location SR15 for Mid-Ebb Tide



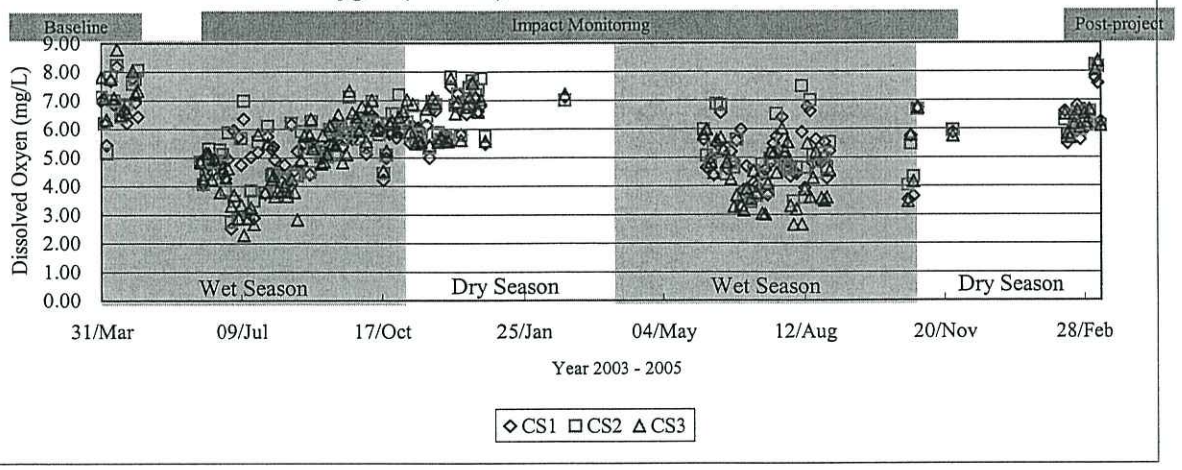
Suspended Solid (Depth Averaged) at Location SR15 for Mid-Ebb Tide



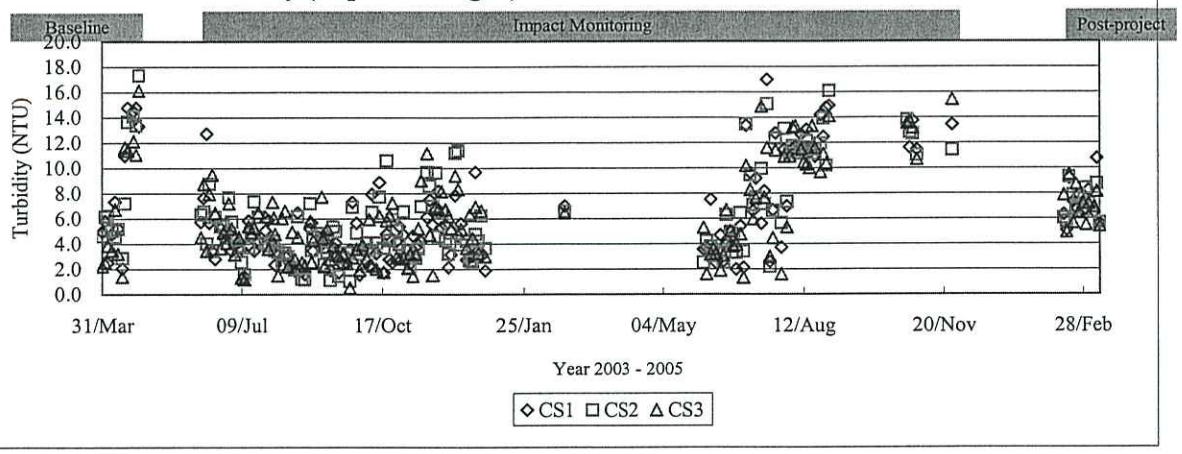
Dissolved Oxygen (Surface & Middle) from CS1 to CS3 for Mid-Ebb Tide



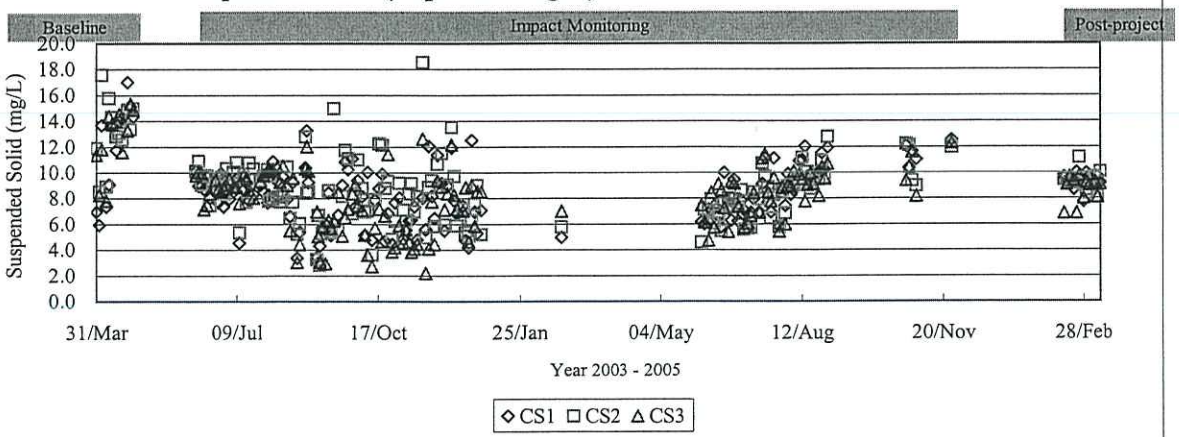
Dissolved Oxygen (Bottom) from CS1 to CS3 for Mid-Ebb Tide



Turbidity (Depth Averaged) from CS1 to CS3 for Mid-Ebb Tide



Suspended Solid (Depth Averaged) from CS1 to CS3 for Mid-Ebb Tide



Appendix G Averages and Ranges of Dissolved Oxygen, Turbidity & Suspended Solids

Dissolved Oxygen (Surface & Middle) mg/L												
Baseline	CS1	CS2	CS3	CS's	SR6	SR7	SR10	SR11	SR12	SR14	SR15	SR's
Maximum	8.8	9.0	9.4	9.4	8.3	9.3	9.6	9.2	9.6	9.7	9.3	9.7
Minimum	5.0	5.0	5.3	5.0	5.0	5.1	5.1	5.0	4.8	4.8	5.1	4.8
Average	7.0	7.1	7.3	7.1	7.0	7.2	7.2	7.2	7.3	7.2	7.3	7.2
Impact (Dry Season)												
Maximum	8.1	8.2	8.2	8.2	8.5	8.2	7.9	8.1	7.9	8.5	8.0	8.5
Minimum	5.4	5.6	5.6	5.4	5.3	5.4	5.1	5.4	5.5	5.4	5.3	5.1
Average	6.5	6.7	6.6	6.6	6.6	6.7	6.5	6.7	6.6	6.6	6.6	6.6
Impact (Wet Season)												
Maximum	8.8	9.7	11.1	11.1	8.3	9.3	11.0	10.6	11.4	10.5	10.0	11.4
Minimum	4.0	3.9	3.9	3.9	4.3	4.6	4.4	4.6	4.6	4.6	4.6	4.3
Average	5.7	6.0	6.1	5.9	5.6	6.0	6.2	6.4	6.5	6.4	6.0	6.2
Post-project												
Maximum	8.6	9.7	8.8	9.7	9.3	9.8	8.7	9.2	8.9	8.8	8.7	9.8
Minimum	5.5	5.6	6.0	5.5	5.7	5.9	5.5	5.6	5.7	5.7	5.7	5.5
Average	6.8	6.9	6.9	6.9	6.8	7.2	6.7	6.8	6.8	6.8	6.8	6.8

Dissolved Oxygen (Bottom) mg/L												
Baseline	CS1	CS2	CS3	CS's	SR6	SR7	SR10	SR11	SR12	SR14	SR15	SR's
Maximum	8.2	8.5	8.9	8.9	8.7	8.7	8.5	9.5	9.1	9.9	8.5	9.9
Minimum	5.1	5.1	5.1	5.1	5.1	4.9	5.3	4.9	5.5	4.8	5.2	4.8
Average	6.9	7.1	7.3	7.1	7.1	7.2	7.1	7.0	7.2	7.2	7.2	7.2
Impact (Dry Season)												
Maximum	7.6	7.8	8.0	8.0	8.0	8.2	7.6	7.9	7.8	8.1	7.9	8.2
Minimum	5.0	5.3	5.4	5.0	5.6	5.4	5.2	5.4	5.4	5.4	5.4	5.2
Average	6.3	6.5	6.5	6.4	6.5	6.6	6.5	6.6	6.5	6.5	6.4	6.5
Impact (Wet Season)												
Maximum	6.8	7.5	7.3	7.5	7.0	8.2	8.7	9.4	8.2	9.7	7.2	9.7
Minimum	2.1	2.4	2.3	2.1	2.7	3.6	2.2	2.2	2.6	3.0	2.3	2.2
Average	4.9	5.0	4.6	4.8	4.5	5.3	5.2	5.3	5.4	5.4	4.6	5.1
Post-project												
Maximum	7.8	8.3	8.4	8.4	8.3	9.0	8.3	8.8	8.5	8.5	8.1	9.0
Minimum	5.4	5.7	5.6	5.4	5.5	5.6	5.6	5.7	5.6	5.6	5.7	5.5
Average	6.5	6.5	6.6	6.5	6.5	6.8	6.5	6.6	6.5	6.5	6.5	6.6

Turbidity (Depth Averaged) NTU												
Baseline	CS1	CS2	CS3	CS's	SR6	SR7	SR10	SR11	SR12	SR14	SR15	SR's
Maximum	18.4	17.3	17.7	18.4	17.7	16.3	17.8	17.0	17.2	16.7	17.1	17.8
Minimum	2.0	2.9	1.4	1.4	2.2	1.7	2.2	2.4	2.0	2.2	2.3	1.7
Average	8.3	8.5	7.5	8.1	9.1	8.5	8.1	8.1	8.0	8.6	8.0	8.4
Impact												
Maximum	17.0	16.1	15.4	17.0	15.2	15.2	16.9	13.5	14.1	14.2	15.1	16.9
Minimum	1.0	1.0	0.5	0.5	0.9	1.2	1.0	1.1	1.0	0.8	0.9	0.8
Average	6.0	6.3	5.9	6.1	6.6	5.9	5.8	6.2	6.0	5.9	6.8	6.2
Post-project												
Maximum	10.7	9.5	10.7	10.7	10.0	10.1	10.2	9.9	10.5	9.5	9.6	10.5
Minimum	4.7	4.1	4.0	4.0	4.3	4.4	3.4	2.2	3.0	3.4	3.7	2.2
Average	7.0	7.0	6.9	7.0	6.9	6.8	6.2	6.1	5.9	6.3	6.5	6.4

Suspended Solids (Depth Averaged) mg/L												
Baseline	CS1	CS2	CS3	CS's	SR6	SR7	SR10	SR11	SR12	SR14	SR15	SR's
Maximum	18.1	17.6	17.3	18.1	16.9	16.9	16.3	16.5	17.1	19.0	18.1	19.0
Minimum	5.9	5.3	5.9	5.3	7.2	6.6	3.4	6.4	7.3	5.0	6.9	3.4
Average	11.4	12.4	12.1	12.0	13.6	13.1	12.2	12.9	13.2	13.1	13.1	13.0
Impact												
Maximum	17.3	18.5	12.8	18.5	13.9	14.4	13.6	14.1	14.3	12.8	16.3	16.3
Minimum	1.9	2.8	2.2	1.9	2.0	2.4	2.2	1.9	2.4	2.2	3.3	1.9
Average	8.1	8.4	7.8	8.1	8.3	8.0	8.1	7.9	8.0	8.0	8.5	8.1
Post-project												
Maximum	10.3	11.2	10.5	11.2	10.6	10.1	11.1	10.0	10.2	10.4	10.2	11.1
Minimum	7.7	8.1	6.8	6.8	7.8	6.2	5.0	4.2	4.0	4.7	6.9	4.0
Average	9.4	9.4	8.8	9.2	9.1	9.0	9.3	7.9	7.9	8.1	8.9	8.6

Appendix H Event/Action Plans

Exceedance	ET Leader	IEC	Engineer	Contractor
Action level exceeded on one sampling day	Verbally inform the Contractor, and IEC. Repeat in-situ measurement to confirm findings; Identify source(s) of impact; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC, Engineer and Contractor; Repeat measurement on next day of exceedance.	Provide feedback to the Engineer on the remedial actions proposed by the ET / Contractor Advise Engineer on the effectiveness of the proposed remedial measures Verify the implementation of the remedial measures	Discuss with Contractor the proposed mitigation measures; Make agreement on the mitigation measures to be implemented; Assess the effectiveness of the implemented mitigation measures.	Inform the Engineer and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Propose and discuss mitigation measures with Engineer; Implement the agreed mitigation measures.
Action level exceeded on more than one consecutive sampling day	Repeat in-situ measurements to confirm findings; Identify source(s) of impact; Inform Contractor and IEC; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measure with IEC, Engineer and Contractor; Ensure mitigation measures are implemented; Prepare to increase the monitoring frequency to daily; Repeat measurement on next day of exceedance.	Provide feedback to the Engineer on the remedial actions proposed by the ET / Contractor Advise Engineer on the effectiveness of the proposed remedial measures Verify the implementation of the remedial measures	Discuss with ET and Contractor on the proposed mitigation measures; Make agreement on the mitigation measures to be implemented; Assess the effectiveness of the implemented mitigation measures.	Inform the Engineer and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Propose mitigation measures to Engineer within 3 working days and discuss with ET and Engineer; Implement the agreed mitigation measures.

Exceedance	ET Leader	IEC	Engineer	Contractor
Limit level exceeded on one sampling day	Verbally inform the Contractor, IEC and the EPD of the exceedance; Repeat in-situ measurement to confirm findings; Identify source(s) of impact; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measure with IEC, Engineer and Contractor; Ensure mitigation measures are implemented; Increase the monitoring frequency to daily until no exceedance of Limit level.	Provide feedback to the Engineer on the remedial actions proposed by the ET / Contractor Advise Engineer on the effectiveness of the proposed remedial measures Verify the implementation of the remedial measures	Discuss with Contractor on the proposed mitigation measures; Request Contractor to critically review the working methods; Make agreement on the mitigation measures to be implemented; Assess the effectiveness of the implemented mitigation measures.	Inform the Engineer and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Propose mitigation measures to Engineer within 3 working days and discuss with Engineer; Implement the agreed mitigation measures.
Limit level exceeded by more than one consecutive sampling day	Repeat in-situ measurement to confirm findings; Identify source(s) of impact; Inform Contractor, IEC and EPD; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measure with IEC, Engineer and Contractor; Ensure mitigation measures are implemented; Increase the monitoring frequency to daily until no exceedance of Limit level for two consecutive days.	Provide feedback to the Engineer on the remedial actions proposed by the ET / Contractor Advise Engineer on the effectiveness of the proposed remedial measures Verify the implementation of the remedial measures	Discuss with Contractor on the proposed mitigation measures; Request Contractor to critically review the working methods; Make agreement on the mitigation measures to be implemented; Assess the effectiveness of the implemented mitigation measures; Consider and instruct, if necessary, the Contractor to slow down or to stop all or part of the marine works until no exceedance of the Limit Level.	Inform the Engineer and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Propose mitigation measures to Engineer within 3 working days and discuss with Engineer; Implement the agreed mitigation measures.. As directed by the Engineer, to slow down or to stop all or part of the marine work

Appendix I: Summary of EMIS

Mitigation Measures and their Implementation

EM&A Log Ref.	Mitigation Measures	Implementation Status
	MITIGATION MEASURES FOR BOTH GRAB DREDGER AND TSHD OPTIONS	
A1	No dredging should be carried out at Working Zone BCs from February to April.	C
A2	Vessel route between the dredging site and the disposal sites should avoid the Finless Porpoise habitat area and be subject to a maximum speed limit of 10 knots in southern Lamma waters as indicated in Figure B3 (Annex B of EM&A Manual).	C
A3	The number of dredgers and operation conditions specified in the applicable CNPs should be strictly followed. In applying for the CNPs, it should be ensured that the number of dredgers and operation conditions are compatible with the recommendations of this EIA.	C
A4	The grab dredger option and TSHD option should not be operated concurrently.	C
	MITIGATION MEASURES FOR TSHD OPTION ONLY	
B1	Dredging works should be carried out in phases in accordance with the programme, number of dredgers and maximum dredging rates specified in Table B4 (Annex B of EM&A Manual).	C
B2	There should not be more than one TSHD operating concurrently at any time.	N/A
	MITIGATION MEASURES FOR GRAB DREDGER OPTION ONLY	
C1	Dredging works should be carried out in phases in accordance with the programme, number of dredgers and maximum dredging rates specified in the latest dredging schedule.	C
C2	Each grab dredger to be deployed should have a grab capacity of no less than 8 m^3.	C
C3	Cage-type silt curtains as illustrated in Figure B1 (Annex B of EM&A Manual) should be deployed for grab dredgers. The silt curtains should be properly maintained during the dredging period.	C
C4	There should be no more than 5 grab dredgers operating concurrently at any time.	C
	GOOD SITE PRACTICE	
D1	Daily dredging volume should be spread as evenly as possible over the 24 hour period whenever practical. Special care should be taken during lowering and lifting grabs to minimize unnecessary disturbance to the seabed.	C
	Vessels used should have adequate clearance of the seabed.	C
	Barges should be fitted with tight fitting seals to their bottom openings to prevent leakage of material.	C
	Grabs should be tightly closed and hoist speed is suitably low.	C
	Barges should not be filled to a level which will cause overflow of materials during loading and transportation.	C

EM&A Log Ref.	Mitigation Measures	Implementation Status
D2	The vessel operators should be fully briefed on the following: • Possible presence of dolphins and porpoises in the vicinity of the Study Area and along routes to the Project Area; • Rules for safe vessel operation around cetaceans; • Slowing to 10 knots in the presence of cetaceans within the area marked on Figure B3 (Annex B of EM&A Manual); and • The dumping of chemicals, rubbish, oils etc into the waters	C

Remarks:

C - Compliance with mitigation measure
NC - Non-compliance with mitigation measure
N/A - Not Applicable