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TEST REPORT

Kaden Construction Limited

CONTRACT NO. DC/2007/18

**YUNG SHUE WAN AND
SOK KWU WAN VILLAGE SEWERAGE,
STAGE 1 WORKS**

**QUARTERLY EM&A
SUMMARY REPORT NO.3**

(DECEMBER 2008 TO FEBRUARY 2009)

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Scott Wilson CDM Joint Venture

Chief Engineer/Harbour Area Treatment Scheme
Drainage Services Department
5/F Western Magistracy
2A Pok Fu Lam Road
Hong Kong

Your reference:

Our reference:

05117/6/10/324501

Date:

14 May 2009

Attention: Mr. C K Au

BY FAX ONLY

Dear Sir

Agreement No. CE20/2005 (DS)
Outlying Islands Sewerage Stage 1 Phase 1 Part 2 and Phase 2
Yung Shue Wan and Sok Kwu Wan Sewerage, Sewage Treatment and Disposal – Design and Construction
Quarterly EM&A Summary Report No. 3 (December 2008 to February 2009)

I refer to the Environmental Permit (EP-281/2007) and the email from the environmental team, ETS-Testconsult Limited with the revised report, dated 14 May 2009. I do not have further comment and have verified the captioned report.

Yours faithfully
SCOTT WILSON CDM JOINT VENTURE



Rodney Ip

ANCP/anep

cc Kaden Construction Ltd (Attn: Mr Stephen Leung)
ETS-Testconsult (Attn: Ms Linda Law)
ER/LAMMA (Attn: Mr Ian Jones)
CDM (Attn: Mr Mark Sin)



| TABLE OF CONTENTS | | Page |
|--------------------------|--|-------|
| EXECUTIVE SUMMARY | | |
| 1.0 | INTRODUCTION | 1 |
| 2.0 | PROJECT INFORMATION | 1 |
| | 2.1 Background | 1 |
| | 2.2 Site Description | 1 |
| | 2.3 Construction Programme | 1 |
| | 2.4 Project Organization and Management Structure | 1 |
| | 2.5 Contact Details of Key Personnel | 1 – 2 |
| | 2.6 Construction Progress in this quarter | 2 |
| 3.0 | SUMMARY OF EM&A REQUIREMENTS | |
| | 3.1 EM&A Programme | 2 |
| | 3.2 Monitoring Stations and Parameters | 2 |
| | 3.3 Monitoring Methodology and Calibration Details | 2 |
| | 3.4 Environmental Quality Performance Limits (Action/Limit Levels) | 2 |
| | 3.5 Environmental Mitigation Measures | 2 |
| 4.0 | MONITORING RESULTS | |
| | 4.1 Air Quality | 2 – 3 |
| | 4.2 Noise | 3 |
| 5.0 | INSPECTION RESULTS | |
| | 5.1 Summary of site inspection findings and Action(s) taken by Kaden and ET in this quarter | 3 – 5 |
| | 5.2 Implementation Status of Environmental Mitigation Measures | 5 – 6 |
| | 5.3 Status of Environmental Licensing and Permitting | 6 |
| | 5.4 Advice on Solids and Liquid Waste Management Status | 6 – 7 |
| 6.0 | ECOLOGY | 7 |
| 7.0 | ARCHAEOLOGY AND CULTURAL HERITAGE | 7 |
| 8.0 | NON-COMPLIANCE OF THE ENVIRONMENTAL QUALITY PERFORMANCE LIMITS | |
| | 8.1 Summary of Non-compliance | 7 |
| | 8.2 Review of the Reasons for and the Implications of Non-compliance | 7 |
| | 8.3 Summary of Actions Taken | 7 |
| | 8.4 Summary of Environmental Complaint, Notification of Summons and Successful Prosecutions Handling | 7 |
| 9.0 | COMMENTS, CONCLUSION AND RECOMENDATION | 8 |
| APPENDIX | | |
| A | Organization Chart and Lines of Communication | |
| B1 | Impact Air Quality Monitoring Results in this Quarter | |
| B2 | Graphical Plots of Impact Air Quality Monitoring Data in this Quarter | |
| C1 | Impact Noise Monitoring Results in this Quarter | |
| C2 | Graphical Plots of Impact Noise Monitoring Data in this Quarter | |
| D | Environmental Quality Performance (Action / Limit Levels) | |
| E | Event-Action Plans | |
| F | Construction Programme | |
| G | Summary of Implementation Status of Mitigation Measures during Site Inspection | |



Figures

| | |
|--------------|--|
| 2005/C1/2004 | Village Sewerage Layout Plans – Sok Kwu Wan (Sheet 1 of 3) |
| 2005/C1/2005 | Village Sewerage Layout Plans – Sok Kwu Wan (Sheet 2 of 3) |
| 2005/C1/2006 | Village Sewerage Layout Plans – Sok Kwu Wan (Sheet 3 of 3) |

Tables

| | |
|-----|---|
| 2.1 | Contact Details of Key Personnel |
| 4.1 | Summary of Number of Exceedances for 1-hr and 24-hr TSP Monitoring |
| 4.2 | Summary of Impact Monitoring results of Noise Daytime Monitoring |
| 5.1 | Summary of Site Inspection Findings and Action(s) taken by Kaden and ET |
| 5.2 | Summary of environmental licensing and permit status |
| 5.3 | Offsite Waste Disposal in this Quarter |

EXECUTIVE SUMMARY

This is the third Quarterly Environmental Monitoring and Audit (EM&A) Summary Report prepared by ETS-Testconsult Ltd (ET) for the "Contract No. DC/2007/18 Yung Shue Wan and Sok Kwu Wan Village Sewerage, Stage 1 Works" (the Project) under the requirements and specifications of "the Environmental Permit (Application No. AEP-281/2007)" (the EP) and "the Final EM&A Manual – Outlying Islands Sewerage Stage 1 Phase 2 Package J – Sok Kwu Wan Sewage Collection, Treatment and Disposal Facilities" (the EM&A Manual).

This report documents the findings of EM&A Works conducted during the construction phase of the Project from December 2008 to February 2009.

Construction Progress

The major construction works in this quarter were as below:

| | |
|---------------|--|
| December 2008 | <ul style="list-style-type: none"> • Excavation of inspection pits; • Sewer construction including trench excavation; • Trenchless works; • PE pipe laying; and • Backfilling and reinstatement of hard pavement. |
| January 2009 | <ul style="list-style-type: none"> • Excavation of inspection pits; • Sewer construction including trench excavation; • Trenchless works; • PE pipe laying; and • Backfilling and reinstatement of hard pavement. |
| February 2009 | <ul style="list-style-type: none"> • Excavation of inspection pits; • Sewer construction including trench excavation; • Trenchless works; • PE pipe laying; and • Backfilling and reinstatement of hard pavement. |

Environmental Monitoring Progress

The summary of the monitoring activities in this quarter is listed below:

- Noise Monitoring (Day-time): 13 Occasions at 4 designated locations;
- 24-hour TSP Monitoring: 16 Occasions at 3 designated locations;
- 1-hour TSP Monitoring: 48 Occasions at 3 designated locations.

Impact Air Quality Monitoring

No exceedances of Action and Limit levels were recorded for 24-hr and 1-hr TSP monitoring in the quarter.

Impact Noise Monitoring

No exceedance of Action and Limit Level were recorded in this quarter.

Environmental Complaints, Notifications of Summons and Successful Prosecutions

No environmental complaints, notifications of summons and successful prosecutions were received in this quarter.

Internet Website

This Quarterly EM&A Summary Report can be accessed on the web at <http://www.skwsewer.com>.



1.0 INTRODUCTION

The Customer, Kaden Construction Limited (Kaden), appointed Environmental Team of ETS-Testconsult Limited to undertake the environmental impact monitoring for "Contract No. DC/2007/18 Yung Shue Wan and Sok Kwu Wan Village Sewerage, Stage 1 Works" (the Project) under the requirements and specifications of "the Environmental Permit (Application No. AEP-281/2007)" (the EP) and "the Final EM&A Manual – Outlying Islands Sewerage Stage 1 Phase 2 Package J – Sok Kwu Wan Sewage Collection, Treatment and Disposal Facilities" (the EM&A Manual).

This Quarterly EM&A Summary Report documented the findings of EM&A Works conducted during the construction phase of the Project in December 2008 to February 2009.

2.0 PROJECT INFORMATION

2.1 Background

Under this Project, Kaden is required to construct village sewerage in Yung Shue Wan and Sok Kwu Wan, Lamma Island.

Village sewage works are undertaken in this Project. These will comprise laying approximately 1.4km of sewerage pipes from 220mm to 350mm diameter in Sok Kwu Wan Village. These works are carried out under a conventional Design, Bid, Build (DBB) contract, entirely separate from the single Design, Build and Operate (DBO) contract for Sewage Treatment Works (STW) construction.

As the main Contractor of the captioned project contracted by, Kaden will follow the environmental monitoring recommendation stated in the EM&A Manual that was prepared with reference to the EIA Report (Register No.: AEIAR-075/2003).

According to the EP and the EM&A Manual, the environmental programme is mainly focused on the construction activities of this Project in Sok Kwu Wan. At the same time, all air quality and noise monitoring stations proposed in the EM&A Manual are located in Sok Kwu Wan. The baseline report is prepared in accordance with EP (No. EP-281/2007) for the Designated Project "Outlying Islands Sewerage Stage 1 Phase 2 – Sok Kwu Wan Sewage Collection, Treatment and Disposal Facilities" and the EM&A Manual.

2.2 Site Description

The general layout plan of the project in Sok Kwu Wan is shown in Drawing No. 2005/C1/2004, 2005/C1/2005 and 2005/C1/2006.

Surrounding the construction site, there are air and noise sensitive receivers at Chung Mei Village, Sok Kwu Wan and Ta Shui Wan.

2.3 Construction Programme

The construction programme is shown in Appendix F.

2.4 Project Organization and Management Structure

The organization chart with respect to the on-site environmental management and monitoring program are shown in Appendix A.

2.5 Contact Details of Key Personnel

The key personnel contact names and telephone numbers, and construction programme are shown in table 2.1.



Table 2.1 Contact Details of Key Personnel

| Organization | Project Role | Key Staff | Tel. No. | Fax No. |
|------------------------|-----------------------------------|------------------|-----------|-----------|
| Scott Wilson CDM JV | Engineer Representative | Ir Ian J Jones | 2982 0240 | 2982 4129 |
| Scott Wilson CDM JV | Independent Environmental Checker | Mr. Rodney Ip | 2410 3750 | 2428 9922 |
| Kaden Construction Ltd | Contractor | Ir Stephen Leung | 2454 9102 | 2465 1207 |
| ETS-Testconsult Ltd | Environmental Team | Mr. C L Lau | 2946 7791 | 2695 3944 |

3.0 SUMMARY OF EM&A REQUIREMENTS

3.1 EM&A Programme

In accordance with Section 5 of the EP, EM&A programme as set out in the EM&A Manual is required to be implemented. In accordance with the EM&A Manual, environmental monitoring of air quality and noise are required for the Project. The EM&A requirement for each parameter are described in details in subsequent sections, including:

- All monitoring parameters;
- Action and Limit levels for all environmental parameters;
- Event-Action Plans;
- Environmental mitigation measures, as recommended in the project EIA study report;
- Environmental requirements in contract documents.

The implementation status of environmental mitigation measures is summarized in Section 5.2 of the Report.

3.2 Monitoring Stations and Parameters

The EM&A Manual designates several locations to monitor environmental impacts in terms of air quality and noise due to the Project. The description and detailed locations of monitoring stations for air quality and noise are shown in Figures 2005/C1/2004, 2005/C1/2005 and 2005/C1/2006 and relevant sections of this Report.

3.3 Monitoring Methodology and Calibration Details

All monitoring works were conducted and monitoring equipment was calibrated in accordance with the EM&A Manual.

3.4 Environmental Quality Performance Limits (Action/Limit Levels)

The environmental quality performance limits, i.e. Action/Limit Levels (AL Levels) were derived from the baseline monitoring results. If the measured environmental quality parameters exceed the AL Levels, the respective action plan will be implemented. The AL Levels for each monitoring parameter are given in Appendix D. The event action plan is given in Appendix E.

3.5 Environmental Mitigation Measures

Relevant mitigation measures were recommended in the EM&A Manual for the Contractor to implement. A list of mitigation measures is given in Appendix G.

4.0 MONITORING RESULTS

4.1 Air Quality

In accordance with the EM&A Manual, 1-hr and 24-hr TSP air quality monitoring are to be conducted three times and one time per six days correspondingly. In the reporting quarter, all the 1-hr and 24-hr TSP monitoring results complied with the AL Levels. The monitoring trends of air quality during the reporting quarter are given in Appendix B2.



Major dust sources in the Project were excavation works and vehicle used for moving sand, aggregates and construction waste.

Table 4.1 presents the number of exceedances recorded in each month of the reporting quarter.

Table 4.1 Summary of Number of Exceedances for 1-hr and 24-hr TSP Monitoring

| Monitoring Parameter | Level of Exceedance | December 2008 | January 2009 | February 2009 |
|----------------------|-------------------------|---------------|--------------|---------------|
| 24-hr TSP | No of monitoring events | 6 | 5 | 5 |
| | Action Level | 0 | 0 | 0 |
| | Limit Level | 0 | 0 | 0 |
| | Total | 0 | 0 | 0 |
| 1-hr TSP | No of monitoring events | 18 | 15 | 15 |
| | Action Level | 0 | 0 | 0 |
| | Limit Level | 0 | 0 | 0 |
| | Total | 0 | 0 | 0 |

4.2 Noise

Noise monitoring is required to be conducted at least once per week. Only daytime noise was monitored in the reporting quarter. All recorded noise levels complied with the AL Levels. The registered noise levels in the past three months are plotted in Appendix C2.

Table 4.2 presents the number of exceedances recorded in each month of the reporting quarter.

Table 4.2 Summary of Impact Monitoring results of Noise Daytime Monitoring

| Level of Exceedance | December 2008 | January 2009 | February 2009 |
|-------------------------|---------------|--------------|---------------|
| No of monitoring events | 5 | 4 | 4 |
| Action Level | 0 | 0 | 0 |
| Limit Level | 0 | 0 | 0 |
| Total | 0 | 0 | 0 |

The major noise sources in the reporting quarter were excavation works and vehicle used for moving sand, aggregates and construction waste near the site egress.

In this quarter, no exceedances of Action Level were recorded in this quarter. Besides, no exceedances in Limit Level were recorded according to the results from Day-time noise monitoring.

5.0 INSPECTION RESULTS

5.1 Summary of site inspection findings and Action(s) taken by Kaden and ET in this quarter

ET conducted weekly site inspections to monitor the Contractor's implementation of environmental mitigation measures. After each site inspection, the Contractor was notified of ET's observations and recommendations and then the Contractor will arrange related remedial works.

Summary of the site inspection findings in this quarter is shown in Table 5.1.



Table 5.1 Summary of Site Inspection Findings and Action(s) taken by Kaden and ET

| Item | Aspect | Finding | Action(s) to be taken by the Contractor | ET Verification |
|----------------------|---------------|---|--|---|
| December 2008 | | | | |
| 1 | Air | Stockpile of excavated materials at S51 were found dry and without cover during the weekly site inspections on 15/12/08 and 24/12/08. | The Contractor replied to water the stockpiles and cover them when not in use. | During the weekly site inspection on 30/12/08, the stockpiles were covered by tarpaulin sheets. |
| 2 | Noise | Portable noise barriers at S83 were found not completely enclosed the generator during the weekly site inspection on 15/12/08. | The Contractor replied to ensure all noise barriers are completely enclosed the PME. | During the subsequent weekly site inspection on 24/12/08, the portable noise barriers were found removed since the captioned site activities were finished. |
| 3 | Water | The discharge water from the sedimentation tank at S165 was observed to be grey during the weekly site inspection on 15/12/08. | The Contractor replied to improve the sedimentation facilities such as increase the retention time for suspended solids to settle. | During the next weekly site inspection on 24/12/08, the discharge water was observed to be clear and the sedimentation facilities were found improved. |
| 4 | Water | Mud and sand were found accumulated in the u-channel at S40 during the weekly site inspection on 15/12/08. | The Contractor replied to clean up the accumulated mud and sand. | During the subsequent weekly site inspection on 24/12/08, the mud and sand accumulated in the u-channel were cleaned up. |
| 5 | Water | Stagnant water was noted at S61 & S62 during the weekly site inspection on 15/12/08. | The Contractor replied to drain the stagnant water or apply insecticide to avoid mosquito breeding. | During the subsequent weekly site inspection on 24/12/08, no stagnant water was noted at S61 & S62. |
| 6 | Water | Wastewater was observed directly discharged at S33 during the weekly site inspection on 15/12/08. | The Contractor replied to divert and treat the wastewater in sedimentation tank before discharge. | During the subsequent weekly site inspection on 24/12/08, the works at S33 was completed and no wastewater was discharged. |
| 7 | Chemical | Oil tank near S165 was found without drip tray during the weekly site inspection on 03/12/08. | The Contractor replied to provide drip tray for all chemical containers. | During the subsequent weekly site inspection on 09/12/08, a drip tray was provided for the oil tank. |
| 8 | Chemical | Oil leakage was noted from air compressor at S137-S139 during the weekly site inspection on 15/12/08. | The Contractor replied to clean up the leak oil and treat as chemical waste. | During the subsequent weekly site inspection on 24/12/08, the leak oil was cleaned up and no oil leakage was noted. |
| 9 | Site Practice | Rubbish and construction waste were disposed of at S133 & S134 and S43 during the weekly site inspection on 30/12/08. | The Contractor replied to clean up the rubbish and maintain the site tidy. | Since the finding was observed at the last weekly site inspection in this reporting month, it will be verified in the coming month. |



| Item | Aspect | Finding | Action(s) to be taken by the Contractor | ET Verification |
|----------------------|---------------|---|---|---|
| January 2009 | | | | |
| 1 | Air | Stockpile of C&D materials at S83 was uncovered during the weekly site inspection on 15/01/09. | The Contractor replied to cover the C&D material when not in use. | During the subsequent weekly site inspection on 21/01/09, the stockpile was removed and no further action was required. |
| 2 | Water | Sewage was noted discharged without passing through the sedimentation tank at S63 during the weekly site inspection on 15/01/09. | The Contractor replied to re-install the sedimentation tank properly to divert all sewage to sedimentation tank before discharge. | During the subsequent weekly site inspection on 21/01/09, all sewage was treated in sedimentation tank before discharge. |
| 3 | Water | The sedimentation facilities at S165 should be further improved to enhance its efficiency during the weekly site inspection on 15/01/09. | The Contractor replied to improve / modify the setup of sedimentation facilities at S165. | During the subsequent weekly site inspection on 21/01/09, the construction works at S165 have finished and the sedimentation tank was found not in use. |
| 4 | Site Practice | Follow up action of outstanding finding in the previous month, rubbish and construction waste at S133, S134 and S43 were collected during the weekly site inspection on 05/01/09. | Since the finding was improved, no further action was required by the Contractor. | Since the finding was improved, no further ET verification was required. |
| 5 | Site Practice | Idle steel bar and other metallic material were disposed of at S139-S40 during the weekly site inspection on 05/01/09. | The Contractor replied to collect and store the idle C&D material properly. | During the subsequent weekly site inspection on 15/01/09, the unused materials were collected and stored properly. |
| 6 | Site Practice | Unused wooden boards were disposed of at S19 during the weekly site inspection on 05/01/09. | The Contractor replied to collect and store the wooden boards properly. | During the subsequent weekly site inspection on 15/01/09, the wooden boards at S19 stored properly. |
| February 2009 | | | | |
| 1 | Water | The desilting plate inside the sedimentation tank at S165 was found to be not large enough to provide sufficient retention time to settle suspended matters before discharge during the weekly site inspection on 17/02/09. | The Contractor replied to replace the desilting plate by a larger one and reduce the flow rate in order to provide sufficient retention time to settle suspended matters before discharge.. | During the subsequent weekly site inspection on 23/02/09, the desilting plate was replaced by larger one and the flow rate was reduced. |
| 2 | Site Practice | Unused wooden blocks and plates were found on the ground at S19 and S20 during the weekly site inspection on 17/02/09. | The Contractor replied to collect the unused wooden blocks and plated and reuse / dispose of them properly. | During the subsequent weekly site inspection on 23/02/09, the wooden blocks and plates was collected. |
| 3 | Site Practice | C&D wastes were noted on the ground at S171 during the weekly site inspection on 17/02/09. | The Contractor replied to collect and dispose of the C&D wastes properly | During the subsequent weekly site inspection on 23/02/09, the C&D waste at S171 was collected. |

5.2 Implementation Status of Environmental Mitigation Measures

According to the summary of the weekly site inspections carried out in this quarter, it indicated that site practices of the Kaden were generally undertaken in an environmentally acceptable manner and the overall site environmental performance was satisfactory.



Excavation works and vehicle used for moving sand, aggregates and construction waste were the major dust sources in the Project. Generally, the Contractor implemented adequate dust mitigation measures in this quarter, such as dampening of unpaved areas and fill material prior to handling or delivery and well maintenance of plant and equipment to avoid black smoke emission.

Vehicle traffic and construction activities near the site egress were the major noise sources. The powered mechanical equipment were generally operated and maintained properly.

5.3 Status of Environmental Licensing and Permitting

The status of licences and permits is summarized in Table 5.2.

Table 5.2 Summary of environmental licensing and permit status

| Description | Permit No. | Valid Period | | Section |
|-------------------------|--|--------------|----------------|--|
| | | From | To | |
| Environmental Permit | EP-281/2007 | 29/06/07 | End of Project | Valid |
| Water Discharge Licence | EP890/W2/XD 026 | 23/05/08 | 31/03/12 | Valid Discharge of Industrial Trade Effluent arising from Construction Site to communal storm water drain |
| Notification under APCO | Application had been submitted to EPD on 15 April 2008 | | | |

5.4 Advice on Solids and Liquid Waste Management Status

The Contractor usually disposed of non-inert wastes such as general refuses and materials segregated to Sok Kwu Wan Re-fill Transfer Station (SKWRTS).

Table 5.3 summarizes data on offsite waste disposal in this quarter.

Table 5.3 Offsite Waste Disposal in this Quarter

| Type of Waste | | Quantity | Disposal Location | Cumulative Quantity |
|---------------------|---|----------|-----------------------|---------------------|
| Inert C&D Materials | Total Quantity Generated (in '000m ³) | 0.00533 | | 0.2553 |
| | Broken Concrete (in '000m ³) | 0.0085 | N/A | 0.0085 |
| | Reused in the Contract (in '000m ³) | 0.03 | For Stockpile / Reuse | 0.075 |
| | Reused in other Projects (in '000m ³) | 0 | N/A | 0.09 |
| | Disposal as Public Fill (in '000m ³) | 0.0233 | SKWRTS | 0.0903 |
| C&D Waste | Metals (in '000kg) | 0 | N/A | 0 |
| | Paper/Cardboard Packaging (in '000kg) | 0 | N/A | 0 |
| | Plastics (in '000kg) | 0 | N/A | 0 |
| | Chemical Waste (in '000kg) | 0 | N/A | 0 |
| | Other, e.g. General Refuse (tonne) | 0.16 | SKWRTS | 1.50 |

The Contractor should provide sufficient preventive measures during equipment maintenance works so as to avoid oil leakage on the ground. In the event of any oil leakage, the Contractor should clean up the polluted soil and handle all the materials used for this cleaning works as chemical waste.

The Contractor was reminded to increase the frequency of inspection and cleaning of the site drainage system and desilting facilities. Moreover, the Contractor should apply approved pesticides in the stagnant water ponds.

The Contractor should use suitable containers with proper labels to store chemical wastes in accordance with Code of Practice on the Packaging, Labeling and Storage of Chemical Waste. The Contractor should also advise their workers of the proper procedures in handling the chemical waste. All the trip tickets for chemical waste disposal were properly kept in the site office. No chemical waste disposal was undertaken in this quarter.



All the runoff should be pumped to the desilting facilities to remove suspended solids prior to discharge.

6.0 ECOLOGY

A comprehensive tree survey was carried out by Kaden in mid 2008. The two uncommon tree species (*Celtis timorensis* and *Celtis biondii*) could not be identified on site as per the Figure 4 of the EP. All sewerage works in the concerned areas will however be laid underground in the existing footpaths anyway.

7.0 ARCHAEOLOGY AND CULTURAL HERITAGE

Refer to the Section 9 of EM&A Manual, a watching brief was conducted in Chung Mei, Sok Kwu Wan by Archaeological Assessments Limited on 01 September 2008.

The watching brief took place along the length of sewer trench alignment between manholes MH52 and MH54. In overview, the sewer trench between manholes MH52 and MH54 has seen little or no human activity in the past and can be considered to have no archaeological potential.

8.0 NON-COMPLIANCE OF THE ENVIRONMENTAL QUALITY PERFORMANCE LIMITS

8.1 Summary of Non-compliance

No exceedances of Action and Limit Level of 24-hour and 1-hour TSP monitoring results were recorded during the reporting period.

No exceedance of Action Level of noise monitoring was recorded in this quarter since no complaint on noise issue was received. Besides, no exceedances in Limit Level were recorded according to the results from Day-time noise monitoring..

No evening-time, night-time and holiday noise monitoring were required since no construction works were processed during these periods.

8.2 Review of the Reasons for and the Implications of Non-compliance

Since there were no exceedances on air quality and noise monitoring parameters recorded in this monitoring quarter, the review of the reasons for the non-compliance was not required.

8.3 Summary of Actions Taken

Since no exceedances were recorded, no further actions were required.

8.4 Summary of Environmental Complaint, Notifications of Summons and Successful Prosecutions Handling

No environmental complaints, notifications of summons and successful prosecutions were received in this quarter.

A summary of environmental complaints and prosecutions was given in Table 6.1.

Table 8.1 Summary of Environmental Complaints and Prosecutions

| <i>Period</i> | <i>Complaints logged</i> | <i>Summon served</i> | <i>Successful Prosecution</i> |
|----------------------|--------------------------|----------------------|-------------------------------|
| <i>December 2008</i> | <i>0</i> | <i>0</i> | <i>0</i> |
| <i>January 2009</i> | <i>0</i> | <i>0</i> | <i>0</i> |
| <i>February 2009</i> | <i>0</i> | <i>0</i> | <i>0</i> |
| <i>Cumulative</i> | <i>1</i> | <i>0</i> | <i>0</i> |



9.0 COMMENTS, CONCLUSIONS AND RECOMMENDATION

This report presents the third quarter of the Project. Major site activities were excavation and pipe-laying works. Noise and air quality were the major environmental issues in the Project. Generally, the Contractor implemented most of the mitigation measures to minimize the dust impact.

No exceedances of Action and Limit Level of air quality and noise monitoring were recorded in this quarter.

No environmental complaints, notification of summons and prosecutions with respect to environmental issues were received in this quarter.

According to the ET weekly site inspections carried out in this quarter, it was indicated that site practices of the Contractor were generally undertaken in an environmentally acceptable manner and the overall site environmental performance was up to standard. The Contractor generally implemented sufficient dust mitigation measures.

According to the environmental site inspections performed in this quarter, the following recommendations were provided:

Air Quality

- Ensure the frequency of water spraying on unpaved/unloading areas and stockpiles to be sufficient to suppress the dust sources;
- Undertake water spraying on stockpiling area;
- Provide proper maintenance for the powered mechanical equipment and barges to avoid emission of dark smoke;
- Erect adequate speed limit signs to advise the truck drivers of the speed limit; and
- Implement the dust mitigation measures for the construction activities.

Noise

- Conduct noisy activities at a farther location from the NSRs.

Water Quality

- Provide proper treatment for the wastewater discharged; and
- Remove the stagnant water or provide pesticide for the stagnant water in the permanent desilting chambers, if any.

Chemical and Waste Management

- Remove waste materials from the site to avoid accumulation regularly;
- Handle and store chemical wastes properly;
- Provide and maintain sufficient drip trays for diesel drums, chemical containers, chemical waste storage drums and diesel operated generator set;
- Maintain good housekeeping; and
- Avoid oil being polluted during oil filling and equipment maintenance; hence, properly remove and store the contaminated soil, if any.



Appendix A

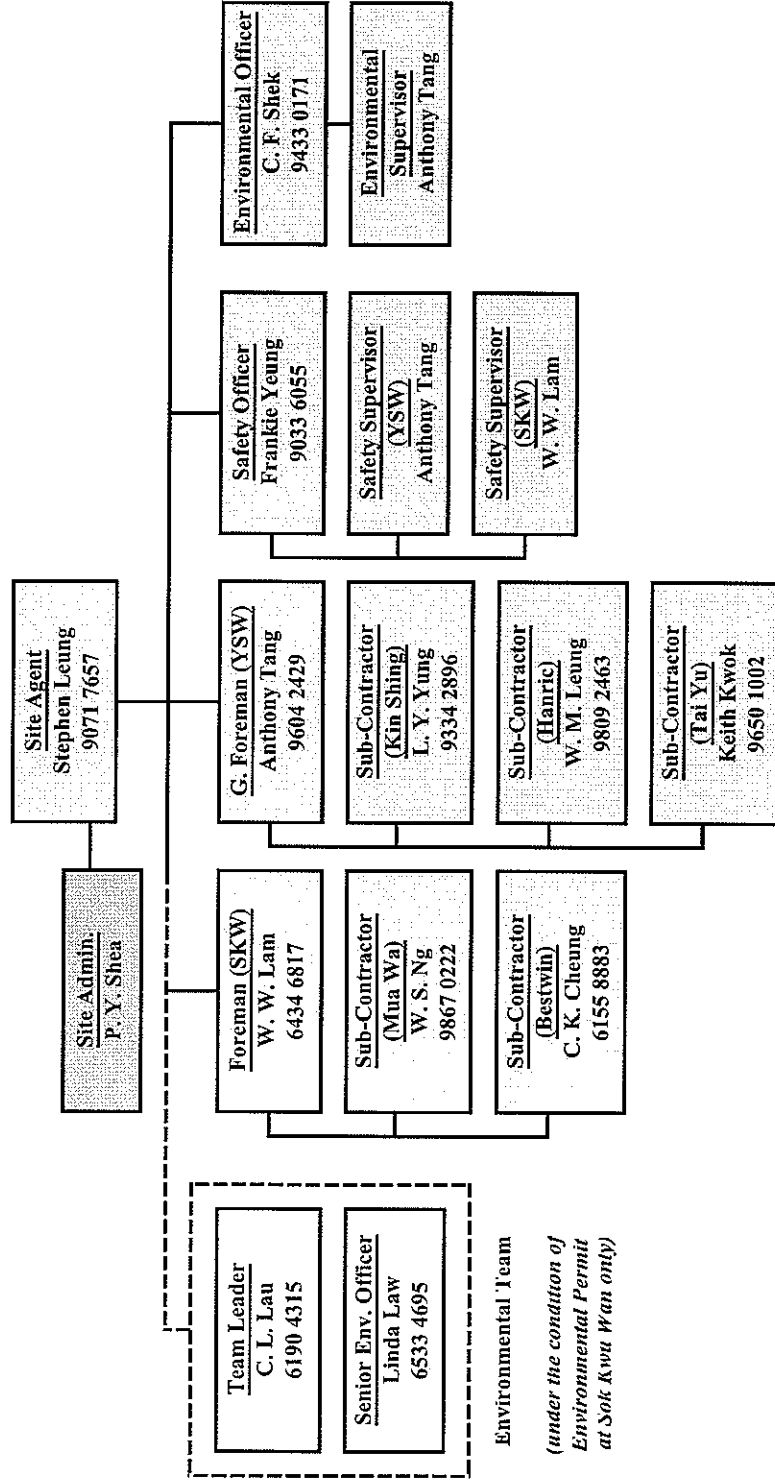
Organization Chart and Lines of Communication

Kaden Construction Limited



DSD Contract No. DC/2007/18
 Yung Shue Wan and Sok Kwu Wan Village Sewerage, Stage 1 Works

Organization Structure for Environmental Management (EMP Rev. 14.00)



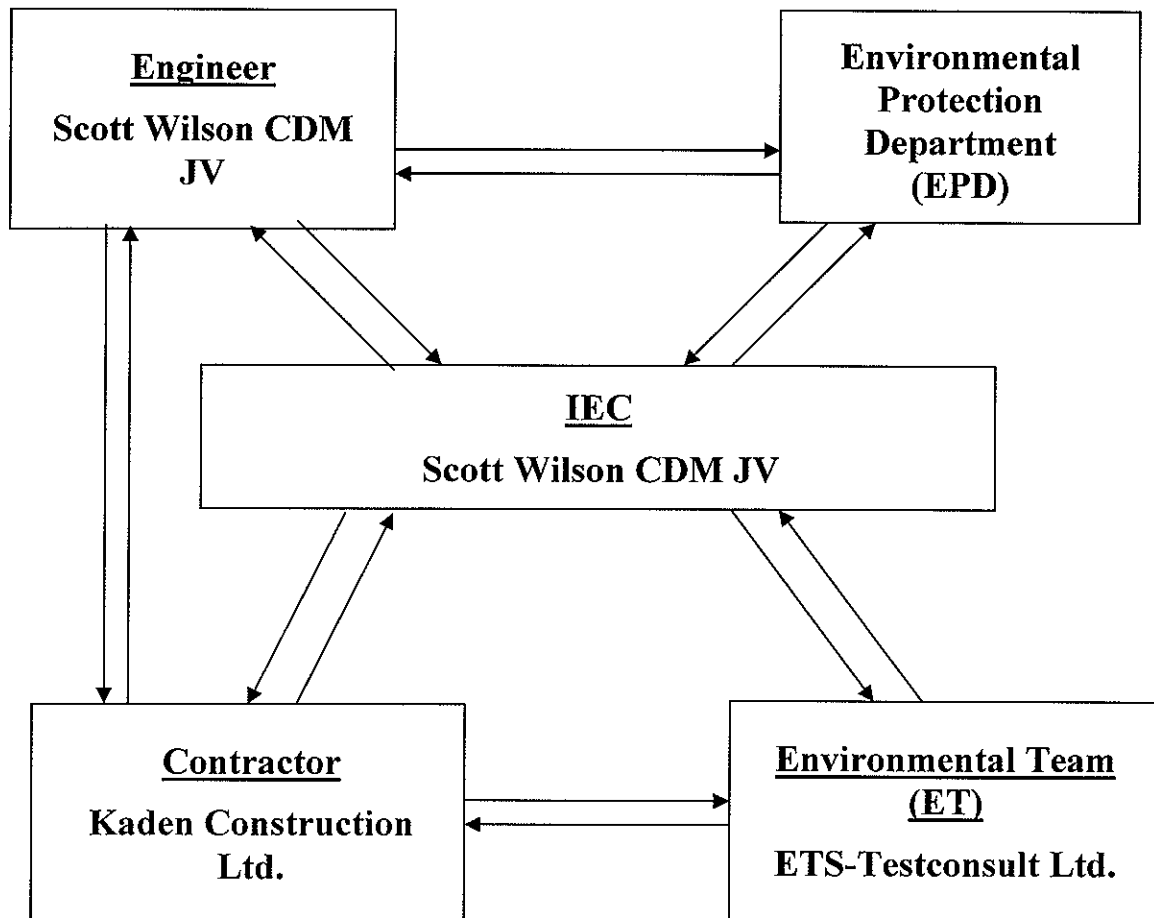
Team Leader
C. L. Lau
6190 4315

Senior Env. Officer
Linda Law
6533 4695

Environmental Team
 (under the condition of
 Environmental Permit
 at Sok Kwu Wan only)



Lines of Communication





Appendix B1

Impact Air Quality Monitoring Results in this Quarter

Summary of 24-hr TSP Monitoring Results

Monitoring Station : AM1

| Date | Start Time | Finish Date | Time | Elapse Time | | Sampling Time (hrs) | Flow Rate (m ³ /min.) | | Average (m ³ /min.) | Filter Weight (g) | | Conc. (µg/m ³) | Weather Condition |
|----------|------------|-------------|-------|-------------|----------|---------------------|----------------------------------|--------|--------------------------------|-------------------|--------|----------------------------|-------------------|
| | | | | Initial | Final | | Initial | Final | | Initial | Final | | |
| 03/12/08 | 13:00 | 04/12/08 | 12:59 | 13463.26 | 13487.25 | 23.99 | 1.1017 | 1.1017 | 1.1017 | 2.7443 | 3.0170 | 172 | Cloudy |
| 09/12/08 | 12:11 | 10/12/08 | 12:11 | 13487.25 | 13511.25 | 24.00 | 1.2016 | 1.2016 | 1.2016 | 2.7270 | 2.8554 | 74 | Fine |
| 15/12/08 | 11:30 | 16/12/08 | 11:30 | 13511.25 | 16535.25 | 24.00 | 1.0926 | 1.0926 | 1.0926 | 2.7311 | 2.9987 | 170 | Fine |
| 19/12/08 | 12:16 | 20/12/08 | 12:16 | 13535.25 | 13559.25 | 24.00 | 1.1173 | 1.1173 | 1.1173 | 2.7402 | 2.9320 | 119 | Sunny |
| 24/12/08 | 12:10 | 25/12/08 | 12:10 | 13559.25 | 13583.25 | 24.00 | 1.1421 | 1.1421 | 1.1421 | 2.7290 | 2.9268 | 120 | Cloudy |
| 30/12/08 | 12:59 | 31/12/08 | 12:59 | 13583.25 | 13607.25 | 24.00 | 1.1173 | 1.1173 | 1.1173 | 2.7233 | 2.8289 | 66 | Cloudy |
| 05/01/09 | 12:15 | 06/01/09 | 12:15 | 13607.25 | 13631.25 | 24.00 | 1.2163 | 1.2163 | 1.2163 | 2.8276 | 2.9811 | 88 | Sunny |
| 09/01/09 | 12:17 | 10/01/09 | 12:17 | 13631.25 | 13655.25 | 24.00 | 1.2163 | 1.2163 | 1.2163 | 2.8312 | 2.9702 | 79 | Sunny |
| 15/01/09 | 11:38 | 16/01/09 | 11:38 | 13655.25 | 13679.25 | 24.00 | 1.1668 | 1.1668 | 1.1668 | 2.7672 | 2.9585 | 114 | Sunny |
| 21/01/09 | 12:21 | 22/01/09 | 12:21 | 13679.25 | 13703.25 | 24.00 | 1.0678 | 1.0678 | 1.0678 | 2.7855 | 2.9208 | 88 | Sunny |
| 30/01/09 | 13:00 | 31/01/09 | 13:00 | 13703.25 | 13727.25 | 24.00 | 1.0431 | 1.0431 | 1.0431 | 2.7843 | 2.9145 | 87 | Sunny |
| 05/02/09 | 12:49 | 06/02/09 | 12:49 | 13727.25 | 13751.25 | 24.00 | 1.1668 | 1.1668 | 1.1668 | 2.7206 | 2.8326 | 67 | Sunny |
| 11/02/09 | 11:55 | 12/02/09 | 11:55 | 13751.25 | 13775.25 | 24.00 | 1.1173 | 1.1173 | 1.1173 | 2.6953 | 2.8090 | 71 | Fine |
| 17/02/09 | 10:54 | 18/02/09 | 10:54 | 13775.25 | 13799.25 | 24.00 | 1.1148 | 1.1148 | 1.1148 | 2.8034 | 2.9198 | 73 | Cloudy |
| 23/02/09 | 12:30 | 24/02/09 | 12:30 | 13799.25 | 13823.25 | 24.00 | 1.1148 | 1.1148 | 1.1148 | 2.8597 | 2.9437 | 52 | Cloudy |
| 27/02/09 | 11:30 | 28/02/09 | 11:30 | 13823.25 | 13847.25 | 24.00 | 1.1148 | 1.1148 | 1.1148 | 2.8650 | 2.9650 | 62 | Cloudy |

Monitoring Station : AM2

| Date | Start Time | Finish Date | Time | Elapse Time | | Sampling Time (hrs) | Flow Rate (m ³ /min.) | | Average (m ³ /min.) | Filter Weight (g) | | Conc. (µg/m ³) | Weather Condition |
|----------|------------|-------------|-------|-------------|----------|---------------------|----------------------------------|--------|--------------------------------|-------------------|--------|----------------------------|-------------------|
| | | | | Initial | Final | | Initial | Final | | Initial | Final | | |
| 03/12/08 | 13:00 | 04/12/08 | 13:00 | 17499.03 | 17523.03 | 24.00 | 1.1436 | 1.1436 | 1.1436 | 2.7546 | 2.9075 | 93 | Cloudy |
| 09/12/08 | 12:15 | 10/12/08 | 12:15 | 17523.03 | 17547.03 | 24.00 | 1.1744 | 1.1744 | 1.1744 | 2.7537 | 2.8380 | 50 | Fine |
| 15/12/08 | 11:35 | 16/12/08 | 11:35 | 17547.03 | 17571.03 | 24.00 | 1.1587 | 1.1587 | 1.1587 | 2.7125 | 2.9411 | 137 | Fine |
| 19/12/08 | 12:18 | 20/12/08 | 12:18 | 17571.03 | 17595.03 | 24.00 | 1.1893 | 1.1893 | 1.1893 | 2.7163 | 2.8854 | 99 | Sunny |
| 24/12/08 | 12:12 | 25/12/08 | 12:11 | 17595.03 | 17619.02 | 23.99 | 1.2200 | 1.2200 | 1.2200 | 2.7461 | 2.9094 | 93 | Cloudy |
| 30/12/08 | 13:00 | 31/12/08 | 13:01 | 17619.02 | 17643.03 | 24.01 | 1.1587 | 1.1587 | 1.1587 | 2.7669 | 2.8752 | 65 | Cloudy |
| 05/01/09 | 12:17 | 06/01/09 | 12:17 | 17643.03 | 17667.03 | 24.00 | 1.2200 | 1.2200 | 1.2200 | 2.8619 | 2.9575 | 54 | Sunny |
| 09/01/09 | 12:21 | 10/01/09 | 12:21 | 17667.03 | 17691.03 | 24.00 | 1.2507 | 1.2507 | 1.2507 | 2.8093 | 2.9477 | 77 | Sunny |
| 15/01/09 | 11:39 | 16/01/09 | 11:39 | 17691.03 | 17715.03 | 24.00 | 1.2200 | 1.2200 | 1.2200 | 2.7846 | 2.9758 | 109 | Sunny |
| 21/01/09 | 12:18 | 22/01/09 | 12:18 | 17715.03 | 17739.03 | 24.00 | 1.0973 | 1.0973 | 1.0973 | 2.8303 | 2.9820 | 96 | Sunny |
| 30/01/09 | 13:00 | 31/01/09 | 13:00 | 17739.03 | 17763.03 | 24.00 | 1.1280 | 1.1280 | 1.1280 | 2.7912 | 2.9503 | 98 | Sunny |
| 05/02/09 | 12:48 | 06/02/09 | 12:48 | 17763.03 | 17787.03 | 24.00 | 1.1587 | 1.1587 | 1.1587 | 2.7019 | 2.8407 | 83 | Sunny |
| 11/02/09 | 12:02 | 12/02/09 | 12:02 | 17787.03 | 17811.03 | 24.00 | 1.0973 | 1.0973 | 1.0973 | 2.7277 | 2.8946 | 106 | Fine |
| 17/02/09 | 10:59 | 18/02/09 | 11:00 | 17811.03 | 17835.04 | 24.01 | 1.1507 | 1.1507 | 1.1507 | 2.8040 | 2.9468 | 86 | Cloudy |
| 23/02/09 | 12:35 | 24/02/09 | 12:35 | 17835.04 | 17859.04 | 24.00 | 1.2109 | 1.2109 | 1.2109 | 2.8264 | 2.9053 | 45 | Cloudy |
| 27/02/09 | 11:35 | 28/02/09 | 11:35 | 17859.04 | 17883.04 | 24.00 | 1.2109 | 1.2109 | 1.2109 | 2.8352 | 2.9352 | 57 | Cloudy |

Summary of 24-hr TSP Monitoring Results

Monitoring Station : AM3

| Date | Time | Finish | | Elapse Time | | Sampling Time (hrs) | Flow Rate (m ³ /min.) | | Average (m ³ /min.) | Filter Weight (g) | | Conc. (µg/m ³) | Weather Condition |
|----------|-------|----------|-------|-------------|---------|---------------------|----------------------------------|--------|--------------------------------|-------------------|--------|----------------------------|-------------------|
| | | Date | Time | Initial | Final | | Initial | Final | | Initial | Final | | |
| 03/12/08 | 16:00 | 04/12/08 | 15:59 | 1559.52 | 1583.51 | 23.99 | 1.1518 | 1.1518 | 1.1518 | 2.7861 | 2.9589 | 104 | Cloudy |
| 09/12/08 | 16:01 | 10/12/08 | 16:01 | 1583.51 | 1607.51 | 24.00 | 1.1831 | 1.1831 | 1.1831 | 2.7666 | 2.9116 | 85 | Fine |
| 15/12/08 | 11:20 | 16/12/08 | 11:20 | 1607.51 | 1631.51 | 24.00 | 1.2251 | 1.2251 | 1.2251 | 2.7170 | 2.9986 | 160 | Fine |
| 19/12/08 | 16:01 | 20/12/08 | 16:01 | 1631.51 | 1655.51 | 24.00 | 1.3166 | 1.3166 | 1.3166 | 2.7183 | 2.8986 | 95 | Sunny |
| 24/12/08 | 15:20 | 25/12/08 | 15:20 | 1655.51 | 1679.51 | 24.00 | 1.2251 | 1.2251 | 1.2251 | 2.7567 | 3.0907 | 189 | Cloudy |
| 30/12/08 | 13:19 | 31/12/08 | 13:19 | 1679.51 | 1703.51 | 24.00 | 1.1945 | 1.1945 | 1.1945 | 2.7405 | 2.8741 | 78 | Cloudy |
| 05/01/09 | 16:01 | 06/01/09 | 16:01 | 1703.51 | 1727.51 | 24.00 | 1.2861 | 1.2861 | 1.2861 | 2.8167 | 2.9348 | 64 | Sunny |
| 09/01/09 | 16:01 | 10/01/09 | 16:01 | 1727.51 | 1751.51 | 24.00 | 1.2556 | 1.2556 | 1.2556 | 2.8103 | 3.0259 | 119 | Sunny |
| 15/01/09 | 11:28 | 16/01/09 | 11:28 | 1751.51 | 1775.51 | 24.00 | 1.2556 | 1.2556 | 1.2556 | 2.8270 | 3.0840 | 142 | Sunny |
| 21/01/09 | 16:01 | 22/01/09 | 16:01 | 1775.51 | 1799.51 | 24.00 | 1.1335 | 1.1335 | 1.1335 | 2.8082 | 2.9828 | 107 | Sunny |
| 30/01/09 | 16:00 | 31/01/09 | 16:00 | 1799.51 | 1823.51 | 24.00 | 1.1945 | 1.1945 | 1.1945 | 2.8035 | 2.9246 | 70 | Sunny |
| 05/02/09 | 13:00 | 06/02/09 | 13:00 | 1823.51 | 1847.51 | 24.00 | 1.2251 | 1.2251 | 1.2251 | 2.7319 | 2.8631 | 74 | Sunny |
| 11/02/09 | 11:10 | 12/02/09 | 11:10 | 1847.51 | 1871.51 | 24.00 | 1.1335 | 1.1335 | 1.1335 | 2.7083 | 2.8712 | 100 | Fine |
| 17/02/09 | 09:22 | 18/02/09 | 09:22 | 1871.51 | 1895.51 | 24.00 | 1.0853 | 1.0853 | 1.0853 | 2.7990 | 2.9531 | 99 | Cloudy |
| 23/02/09 | 13:10 | 24/02/09 | 13:10 | 1895.51 | 1919.51 | 24.00 | 1.0546 | 1.0546 | 1.0546 | 2.8704 | 2.9533 | 55 | Cloudy |
| 27/02/09 | 11:05 | 28/02/09 | 11:05 | 1919.51 | 1943.51 | 24.00 | 1.1466 | 1.1466 | 1.1466 | 2.8489 | 2.9495 | 61 | Sunny |

Summary of 1-hr TSP Monitoring Results

Monitoring Station : AM1

| Date | Monitoring Period | | 1-hr TSP ($\mu\text{g}/\text{m}^3$) | | | Weather |
|----------|-------------------|--------|---------------------------------------|---------|---------|---------|
| | Start | Finish | Minimum | Maximum | Average | |
| 03/12/08 | 09:12 | 10:12 | 88 | 427 | 176 | Fine |
| 03/12/08 | 10:12 | 11:12 | 92 | 411 | 165 | Fine |
| 03/12/08 | 11:12 | 12:12 | 87 | 385 | 160 | Fine |
| 09/12/08 | 09:10 | 10:10 | 112 | 572 | 250 | Fine |
| 09/12/08 | 10:10 | 11:10 | 100 | 614 | 271 | Fine |
| 09/12/08 | 11:10 | 12:10 | 99 | 556 | 239 | Fine |
| 15/12/08 | 13:15 | 14:15 | 93 | 505 | 211 | Fine |
| 15/12/08 | 14:15 | 15:15 | 106 | 546 | 220 | Fine |
| 15/12/08 | 15:15 | 16:15 | 72 | 482 | 190 | Fine |
| 19/12/08 | 09:15 | 10:15 | 92 | 471 | 202 | Sunny |
| 19/12/08 | 10:15 | 11:15 | 105 | 492 | 226 | Sunny |
| 19/12/08 | 11:15 | 12:15 | 99 | 511 | 180 | Sunny |
| 24/12/08 | 09:20 | 10:20 | 123 | 472 | 195 | Cloudy |
| 24/12/08 | 10:20 | 11:20 | 116 | 519 | 214 | Cloudy |
| 24/12/08 | 11:20 | 12:20 | 105 | 482 | 184 | Cloudy |
| 30/12/08 | 08:50 | 09:50 | 110 | 346 | 93 | Cloudy |
| 30/12/08 | 09:50 | 10:50 | 114 | 364 | 96 | Cloudy |
| 30/12/08 | 10:50 | 11:50 | 107 | 356 | 90 | Cloudy |
| 05/01/09 | 09:13 | 10:13 | 89 | 457 | 138 | Sunny |
| 05/01/09 | 10:13 | 11:13 | 95 | 426 | 163 | Sunny |
| 05/01/09 | 11:13 | 12:13 | 100 | 389 | 157 | Sunny |
| 09/01/09 | 09:16 | 10:16 | 105 | 492 | 144 | Sunny |
| 09/01/09 | 10:16 | 11:16 | 96 | 517 | 155 | Sunny |
| 09/01/09 | 11:16 | 12:16 | 100 | 465 | 147 | Sunny |
| 15/01/09 | 09:10 | 10:10 | 58 | 417 | 101 | Fine |
| 15/01/09 | 10:10 | 11:10 | 56 | 451 | 111 | Fine |
| 15/01/09 | 11:10 | 12:10 | 63 | 438 | 113 | Fine |
| 21/01/09 | 09:20 | 10:20 | 87 | 579 | 126 | Sunny |
| 21/01/09 | 10:20 | 11:20 | 70 | 482 | 112 | Sunny |
| 21/01/09 | 11:20 | 12:20 | 100 | 470 | 106 | Sunny |
| 30/01/09 | 09:19 | 10:19 | 52 | 372 | 117 | Sunny |
| 30/01/09 | 10:19 | 11:19 | 61 | 381 | 114 | Sunny |
| 30/01/09 | 11:19 | 12:19 | 70 | 332 | 107 | Sunny |
| 05/02/09 | 13:00 | 14:00 | 46 | 481 | 101 | Sunny |
| 05/02/09 | 14:00 | 15:00 | 49 | 492 | 106 | Sunny |
| 05/02/09 | 15:00 | 16:00 | 43 | 465 | 95 | Sunny |
| 11/02/09 | 14:15 | 15:15 | 68 | 482 | 139 | Sunny |
| 11/02/09 | 15:15 | 16:15 | 62 | 437 | 129 | Sunny |
| 11/02/09 | 16:15 | 17:15 | 54 | 415 | 121 | Sunny |
| 17/02/09 | 13:15 | 14:15 | 50 | 410 | 101 | Cloudy |
| 17/02/09 | 14:15 | 15:15 | 52 | 449 | 104 | Cloudy |
| 17/02/09 | 15:15 | 16:15 | 47 | 390 | 94 | Cloudy |
| 23/02/09 | 09:13 | 10:13 | 65 | 412 | 109 | Cloudy |
| 23/02/09 | 10:13 | 11:13 | 46 | 427 | 100 | Cloudy |
| 23/02/09 | 11:13 | 12:13 | 62 | 440 | 122 | Cloudy |
| 27/02/09 | 09:10 | 10:10 | 57 | 342 | 125 | Cloudy |
| 27/02/09 | 10:10 | 11:10 | 64 | 384 | 138 | Cloudy |
| 27/02/09 | 11:10 | 12:10 | 52 | 359 | 117 | Cloudy |

Summary of 1-hr TSP Monitoring Results

Monitoring Station : AM2

| Date | Monitoring Period | | 1-hr TSP ($\mu\text{g}/\text{m}^3$) | | | Weather |
|----------|-------------------|--------|---------------------------------------|---------|---------|---------|
| | Start | Finish | Minimum | Maximum | Average | |
| 03/12/08 | 09:16 | 10:16 | 90 | 438 | 191 | Fine |
| 03/12/08 | 10:16 | 11:16 | 95 | 409 | 167 | Fine |
| 03/12/08 | 11:16 | 12:16 | 86 | 376 | 175 | Fine |
| 09/12/08 | 09:13 | 10:13 | 87 | 518 | 220 | Fine |
| 09/12/08 | 10:13 | 11:13 | 100 | 487 | 229 | Fine |
| 09/12/08 | 11:13 | 12:13 | 95 | 459 | 197 | Fine |
| 15/12/08 | 13:20 | 14:20 | 85 | 477 | 215 | Fine |
| 15/12/08 | 14:20 | 15:20 | 105 | 517 | 221 | Fine |
| 15/12/08 | 15:20 | 16:20 | 96 | 432 | 188 | Fine |
| 19/12/08 | 09:17 | 10:17 | 105 | 495 | 220 | Sunny |
| 19/12/08 | 10:17 | 11:17 | 110 | 527 | 185 | Sunny |
| 19/12/08 | 11:17 | 12:17 | 93 | 518 | 169 | Sunny |
| 24/12/08 | 09:18 | 10:18 | 107 | 480 | 186 | Cloudy |
| 24/12/08 | 10:18 | 11:18 | 106 | 435 | 206 | Cloudy |
| 24/12/08 | 11:18 | 12:18 | 89 | 407 | 175 | Cloudy |
| 30/12/08 | 09:00 | 10:00 | 95 | 325 | 76 | Cloudy |
| 30/12/08 | 10:00 | 11:00 | 98 | 308 | 79 | Cloudy |
| 30/12/08 | 11:00 | 12:00 | 104 | 349 | 85 | Cloudy |
| 05/01/09 | 09:15 | 10:15 | 95 | 435 | 166 | Sunny |
| 05/01/09 | 10:15 | 11:15 | 87 | 405 | 160 | Sunny |
| 05/01/09 | 11:15 | 12:15 | 99 | 352 | 129 | Sunny |
| 09/01/09 | 09:20 | 10:20 | 95 | 504 | 169 | Sunny |
| 09/01/09 | 10:20 | 11:20 | 100 | 491 | 180 | Sunny |
| 09/01/09 | 11:20 | 12:20 | 87 | 480 | 155 | Sunny |
| 15/01/09 | 13:07 | 14:07 | 54 | 403 | 89 | Fine |
| 15/01/09 | 14:07 | 15:07 | 53 | 394 | 91 | Fine |
| 15/01/09 | 15:07 | 16:07 | 45 | 420 | 86 | Fine |
| 21/01/09 | 09:17 | 10:17 | 75 | 520 | 104 | Sunny |
| 21/01/09 | 10:17 | 11:17 | 84 | 465 | 112 | Sunny |
| 21/01/09 | 11:17 | 12:17 | 72 | 423 | 100 | Sunny |
| 30/01/09 | 09:15 | 10:15 | 53 | 359 | 104 | Sunny |
| 30/01/09 | 10:15 | 11:15 | 60 | 345 | 100 | Sunny |
| 30/01/09 | 11:15 | 12:15 | 58 | 328 | 97 | Sunny |
| 05/02/09 | 13:13 | 14:13 | 39 | 447 | 90 | Sunny |
| 05/02/09 | 14:13 | 15:13 | 43 | 456 | 93 | Sunny |
| 05/02/09 | 15:13 | 16:13 | 44 | 490 | 97 | Sunny |
| 11/02/09 | 14:20 | 15:20 | 71 | 496 | 132 | Sunny |
| 11/02/09 | 15:20 | 16:20 | 65 | 464 | 123 | Sunny |
| 11/02/09 | 16:20 | 17:20 | 60 | 451 | 121 | Sunny |
| 17/02/09 | 13:25 | 14:25 | 59 | 478 | 107 | Cloudy |
| 17/02/09 | 14:25 | 15:25 | 67 | 535 | 122 | Cloudy |
| 17/02/09 | 15:25 | 16:25 | 65 | 541 | 123 | Cloudy |
| 23/02/09 | 09:15 | 10:15 | 62 | 428 | 119 | Cloudy |
| 23/02/09 | 10:15 | 11:15 | 58 | 402 | 107 | Cloudy |
| 23/02/09 | 11:15 | 12:15 | 49 | 419 | 115 | Cloudy |
| 27/02/09 | 09:15 | 10:15 | 61 | 298 | 117 | Cloudy |
| 27/02/09 | 10:15 | 11:15 | 69 | 409 | 130 | Cloudy |
| 27/02/09 | 11:15 | 12:15 | 56 | 354 | 112 | Cloudy |

Summary of 1-hr TSP Monitoring Results

Monitoring Station : AM3

| Date | Monitoring Period | | 1-hr TSP ($\mu\text{g}/\text{m}^3$) | | | Weather |
|----------|-------------------|--------|---------------------------------------|---------|---------|---------|
| | Start | Finish | Minimum | Maximum | Average | |
| 03/12/08 | 13:00 | 14:00 | 79 | 426 | 189 | Cloudy |
| 03/12/08 | 14:00 | 15:00 | 83 | 382 | 165 | Cloudy |
| 03/12/08 | 15:00 | 16:00 | 88 | 365 | 172 | Cloudy |
| 09/12/08 | 13:00 | 14:00 | 88 | 372 | 168 | Fine |
| 09/12/08 | 14:00 | 15:00 | 100 | 435 | 188 | Fine |
| 09/12/08 | 15:00 | 16:00 | 93 | 395 | 132 | Fine |
| 15/12/08 | 09:12 | 10:12 | 94 | 493 | 185 | Fine |
| 15/12/08 | 10:12 | 11:12 | 102 | 524 | 201 | Fine |
| 15/12/08 | 11:12 | 12:12 | 108 | 582 | 222 | Fine |
| 19/12/08 | 13:00 | 14:00 | 87 | 462 | 176 | Sunny |
| 19/12/08 | 14:00 | 15:00 | 97 | 417 | 163 | Sunny |
| 19/12/08 | 15:00 | 16:00 | 100 | 387 | 157 | Sunny |
| 24/12/08 | 13:00 | 14:00 | 114 | 493 | 199 | Cloudy |
| 24/12/08 | 14:00 | 15:00 | 105 | 525 | 186 | Cloudy |
| 24/12/08 | 15:00 | 16:00 | 112 | 482 | 166 | Cloudy |
| 30/12/08 | 13:05 | 14:05 | 64 | 489 | 111 | Drizzle |
| 30/12/08 | 14:05 | 15:05 | 70 | 564 | 120 | Drizzle |
| 30/12/08 | 15:05 | 16:05 | 71 | 570 | 123 | Drizzle |
| 05/01/09 | 13:00 | 14:00 | 112 | 477 | 176 | Sunny |
| 05/01/09 | 14:00 | 15:00 | 106 | 512 | 156 | Sunny |
| 05/01/09 | 15:00 | 16:00 | 97 | 438 | 168 | Sunny |
| 09/01/09 | 13:00 | 14:00 | 112 | 641 | 181 | Sunny |
| 09/01/09 | 14:00 | 15:00 | 105 | 572 | 162 | Sunny |
| 09/01/09 | 15:00 | 16:00 | 97 | 563 | 155 | Sunny |
| 15/01/09 | 13:30 | 14:30 | 73 | 623 | 150 | Fine |
| 15/01/09 | 14:30 | 15:30 | 70 | 593 | 145 | Fine |
| 15/01/09 | 15:30 | 16:30 | 67 | 584 | 138 | Fine |
| 21/01/09 | 13:00 | 14:00 | 42 | 380 | 90 | Sunny |
| 21/01/09 | 14:00 | 15:00 | 59 | 352 | 92 | Sunny |
| 21/01/09 | 15:00 | 16:00 | 62 | 297 | 100 | Sunny |
| 30/01/09 | 13:00 | 14:00 | 60 | 327 | 107 | Sunny |
| 30/01/09 | 14:00 | 15:00 | 52 | 306 | 113 | Sunny |
| 30/01/09 | 15:00 | 16:00 | 59 | 339 | 106 | Sunny |
| 05/02/09 | 09:10 | 10:10 | 64 | 514 | 143 | Sunny |
| 05/02/09 | 10:10 | 11:10 | 71 | 631 | 161 | Sunny |
| 05/02/09 | 11:10 | 12:10 | 70 | 544 | 148 | Sunny |
| 11/02/09 | 09:30 | 10:30 | 59 | 424 | 124 | Sunny |
| 11/02/09 | 10:30 | 11:30 | 75 | 523 | 153 | Sunny |
| 11/02/09 | 13:00 | 14:00 | 81 | 566 | 164 | Sunny |
| 17/02/09 | 09:10 | 10:10 | 59 | 441 | 113 | Cloudy |
| 17/02/09 | 10:10 | 11:10 | 63 | 506 | 120 | Cloudy |
| 17/02/09 | 11:10 | 12:10 | 62 | 510 | 123 | Cloudy |
| 23/02/09 | 13:00 | 14:00 | 70 | 378 | 110 | Cloudy |
| 23/02/09 | 14:00 | 15:00 | 49 | 406 | 118 | Cloudy |
| 23/02/09 | 15:00 | 16:00 | 58 | 383 | 124 | Cloudy |
| 27/02/09 | 13:30 | 14:30 | 55 | 305 | 115 | Cloudy |
| 27/02/09 | 14:30 | 15:30 | 52 | 316 | 107 | Cloudy |
| 27/02/09 | 15:30 | 16:30 | 58 | 327 | 128 | Cloudy |

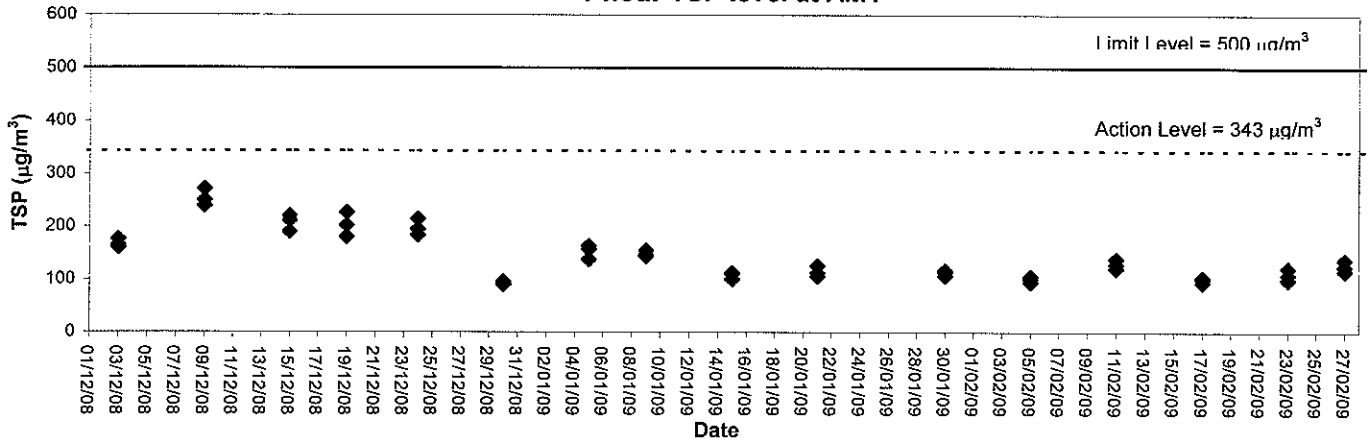


Appendix B2

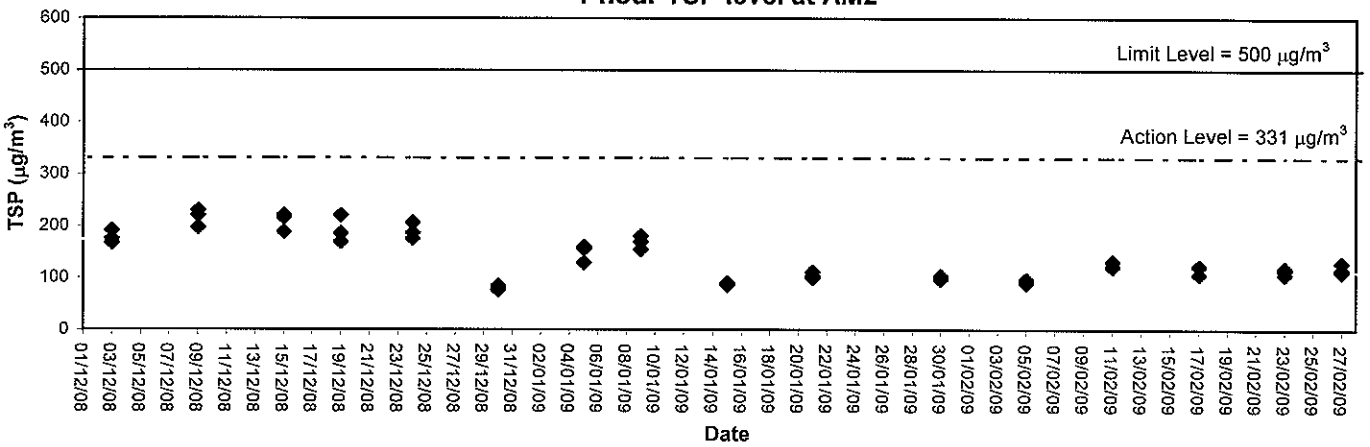
Graphical Plots of Impact Air Quality Monitoring Data in this Quarter



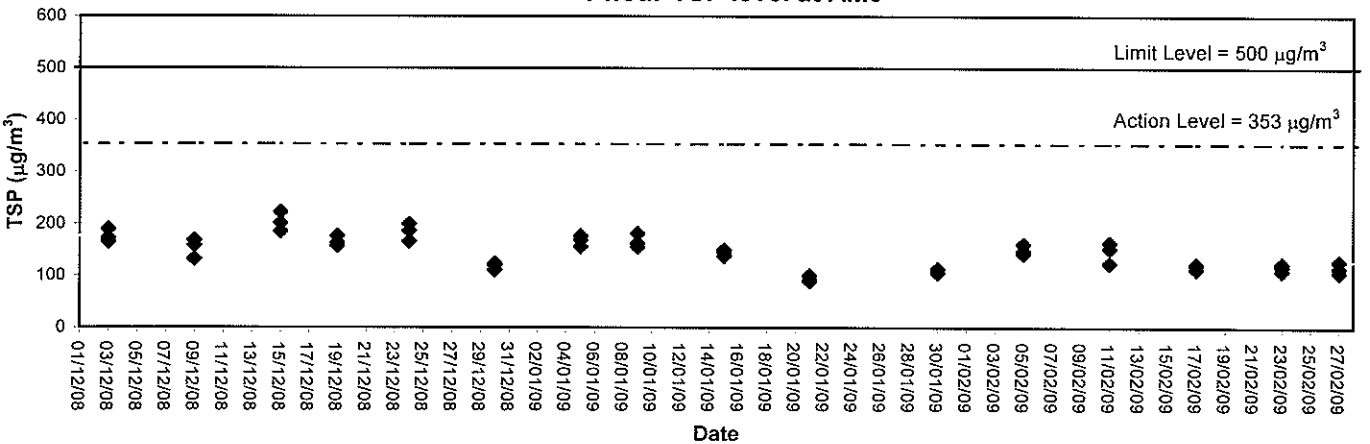
1-hour TSP level at AM1

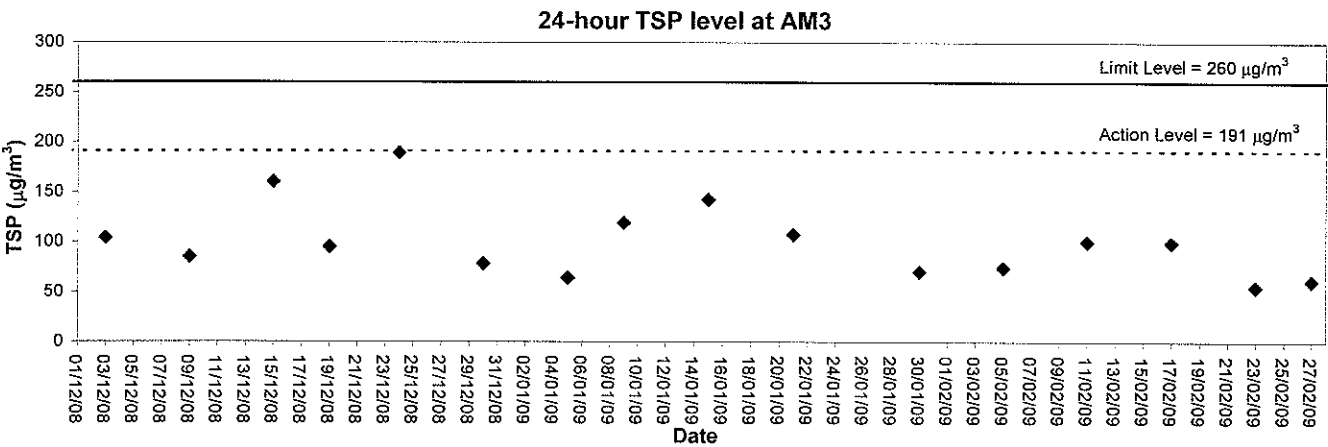
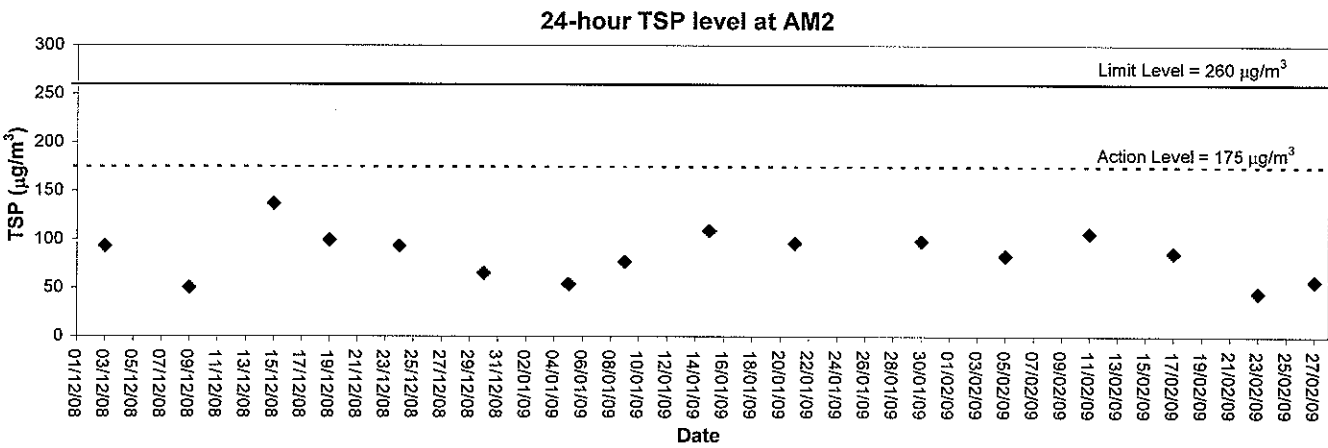
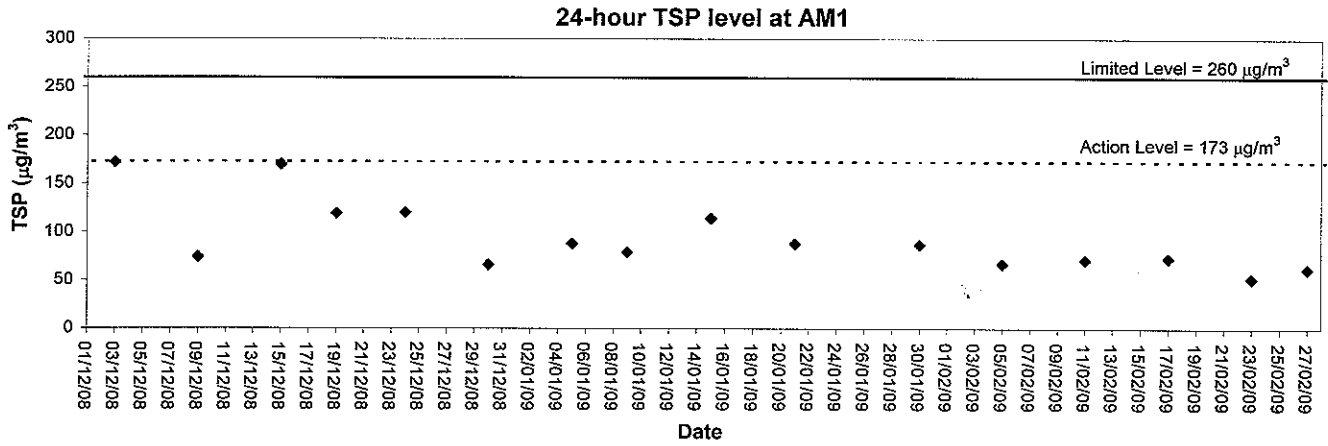


1-hour TSP level at AM2



1-hour TSP level at AM3







Appendix C1

Impact Noise Monitoring Results in this Quarter



Day-time Noise Monitoring

Monitoring Station: NM1

| Date | Weather Condition | Start Time (hh:mm) | End Time (hh:mm) | Noise Level at the monitoring point, dB (A) | | | Wind Speed (m/s) |
|----------|-------------------|--------------------|------------------|---|------|------|------------------|
| | | | | Leq (30min) | L10 | L90 | |
| 03/12/08 | Cloudy | 13:20 | 13:50 | 56.0 | 58.0 | 49.1 | 0.5 |
| 09/12/08 | Fine | 11:25 | 11:55 | 62.3 | 64.1 | 44.5 | 1.0 |
| 15/12/08 | Clear | 13:32 | 14:02 | 52.6 | 55.8 | 50.2 | 0.9 |
| 24/12/08 | Sunny | 10:05 | 10:35 | 69.1 | 70.5 | 57.3 | 1.5 |
| 30/12/08 | Sunny | 09:10 | 09:40 | 54.8 | 58.4 | 47.8 | 0.7 |
| 05/01/09 | Sunny | 10:22 | 10:52 | 57.5 | 59.1 | 43.8 | 0.7 |
| 15/01/09 | Fine | 09:20 | 09:50 | 53.8 | 59.5 | 46.4 | 1.9 |
| 21/01/09 | Sunny | 09:28 | 09:58 | 61.7 | 62.9 | 44.5 | 0.1 |
| 30/01/09 | Sunny | 09:40 | 10:10 | 59.2 | 61.2 | 54.1 | 0.4 |
| 05/02/09 | Sunny | 09:30 | 10:00 | 52.6 | 58.7 | 46.8 | 1.3 |
| 11/02/09 | Sunny | 15:20 | 15:50 | 53.4 | 57.0 | 52.1 | 0.7 |
| 17/02/09 | Cloudy | 13:30 | 14:00 | 55.8 | 62.9 | 52.3 | 1.0 |
| 23/02/09 | Cloudy | 09:18 | 09:48 | 60.1 | 63.2 | 54.1 | 0.5 |

Monitoring Station: NM2

| Date | Weather Condition | Start Time (hh:mm) | End Time (hh:mm) | Noise Level at the monitoring point, dB (A) | | | Wind Speed (m/s) |
|----------|-------------------|--------------------|------------------|---|------|------|------------------|
| | | | | Leq (30min) | L10 | L90 | |
| 03/12/08 | Cloudy | 09:28 | 09:58 | 56.9 | 57.6 | 48.2 | 0.8 |
| 09/12/08 | Fine | 09:32 | 10:02 | 63.7 | 64.2 | 51.7 | 1.0 |
| 15/12/08 | Clear | 14:30 | 15:00 | 63.9 | 69.3 | 60.1 | 0.6 |
| 24/12/08 | Sunny | 09:30 | 10:00 | 68.5 | 70.1 | 58.3 | 0.5 |
| 30/12/08 | Sunny | 09:55 | 10:25 | 57.3 | 63.9 | 54.0 | 0.4 |
| 05/01/09 | Sunny | 09:46 | 10:16 | 66.7 | 68.2 | 54.3 | 0.5 |
| 15/01/09 | Fine | 11:22 | 11:52 | 64.2 | 68.8 | 60.2 | 1.8 |
| 21/01/09 | Sunny | 10:10 | 10:40 | 68.7 | 70.0 | 54.5 | <0.1 |
| 30/01/09 | Sunny | 10:20 | 10:50 | 62.9 | 64.0 | 54.7 | 0.5 |
| 05/02/09 | Sunny | 10:25 | 10:55 | 66.2 | 72.1 | 61.8 | 1.2 |
| 11/02/09 | Sunny | 14:38 | 15:08 | 69.4 | 74.8 | 62.5 | 0.4 |
| 17/02/09 | Cloudy | 14:20 | 14:50 | 62.7 | 69.2 | 58.7 | 1.8 |
| 23/02/09 | Cloudy | 09:55 | 10:25 | 70.5 | 74.3 | 63.0 | 0.4 |

Monitoring Station: RNM3

| Date | Weather Condition | Start Time (hh:mm) | End Time (hh:mm) | Noise Level at the monitoring point, dB (A) | | | Wind Speed (m/s) |
|----------|-------------------|--------------------|------------------|---|------|------|------------------|
| | | | | Leq (30min) | L10 | L90 | |
| 03/12/08 | Cloudy | 10:05 | 10:35 | 68.7 | 73.5 | 58.0 | 2.0 |
| 09/12/08 | Fine | 10:10 | 10:40 | 71.4 | 76.6 | 59.7 | 1.6 |
| 15/12/08 | Clear | 15:10 | 15:40 | 61.4 | 66.8 | 58.3 | 1.0 |
| 24/12/08 | Sunny | 10:42 | 11:12 | 65.7 | 70.3 | 54.3 | 0.7 |
| 30/12/08 | Sunny | 10:40 | 11:10 | 64.9 | 70.8 | 61.7 | 0.4 |
| 05/01/09 | Sunny | 10:57 | 11:27 | 66.4 | 69.4 | 57.1 | 1.5 |
| 15/01/09 | Fine | 13:45 | 14:15 | 65.7 | 69.8 | 62.1 | 1.6 |
| 21/01/09 | Sunny | 11:10 | 11:40 | 70.2 | 71.3 | 51.7 | 0.2 |
| 30/01/09 | Sunny | 11:15 | 11:45 | 65.0 | 66.9 | 53.4 | 0.4 |
| 05/02/09 | Sunny | 11:20 | 11:50 | 67.2 | 73.9 | 64.8 | 1.0 |
| 11/02/09 | Sunny | 10:15 | 10:45 | 59.6 | 63.2 | 56.4 | 1.1 |
| 17/02/09 | Cloudy | 15:18 | 15:48 | 63.3 | 70.4 | 59.4 | 1.7 |
| 23/02/09 | Cloudy | 10:31 | 11:01 | 73.2 | 76.2 | 60.6 | 0.3 |

Monitoring Station: NM4

| Date | Weather Condition | Start Time (hh:mm) | End Time (hh:mm) | Noise Level at the monitoring point, dB (A) | | | Wind Speed (m/s) |
|----------|-------------------|--------------------|------------------|---|------|------|------------------|
| | | | | Leq (30min) | L10 | L90 | |
| 03/12/08 | Cloudy | 10:45 | 11:15 | 55.2 | 55.7 | 51.4 | 1.2 |
| 09/12/08 | Fine | 10:45 | 11:15 | 53.4 | 54.0 | 49.7 | 1.5 |
| 15/12/08 | Clear | 15:50 | 16:20 | 58.6 | 62.2 | 55.3 | 1.7 |
| 24/12/08 | Sunny | 11:18 | 11:48 | 54.1 | 55.2 | 43.2 | 0.8 |
| 30/12/08 | Sunny | 11:20 | 11:50 | 56.4 | 60.8 | 54.3 | 0.9 |
| 05/01/09 | Sunny | 11:30 | 12:00 | 55.4 | 55.9 | 44.3 | 1.0 |
| 15/01/09 | Fine | 14:50 | 15:20 | 61.4 | 64.9 | 57.2 | 2.1 |
| 21/01/09 | Sunny | 14:00 | 14:30 | 60.7 | 62.0 | 48.2 | <0.1 |
| 30/01/09 | Sunny | 14:50 | 15:20 | 60.0 | 61.7 | 53.6 | 0.2 |
| 05/02/09 | Sunny | 15:15 | 15:45 | 51.5 | 55.4 | 48.0 | 1.7 |
| 11/02/09 | Sunny | 09:40 | 10:10 | 57.7 | 61.4 | 52.5 | 1.5 |
| 17/02/09 | Cloudy | 11:20 | 11:50 | 54.7 | 57.1 | 50.4 | 2.4 |
| 23/02/09 | Cloudy | 11:15 | 11:45 | 51.1 | 53.2 | 46.7 | 0.3 |

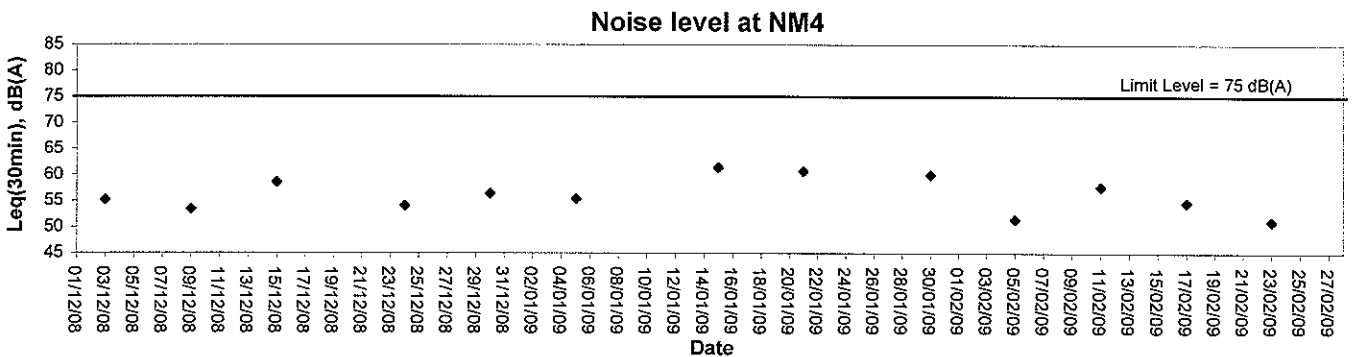
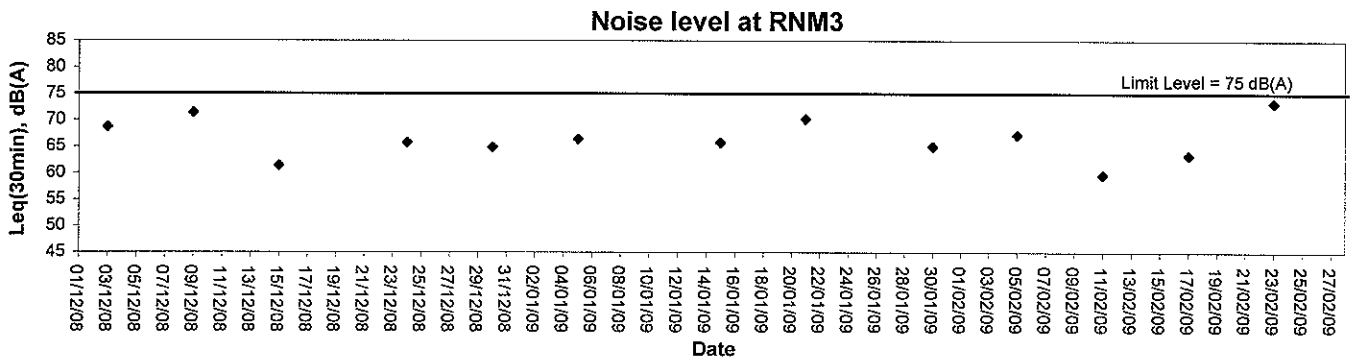
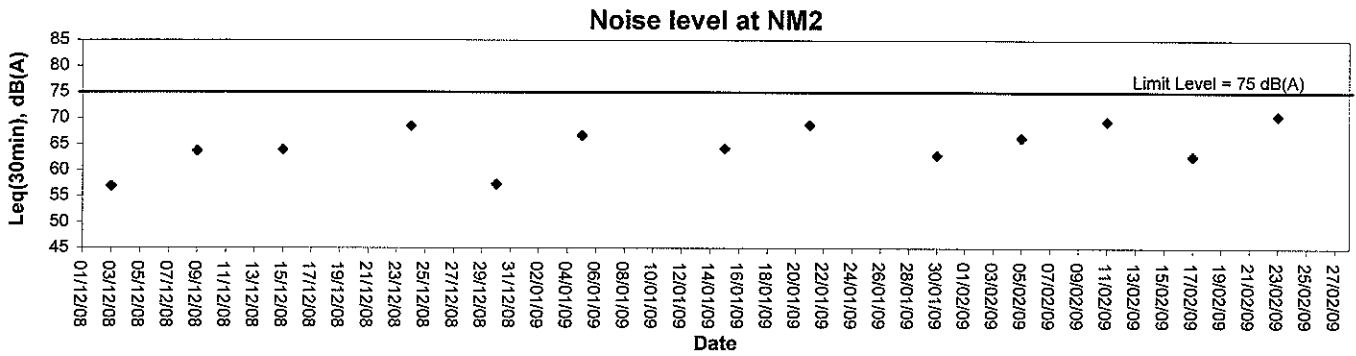
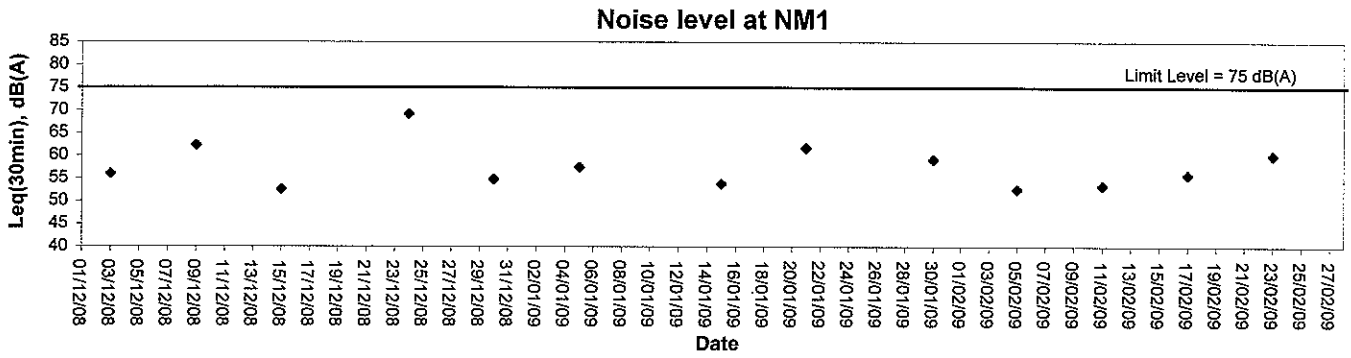


Appendix C2

Graphical Plots of Impact Noise Monitoring Data in this Quarter



Noise Monitoring (Day-time)





Appendix D

Environmental Quality Performance (Action / Limit Levels)



Action and Limit levels for 24-hr TSP and 1-hr TSP

| Monitoring Station | 24-hr TSP ($\mu\text{g}/\text{m}^3$) | | 1-hr TSP ($\mu\text{g}/\text{m}^3$) | |
|--------------------|--|-------------|---------------------------------------|-------------|
| | Action Level | Limit Level | Action Level | Limit Level |
| AM1 | 173 | 260 | 343 | 500 |
| AM2 | 175 | 260 | 331 | 500 |
| AM3 | 191 | 260 | 353 | 500 |

Action and Limit Levels for Noise Monitoring

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



Appendix E

Event-Action Plans

Event / Action Plan for Air Quality

| EVENT | ACTION | | | CONTRACTOR |
|---|--|---|--|--|
| | ET | IC(E) | ER | |
| Action Level | | | | |
| Action Level being exceeded for one sample | <ol style="list-style-type: none"> Identify source, investigate the causes of Exceedance and propose remedial measures; Inform IC(E) and ER; Repeat measurement to confirm finding; Increase monitoring frequency to daily | <ol style="list-style-type: none"> Check monitoring data submitted by ET; Check Contractor's working method. | <ol style="list-style-type: none"> Notify Contractor. | <ol style="list-style-type: none"> Rectify any unacceptable practice; Amend working methods if appropriate. |
| Action Level being exceeded for two or more consecutive samples | <ol style="list-style-type: none"> Same as the above; Advise the ER on the effectiveness of the proposed remedial measures; Discuss with IC(E) and Contractor on remedial actions required; If exceedance continues, arrange meeting with IC(E) and ER; If exceedance stops, cease additional monitoring. | <ol style="list-style-type: none"> Same as the above; Discuss with ET and Contractor on possible remedial measures; Advise the ET on the effectiveness of the proposed remedial measures; Supervise implementation of remedial measures. | <ol style="list-style-type: none"> Same as the above; Confirm receipt of notification of failure in writing; Ensure remedial measures properly implemented. | <ol style="list-style-type: none"> Submit proposals for remedial actions to ER within 3 working days of notification; Implement the agreed proposals; Amend proposal if appropriate. |
| Limit Level | | | | |
| Limit Level being exceeded for one sample | <ol style="list-style-type: none"> Identify source; Inform ER, Contractor and EPD; Repeat measurement to confirm finding; Increase monitoring frequency to daily; Assess effectiveness of Contractor's remedial actions and keep IC(E), EPD and ER informed of the results. | <ol style="list-style-type: none"> Checking monitoring data submitted by ET; Check Contractor's working method; Discuss with ET and Contractor on the possible remedial measures; Advise the ER on the effectiveness of the proposed remedial measures; Supervise the implementation of remedial measures. | <ol style="list-style-type: none"> Confirm receipt of notification of failure in writing; Notify Contractor; Ensure remedial actions properly implemented. | <ol style="list-style-type: none"> Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IC(E) within 3 working days of notification; Implement the agreed proposals; Amend proposal if appropriate. |
| Limit Level being exceeded for two or more consecutive samples | <ol style="list-style-type: none"> Same as the above; Carry our analysis of Contractor's working procedures to determine possible mitigation to be implemented; Arrange meeting with IC(E) and ER to discuss the remedial actions to be taken; If exceedance stops, cease additional monitoring. | <ol style="list-style-type: none"> Discuss with ER, ET and Contractor on the potential remedial actions; Review Contractor's remedial actions whenever necessary to assume their effectiveness and advise the ER accordingly; Supervise the implementation of remedial measures. | <ol style="list-style-type: none"> Same as the above; In consolidation with the IC(E), agree with the Contractor on the remedial measures to be implemented; If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated. | <ol style="list-style-type: none"> Same as the above; Resubmit proposals if problem still not under control; Stop the relevant portion of works as determined by the ER until the exceedance is abated. |

Event / Action Plan for Construction Noise

| EVENT | ACTION | | | | CONTRACTOR |
|---------------------|---|---|---|---|------------|
| | ET | IC(E) | ER | ER | |
| Action level | <ol style="list-style-type: none"> 1. Notify IC(E) and Contractor; 2. Carry out investigation; 3. Report the results of investigation to the IC(E), ER and Contractor; 4. Discuss with the Contractor and formulate remedial measures ; 5. Increase monitoring frequency to check mitigation effectiveness. | <ol style="list-style-type: none"> 1. Review and investigation results submitted by the ET; 2. Review the proposed remedial measures by the Contractor and advise the ER accordingly; 3. Supervise the implementation of remedial measures. | <ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Require Contractor to propose remedial measures for the analysed noise problem; 4. Ensure proper implementation of remedial measures. | <ol style="list-style-type: none"> 1. Submit noise mitigation proposal to IC(E); 2. Implement noise mitigation proposals. | |
| Limit level | <ol style="list-style-type: none"> 1. Identify source; 2. Inform IC(E), ER, EPD and Contractor; 3. Repeat measurement to confirm findings; 4. Increase monitoring frequency; 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; 6. Inform IC(E), ER and EPD the causes and actions taken for the exceedances; 7. Assess the effectiveness of Contractor's remedial actions and keep IC(E), EPD and ER informed of the results; 8. If exceedance stops, cease additional monitoring. | <ol style="list-style-type: none"> 1. Discuss amongst ER, ET, and Contractor on the potential remedial actions; 2. Review Contractor's remedial actions to ensure their effectiveness and advise the ER accordingly; 3. Supervise the implementation of remedial measures. | <ol style="list-style-type: none"> 1. Same as above; 2. If exceedances continue, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated. | <ol style="list-style-type: none"> 1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IC(E); 3. Implement the agreed proposals; 4. Resubmit proposals if problem still out of control; 5. Stop the relevant portion of works as determined by ER, until the exceedance is abated. | |



Appendix F

Construction Programme

REPUBLIKAN
YUNG SHUE WAN
SOK KWU WAN

WO 006 (S148-S165 Trenchless and SKW2nd St)

S148-S165 Trenchless

| Act ID | Activity Description | Rem Dur | Early Start | Late Start | Early Finish | Late Finish | Prep | Proc |
|--------|--|---------|-------------|------------|--------------|-------------|------|------|
| MT4707 | Implementation of TTMS / Application of XP | 0 | 26 FEB 08 | 26 FEB 08 | 04 JUN 08 | 04 JUN 08 | 0 | 0 |
| MT4708 | Implementation of TTA | 4 | 05 JUN 08 | 05 JUN 08 | 12 JUN 08 | 12 JUN 08 | 0 | 0 |
| MT4709 | Inspection PI / Liaison with UUI / UU Division | 14 | 12 JUN 08 | 17 JUL 08 | 17 JUL 08 | 17 JUL 08 | 0 | 0 |
| MT4710 | S148 (Jacking PI Construction) | 21 | 17 JUL 08 | 17 JUL 08 | 16 AUG 08 | 16 AUG 08 | 0 | 0 |
| MT4711 | S148-150 (Excavation) | 40 | 18 AUG 08 | 18 AUG 08 | 13 OCT 08 | 13 OCT 08 | 0 | 0 |
| MT4712 | S150-151 (Excavation) | 40 | 14 OCT 08 | 14 OCT 08 | 28 NOV 08 | 28 NOV 08 | 0 | 0 |
| MT4720 | S165 (Jacking PI Construction) | 21 | 29 NOV 08 | 29 NOV 08 | 23 DEC 08 | 23 DEC 08 | 0 | 0 |
| MT4731 | S151-155 (Excavation) | 30 | 24 DEC 08 | 24 DEC 08 | 31 JAN 09 | 31 JAN 09 | 0 | 0 |
| MT4820 | S148-165 (Pipe Lay/lay) | 21 | 02 FEB 09 | 02 FEB 09 | 26 FEB 09 | 26 FEB 09 | 0 | 0 |
| MT4830 | S148-S165 (Manholes Construction) | 26 | 26 FEB 09 | 26 FEB 09 | 11 MAY 09 | 11 MAY 09 | 0 | 0 |

S152-S162-End, S162-S163-End

| Act ID | Activity Description | Rem Dur | Early Start | Late Start | Early Finish | Late Finish | Prep | Proc |
|--------|--|---------|-------------|------------|--------------|-------------|------|------|
| MT4729 | Inspection PI / Liaison with UUI / UU Division | 21 | 29 APR 08 | 29 APR 08 | 24 MAY 08 | 24 MAY 08 | 0 | 0 |
| MT4740 | S162-163 (Deleted, V.O. 008) | 19 | 15 JUL 08 | 15 JUL 08 | 25 JUL 08 | 25 JUL 08 | 0 | 0 |
| MT4750 | S167-168 | 14 | 26 JUL 08 | 26 JUL 08 | 19 AUG 08 | 19 AUG 08 | 0 | 0 |
| MT4760 | S168-169 | 14 | 19 AUG 08 | 19 AUG 08 | 09 SEP 08 | 09 SEP 08 | 0 | 0 |
| MT4770 | S169-160 | 14 | 09 SEP 08 | 09 SEP 08 | 30 SEP 08 | 30 SEP 08 | 0 | 0 |
| MT4780 | S160-161 | 14 | 30 SEP 08 | 30 SEP 08 | 16 OCT 08 | 16 OCT 08 | 0 | 0 |
| MT4790 | S161-162 (RFI 013) | 14 | 16 OCT 08 | 16 OCT 08 | 01 NOV 08 | 01 NOV 08 | 0 | 0 |
| MT4800 | S162 to NOT(S2) | 13 | 01 NOV 08 | 01 NOV 08 | 17 NOV 08 | 17 NOV 08 | 0 | 0 |
| MT4810 | S163 to NOT(S2) (Deleted, V.O. 008) | 15 | 17 NOV 08 | 17 NOV 08 | 04 DEC 08 | 04 DEC 08 | 0 | 0 |

S132-S140

| Act ID | Activity Description | Rem Dur | Early Start | Late Start | Early Finish | Late Finish | Prep | Proc |
|--------|--|---------|-------------|------------|--------------|-------------|------|------|
| SS4810 | Inspection PI / Liaison with UUI / UU Division | 54 | 26 FEB 08 | 26 FEB 08 | 28 APR 08 | 28 APR 08 | 0 | 0 |
| SS4820 | S132-133 | 29 | 06 FEB 08 | 06 FEB 08 | 11 MAR 09 | 11 MAR 09 | 0 | 0 |
| SS4830 | S133-134 | 29 | 31 DEC 08 | 31 DEC 08 | 06 FEB 09 | 06 FEB 09 | 0 | 0 |
| SS4840 | S134-135 | 29 | 27 OCT 08 | 27 OCT 08 | 28 NOV 08 | 28 NOV 08 | 0 | 0 |
| SS4850 | S135-140 | 28 | 28 NOV 08 | 28 NOV 08 | 31 DEC 08 | 31 DEC 08 | 0 | 0 |
| SS4870 | S137-138 | 26 | 15 JUL 08 | 15 JUL 08 | 20 AUG 08 | 20 AUG 08 | 0 | 0 |
| SS4880 | S138-139 | 26 | 20 AUG 08 | 20 AUG 08 | 30 SEP 08 | 30 SEP 08 | 0 | 0 |
| SS4890 | S139-140 | 23 | 30 SEP 08 | 30 SEP 08 | 27 OCT 08 | 27 OCT 08 | 0 | 0 |

S140-S148

| Act ID | Activity Description | Rem Dur | Early Start | Late Start | Early Finish | Late Finish | Prep | Proc |
|--------|--|---------|-------------|------------|--------------|-------------|------|------|
| SS4895 | Inspection PI / Liaison with UUI / UU Division | 60 | 29 APR 08 | 29 APR 08 | 09 AUG 08 | 09 AUG 08 | 0 | 0 |
| SS4900 | S140-141 | 29 | 12 AUG 08 | 12 AUG 08 | 22 SEP 08 | 22 SEP 08 | 0 | 0 |
| SS4910 | S141-142 | 29 | 22 SEP 08 | 22 SEP 08 | 27 OCT 08 | 27 OCT 08 | 0 | 0 |
| SS4920 | S142-143 | 28 | 27 OCT 08 | 27 OCT 08 | 28 NOV 08 | 28 NOV 08 | 0 | 0 |
| SS4930 | S143-144 | 27 | 04 DEC 08 | 04 DEC 08 | 06 JAN 09 | 06 JAN 09 | 0 | 0 |
| SS4940 | S144-145 | 27 | 09 JAN 09 | 09 JAN 09 | 10 FEB 09 | 10 FEB 09 | 0 | 0 |
| SS4950 | S145-146 | 26 | 10 FEB 09 | 10 FEB 09 | 12 MAR 09 | 12 MAR 09 | 0 | 0 |
| SS4960 | S146-147 | 25 | 12 MAR 09 | 12 MAR 09 | 16 APR 09 | 16 APR 09 | 0 | 0 |
| SS4970 | S147-148 | 21 | 16 APR 09 | 16 APR 09 | 13 MAY 09 | 13 MAY 09 | 0 | 0 |

WO 010 (SKW 3rd Branches & CM S37-S60-S57)

S107-S110, S115-S123, S112-S113

| Act ID | Activity Description | Rem Dur | Early Start | Late Start | Early Finish | Late Finish | Prep | Proc |
|--------|--|---------|-------------|------------|--------------|-------------|------|------|
| SS5110 | Inspection PI / Liaison with UUI / UU Division | 52 | 15 JUL 08 | 15 JUL 08 | 30 SEP 08 | 30 SEP 08 | 0 | 0 |
| SS5120 | S107-108 | 21 | 30 SEP 08 | 30 SEP 08 | 24 OCT 08 | 24 OCT 08 | 0 | 0 |
| SS5130 | S108-109 | 21 | 24 OCT 08 | 24 OCT 08 | 18 NOV 08 | 18 NOV 08 | 0 | 0 |
| SS5140 | S109-110 | 21 | 18 NOV 08 | 18 NOV 08 | 13 DEC 08 | 13 DEC 08 | 0 | 0 |
| SS5150 | S110-111 | 21 | 12 DEC 08 | 12 DEC 08 | 07 JAN 09 | 07 JAN 09 | 0 | 0 |
| SS5160 | S111-112 | 21 | 07 JAN 09 | 07 JAN 09 | 04 FEB 09 | 04 FEB 09 | 0 | 0 |
| SS5170 | S112-113 | 21 | 04 FEB 09 | 04 FEB 09 | 28 FEB 09 | 28 FEB 09 | 0 | 0 |
| SS5180 | S113-114 | 21 | 28 FEB 09 | 28 FEB 09 | 25 MAR 09 | 25 MAR 09 | 0 | 0 |
| SS5190 | S114-115 | 21 | 25 MAR 09 | 25 MAR 09 | 23 APR 09 | 23 APR 09 | 0 | 0 |
| SS5200 | S115-116 | 21 | 23 APR 09 | 23 APR 09 | 20 MAY 09 | 20 MAY 09 | 0 | 0 |
| SS5210 | S116-117 | 17 | 16 JUN 09 | 16 JUN 09 | 05 JUL 09 | 05 JUL 09 | 0 | 0 |
| SS5220 | S117-118 | 19 | 05 JUL 09 | 05 JUL 09 | 23 JUL 09 | 23 JUL 09 | 0 | 0 |
| SS5230 | S118-119 | 14 | 15 JUL 08 | 15 JUL 08 | 30 JUL 08 | 30 JUL 08 | 0 | 0 |
| SS5240 | S119-120 | 11 | 31 JUL 08 | 31 JUL 08 | 19 AUG 08 | 19 AUG 08 | 0 | 0 |
| SS5250 | S120-121 | 12 | 19 AUG 08 | 19 AUG 08 | 06 SEP 08 | 06 SEP 08 | 0 | 0 |
| SS5260 | S121-122 | 12 | 06 SEP 08 | 06 SEP 08 | 28 SEP 08 | 28 SEP 08 | 0 | 0 |
| SS5270 | S122-123 | 12 | 28 SEP 08 | 28 SEP 08 | 10 OCT 08 | 10 OCT 08 | 0 | 0 |
| SS5280 | S123-124 | 12 | 26 SEP 08 | 26 SEP 08 | 10 OCT 08 | 10 OCT 08 | 0 | 0 |

S37-S60

| Act ID | Activity Description | Rem Dur | Early Start | Late Start | Early Finish | Late Finish | Prep | Proc |
|--------|--|---------|-------------|------------|--------------|-------------|------|------|
| CM5560 | Inspection PI / Liaison with UUI / UU Division | 14 | 15 JUL 08 | 15 JUL 08 | 30 JUL 08 | 30 JUL 08 | 0 | 0 |
| CM5580 | S37-38 | 11 | 31 JUL 08 | 31 JUL 08 | 19 AUG 08 | 19 AUG 08 | 0 | 0 |
| CM5590 | S38-39 | 12 | 19 AUG 08 | 19 AUG 08 | 06 SEP 08 | 06 SEP 08 | 0 | 0 |
| CM5600 | S39-40 | 12 | 06 SEP 08 | 06 SEP 08 | 28 SEP 08 | 28 SEP 08 | 0 | 0 |
| CM5610 | S40-467 | 12 | 26 SEP 08 | 26 SEP 08 | 10 OCT 08 | 10 OCT 08 | 0 | 0 |

Start Date 31 JAN 08
 Finish Date 16 APR 10

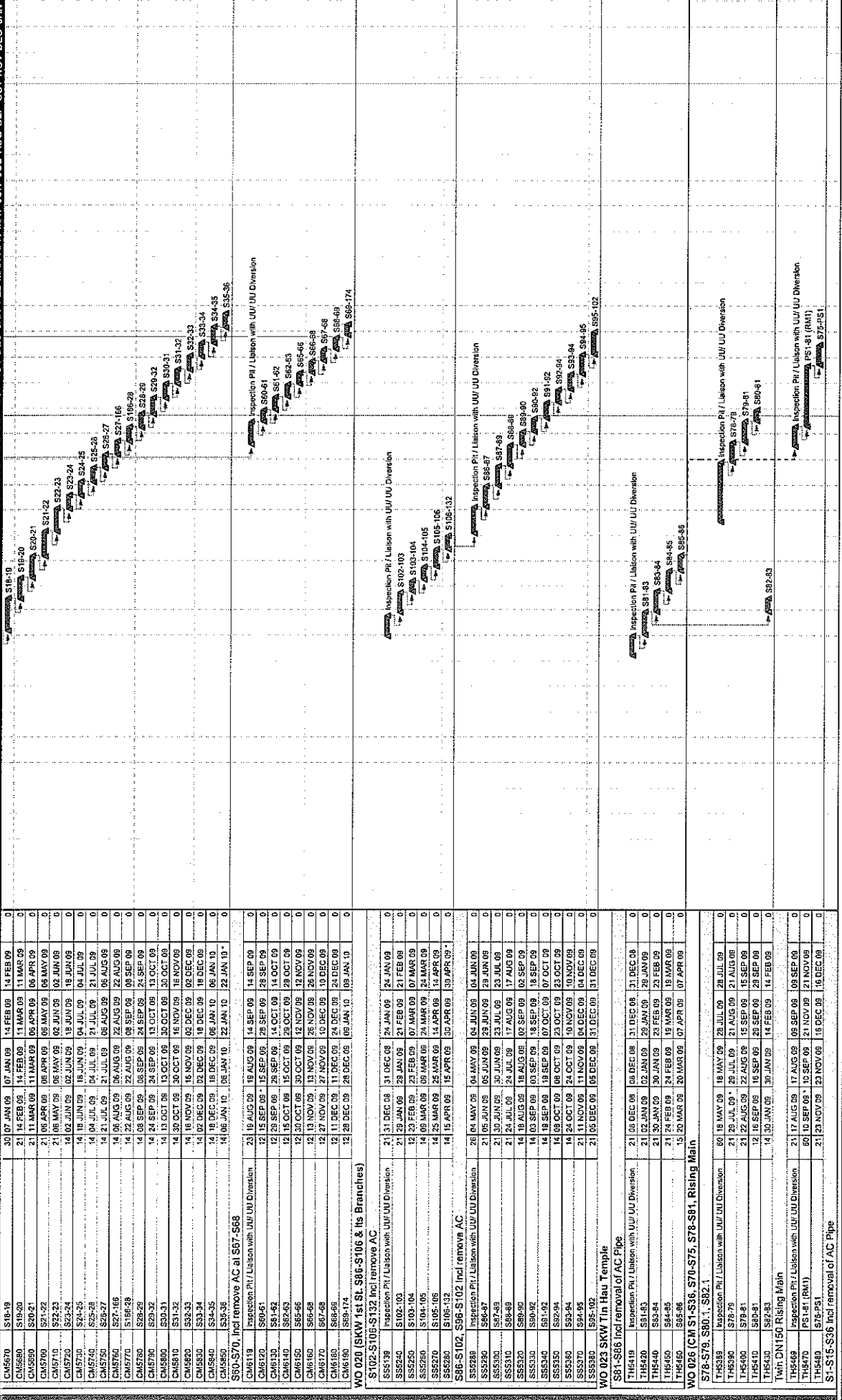
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Legend:
 ▲ Early start point
 ▼ Early finish point
 ▽ Summary bar
 ◻ Progress bar
 ◻ Critical bar
 ◻ Summary bar

Legend:
 ▲ Progress point
 ▼ Critical point
 ▽ Summary point
 ◻ Start milestone point
 ◻ Finish milestone point

DC/2007/18
 Yung Shue Wan and Sok Kwu Wan Village Sewerage, Stage 1 Works
 Project Programme Rev. 5

| Date | Revision | Checked | Approved |
|-----------|------------|---------|----------|
| 16 JUN 08 | Revision 2 | SL | KYS |
| 03 SEP 08 | Revision 3 | SL | KC |
| 31 OCT 08 | Revision 4 | SL | KYS |
| 24 DEC 08 | Revision 5 | SL | KYS |

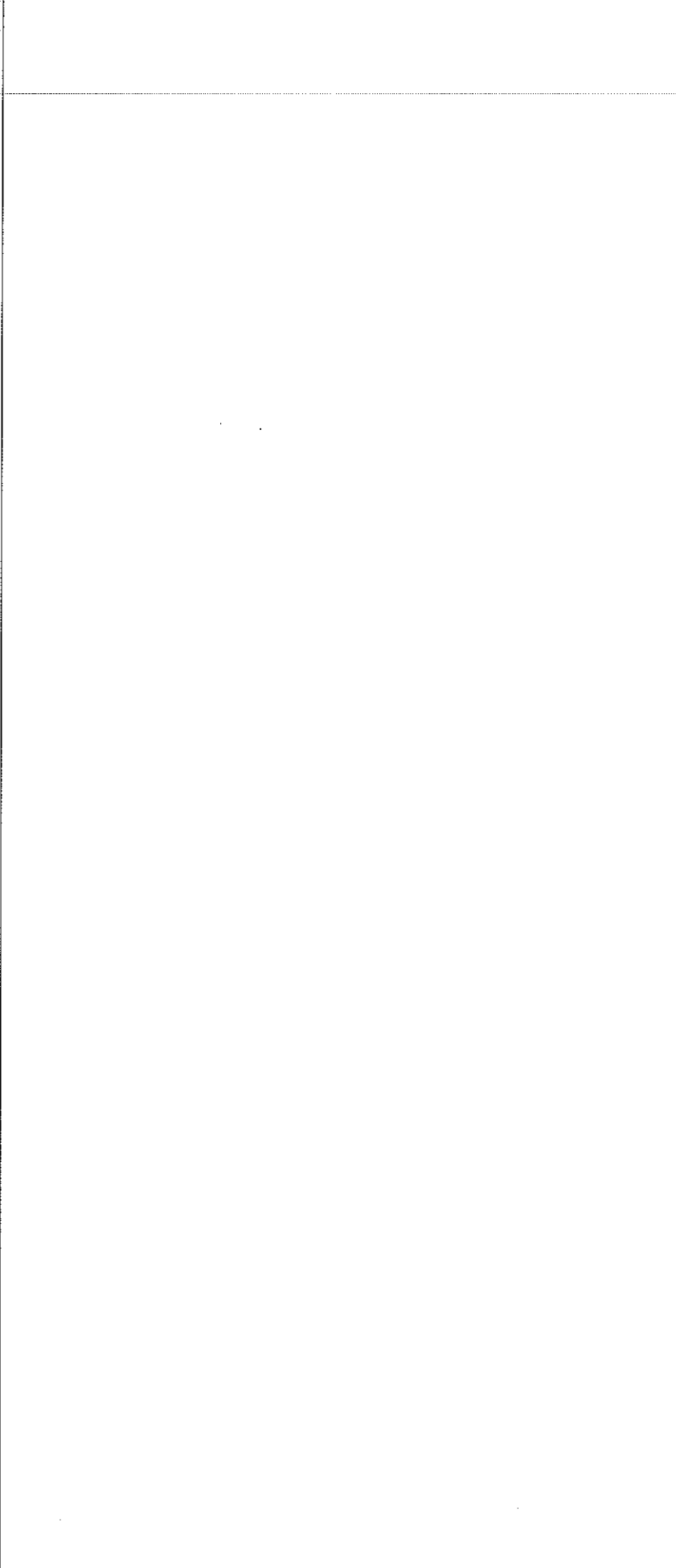


| Act ID | Activity Description | Rem Dur | Early Start | Late Start | Early Finish | Late Finish | Free Float |
|---|--|---------|-------------|------------|--------------|-------------|------------|
| CM5570 | S18-19 | 30 | 07 JAN 09 | 07 JAN 09 | 14 FEB 09 | 14 FEB 09 | 0 |
| CM5580 | S19-20 | 21 | 14 FEB 09 | 14 FEB 09 | 11 MAR 09 | 11 MAR 09 | 0 |
| CM5590 | S20-21 | 21 | 11 MAR 09 | 11 MAR 09 | 06 APR 09 | 06 APR 09 | 0 |
| CM5700 | S21-22 | 21 | 06 APR 09 | 06 APR 09 | 05 MAY 09 | 05 MAY 09 | 0 |
| CM5710 | S22-23 | 21 | 05 MAY 09 | 05 MAY 09 | 02 JUN 09 | 02 JUN 09 | 0 |
| CM5720 | S23-24 | 14 | 02 JUN 09 | 02 JUN 09 | 18 JUN 09 | 18 JUN 09 | 0 |
| CM5730 | S24-25 | 14 | 18 JUN 09 | 18 JUN 09 | 04 JUL 09 | 04 JUL 09 | 0 |
| CM5740 | S25-26 | 14 | 04 JUL 09 | 04 JUL 09 | 21 JUL 09 | 21 JUL 09 | 0 |
| CM5750 | S26-27 | 14 | 21 JUL 09 | 21 JUL 09 | 06 AUG 09 | 06 AUG 09 | 0 |
| CM5760 | S27-166 | 14 | 06 AUG 09 | 06 AUG 09 | 22 AUG 09 | 22 AUG 09 | 0 |
| CM5770 | S166-28 | 14 | 22 AUG 09 | 22 AUG 09 | 09 SEP 09 | 09 SEP 09 | 0 |
| CM5780 | S28-29 | 14 | 09 SEP 09 | 09 SEP 09 | 24 SEP 09 | 24 SEP 09 | 0 |
| CM5790 | S29-32 | 14 | 24 SEP 09 | 24 SEP 09 | 13 OCT 09 | 13 OCT 09 | 0 |
| CM5800 | S30-31 | 14 | 13 OCT 09 | 13 OCT 09 | 30 OCT 09 | 30 OCT 09 | 0 |
| CM5810 | S31-32 | 14 | 30 OCT 09 | 30 OCT 09 | 16 NOV 09 | 16 NOV 09 | 0 |
| CM5820 | S32-33 | 14 | 16 NOV 09 | 16 NOV 09 | 02 DEC 09 | 02 DEC 09 | 0 |
| CM5830 | S33-34 | 14 | 02 DEC 09 | 02 DEC 09 | 19 DEC 09 | 19 DEC 09 | 0 |
| CM5840 | S34-35 | 14 | 19 DEC 09 | 19 DEC 09 | 06 JAN 10 | 06 JAN 10 | 0 |
| CM5850 | S35-36 | 14 | 06 JAN 10 | 06 JAN 10 | 22 JAN 10 | 22 JAN 10 | 0 |
| CM6119 | Inspection P1 / Liaison with UUI / UU Division | 23 | 19 AUG 09 | 18 AUG 09 | 14 SEP 09 | 14 SEP 09 | 0 |
| CM6120 | S60-61 | 12 | 15 SEP 09 | 15 SEP 09 | 28 SEP 09 | 28 SEP 09 | 0 |
| CM6130 | S61-62 | 12 | 29 SEP 09 | 29 SEP 09 | 14 OCT 09 | 14 OCT 09 | 0 |
| CM6140 | S62-63 | 12 | 15 OCT 09 | 15 OCT 09 | 29 OCT 09 | 29 OCT 09 | 0 |
| CM6150 | S65-66 | 12 | 30 OCT 09 | 30 OCT 09 | 12 NOV 09 | 12 NOV 09 | 0 |
| CM6160 | S66-68 | 12 | 13 NOV 09 | 13 NOV 09 | 26 NOV 09 | 26 NOV 09 | 0 |
| CM6170 | S67-68 | 12 | 27 NOV 09 | 27 NOV 09 | 10 DEC 09 | 10 DEC 09 | 0 |
| CM6180 | S69-69 | 12 | 11 DEC 09 | 11 DEC 09 | 24 DEC 09 | 24 DEC 09 | 0 |
| CM6190 | S69-174 | 12 | 28 DEC 09 | 28 DEC 09 | 09 JAN 10 | 09 JAN 10 | 0 |
| WO 020 (SKW 1st St. S86-S106 & its Branches) | | | | | | | |
| S102-S106 | Incl remove AC | 21 | 31 DEC 08 | 31 DEC 08 | 24 JAN 09 | 24 JAN 09 | 0 |
| S55138 | Inspection P1 / Liaison with UUI / UU Division | 21 | 29 JAN 09 | 29 JAN 09 | 21 FEB 09 | 21 FEB 09 | 0 |
| S55250 | S104-104 | 12 | 23 FEB 09 | 23 FEB 09 | 07 MAR 09 | 07 MAR 09 | 0 |
| S55260 | S104-105 | 14 | 09 MAR 09 | 09 MAR 09 | 24 MAR 09 | 24 MAR 09 | 0 |
| S55270 | S105-105 | 14 | 25 MAR 09 | 25 MAR 09 | 14 APR 09 | 14 APR 09 | 0 |
| S55280 | S105-132 | 14 | 15 APR 09 | 15 APR 09 | 30 APR 09 | 30 APR 09 | 0 |
| S55290 | S96-S102 Incl remove AC | 26 | 04 MAY 09 | 04 MAY 09 | 04 JUN 09 | 04 JUN 09 | 0 |
| S55298 | Inspection P1 / Liaison with UUI / UU Division | 21 | 05 JUN 09 | 05 JUN 09 | 23 JUN 09 | 23 JUN 09 | 0 |
| S55300 | S97-98 | 21 | 30 JUN 09 | 30 JUN 09 | 23 JUL 09 | 23 JUL 09 | 0 |
| S55310 | S98-99 | 14 | 18 JUL 09 | 18 JUL 09 | 17 AUG 09 | 17 AUG 09 | 0 |
| S55320 | S99-99 | 14 | 18 AUG 09 | 18 AUG 09 | 02 SEP 09 | 02 SEP 09 | 0 |
| S55330 | S99-92 | 14 | 02 SEP 09 | 02 SEP 09 | 18 SEP 09 | 18 SEP 09 | 0 |
| S55340 | S91-92 | 14 | 19 SEP 09 | 19 SEP 09 | 07 OCT 09 | 07 OCT 09 | 0 |
| S55350 | S92-94 | 14 | 09 OCT 09 | 09 OCT 09 | 23 OCT 09 | 23 OCT 09 | 0 |
| S55360 | S93-94 | 14 | 24 OCT 09 | 24 OCT 09 | 10 NOV 09 | 10 NOV 09 | 0 |
| S55370 | S94-95 | 21 | 11 NOV 09 | 11 NOV 09 | 04 DEC 09 | 04 DEC 09 | 0 |
| S55380 | S95-102 | 21 | 09 DEC 09 | 09 DEC 09 | 31 DEC 09 | 31 DEC 09 | 0 |
| WO 023 SKW Tin Hau Temple | | | | | | | |
| S81-S86 | Incl removal of AC Pipe | 21 | 08 DEC 08 | 08 DEC 08 | 31 DEC 08 | 31 DEC 08 | 0 |
| TH5419 | Inspection P1 / Liaison with UUI / UU Division | 21 | 02 JAN 09 | 02 JAN 09 | 23 JAN 09 | 23 JAN 09 | 0 |
| TH5420 | S81-83 | 21 | 30 JAN 09 | 30 JAN 09 | 23 FEB 09 | 23 FEB 09 | 0 |
| TH5430 | S84-85 | 15 | 20 FEB 09 | 20 FEB 09 | 15 MAR 09 | 15 MAR 09 | 0 |
| TH5440 | S85-86 | 15 | 20 MAR 09 | 20 MAR 09 | 07 APR 09 | 07 APR 09 | 0 |
| WO 026 (CN S1-S36, S70-S75, S78-S81, Rising Main S78-S79, S80.1, S82.1) | | | | | | | |
| TH5339 | Inspection P1 / Liaison with UUI / UU Division | 60 | 18 MAY 09 | 18 MAY 09 | 28 JUL 09 | 28 JUL 09 | 0 |
| TH5390 | S76-76 | 21 | 29 JUL 09 | 29 JUL 09 | 21 AUG 09 | 21 AUG 09 | 0 |
| TH5400 | S78-81 | 21 | 22 AUG 09 | 22 AUG 09 | 15 SEP 09 | 15 SEP 09 | 0 |
| TH5410 | S80-81 | 12 | 16 SEP 09 | 16 SEP 09 | 29 SEP 09 | 29 SEP 09 | 0 |
| TH5420 | S82-83 | 14 | 30 JAN 09 | 30 JAN 09 | 14 FEB 09 | 14 FEB 09 | 0 |
| Trunk DN150 Rising Main | | | | | | | |
| TH5469 | Inspection P1 / Liaison with UUI / UU Division | 21 | 17 AUG 09 | 17 AUG 09 | 09 SEP 09 | 09 SEP 09 | 0 |
| TH5470 | P51-81 (RM) | 60 | 10 SEP 09 | 10 SEP 09 | 21 NOV 09 | 21 NOV 09 | 0 |
| TH5480 | S79-251 | 21 | 23 NOV 09 | 23 NOV 09 | 16 DEC 09 | 16 DEC 09 | 0 |
| S1-S16 | Incl removal of AC Pipe | | | | | | |

DCI2007/18
 Yung Shue Wan and Sok Kwu Wan Village Sewerage, Stage 1, Works
 Project Programme Rev. 5

| Revision | Date | Checked | Approved |
|------------|-----------|---------|----------|
| Revision 1 | 16 JUN 08 | SIL | KYS |
| Revision 2 | 03 SEP 08 | SIL | KC |
| Revision 3 | 31 OCT 08 | SIL | KYS |
| Revision 4 | 24 DEC 08 | SIL | KYS |
| Revision 5 | | | |

| Act ID | Activity Description | Rem Dur | Early Start | Early Finish | Late Start | Late Finish | Free Float |
|--------|--|---------|-------------|--------------|------------|-------------|------------|
| CM6489 | Inspection Pit /Liaison with UUP /UD Diversion | 48 | 02 MAR 09 | 02 MAR 09 | 02 MAR 09 | 02 MAR 09 | 0 |
| CM6490 | S1-2 | 21 | 04 MAY 09 | 27 MAY 09 | 27 MAY 09 | 27 MAY 09 | 0 |
| CM6500 | S2-3 | 21 | 29 MAY 09 | 23 JUN 09 | 23 JUN 09 | 23 JUN 09 | 0 |
| CM6510 | S3-4 | 21 | 24 JUN 09 | 17 JUL 09 | 17 JUL 09 | 17 JUL 09 | 0 |
| CM6520 | S4-5 | 21 | 18 JUL 09 | 11 AUG 09 | 11 AUG 09 | 11 AUG 09 | 0 |
| CM6530 | S5-6 | 21 | 12 AUG 09 | 04 SEP 09 | 04 SEP 09 | 04 SEP 09 | 0 |
| CM6540 | S6-7 | 21 | 05 SEP 09 | 29 SEP 09 | 29 SEP 09 | 29 SEP 09 | 0 |
| CM6550 | S7-8 | 21 | 30 SEP 09 | 27 OCT 09 | 27 OCT 09 | 27 OCT 09 | 0 |
| CM6560 | S8-9 | 14 | 28 OCT 09 | 12 NOV 09 | 12 NOV 09 | 12 NOV 09 | 0 |
| CM6570 | S9-10 | 14 | 13 NOV 09 | 28 NOV 09 | 28 NOV 09 | 28 NOV 09 | 0 |
| CM6580 | S10-11 | 14 | 30 NOV 09 | 15 DEC 09 | 15 DEC 09 | 15 DEC 09 | 0 |
| CM6590 | S11-12 | 14 | 16 DEC 09 | 02 JAN 10 | 02 JAN 10 | 02 JAN 10 | 0 |
| CM6600 | S12-13 | 14 | 06 JAN 10 | 19 JAN 10 | 19 JAN 10 | 19 JAN 10 | 0 |
| CM6610 | S13-14 | 14 | 20 JAN 10 | 04 FEB 10 | 04 FEB 10 | 04 FEB 10 | 0 |
| CM6620 | S14-15 | 14 | 05 FEB 10 | 20 FEB 10 | 20 FEB 10 | 20 FEB 10 | 0 |
| CM6630 | S15-16 | 14 | 22 FEB 10 | 09 MAR 10 | 09 MAR 10 | 09 MAR 10 | 0 |
| CM6640 | S17-18 (Trenchless) | 87 | 15 OCT 09 | 15 OCT 09 | 15 OCT 09 | 27 JAN 10 | 0 |
| CM6650 | S19-20 | 70 | 28 JAN 10 | 19 APR 10 | 19 APR 10 | 19 APR 10 | 0 |
| CM6660 | S21-22 | 0 | 0 | 0 | 0 | 0 | 0 |



2009 2010 2011
 FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN

DCI/2007/18
 Yung Shue Wan and Sok Kwu Wan Village Sewerage - Stage 1 Works
 Project Programme Rev. 5

Start Date 31 JAN 08
 Finish Date 19 APR 10

Page : 4A

Legend:
 ▲ Early start point
 ▼ Early finish point
 ▲ Critical point
 ▼ Summary point
 ◆ Start milestone point
 ◆ Finish milestone point
 Progress bar
 Critical bar
 Summary bar

Revision 1: 16 JUN 08
 Revision 2: 03 SEP 08
 Revision 3: 31 OCT 08
 Revision 4: 24 DEC 08
 Revision 5: 24 DEC 08

Checked: Approved: SIL: KYS: SIL: KC: SIL: KYS: SIL: KYS: SIL: KYS:



Appendix G

Summary of Implementation Status of Mitigation Measures during Site Inspection



Environmental Mitigation Implementation Schedule

| Environmental Protection Measures | Location | Implementation Status | | | |
|---|-------------|-----------------------|-----------------------|-----------------|----------------|
| | | Implemented | Partially implemented | Not implemented | Not Applicable |
| Air Quality | | | | | |
| <ul style="list-style-type: none"> ▪ Stockpiles of imported material kept on site should be contained within hoarding, dampened and / or covered during dry and windy weather. | All areas | | √ | | |
| <ul style="list-style-type: none"> i. Material stockpiled alongside trenches should be covered with tarpaulins whenever works are close to village houses. | All areas | √ | | | |
| <ul style="list-style-type: none"> ▪ Water sprays should be used during the delivery and handling of cement, sands, aggregates and the like. | All areas | √ | | | |
| <ul style="list-style-type: none"> ▪ Any vehicle used for moving sands, aggregates and construction waste should have properly fitting side and tail boards. Materials should not be loaded to a level higher than the side and tail boards, and should be covered by a clean tarpaulin. | All areas | √ | | | |
| <ul style="list-style-type: none"> ▪ Unpaved areas should be watered regularly to avoid dust generation. | Site Egress | √ | | | |
| <ul style="list-style-type: none"> ▪ The enclosures should be around the main dust-generating activities. | All areas | √ | | | |
| <ul style="list-style-type: none"> ▪ All plant and equipment should be well maintained e.g. without black smoke emission. | All areas | √ | | | |
| <ul style="list-style-type: none"> ▪ Open burning should be prohibited. | All areas | √ | | | |
| Noise Impact | | | | | |
| <ul style="list-style-type: none"> ▪ Quite powered mechanical equipment (PME) or method should be used. | All areas | √ | | | |
| <ul style="list-style-type: none"> ▪ The number plant should be restricted (1 item for each type of plant). | All areas | √ | | | |
| <ul style="list-style-type: none"> ▪ Only well maintained plant should be operated on-site and plant should be serviced regularly during the construction works. | All areas | √ | | | |
| <ul style="list-style-type: none"> ▪ Mobile plant, if any, should be sited as far away from NSRs as possible. | All areas | √ | | | |
| <ul style="list-style-type: none"> ▪ Machines and plants that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum. | All areas | √ | | | |
| <ul style="list-style-type: none"> ▪ Plant known to emit noise strongly should be orientated so that the noise is directed away from nearby NSRs. | All areas | √ | | | |
| <ul style="list-style-type: none"> ▪ The constructions works should be scheduled to minimize noise nuisance. | All areas | √ | | | |
| <ul style="list-style-type: none"> ▪ Air compressors and hand held breakers should have noise labels. | All areas | √ | | | √ |
| <ul style="list-style-type: none"> ▪ Compressors and generators should operate with door closed. | All areas | √ | | | |
| Water Quality | | | | | |
| General Construction Works | | | | | |
| <ul style="list-style-type: none"> ▪ Debris and rubbish generated on-site should be collected, handled and disposed of properly to avoid entering the nearby coastal water and stormwater drains. | All areas | √ | | | |
| <ul style="list-style-type: none"> ▪ All fuel tanks and storage areas should be provided with locks and be sited on sealed area, within bunds of a capacity equal to 110% of the storage capacity of the largest tank. | All areas | √ | | | |
| <ul style="list-style-type: none"> ▪ Open drainage channels and culverts near the works areas should be covered to block the entrance of large debris and refuse. | All areas | √ | | | |

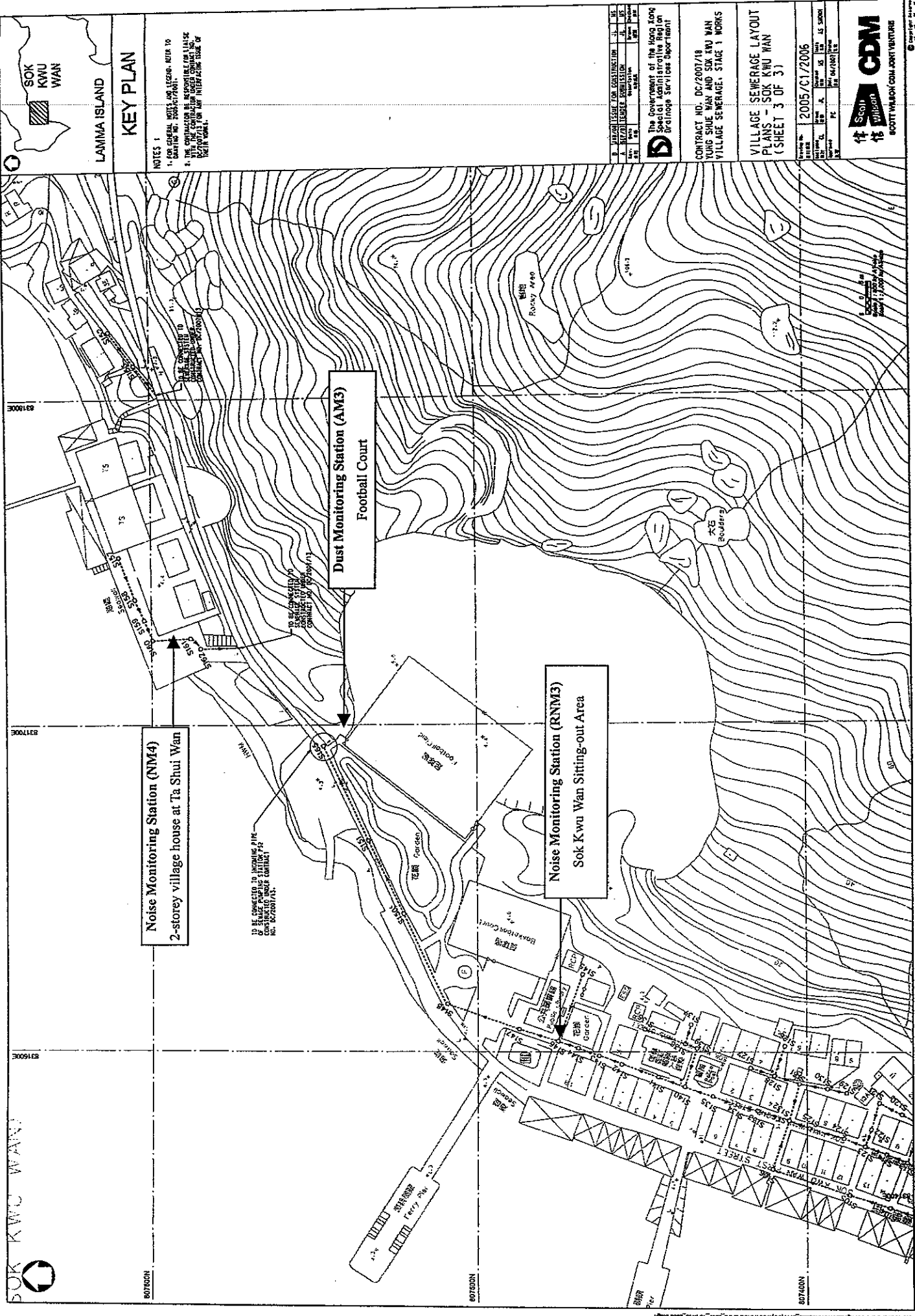


| Environmental Protection Measures | Location | Implementation Status | | | |
|---|-----------|-----------------------|-----------------------|-----------------|----------------|
| | | Implemented | Partially implemented | Not Implemented | Not Applicable |
| Waste Management | | | | | |
| General Site Wastes | | | | | |
| • Appropriate measures, such as transporting wastes in enclosed containers, should be taken to minimize windblown litter and dust to nearby environment. | All areas | ✓ | | | |
| • Sufficient waste disposal points and regular waste collection for disposal should be provided. | All areas | ✓ | | | |
| • A collection area for construction site waste should be provided where waste can be stored prior to removal from site. | All areas | ✓ | | | |
| • Good site practices should be adopted to clean the rubbish and litter on a regular basis so as to prevent the rubbish and litter from dropping into the nearby environment. | All areas | ✓ | | | |
| • Records of the quantities of waste generated, recycled and disposed should be kept and maintained. | All areas | | ✓ | | |
| • Different types of waste should be segregated and stored in different containers, skips or stockpiles to enhance reuse or recycling of material and their proper disposal. | All areas | ✓ | | | |
| Chemical Wastes | | | | | |
| • After use, chemical waste should be handled according to the Code of Practice on the Package, Labelling and Storage of Chemical Wastes. | All areas | ✓ | | | |
| • Any unused chemicals or those with remaining functional capacity should be recycled. | All areas | ✓ | | | |
| • Waste should be properly stored on site within suitably designed containers and should be collected by an approved licensed waste collectors for disposal at the Chemical Waste Treatment Facility or other licensed facility in accordance with the Waste Disposal (Chemical Waste) (General) Regulation under the Waste Disposal Ordinance. | All areas | ✓ | | | |
| • Any service shop and minor maintenance facilities should be located on hard standing within a bunded area, and sumps and oil interceptors should be provided. | All areas | ✓ | | | |
| • Maintenance of vehicles and equipment involving activities with potential for leakage and spillage should be undertaken within the designated areas equipped control these discharges. | All areas | ✓ | | | |
| Construction and Demolition (C&D) Wastes | | | | | |
| • C&D waste should be separated on site before disposal. | All areas | ✓ | | | |
| • Inert material, such as concrete and rubble, should be re-used on site. | All areas | ✓ | | | |
| • Steel and other metals should be separated for re-use and / or recycling prior to disposal of C&D material. | All areas | ✓ | | | |
| Ecological Impact | | | | | |
| • Labelling and fencing of the uncommon tree species. | All areas | | | | ✓ |
| • Avoidance of use of woodland habitats as Works Area, in particular where trees located. | All areas | ✓ | | | |

| Environmental Protection Measures | Location | Implementation Status | | | |
|--|-----------|-----------------------|-----------------------|-----------------|----------------|
| | | Implemented | Partially implemented | Not implemented | Not Applicable |
| Landscape and Visual Impact | | | | | |
| <ul style="list-style-type: none"> Existing trees should be retained. Damage to vegetation should be minimized by close coordination and on site alignment adjusted of rising main and gravity sewer pipelines. Short excavation and immediate backfilling section upon completion of works should be performed to reduce active site area. | All areas | √ | | | |
| Site Practice | | | | | |
| <ul style="list-style-type: none"> The Contractor assigned worker is responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site. Proper storage and site practices to minimise the potential for damage or contamination of construction materials. All generators, fuel and oil storage are within bundle areas. Oil leakage from machinery, vehicle and plant should be prevented. The Environmental Permit should be displaced conspicuously on site. | All areas | | √ | | |
| | All areas | | √ | | |
| | All areas | √ | | | |
| | All areas | √ | | | |
| | All areas | √ | | | |



Figures



KEY PLAN

LAMMA ISLAND

SOK KWU WAN

NOTES

- 1. FOR GENERAL NOTES AND LEGEND, REFER TO DRAWING NO. 2005/C1/2006/1.
- 2. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FOR THE WORKS.
- 3. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FOR THE WORKS.

TO BE COMPLETED BY THE CONTRACTOR AT HIS OWN RISK AND EXPENSE.

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KEY PLAN

LAMMA ISLAND

SOK KWU WAN

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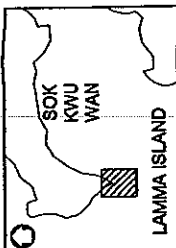
CDM
SCOTT WILSON CONSULTANTS

Contract No. DC/2007/18
YUNG SHUI WAN AND SOK KWU WAN
VILLAGE SEWERAGE, STAGE 1 WORKS

VILLAGE SEWERAGE LAYOUT
PLANS - SOK KWU WAN
(SHEET 3 OF 3)

Revision: 2005/C1/2006

| Rev. | Date | By | Appr. | Description |
|------|------------|-------------|-------------|------------------------|
| 1 | 15/05/2006 | [Signature] | [Signature] | Issue for Construction |
| 2 | 15/05/2006 | [Signature] | [Signature] | Issue for Construction |
| 3 | 15/05/2006 | [Signature] | [Signature] | Issue for Construction |
| 4 | 15/05/2006 | [Signature] | [Signature] | Issue for Construction |
| 5 | 15/05/2006 | [Signature] | [Signature] | Issue for Construction |
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| 7 | 15/05/2006 | [Signature] | [Signature] | Issue for Construction |
| 8 | 15/05/2006 | [Signature] | [Signature] | Issue for Construction |
| 9 | 15/05/2006 | [Signature] | [Signature] | Issue for Construction |
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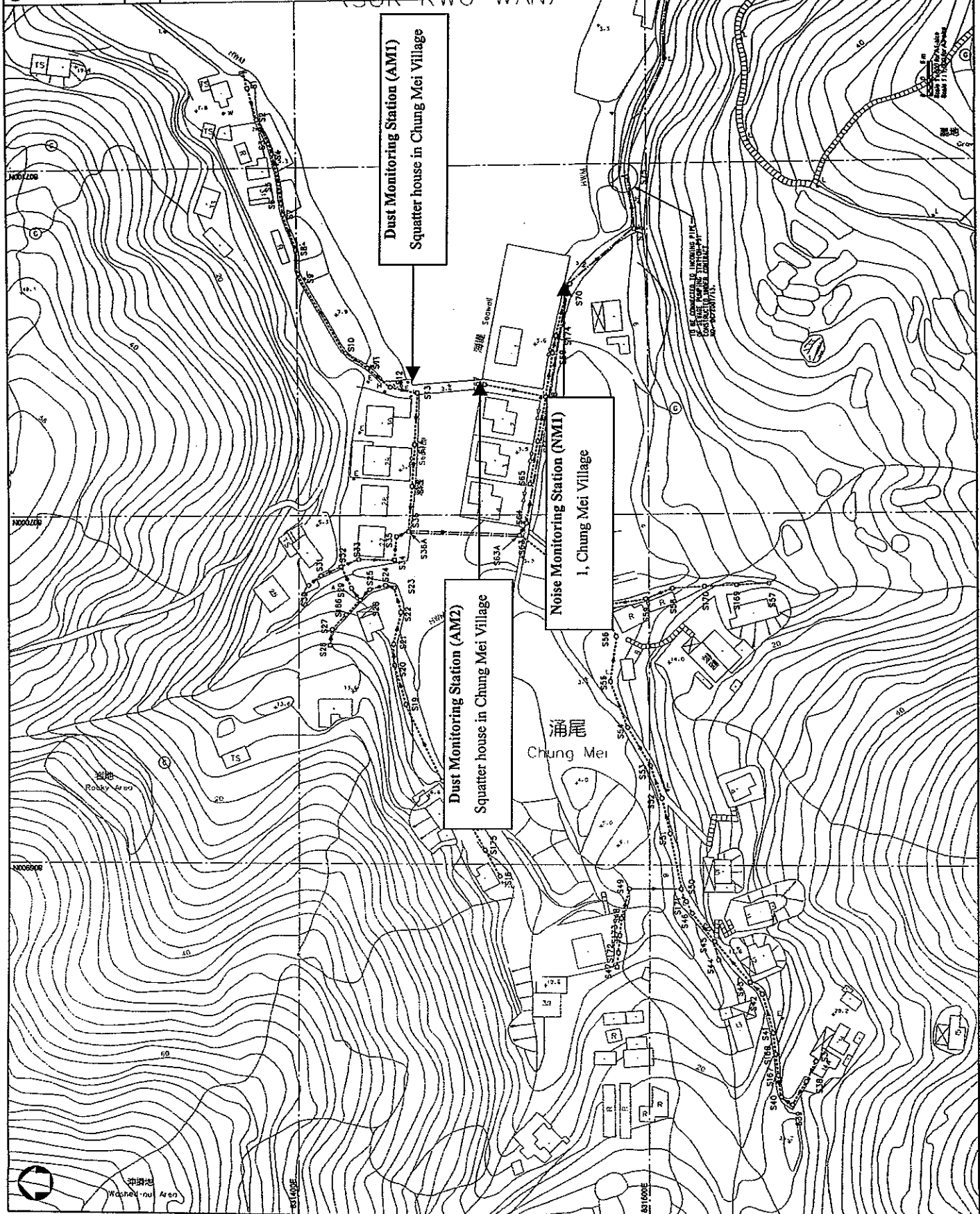
KEY PLAN

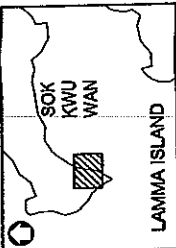
NOTES: 1. SCALE: 1:5000 (SEE PROJECT MANUAL FOR MORE DETAILS)

CONTRACT NO. 02/2007/18
 YUNG SHUE WAN AND SOK KWU WAN
 VILLAGE SEWERAGE, STAGE 1 WORKS

VILLAGE SEWERAGE LAYOUT
 PLANS - SOK KWU WAN
 (SHEET 1 OF 3)

Issue No. 2005/C1/2004
 Date of Issue 15/05/2004
 Drawn by AS SHAM
 Checked by AS SHAM
 Approved by AS SHAM





KEY PLAN

NOTES:
 1. FOR GENERAL NOTES AND LEGEND, REFER TO DRAWING NO. 2005/C1/2005/1.

| | | |
|-----|------------|-------------------|
| NO. | DATE | DESCRIPTION |
| 1 | 11/05/2005 | ISSUED FOR TENDER |
| 2 | 11/05/2005 | ISSUED FOR TENDER |
| 3 | 11/05/2005 | ISSUED FOR TENDER |
| 4 | 11/05/2005 | ISSUED FOR TENDER |
| 5 | 11/05/2005 | ISSUED FOR TENDER |
| 6 | 11/05/2005 | ISSUED FOR TENDER |
| 7 | 11/05/2005 | ISSUED FOR TENDER |
| 8 | 11/05/2005 | ISSUED FOR TENDER |
| 9 | 11/05/2005 | ISSUED FOR TENDER |
| 10 | 11/05/2005 | ISSUED FOR TENDER |

The Government of the Hong Kong Special Administrative Region
 Office of the Director of Environmental Protection

CONTRACT NO. DC/2007/18
 YUNG SHUE WAN AND SOK KWU WAN
 VILLAGE SEWERAGE - STAGE 1 WORKS

VILLAGE SEWERAGE LAYOUT
 PLANS - SOK KWU WAN
 (SHEET 2 OF 3)

DATE: 2005/11/2005

SCALE: AS SHOWN

PROJECT NO: DC/2007/18

DATE: 11/05/2005

PROJECT NO: DC/2007/18

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PROJECT NO: DC/2007/18

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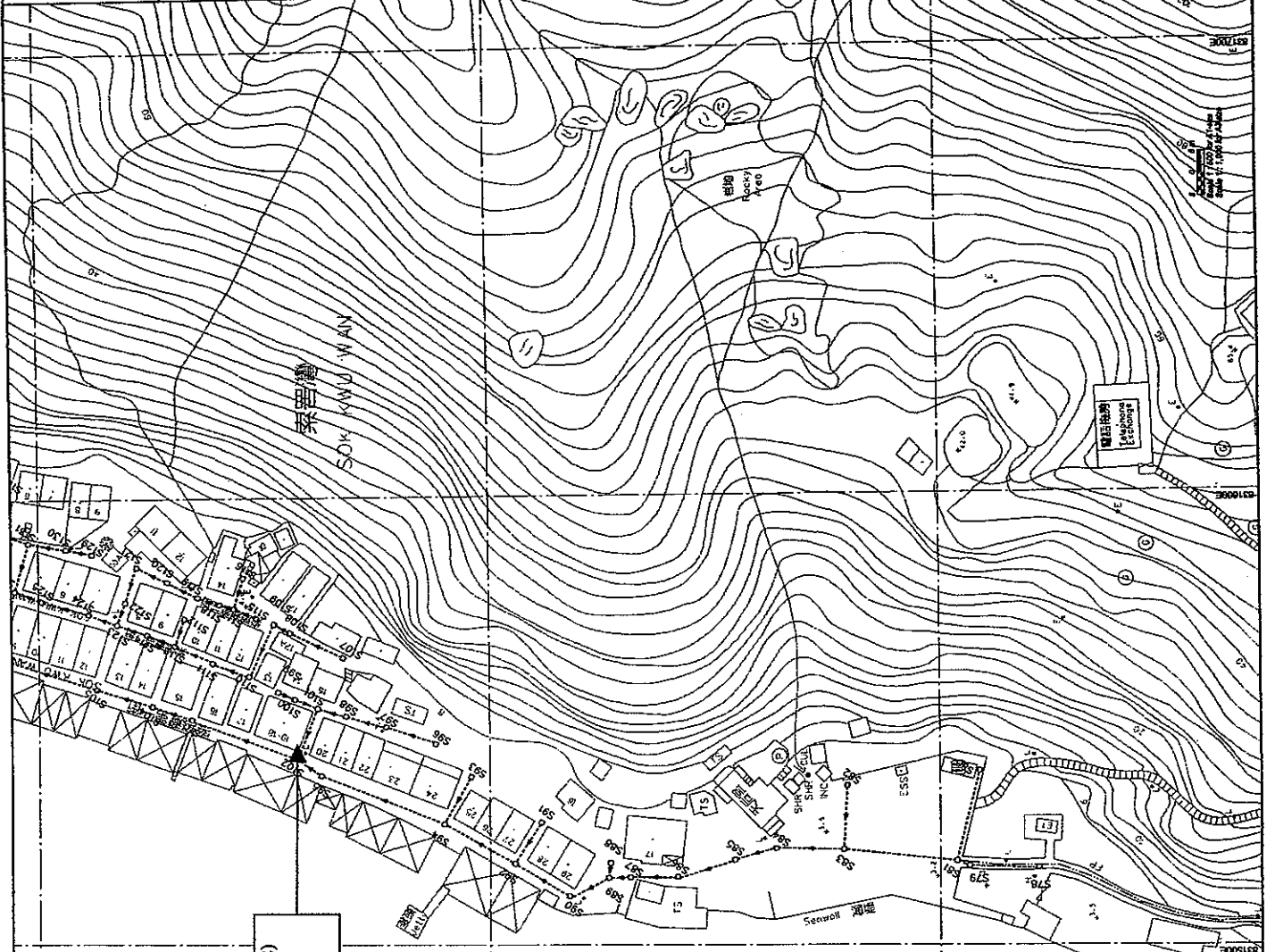
PROJECT NO: DC/2007/18

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DATE: 11/05/2005

PROJECT NO: DC/2007/18



Noise Monitoring Station (NM2)
 20, Sok Kwu Wan

索罟灣
 PICNIC BAY
 (SOK KWU WAN)



807400N

807300N

807200N

801400E

801300E

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