Contract No.: DE/99/12 Outlying Islands Sewerage – Stage 1 Phase 1 Upgrading of Siu Ho Wan Sewage Treatment Plant – E&M Works

ENVIRONMENTAL MONITORING AND AUDIT MONTHLY EM&A REPORT No. 10

BioEnviroLink Technologies Limited March 2004

APPROVAL & DISTRIBUTION SHEET

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EXECUTIVE SUMMARY

This is the tenth monthly Environmental Monitoring and Audit (EM&A) Report for the Drainage Services Department Contract No. DE/99/12 entitled "Upgrading of Siu Ho Wan STP – E&M Works Outlying Islands Sewerage – Stage 1 Phase 1C". (Environmental Permit No. EP-076/2000)

This report contains the results and findings of site inspection activities and EM&A works carried out by the Environmental Team (ET) of the E&M Contractor as required in the contract during March 2004.

The site activities in the reporting period mainly consisted of installation of centrifuge feed pumps and pipework at centrifuge pump area of Centrifuge Building, anionic polymer stock tanks, preparation unit and pipework at Chemical Building, building services, electrical equipment and HVAC system air ductwork at Administration Building, as well as scraper and 3T overhead crane at Primary Tanks.

There were no complaints received or notifications of summons or successful prosecutions during March 2004.

The main planned activities for April 2004 with regard to E&M equipment installation consist of

- 1. Installation of centrifuge feed pumps and pipework at centrifuge pump area of Centrifuge Building
- 2. Installation of cationic polymer pipework for stock tanks and preparation unit at polyelectrolyte area of Centrifuge Building
- 3. Installation of anionic polymer pipework for stock tanks and preparation unit at Chemical Building
- 4. Installation of building services, electrical equipment and HVAC system air ductwork at Administration Building, Centrifuge Building and Chemical Building
- 5. Installation of flight scrapers at Primary Tanks
- 6. E&M installation of sludge transfer pump and associated equipment at Sludge Transfer Chamber
- 7. E&M installation of grit pump and associated equipment at Grit Pumping Station
- 8. Installation of odour duct at Odour Plant and Sludge Buffer Tanks
- 9. Installation of cable trays and accessories at Cable Trenches and all Buildings

- 10. E&M installation of return liquor pumps and associated equipment at Return Liquor P/S
- 11. Installation of centrifuge control panel on steel platform and LV & control panel in Centrifuge MCC & Control Room
- 12. E&M installation of rail train system and fast rolling doors
- 13. Installation of odour plant, including electrical installation & cable wiring
- 14. Installation of runways for A-frame overhead crane on Mixing Tanks
- 15. Installation of mixers at Primary Tanks
- 16. Installation of cable trays and accessories at Primary Tanks
- 17. Cable wiring and termination in all buildings

1. BACKGROUND INFORMATION

1.1 Introduction

This is the tenth monthly Environmental Monitoring and Audit (EM&A) Report for the Drainage Services Department Contract No. DE/99/12 entitled "Upgrading of Siu Ho Wan STP – E&M Works Outlying Islands Sewerage – Stage 1 Phase 1C". The site layout plan, with the indication of a temporary storage of installation items as well as the designated waste storage area, is shown in Appendix 1. The report was prepared by the Environmental Team, BioEnviroLink Technologies Limited, of the E&M Contractor, Mitsubishi Corporation (Hong Kong) Limited. The report is to be submitted to the Contractor, the Engineer and the Environmental Protection Department.

This report presents the results of the environmental monitoring of the project activities conducted during the month of March 2004. This included regular site inspections once per week for verification of implementation of the mitigation measures as recommended in the EM&A Manual.

The E&M installation works has already commenced in June 2003 and is anticipated to be completed on 11 October 2004.

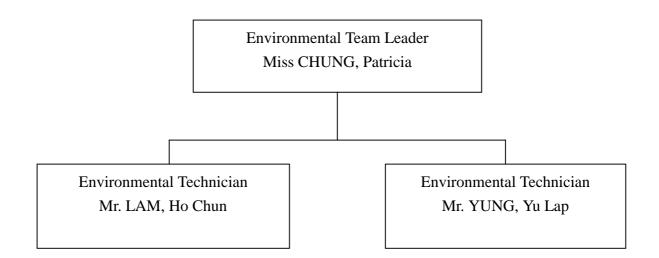
The contact persons and telephone number of key personnel for the captioned project are shown in Appendix 2.

1.2 Project Organization and Management

The Environmental Team, which comprises the environmental team leader and the environmental technicians to undertake the environmental monitoring and audit work for this project, has commissioned BioEnviroLink Technologies Limited. The project Organization Chart of Environmental Team is shown in Figure 1.2.

Figure 1.2 Organization Chart of Environmental Team

Environmental Team Organization Chart



2. SUMMARY OF WORK ACTIVITIES

A summary of the site works in this month, with the information of locations, details of each activity, equipment/materials and dates of occurrence, is listed in Table 1.

Table 1: Work Activities for March 2004

Item	Location	Work Activities	Date of Occurrence
		- Installation of scraper	17 – 30 March
1	Primary Tank	- Setting out and installation of 3T	1 – 31 March
		overhead crane	1 21 1/
		- Installation of electrical services	1 – 31 March
	Chemical	equipment - Installation of Anionic Polymer Stock	1 – 27 March
2	Building	Tanks, Preparation Unit & Pipework	
	Dunding	- Installation of Anionic Polymer and	1 – 27 March
		Alum Pumps & associated pipework	1 2/ 1/14/01
		- Installation of centrifuge feed pumps	1 – 31 March
		and Pipework at centrifuge pump area	
		- Installation of Cationic Polymer Stock	1 – 31 March
	Centrifuge	Tanks, Preparation Unit & Pipework	1 2134 1
3	Building	- Setting out and installation of electrical	1 – 31 March
	\mathcal{E}	services - Installation of rail & baseplate set for	1 – 27 March
		Sludge rail train system	
		- Installation of fast rolling doors	10 – 31 March
		- Installation of building services and	1 – 31 March
		electrical equipment	
	Administration	- Installation of chiller unit & associated	1 – 31 March
4	Building	pipework	4 0435 4
	Dunding	- Installation of HVAC system air	1 – 31 March
		ductwork	1 21 March
	Cludge Duffer	Installation of fire services systemInstallation of Odour Duct & Cable	1 – 31 March 3 – 25 March
5	Sludge Buffer	Bridge & Electrical Cabling	3 – 23 Iviaicii
	Tanks		10 – 31 March
6	Detritor	- Installation of Detritor & Grit pump - Installation of Sump pump	22 – 31 March
	Denitor	- Installation of Detritor cover	10 – 20 March

3 IMPLEMENTATION OF WASTE MANAGEMENT PLAN

A Waste Management Plan has been prepared for governing a good waste management, which is essential to avoid, minimize, salvage for reuse, recycle, dispose of waste and reduce the load on landfills to improve the standards of environmental protection.

The information and the implementation status of waste management are summarized in Table 2.

<u>Table 2: Information and the implementation status of</u>
<u>Waste Management in March 2004</u>

_	Remarks
Sorting and classification of municipal solid waste are available at work site. Waste sorting facilities (bins) are provided.	Collection of municipal solid waste has been carried out since September 2003.
No inert C&D Wastes were produced at site up to March 2004. Waste dumper for temporary storage of C&D Waste are provided.	The non-inert portion of C&D Wastes has been appropriately handled since 14 October 2003.
No chemical wastes were generated in March 2004. The E&M Contractor has registered with EPD as chemical waste producer. Chemical waste storage enclosure was provided in September located near the site office.	The permit has been issued in September. Proper label and signage for Chemical waste storage enclosure and container(s) are provided.
Adequate record forms for recycled & reused waste materials for municipal waste are available and are in proper use. C&D wastes generated at site have been recorded and filed adequately.	C&D waste collector was arranged to collect the wastes on 1, 8, 19 and 26 March 2004. ET has escorted the waste collector to public landfill on 1, 8, 19 and 26 March 2004 to ensure proper waste disposal C&D wastes such as
	of municipal solid waste are available at work site. Waste sorting facilities (bins) are provided. No inert C&D Wastes were produced at site up to March 2004. Waste dumper for temporary storage of C&D Waste are provided. No chemical wastes were generated in March 2004. The E&M Contractor has registered with EPD as chemical waste producer. Chemical waste storage enclosure was provided in September located near the site office. Adequate record forms for recycled & reused waste materials for municipal waste are available and are in proper use. C&D wastes generated at site have been recorded and filed adequately

4 STATUS OF ENVIRONMENTAL PROTECTION AND SITE INSPECTIONS

4.1 Site Inspections

The Environmental Team conducted four site inspections on 4, 11, 18 and 25 March 2004.

All environmental aspects in the work areas were inspected during the weekly site walk, including air dust, surface water quality, waste management, site tidiness and hygiene.

A detailed checklist of each site inspection together with comments, relevant photos and maps have been filed and kept in site office.

The findings and results of site inspections in March 2004 are provided in Section 4.2.

4.2 Status of Environmental Protection

Air Dust

Stockpile of excavated material were accumulated at storage area in Portion G. The Contractor is required to cover the material with plastic sheets or spray water for dust suppression.

In order to comply with the Air Pollution (Construction Dust) Regulation, the contractor has to arrange water truck to spray water for dust suppression at least twice a day. However, the frequency of watering was not maintained as scheduled, sometimes due to rainy conditions.

Surface Water Quality

In general, the E&M installation work does not cause significant environmental impact on surface water.

The contractor has applied mosquito drugs to such locations as Flowmeter Chamber, Flow Separation Chamber, Return Liquor Pump Station, Detritor as well as Ferric

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Chloride Tank, once per week to prevent mosquito breeding.

Two chemical toilets have been provided by a licensed contractor, of which sewage generated is collected weekly without causing contamination on surface water. Weekly records are kept properly for each sewage collection.

A wastewater discharge permit has been issued effective since 29 November 2003.

Noise

All installation activities were being carried out within normal working hours during March 2004. There are no existing sensitive receivers identified in the vicinity of Siu Ho Wan works. A noise permit for working during restricted hours has been issued effective since 26 September 2003.

Waste / Chemical Waste

Site activity has started in June 2003. A designated waste storage area is provided for the storage of general wastes and C&D wastes, as specified in the waste management plan.

No chemical waste was produced at site up to March 2004. An adequate chemical waste storage enclosure and containers for storage of chemical wastes in accordance with WMP have already been provided on-site (See Appendix 1).

The follow-up work for proper handling of C&D Wastes has been carried out in March. No *inert C&D Wastes* were produced at site up to March 2004. A C&D waste dumper has been provided since October 2003 for the disposal of the non-inert portion of C&D waste. ET has taken measures to ensure the waste collector has properly dumped the waste in public landfill; photos are taken for reference and record.

Sorting and classification of municipal solid wastes have been carried out at work site during March 2004. Properly labeled waste collection bins are available for sorting and collecting aluminum cans, waste paper and plastic bottles.

Information of recycled and collected wastes (for the month of March 2004) are summarized as follows:

Types of wa	stes Recycled	Estimated quantity
Municipal	Paper	40 kg
Municipal	Aluminum Cans	240 pcs
Municipal	Plastic Bottles	34 pcs
C&D Waste	Timber	7 kg

Types of Waste Disposed		Estimated quantity
C& D Waste	Non-inert Type	6.0 tonnes

The Municipal wastes are temporarily stored in the sorting bins at site whereas C&D wastes, such as timber, are reused on-site. Records of recycled and collected wastes are properly kept and filed at site.

The Contractor has reused cable armours as knots to tie up cables in cable trenches. Suppliers of cables are contacted to collect and reuse emptied cable drums at site, as shown in photos in Appendix 4.

Registered waste collectors, as listed in the following table, have been arranged to collect and transport the wastes whenever necessary.

Type of Wastes	Collector Company Name	Tel No.
Municipal Waste	Luen Hop Environment Dev. Ltd.	6083 3208
Recycler		
C&D wastes	Strong Base Environmental Services & Engineering Co. Ltd.	2797 9812
Chemical waste	Enviropace Ltd.	2435 7700
	Strong Base Environmental Services & Engineering Co. Ltd.	2797 9812

5 SUMMARY OF DEFICIENCY, NON-COMPLIANCES AND REMEDIAL ACTIONS

Deficiency	Action taken
• It was noted that ponding water and accumulated rainwater have been found at Primary Tank in March.	
• It was noted that some wasted packaging materials were found at site, including the Centrifuge building, Chemical Building and the temporary storage area.	• The contractor has disposed the packaging materials accordingly and
 Stockpiles of excavated materials were accumulated at Storage Area in Portion G. It could possibly cause dust problem. The open area of the Primary Tanks and site accesses were dusty in very dry and windy days The Wheel Washing Basin provided by the civil contractor was demolished 	suppression measures such as cover with plastic/canvas sheets or watering; The Contractor should pay more effort to carry out action as recommended. • The Contractor has provided watering but the frequency was not enough.

6. CUMULATIVE LOG OF COMPLAINTS AND REMEDIAL ACTION

There is no complaint received in association with installation activities during March 2004. The cumulative of complaints is referred in Appendix 3.

7. CUMULATIVE LOG OF NOTIFICATION OF SUMMONS AND PROSECUTIONS

No notification of summons and no prosecutions occurred during March 2004.

8. FUTURE KEY ISSUES

The planned activities for the coming three months (April 2004 – June 2004) and anticipated environmental issues with regard to E&M equipment are summarized as follows:

Item	Location	Works	Anticipated Environmental
			Issues
1	Administrative Building	 Building services and electrical equipment installation HVAC air ductwork, chilled water pipework & condensation pipework installation 	 Plastic packaging material will be generated and should be re-used on site or disposed properly.
2	Primary Tank	 Sludge scraper and scum collector installation Mixers installation Electrical system installation 	 Ponding water should be pumped away. Plastic and timber will be generated and should be re-used on site or disposed properly
3	Chemical Building	 Electrical system installation Polymer preparation system, Alum & Anionic Polymer Stock Tanks installation Chemical pumps & pipework installation Water pipe installation 	- Plastic and armored cable will be generated and should be re-used on site or disposed properly
4	Centrifuge Building	 Centrifuge feed pumps and pipework installation Cationic Polymer and Preparation unit installation 	 Plastic & timber will be generated and should be re-used on site, or disposed properly.

- Fast rolling door installation - Sludge rail train installation - LV & MCC panels installation - Sludge transfer pump & - Timber will be generated and should be re-used on site, or disposed properly. Sludge Transfer Chamber		1		<u> </u>
- Sludge rail train installation - LV & MCC panels installation - Sludge transfer pump & pipework installation - Odour duct & cable bridge installation - Grit pump & pipework installation - Grit pump & pipework properly. - Grit pump & pipework properly Electrical system installation - FRP cover installation - Chemical Pipe Trench - Cable Trench - Electrical power cable installation - Cable Trench - Codour scrubber & centrifugal fan installation - Odour duct installation - Odour duct installation - Chemical / water pipework installation - Chemical / water pipework installation - Electrical system installation - Electrical system installation - Chemical / water pipework installation - Electrical system installation - Electrical system installation - Electrical system installation				
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- LV & MCC panels installation - Sludge transfer pump & - Timber will be generated and should be re-used on site, or disposed properly. - Chamber - Containment pipework installation - Electrical system installation - Containment pipework installation - Chamber - Ch				
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Odour Plant installation Odour duct installation Chemical / water pipework installation Electrical system installation re-used on site, or disposed properly.				
9 Odour Plant - Odour duct installation - Chemical / water pipework installation - Electrical system installation				
- Chemical / water pipework installation - Electrical system installation				
- Chemical / water pipework installation - Electrical system installation	9	Odour Plant		properly.
- Electrical system installation				
installation				
- Booster pump, pressure Timber will be generated and				
			- Booster pump, pressure	- Timber will be generated and
vessel and pipework should be re-used on site, or				
installation disposed properly.			installation	
10 Other Area - Electrical system - Plastic & timber will be	10	Other Area	- Electrical system	- Plastic & timber will be
installation generated and should be			installation	
- Lamp Pole installation re-used on site, or disposed			- Lamp Pole installation	
properly.				
Open Area & Farthwork and vehicle Pegular watering should be	1.1	Open Area &	- Earthwork and vehicle	
Site Accesses movements provided - Regular watering should be	11			

The site inspection schedule for the next month (April 2004) is designated on 1, 8, 15, 22 and 29 April 2004.

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9. CONCLUSION

No non-compliances were found during the weekly site inspections being conducted. Also there is no summon nor prosecutions reported during March 2004.

The contractor has taken some actions to meet environmental requirements such as applying pumping facilities to pump out stagnant water, proper sorting out and disposal of municipal wastes, reusing C&D wastes (timbers) at site, provision of chemical waste storage facility, C&D waste dumper, and application of relevant environmental permits. However, some deficiencies were found in certain areas including ponding water in the hoppers of the Primary Tanks, inadequate covering of the excavated material at storage area in Portion G and the watering of open area and site accesses.

The contractor was reminded to pay more efforts on environmental concerns and awareness such as maintaining site cleanliness, removal of ponding water; proper action taken on disposal of wasted packaging material; full implementation of dust suppression measures for open site areas as well as stockpiles of soil, and proper management of site activities which may lead to any possible environmental impacts.

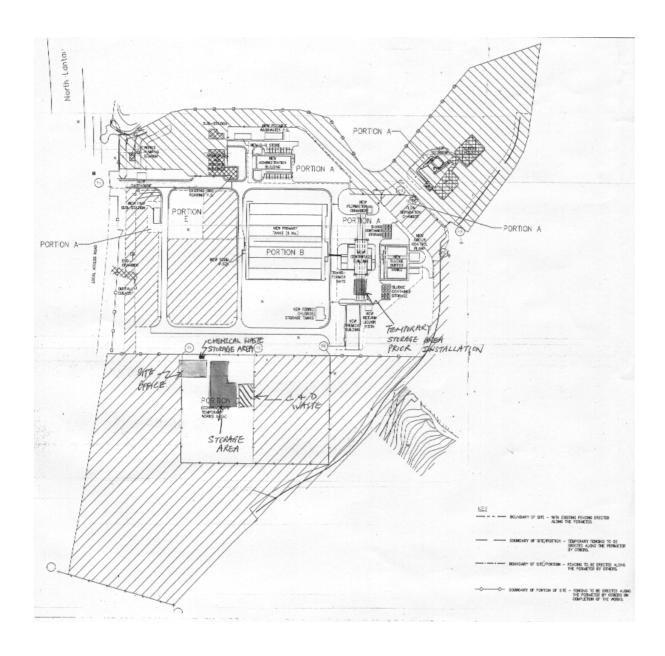
Improvement of site tidiness is an urgent need. Scattered waste found around site, e.g. lunch boxes, bottles and plastic bags etc, should be cleared immediately. The Contractor should always keep the site tidy and clean.

ET has taken proper action, including vehicle escort, to ensure that the registered waste collector properly dispose the waste at public landfill.

The environmental condition at site was acceptable in March 2004, though the contractor should make more effort to rectify the deficiencies in future.

Appendix 1

SITE INSPECTION CHECKLISTS AND SITE INSPECTION LAYOUT PLAN



Appendix 2

THE CONTACT PERSONS, TELEPHONE NUMBERS OF KEY PERSONNEL FOR UPGRADE OF SIU HO WAN SEWAGE TREATMENT WORKS

Company/Department	Name	Position	Telephone
Maunsell Environmental Management		Independent	
Consultants Limited	Mr. Ivan Ng	Environmental	61917256
		Checker	
Maunsell Environmental Management	Mr Titue Voung	Resident Site	90209585
Consultants Limited	wii. Titus Teung	Engineer	90209363
Mitsubishi Corporation (Hong Kong)	Mr. W B Chu	Site Agent	29840779
Limited		C	29040779
Mitsubishi Corporation (Hong Kong)	Mr. Staphan Gu	Site Engineer	29840779
Limited	Mi. Stephen Gu	Site Eligilieei	29040779
BioEnviroLink Technologies Limited	Miss. Patricia	Environmental	2185 0123
BioEnviroEnik Technologies Eninted	Chung	Team Leader	2103 0123
DioEnvirol ink Technologies Limited	Mr. Ho-Chun	Environmental	2185 0154
BioEnviroLink Technologies Limited	Lam	Technician	2103 0134

Appendix 3

CUMULATIVE LOG OF COMPLAINTS

Environmental	Cumulative no.	No. of complaint	Overall Total
Parameters	Brought forward	March 2004	
Air	0	0	0
Noise	0	0	0
Water	0	0	0
Waste	0	0	0
Total	0	0	0

DETAILS OF COMPLAINTS AND REMEDIAL ACTIONS

Log		Complainant		Investigation	0
Ref.	Compliant received	/Date	Complaint	/Mitigation Action	by/ Date

Appendix 4
SUPPLIER COLLECT CABLE DRUM FOR REUSE





RECYCLING OF CABLE ARMOUR AT CABLE TRENCH



