

**Central Reclamation, Phase III
Quarterly EM&A Report No. 22
(November 2008 through January 2009)**

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Abbreviations & Acronyms

ACL	Atkins China Limited
AL	Action Level
CEDD	Civil Engineering and Development Department
CRIII	Central Reclamation Phase III
DO	Dissolved Oxygen
EIA	Environmental Impact Assessment
EIAO	Environmental Impact Assessment Ordinance
EM&A	Environmental Monitoring and Audit
EPD	Environmental Protection Department
ER	Engineer's Representatives
ET	Environmental Team
IEC	Independent Environmental Checker
LCSD	Leisure and Cultural Services Department
LCSVO-JV	Leighton China State Van Oord Joint Venture
LL	Limit Level
PLA	People's Liberation Army Forces Hong Kong
TDD	Territory Development Department
TSP	Total Suspended Particulates
SS	Suspended Solids
WMP	Waste Management Plan

Not Used

Executive Summary

The Central Reclamation Phase III (CRIII) Works, Contract No. HK 12/02, was awarded to Leighton China State Van Oord Joint Venture (LCSVO-JV) by the Civil Engineering and Development Department (CEDD). (Previously called the Territory Development Department before merger with the Civil Engineering Department on 1st July 2004.)

The works under the Contract HK 12/02 commenced on 28th February 2003. Contract HK 16/03 for the CRIII Hinterland Drainage Improvement Works was awarded to Wang Kee Construction Co. Ltd., and works for this contract commenced on 17th December 2003.

Atkins China Limited (ACL) has been commissioned by CEDD as the Environmental Team (ET) to undertake the Environmental Monitoring and Audit (EM&A) programme described in the approved EM&A Manual for the CRIII Project.

This is the 22nd quarterly EM&A Report for the works specified in Section 1.3 of the CRIII EIA Report. This report summarises the monitoring results and audit findings of the EM&A program during the reporting period from 1st November 2008 to 31st January 2009.

Environmental Monitoring and Audit Progress

Air quality, noise and water quality monitoring were conducted during this quarter. Weekly environmental site inspections were also conducted during this reporting quarter.

Exceedance of Action and Limit Levels

No exceedance in TSP level was recorded at the two monitoring stations during this reporting quarter.

Nineteen exceedances of noise were recorded at the City Hall monitoring station on 12th, 18th, 19th and 22nd November 2008 and 12th January 2009.

The exceedances on the 12th November 2008 may have been caused by concurrent operation of both backhoe and drilling activities. ET communicated this with the Contractor on 13th November 2008 (approx. 13:10). The noise exceedances were investigated and it was suggested that the Contractor schedule the construction activities at the former Queen's Pier carefully.

The noise exceedances between the 18th and 19th November 2008 may have been caused by the concurrent operation of drilling activities in the works area of the former Queen's Pier. ET communicated this with the Contractor representative on 19th September 2008 (approx. 16:20). The noise exceedance was investigated and it was suggested that the drilling works at the former Queen's Pier should be scheduled and operated carefully.

The noise exceedance on the 22nd November 2008 may have been due to the pre-boring works encountering the former seawall at the former Queen's Pier. The ET communicated this with the Contractor representative on 26th November 2008 (approx. 14:30). The noise exceedance was investigated and it was suggested that the Contractor schedule the construction activities at the former Queen's Pier carefully.

For the noise exceedances outlined above, it was also suggested that short breaks between noisy activities be taken as far as practicable. The Contractor was reminded to provide clear guidelines for the frontline staff to prevent the undertaking of activities such as drilling without short breaks in the former Queen's Pier works area.

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Three noise exceedances were also recorded on 17th November 2008. However, the investigation revealed that a pre-war bomb was detonated several times at the Tamar site during this time. As such, the noise exceedances were considered to be attributed to the pre-war bomb detonation rather than the project works, with no immediate actions considered necessary.

On 12th January 2009, activities involving the Ceremonial Opening of the Legal Year 2009 were observed in front of City Hall during the period 13:00 to 15:00 hours where two exceedances were recorded. Following this, decoration dismantling activities were observed, starting after 16:00 hours, where one exceedance was recorded. The exceedances have been investigated and as such, are considered to be attributed to other external factors and unlikely to be related to project works.

Water quality exceedances were recorded on 19 sampling days in this reporting quarter. All exceedances have been investigated. All exceedances of Action/Limit Level for DO were considered to have not been related to the Project works. All exceedances of Action/Limit Level for SS were considered to have not been related to the Project works.

Complaint Log

There were no complaints received in relation to environment impact during this reporting quarter.

Notifications of Summons and Prosecutions

There were no notifications of summons or prosecutions received during this reporting quarter.

Site Inspection and Audit

Weekly environmental site inspections were carried out during this quarter. Minor deficiencies noted during the site inspections were rectified by the Contractor upon receipt of notification. The observations and findings are outlined below:

6th November 2008

The silt curtain at the mouth of FRAE was observed as not fully attached during site inspection. The Contractor was reminded to ensure the silt curtain is installed properly.

13th November 2008

A part of the access road was observed dry with dust emission at IRAW. The contractor was reminded to prevent dust emission from the access roads by watering.

27th November 2008

Some stockpiles of fine materials at FRAW were not covered entirely by sheeting. The Contractor was reminded to prevent dust emissions by ensuring stockpiles of dusty materials are covered entirely by sheeting.

4th December 2008

Notification was provided by RE to the Contractor on 2nd December where it was reported that the silt curtain at FRAW was not installed appropriately resulting in leakage of silt. Remedial action took place by the Contractor whereby the silt curtain was properly installed. Appropriate installation was further clarified during the site inspection with no discolouration of water outside the silt curtain observed.

11th December 2008

Muddy discharge was observed in culvert J near the works area of the underpass. The muddy discharge was trapped by various silts curtains in the vicinity of culvert J and no muddy discharge was seen to have dispersed to the Harbour. The Contractor was reminded to provide additional silt curtains to ensure such muddy discharge is localised, if muddy discharge is unavoidable. Further to this, notification was provided by the Contractor on 12th December 2008 whereby it was informed that no further muddy discharge was observed on the same day

The notification was provided by RE to the Contractor on 11th December where it was reported that a large amount of muddy water was being discharged into Culvert F Temporary Diversion Channel from various work fronts along the channel. The follow-up observation to this was conducted with the IEC during this site inspection whereby no muddy water was observed. Further to this, remedial action took place by the Contractor whereby 2 additional silt curtains were installed at culvert F near the General Post Office for precaution. It was reported by the Contractor on 12th December 2008 that further to such installation, no muddy discharge was dispersed to the Harbour.

18th December 2008

Patches of soil contaminated with oil were observed due to machine maintenance in the works area of the former Queen's Pier. The Contractor was reminded to collect and dispose of the contaminated soils as chemical waste.

24th December 2008

Executive Summary

Part of the access roads was observed dry with dust emissions in the works area of former Queen's Pier. The Contractor was reminded to prevent dust emissions from the access roads by sufficient watering.

8th January 2009

The loading area was observed dry with dust emission at IRAE. The Contractor was reminded to prevent dust emissions from the works area by sufficient watering.

15th January 2009

N/A

22nd January 2009

The Contractor was reminded to cover the stockpiles of dusty material for the prevention of dust emission during the public holiday period.

29th January 2009

N/A

1. INTRODUCTION

1.1 Basic Project Information

The Main Works Contract HK 12/02 for CRIII commenced on 28th February 2003 and was awarded to Leighton-China State-Van Oord Joint Venture (LCSVO-JV) for the construction of the CRIII Engineering Works. The main construction works that were identified in the EIA Report for the Project, requiring environmental monitoring and audit, have commenced.

This is the 22nd quarterly EM&A Report for the works specified in Section 1.3 of the CRIII EIA Report. This report summarises the monitoring results and audit findings of the EM&A program during the reporting period from 1st November 2008 to 31st January 2009.

The Contractor's works programme for the quarter is provided in *Annex E*.

1.2 Project Organisation and Management Structure

Atkins China Limited (ACL) has been commissioned by CEDD as the Environmental Team (ET) to undertake the Environmental Monitoring and Audit (EM&A) programme described in the approved EM&A Manual and required under Clause 4 of the Variation of Further Environmental Permit (No. EP-01/122/2003/A) issued to Leighton-China State-Van Oord Joint Venture in December 2007 for the CRIII Project. A variation of the Further Environmental Permit for the Project (EP-01/122/2003/B) was granted on 26th May 2008. This was then superseded by another variation of Further Environmental Permit for the Project (No. EP-01/122/2003/C) granted on 17th July 2008. The CRIII Project Organisation is shown in *Annex A*.

1.3 Works Undertaken

The works undertaken in the project area requiring environmental monitoring and audit as identified in the EIA Report (not including Chai Wan Basin) during this reporting quarter include:

- Rockfilling and geotextile layer behind the seawall in FRAW;
- Type A filling in FRAW and FRAE above +2.5mPD;
- Surcharging in FRAW and FRAE;
- Rockfilling behind the seawalls in FRAE;
- Installation of seawall blocks in FRAE & FRAW;
- Construction of cantilever slab at caisson;
- Pre-drilling and piling for Culvert F;
- Sheet piling, Excavation and Structural works for Culvert F;
- Structural works for Public Pier East (Pier No.10);
- Structural works for the MTRC 40 metre EOT;
- Remedial and outstanding works at and around Piers 7 & 8, Public Pier West and the CTB;
- General filling works above +2.5 mPD in IRAE;
- Construction of storm and foul drainage and gullies in hinterlands for Road P2, Road D7, Road D8 and Road D9 and adjacent to the GPO;
- Structural works for Eastern tunnel and Pump Sump and sheetpiling for Western Ramp at Road P2 Underpass;
- Roadworks along Lung Wui Road, Tim Wa Avenue (Road D8) and Road P2;

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- Excavation and structural works for Culvert K extension ;
- Precasting for Culvert K, seawall blocks and retaining wall (offsite);
- Installation of cooling water mains for Tamar Development Project at IRAE;
- Reinstatement works for Culvert J; and
- Construction of New ER Office.

2. EM&A REQUIREMENTS

2.1 Summary of Impact EM&A Requirements

The EM&A programme requires environmental monitoring for air quality, noise, waster quality, waste management and landscape and visual aspects as specified in the CRIII Project EIA. The EM&A requirements for each issue area are described in subsequent sections including:

- All required monitoring parameters;
- Action and Limit Levels; and
- Event-Action Plans.

A summary of impact EM&A requirements is presented in *Table 2-1*.

Table 2.1 - Summary of Impact EM&A Requirements

Parameters	Descriptions	Locations	Frequencies	Duration
TSP	24-Hour TSP	2 Locations	Once every 6 days	During dust generating construction works
	1-Hour TSP	2 Locations	Three times in every 6 days	During dust generating construction works
Noise	Leq (30 mins), L ₁₀ , L ₉₀ ,	1 Location	Continuous measurements	Two weeks before Construction and During Construction
Water Quality	Dissolved Oxygen; Salinity; Temp; Suspended Solids; Turbidity.	16 Locations	3 times a week, Mid-ebb/flood tides	During Marine Works and for 4 weeks after completion of Marine Works
Waste	On-Site Waste Audit	Active Work Sites	Periodically	During Construction
	On-Site Waste Inspection			
Landscape and Visual	Audits to ensure effective implementation of mitigation measures			During Construction
General Site Conditions	Environmental Site Inspection	Works areas and areas affected by works	Periodically	During Construction

Additional water quality monitoring for the “Type A fill” filling works was undertaken by the Contractor (LCSVO-JV) in accordance with Condition 3.3 of Environmental Permit No. EP-01/122/2003/C. Phase 2 monitoring for filling works at FRAW was as conducted on 5th, 7th and 10th November 2008. “Type A fill” filling works by bottom dumping at FRAW was completed thereafter, therefore the additional Water Quality Monitoring for Type A filling was ceased from 14th November 2008.

2.2 Environmental Quality Performance Limits

Environmental Quality Performance Limits for air quality, noise and water quality have been established as part of the Baseline Monitoring Report and are provided in ***Annex B***.

2.3 Event Action Plan

Event Action Plans for air quality, noise and water quality have been developed as part of the Baseline Monitoring Report and are provided in ***Annex C***.

3. ENVIRONMENTAL STATUS

3.1 Implementation of Environmental Measures

The Contractor has implemented relevant mitigation measures listed in the EIA Report, EM&A Manual and Further Environmental Permit.

3.2 Environmental Monitoring Locations

Drawings showing the project area and locations of the monitoring stations are provided in *Annex D*.

3.3 Air Quality Monitoring Results

The graphical plot of air quality monitoring results for this reporting quarter is provided in *Annex F*.

3.4 Noise Quality Monitoring Results

The graphical plot of noise monitoring results for this reporting quarter is provided in *Annex G*.

3.5 Water Quality Monitoring Results

The graphical plot of water quality monitoring results for this reporting quarter is provided in *Annex H*. The water quality monitoring at stations M2A, M3_M5A, M4B and M5B on 17th November 2008 was cancelled due to the detonation of pre-war bomb in the site area.

3.6 Solid and Liquid Waste Management Status

Solid and liquid waste management was implemented according to the Waste Management Plan during this reporting quarter.

3.7 Landscape and Visual Audit

As the works undertaken during this reporting quarter were mainly related to reclamation, buildings and infrastructure works, the landscape and visual impacts are considered to be minimal.

Not Used

4. ENVIRONMENTAL COMPLAINT AND NON-COMPLIANCE

4.1 Environmental Exceedances

No exceedance in TSP level was recorded at the two monitoring stations during this reporting quarter.

Nineteen exceedances of noise were recorded at the City Hall monitoring station on 12th, 18th, 19th and 22nd November 2008 and 12th January 2009.

The exceedances on the 12th November 2008 may have been caused by concurrent operation of both backhoe and drilling activities. ET communicated this with the Contractor on 13th November 2008 (approx. 13:10). The noise exceedances were investigated and it was suggested that the Contractor schedule the construction activities at the former Queen's Pier carefully.

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The noise exceedance on the 22nd November 2008 may have been due to the pre-boring works encountering the former seawall at the former Queen's Pier. The ET communicated this with the Contractor representative on 26th November 2008 (approx. 14:30). The noise exceedance was investigated and it was suggested that the Contractor schedule the construction activities at the former Queen's Pier carefully.

For the noise exceedances outlined above, it was also suggested that short breaks between noisy activities be taken as far as practicable. The Contractor was reminded to provide clear guidelines for the frontline staff to prevent the undertaking of activities such as drilling without short breaks in the former Queen's Pier works area.

Three noise exceedances were also recorded on 17th November 2008. However, the investigation revealed that a pre-war bomb was detonated several times at the Tamar site during this time. As such, the noise exceedances were considered to be attributed to the pre-war bomb detonation rather than the project works, with no immediate actions considered necessary.

On 12th January 2009, activities involving the Ceremonial Opening of the Legal Year 2009 were observed in front of City Hall during the period 13:00 to 15:00 hours where two exceedances were recorded. Following this, decoration dismantling activities were observed, starting after 16:00 hours, where one exceedance was recorded. The exceedances have been investigated and as such, are considered to be attributed to other external factors and unlikely to be related to project works.

Water quality exceedances were recorded on 19 sampling days in this reporting quarter. All exceedances have been investigated. All exceedances of Action/Limit Level for DO were considered to have not been related to the Project works. All exceedances of Action/Limit Level for SS were considered to have not been related to the Project works.

The water quality exceedances during this reporting quarter are summarised in Table 4.1.

Table 4.1 - Summary Water Quality Exceedances from November 2008 to January 2009

Date	Tide	Parameter	Exceedance	Station
Water Quality Monitoring in Accordance with EM&A Manual				
3 rd November 2008	Mid-ebb	DO	AL	M1A, M2A, M3_M5A, M4B, M5B, M6, M10(B), M11 and M12
	Mid-flood	DO	AL	M2A, M3_M5A, M4B, M5B, M6, M10(B), M11 and M12
		SS	AL	M5B
5 th November 2008	Mid-ebb	DO	AL	M1A, M2A, M3_M5A, M4B, M5B, M6, M10(B), M11 and M12
	Mid-flood	DO	AL	M1A, M2A, M3_M5A, M4B, M5B, M6, M10(B), M11 and M12
7 th November 2008	Mid-ebb	DO	AL	M1A, M2A, M3_M5A, M4B, M5B, M6, M8(S/M), M8(B), M10(B), M11 and M12
	Mid-flood	DO	AL	M1A, M2A, M3_M5A, M4B, M5B, M6, M8(S/M), M8(B), M10(S/M), M10(B), M11 and M12
10 th November 2008	Mid-ebb	DO	AL	M2A, M4B, M5B, M6m M8(B) and M12
	Mid-flood	DO	AL	M1A, M2A, M3_M5A, M4B, M5B, M6, M8(B), M11 and M12
		SS	AL	M5B
12 th November 2008	Mid-ebb	DO	AL	M6 and M12
	Mid-flood	DO	AL	M6
		SS	AL	M6
14 th November 2008	Mid-ebb	DO	AL	M6, M11 and M12
		SS	AL	M6 and M12
	Mid-ebb	DO	AL	M8(B)
		SS	AL	M3_M5A and M12
17 th November 2008	Mid-flood	DO	AL	M10(B)
		SS	AL	M1A and M11
19 th November 2008	Mid-flood	DO	AL	M8(B)
		SS	AL	M1A
24 th November 2008	Mid-ebb	DO	AL	M1A, M2A, M3_M5A, M4B, M5B, M6, M8(B), M10(B), M11 and M12
	Mid-flood	DO	AL	M1A, M2A, M3_M5A, M4B, M5B, M6, M8(B), M10(B), M11 and M12
26 th November 2008	Mid-ebb	DO	AL	M1A, M2A, M3_M5A, M4B, M5B, M6, M11 and M12
	Mid-flood	DO	AL	M1A, M2A, M3_M5A, M4B, M5B, M6, M8(B), M11 and M12
1 st December 2008	Mid-flood	SS	AL,LL	M6 and M12
3 rd December 2008	Mid-ebb	DO	AL	M6
5 th December 2008	Mid-ebb	DO	AL	M6
8 th December 2008	Mid-ebb	DO	AL	M2A
10 th December 2008	Mid-ebb	DO	AL	M1A, M2A, M4B and M5B
	Mid-flood	DO	AL	M6 and M12
12 th December 2008	Mid-ebb	DO	AL	M6 and M12
	Mid-flood	DO	AL	M1A, M6, M10(B), M11 and M12
19 th December 2008	Mid-ebb	DO	AL	M4B, M5B, M6 and M12

Date	Tide	Parameter	Exceedance	Station
	Mid-flood	DO	AL	M2A, M4B, M6 and M12
22 nd December 2008	Mid-ebb	DO	AL	M6 and M12
	Mid-flood	DO	AL	M6
5 th January 2009	Mid-ebb	DO	AL	M6

Additional Water Quality Monitoring Conducted by the Contractor				
12 th November 2008	Mid-ebb	SS	AL	Combined marine impact monitoring station (AM1-AM3)

A statistical analysis (presented in *Annex I*) of the suspended solids monitoring results found that the quarterly mean is significantly less than 1.3 times of the ambient mean recorded during the baseline period. This indicates that the Project construction works did not cause adverse impacts during the reporting period with respect to the baseline condition.

4.2 Non-Compliance

No non-compliance with regard to site environmental audit was recorded during the reporting period.

4.3 Summary of Actions Taken by the Contractor

The Contractor has implemented the following measures to prevent air and water quality impacts:

- Contractor has implemented their Drainage Management Plan to Control Site Run-off for the wet season – actions completed and underway include: repair and improvement of existing bunds/sandbags on the edge of the reclamation; installation of additional bunds; compaction of soil surface and paths where possible to prevent erosion, creation of drainage channels and soak pits;
- Provision of a single *WetSep* flocculation based water treatment plant and additional settlement tanks to remove suspended solids from discharge waters;
- Provision of catch pits to collect spill over from wheel washing facilities and increased frequency of cleaning of catch-pits; and
- Water browsing of haul roads and other areas of the site and covering of stockpiles.

4.4 Environmental Enquiries

No environmental enquiries were received during this reporting quarter.

4.5 Environmental Complaints and Prosecutions

No environmental complaints were received during this reporting quarter.

4.6 Record of Environmental Complaints and Summons & Prosecutions

There was no record of environmental complaints during this reporting quarter.

There were no notifications of summons and prosecutions during this reporting quarter.

5. CONCLUSION

During the environmental site inspections conducted within this reporting quarter, no non-compliances were noted and no prosecutions were received during this reporting quarter.

No exceedance in TSP level was recorded at the two monitoring stations during this reporting quarter.

Nineteen exceedances of noise were recorded at the City Hall monitoring station on 12th, 18th, 19th and 22nd November 2008 and 12th January 2009.

The exceedances on the 12th November 2008 may have been caused by concurrent operation of both backhoe and drilling activities. ET communicated this with the Contractor on 13th November 2008 (approx. 13:10). The noise exceedances were investigated and it was suggested that the Contractor schedule the construction activities at the former Queen's Pier carefully.

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