



<b>HY2004/09 Improvements to San Tin Interchange</b>					
<b>Notifications of Environmental Quality Limits Exceedance</b>				Notification No.: 065	
<b>Date of Notification:</b> 3 <sup>rd</sup> October 2006			<b>Time:</b> 17:00		
<b>Works Inspected:</b> Data collected from restricted hour noise monitoring on 1 <sup>st</sup> October 2006, Sunday					
<b>Monitoring Location:</b> CM2 - Village House near San Tin Highway					
<b>Parameter:</b> Noise (Leq 15 min)					
<b>Action &amp; Limit Levels</b>			<b>Measured Level:</b>		
Time Period	Action Level	Limit Level	Time	Location	Noise Level
07:00–23:00 hrs General Holiday	-	65dB(A)	11:08 – 11:23 hrs	CM2*	<b>75dB(A)</b>
<b>Possible reason for Action or Limit Level Non-compliance:</b>					
<p>During the measurement period, no project-related works were observed to be undertaken near the monitoring location. Further to discussion with the Contractor and subsequent confirmation from the Resident Engineer, the major construction activity during the time of measurement was grinding machine operation at N2 works area which is over 150m away from CM2.</p> <p>The major noise sources during the noise measurement were the road traffic from San Tin Highway and non-project related construction activities (concrete breaking and mobile crane operation) due to a nearby project works undertaken by another contractor (i.e. China Harbour Engineering). To this end, the noise exceedance recorded on 1<sup>st</sup> October 2006 may have been caused by a combination of high ambient road traffic noise from San Tin Highway and the nearby non-project related construction activities. Thus, the exceedance was not to be attributable to project works.</p> <p><b>Note</b> * A positive correction of 3dB(A) has been applied to the measured noise level at CM2 according to EPD's guideline.</p>					
<b>Actions taken/ to be taken:</b>					
As the noise exceedance was not project related, no immediate actions are necessary.					

Prepared by : Howard Chan Title : Environmental Team

Signature :  Date : 3<sup>rd</sup> October 2006

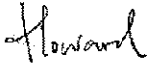
Reviewed and approved by : Susana Bezy Title : Environmental Team Leader

 Date : 3/10/06

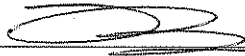
Sent to : RE, Contractor, EPD & IEC

<b>HY2004/09 Improvements to San Tin Interchange</b>					
<b>Notifications of Environmental Quality Limits Exceedance</b>				Notification No.: 066	
<b>Date of Notification:</b> 9 <sup>th</sup> October 2006			<b>Time:</b> 17:00		
<b>Works Inspected:</b> Data collected from restricted hour noise monitoring on 8 <sup>th</sup> October 2006, Sunday					
<b>Monitoring Location:</b> CM2 - Village House near San Tin Highway					
<b>Parameter:</b> Noise (Leq 15 min)					
<b>Action &amp; Limit Levels</b>			<b>Measured Level:</b>		
Time Period	Action Level	Limit Level	Time	Location	Noise Level
07:00–23:00 hrs General Holiday	-	65dB(A)	13:29 – 13:44 hrs	CM2*	<b>69dB(A)</b>
<b>Possible reason for Action or Limit Level Non-compliance:</b>					
<p>During the measurement period, no project-related works were observed to be undertaken near the monitoring location and the key noise source was the road traffic from San Tin Highway. Further to discussion with the Contractor and subsequent confirmation from the Resident Engineer, the major construction activity during the time of measurement was woodcutting at N2 works area which is over 100m away from CM2. To this end, the noise exceedance recorded on 8<sup>th</sup> October 2006 was found to have been caused by the high ambient road traffic noise from San Tin Highway and was not to be attributable to project works.</p>					
<p><b>Note *</b> A positive correction of 3dB(A) has been applied to the measured noise level at CM2 according to EPD's guideline.</p>					
<b>Actions taken/ to be taken:</b>					
As the noise exceedance was not project related, no immediate actions are necessary.					

Prepared by : Howard Chan Title : Environmental Team

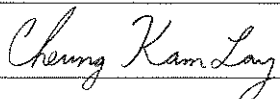
Signature :  Date : 9<sup>th</sup> October 2006

Reviewed and approved by : Susana Bezy Title : Environmental Team Leader

 Date : 9/10/06

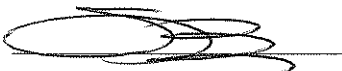
Sent to : RE, Contractor, EPD & IEC

<b>HY2004/09 Improvements to San Tin Interchange</b>					
<b>Notifications of Environmental Quality Limits Exceedance</b>				Notification No.: 067	
<b>Date of Notification:</b> 17 <sup>th</sup> October 2006			<b>Time:</b> 12:00		
<b>Works Inspected:</b> Data collected from restricted hour noise monitoring on 15 <sup>th</sup> October 2006, Sunday					
<b>Monitoring Location:</b> CM2 - Village House near San Tin Highway					
<b>Parameter:</b> Noise (Leq 15 min)					
<b>Action &amp; Limit Levels</b>			<b>Measured Level:</b>		
Time Period	Action Level	Limit Level	Time	Location	Noise Level
07:00–23:00 hrs General Holiday	-	65dB(A)	14:05 – 14:20 hrs	CM2*	<b>68dB(A)</b>
<b>Possible reason for Action or Limit Level Non-compliance:</b>					
<p>During the measurement period, no project-related works were observed to be undertaken near the monitoring location and the key noise source was the road traffic from San Tin Highway. Further to discussion with the Contractor and subsequent confirmation from the Resident Engineer, the major construction activities during the time of measurement were crane operation and woodcutting at N2 works area which is over 100m away from CM2. To this end, the noise exceedance recorded on 15<sup>th</sup> October 2006 was found to have been caused by the high ambient road traffic noise from San Tin Highway and was not to be attributable to project works.</p>					
<p><b>Note *</b> A positive correction of 3dB(A) has been applied to the measured noise level at CM2 according to EPD's guideline.</p>					
<b>Actions taken/ to be taken:</b>					
As the noise exceedance was not project related, no immediate actions are necessary.					

Prepared by : K. L. Cheung  


Title : ET - Environmental Consultant

Date : 17<sup>th</sup> October 2006

Reviewed and approved by : Susana Bezy  


Title : Environmental Team Leader

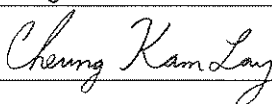
Date : 17/10/06

Sent to : RE, Contractor, EPD & IEC

<b>HY2004/09 Improvements to San Tin Interchange</b>		Notification No.: 068
<b>Notifications of Environmental Quality Limits Exceedances</b>		
<b>Date of Notification:</b> 20 <sup>th</sup> October 2006	<b>Time:</b> 09:30	
<b>Works Inspected:</b> Contaminated area at Site A on 18 <sup>th</sup> October 2006		
<b>Monitoring Location:</b> -		
<b>Parameter:</b> Nil		
<b>Description for Action or Limit Level Non-compliance:</b>		
<p>Section 8.3 of the EM&amp;A Manual requires submission of a Contamination Assessment Report (CAR) and Remediation Action Plan (RAP) for EPD's approval and site clean up works should be conducted before the construction works of the Project. It was found on 18<sup>th</sup> October 2006 that the concerned area (about 1.4m x 1.4m x 1m) which has been identified to be contaminated by TPH, was excavated by the Contractor. The excavated material was segregated and covered on site. The CAR / RAP was submitted to EPD. However, the submitted CAR / RAP, has not yet been approved by EPD and no verification sampling, as recommended in the CAR/RAP, was carried out during the excavation. This is considered a non-compliance with EM&amp;A requirements.</p> <p>The Contractor was immediately informed and the works at the concerned area was stopped. The RE and IEC were also informed. A meeting was subsequent held with the Contractor, RE and IEC to discuss the incident and possible mitigation measures.</p>		
<b>Actions taken/ to be taken:</b>		
<p>The Contractor was asked to implement the following:</p> <ul style="list-style-type: none"> <li>- excavation and construction works should not be carried out at the concerned area until an approval of the CAR / RAP is received from EPD;</li> <li>- verification sampling shall be carried out and tested for TPH level in accordance with the procedures described in the CAR/ RAP (Sites A and E) in order to ensure complete removal of contaminated material. As the soil at the edge of excavation has already exposed to atmosphere, samples should be taken at the inner layer as much as possible at the side-walls and at the bottom of excavation [Remark: the Contractor has already collected verification samples at inner layer at the side-walls and at the bottom of excavation on 20<sup>th</sup> October 2006. Collected samples were delivered to a HOKLAS accredited laboratory for testing TPH levels];</li> <li>- material already excavated from this concerned area (about 2m<sup>3</sup>) shall be properly stored on site and handled as contaminated material. The excavated material is currently stored on an existing concrete-paved ground floor. Tarpaulin sheets are used to cover the stockpile at the top and at the bottom. The Contractor should ensure the stockpile is fully contained on-site by tarpaulin sheet and a layer of sandbag barrier should be installed surrounding the stockpile in order to avoid any material from flushing away during heavy rainfall and to minimize wind erosion. Adequate fencing should be provided surrounding the stockpile, and warning signs indicating "contaminated material" should also be posted at the stockpiling area. Unauthorised entry should be prevented. Given the stockpile is properly contained, only small quantity of leachate (if any) would be expected which should be collected and treated by sedimentation and oil interceptor before discharge. The Contractor should make sure adequate equipment / treatment facilities are readily available on site;</li> <li>- impervious sheeting should be used to cover the excavated area and the exposed soil surface in order to minimize material from flushing away by rain and wind erosion. In case of heavy rainfall and water is collected inside the excavated location, the collected water should also be collected and treated before discharge; and</li> <li>- workers must wear protective clothes, masks and personal protective equipment when works in this area and when handling excavated material;</li> </ul>		

Prepared by : K. L. Cheung

Title : ET - Environmental Consultant



Date : 24<sup>th</sup> October 2006

Reviewed and approved by : Susana Bezy

Title : Environmental Team Leader



Date : 24<sup>th</sup> October 2006

Sent to : RE, Contractor, EPD & IEC

**Contract No. HY/2004/09 Improvements to San Tin Interchange**

**Environmental Non-Compliance (ENC) Form**

Site: Contaminated Area at Site A  
ENC No: 05

**Non-Compliance Received**

Date: 18 October, 2006  
Time: 17:00  
By: Henry Ng

**Nature of Non-Compliance**

Date of ENC: 20th October 2006  
Time of ENC: N/A  
Media: Dust                      Noise      Water      Other: land contamination  
Description:

Section 8.3 of the EM&A Manual requires submission of a Contamination Assessment Report (CAR) and Remediation Action Plan (RAP) for EPD's approval and site clean up works should be conducted before the construction works of the Project. It was found on 18th October 2006 that the concerned area (about 1.4m x 1.4m x 1m) which has been identified to be contaminated by TPH, was excavated by the Contractor. The excavated material was segregated and covered on site. The CAR / RAP was submitted to EPD. However, the submitted CAR / RAP, has not yet been approved by EPD and no verification sampling, as recommended in the CAR/RAP, was carried out during the excavation. This is considered a non-compliance with EM&A requirements.

The Contractor was immediately informed and the works at the concerned area was stopped. The RE and IEC were also informed. A meeting was subsequent held with the Contractor, RE and IEC to discuss the incident and possible mitigation measures.

Response: The Contractor was immediately notified about the non-compliance.

Recommendations: The Contractor was asked to implement the following:

1. - excavation and construction works should not be carried out at the concerned area until an approval of the CAR / RAP is received from EPD;
2. verification sampling shall be carried out and tested for TPH level in accordance with the procedures described in the CAR/ RAP (Sites A and E) in order to ensure complete removal of contaminated material. As the soil at the edge of excavation has already exposed to atmosphere, samples should be taken at the inner layer as much as possible at the side-walls and at the bottom of excavation [Remark: the Contractor has already collected verification samples at inner layer at the side-walls and at the bottom of excavation on 20th October 2006. Collected samples were delivered to a HOKLAS accredited laboratory for testing TPH levels];

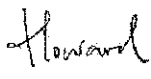
3. material already excavated from this concerned area (about 2m<sup>3</sup>) shall be properly stored on site and handled as contaminated material. The excavated material is currently stored on an existing concrete-paved ground floor. Tarpaulin sheets are used to cover the stockpile at the top and at the bottom. The Contractor should ensure the stockpile is fully contained on-site by tarpaulin sheet, and a layer of sandbag barrier should be installed surrounding the stockpile in order to avoid any material from flushing away during heavy rainfall and to minimize wind erosion. Adequate fencing should be provided surrounding the stockpile, and warning signs indicating "contaminated material" should also be posted at the stockpiling area. Unauthorised entry should be prevented. Given the stockpile is properly contained, only small quantity of leachate (if any) would be expected which should be collected and treated by sedimentation and oil interceptor before discharge. The Contractor should make sure adequate equipment / treatment facilities are readily available on site;

4. impervious sheeting should be used to cover the excavated area and the exposed soil surface in order to minimize material from flushing away by rain and wind erosion. In case of heavy rainfall and water is collected inside the excavated location, the collected water should also be collected and treated before discharge; and

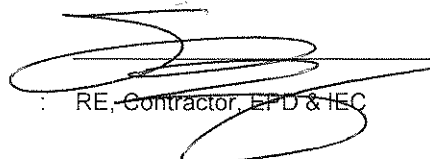
5. workers must wear protective clothes, masks and personal protective equipment when works in this area and when handling excavated material.

<b>HY2004/09 Improvements to San Tin Interchange</b>					
<b>Notifications of Environmental Quality Limits Exceedance</b>				Notification No.: 069	
<b>Date of Notification:</b> 23 <sup>rd</sup> October 2006			<b>Time:</b> 17:00		
<b>Works Inspected:</b> Data collected from restricted hour noise monitoring on 22 <sup>nd</sup> October 2006, Sunday					
<b>Monitoring Location:</b> CM2 - Village House near San Tin Highway					
<b>Parameter:</b> Noise (Leq 15 min)					
<b>Action &amp; Limit Levels</b>			<b>Measured Level:</b>		
Time Period	Action Level	Limit Level	Time	Location	Noise Level
07:00–23:00 hrs General Holiday	-	65dB(A)	10:48 – 11:03 hrs	CM2*	<b>71dB(A)</b>
<b>Possible reason for Action or Limit Level Non-compliance:</b>					
<p>During the measurement period, no project-related works were observed to be undertaken near the monitoring location. Further to discussion with the Contractor and subsequent confirmation from the Resident Engineer, the major construction activity during the time of measurement was woodcutting at N2 works area which is over 150m away from CM2.</p> <p>The major noise sources during the noise measurement were the road traffic from San Tin Highway and a nearby non-project related activity (i.e. weeding along the footpath between San Tin Highway and CM2). To this end, the noise exceedance recorded on 22<sup>nd</sup> October 2006 may have been caused by a combination of high ambient road traffic noise from San Tin Highway and the nearby non-project related construction activities. Thus, the exceedance was not to be attributable to project works.</p> <p><b>Note</b> * A positive correction of 3dB(A) has been applied to the measured noise level at CM2 according to EPD's guideline.</p>					
<b>Actions taken/ to be taken:</b>					
As the noise exceedance was not project related, no immediate actions are necessary.					

Prepared by : Howard Chan Title : Environmental Team

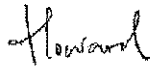
Signature :  Date : 23<sup>rd</sup> October 2006


Reviewed and approved by : Susana Bezy Title : Environmental Team Leader

 Date : 23<sup>rd</sup> October 2006

Sent to : RE, Contractor, EPD & IEC

<b>HY2004/09 Improvements to San Tin Interchange</b>					
<b>Notifications of Environmental Quality Limits Exceedance</b>				Notification No.: 070	
<b>Date of Notification:</b> 26 <sup>th</sup> October 2006			<b>Time:</b> 13:00		
<b>Works Inspected:</b> Data collected from restricted hour noise monitoring on 24 <sup>th</sup> and 25 <sup>th</sup> October 2006					
<b>Monitoring Locations:</b> CM1, CM2 - Village House near San Tin Highway, and CM3 - Village House near Kwu Tung Road					
<b>Parameter:</b> Noise (Leq 15 min)					
<b>Action &amp; Limit Levels</b>			<b>Measured Level:</b>		
Time Period	Action Level	Limit Level	Time	Location	Noise Level
19:00–23:00 hrs	-	65dB(A)	22:24–22:39 hrs (24 <sup>th</sup> October 2006)	CM1	63dB(A)
			21:57–22:12 hrs (24 <sup>th</sup> October 2006)	CM2*	<u>69dB(A)</u>
			21:26–21:41 hrs (24 <sup>th</sup> October 2006)	CM3	57dB(A)
23:00–07:00 hrs	-	50dB(A)	23:00–23:15 hrs (24 <sup>th</sup> October 2006)	CM1	<u>65dB(A)</u>
			23:29–23:44 hrs (24 <sup>th</sup> October 2006)	CM2*	<u>69dB(A)</u>
			00:02–00:17 hrs (25 <sup>th</sup> October 2006)	CM3	<u>55dB(A)</u>
<b>Possible reason for Action or Limit Level Non-compliance:</b>					
<p>During the measurement period, the major activity during the time of measurement was erection of precast viaduct segments in the N1 Division area, which is located over 450m away from monitoring stations CM1, CM2 and CM3. The dominant noise source at CM1 and CM2 was the road traffic from San Tin Highway. For CM3, the dominant noise source was vehicle pass-by noise along the access road to Ki Lun Tsuen. To this end, the noise exceedances recorded on 24<sup>th</sup> October 2006 and 25<sup>th</sup> October 2006 were found to have been caused by the high ambient road traffic noise from San Tin Highway and the vehicle pass-by noise along access road to Ki Lun Tsuen, and were not attributable to the project works.</p>					
<p><b>Note</b> * A positive correction of 3dB (A) has been applied to the measured noise level at CM2 according to EPD's guideline.</p>					
Underlined figure indicates exceedance.					
<b>Actions taken/ to be taken:</b>					
As the noise exceedance was not project related, no immediate actions are necessary.					

Prepared by : Howard Chan Title : ET - Environmental Team  
  
Date : 25<sup>th</sup> October 2006

Reviewed and approved by : Susana Bezy Title : Environmental Team Leader  
  
Date : 25/10/06

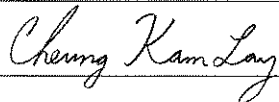
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<b>HY2004/09 Improvements to San Tin Interchange</b>					
<b>Notifications of Environmental Quality Limits Exceedance</b>				Notification No.: 071	
<b>Date of Notification:</b> 31 <sup>st</sup> October 2006			<b>Time:</b> 14:30		
<b>Works Inspected:</b> Data collected from restricted hour noise monitoring on 29 <sup>th</sup> October 2006, Sunday					
<b>Monitoring Location:</b> CM2 - Village House near San Tin Highway					
<b>Parameter:</b> Noise (Leq 15 min)					
<b>Action &amp; Limit Levels</b>			<b>Measured Level:</b>		
Time Period	Action Level	Limit Level	Time	Location	Noise Level
07:00-23:00 hrs General Holiday	-	65dB(A)	13:55 - 14:10 hrs	CM2*	<b>69dB(A)</b>
<b>Possible reason for Action or Limit Level Non-compliance:</b>					
<p>During the measurement period, no project-related works were observed to be undertaken near the monitoring location. Further to discussion with the Contractor and subsequent confirmation from the Resident Engineer, the major construction activity during the time of measurement was woodcutting at N2 works area, which is over 150m away from CM2.</p> <p>The major noise sources during the noise measurement were the road traffic from San Tin Highway. To this end, the noise exceedance recorded on 29<sup>th</sup> October 2006 may have been caused by high ambient road traffic noise from San Tin Highway. Thus, the exceedance was not to be attributable to project works.</p> <p><b>Note *</b> A positive correction of 3dB(A) has been applied to the measured noise level at CM2 according to EPD's guideline.</p>					
<b>Actions taken/ to be taken:</b>					
As the noise exceedance was not project related, no immediate actions are necessary.					

Prepared by : K. L. Cheung

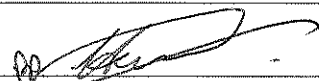
Title : ET - Environmental Consultant



Date : 31<sup>st</sup> October 2006

Reviewed and approved by : Susana Bezy

Title : Environmental Team Leader



Date : 31/10/2006

Sent to : RE, Contractor, EPD & IEC