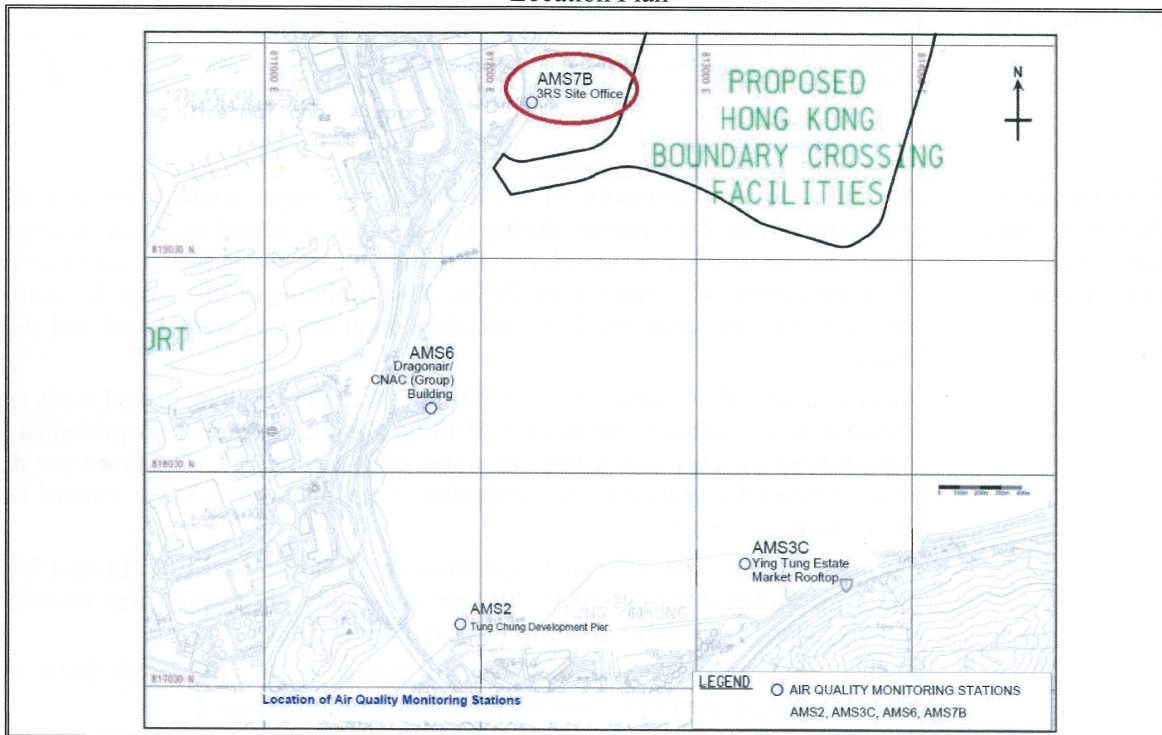


**Incident Report on Action Level or Limit Level Non-compliance**

Contract	Contract No. HY/2013/04 HZMB HKBCF – Infrastructure Works Stage II (Southern Portion)																				
Ref. No.	E105																				
Date	2 December 2019																				
Time (hh:mm)	Start time: 08:34 (a.m.)																				
Monitoring Location	AMS7B																				
Parameter	Air Quality – 24-hour TSP ( $\mu\text{g}/\text{m}^3$ )																				
Action Level	See below																				
Limit Level	See below																				
Measured Level	<div> <div>Action &amp; Limit Level (AL &amp; LL) / Measured Level:</div> <table border="1"> <thead> <tr> <th>Param.</th><th>Unit</th><th>Station ID</th><th>Description</th><th>Action Level</th><th>Limit Level</th><th>Measured Level</th></tr> </thead> <tbody> <tr> <td>24-hr TSP</td><td><math>\mu\text{g}/\text{m}^3</math></td><td>AMS7B</td><td>3RS Site Office</td><td>183</td><td>260</td><td>198</td></tr> </tbody> </table> <div> Remarks:  Bold means AL exceedance  Bold with underline means LL exceedance </div> </div>							Param.	Unit	Station ID	Description	Action Level	Limit Level	Measured Level	24-hr TSP	$\mu\text{g}/\text{m}^3$	AMS7B	3RS Site Office	183	260	198
Param.	Unit	Station ID	Description	Action Level	Limit Level	Measured Level															
24-hr TSP	$\mu\text{g}/\text{m}^3$	AMS7B	3RS Site Office	183	260	198															
Possible reason for Action or Limit Level Non-compliance	<p>According to the Contractor of HY/2013/04, the major construction activities conducted under the Contract during the monitoring period included aggregate placement for seawall capping layer, formation of remaining works, construction of utilities cross-over frame under Bridge D9c, trimming of fill slopes, U-channel casting works and concrete defect rectification at bridge external face and deck voids.</p> <p>As informed by the Contractor of HY/2013/04, watering of all main haul roads was provided in accordance with the HY/2013/04 site watering plan (as presented in <b>Attachment 1</b>). This plan schedules water spraying for at least 8 times per day which follows the recommended mitigation measures in the EM&amp;A Manual and Environmental Permit.</p> <p>During ET's regular weekly site inspections on 27 November 2019 (14:45-15:45) and 4 December 2019 (14:30-15:30), one air quality observation was recorded: namely, an exposed works area was observed dry and dusty.</p> <p>Photos relating to the Contractor's site watering on 1-3 December 2019 and abovementioned site inspections are presented in <b>Attachment 2</b>.</p> <p>The wind data collected at the AMS3C wind station at Ying Tung Estate and the Hong Kong Observatory wind station at Chek Lap Kok during the abovementioned 24-hour monitoring period (as presented in <b>Attachment 3</b>) shows that winds were in the NNW to ENE range during the 24-hour TSP monitoring. This indicates that it was unlikely that the source of exceedance could be attributed to HY/2013/04.</p> <p>Information available on EPD's Air Quality Health Index (AQHI) website shows that the short-term health risk of air pollution between 8:00 a.m. on 2 December 2019 and 8:00 a.m. on 3 December 2019 was low to moderate at Tung Chung (with maximum AQHI of 4 at 14:00-02:00 a.m. and 07:00-08:00 a.m.). The AQHI data is available online at:</p> <ul style="list-style-type: none"> <li><a href="http://www.aqhi.gov.hk/epd/ddata/html/history/2019/201912_Eng.csv">http://www.aqhi.gov.hk/epd/ddata/html/history/2019/201912_Eng.csv</a></li> </ul> <p>It was concluded that the exceedance was not due to HY/2013/04.</p>																				

Actions taken / to be taken	Although the exceedance was considered not due to HY/2013/04, the Contractor is reminded to continue the proper implementation of the site watering plan for the Contract and implement all necessary air quality mitigation measures identified in the EM&A Manual.
Remarks	<p>ET of HY/2013/04 issued notification of exceedance (NOE) as follows:</p> <ul style="list-style-type: none"> <li>• <u>24-hour TSP</u>: 20 December 2019 (Notification No. 20191202_Air_24hr).</li> </ul> <p>Attachments to this report are as follows:</p> <ol style="list-style-type: none"> <li>1. Site watering plan for HY/2013/04.</li> <li>2. Photos of Contractor's site watering on 1-3 December 2019, plus site mitigation measures and air quality observations on 27 November and 4 December 2019.</li> <li>3. Wind data during the 24-hour TSP monitoring period at AMS3C wind station at Ying Tung Estate and Hong Kong Observatory Chek Lap Kok wind station.</li> </ol>

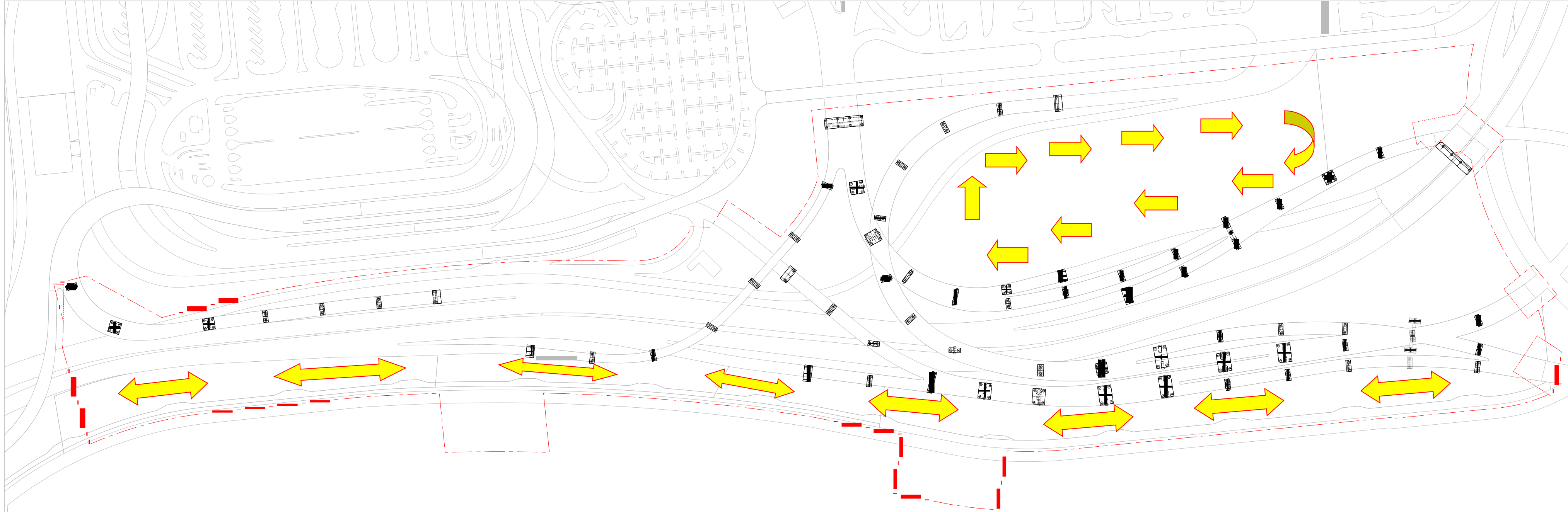
Location Plan



Prepared by: Gary Chow  
Designation: Environmental Team Leader (Contract No. HY/2013/04)  
Signature:

Date: 8 January 2020

## **Attachment 1**



1:500 ( A0 Banner )

**HY/2013/04 Site Watering Plan**

## **Attachment 2**



## Photos of dust mitigation measures







**Photo record of site mitigation measures and air quality observations  
during weekly environmental site inspection**

**27 November 2019**



1. Air quality observation: The exposed works area was observed dry and dusty.

**4 December 2019**



1. Air quality observation: The exposed works area was observed dry and dusty.



## **Attachment 3**

### Wind Data at AMS3C

Date	Time	Wind Speed (m/s)	Wind Direction
02/12/2019	8:00 AM	3.1	NE
02/12/2019	9:00 AM	3.1	NNE
02/12/2019	10:00 AM	2.7	N
02/12/2019	11:00 AM	2.2	N
02/12/2019	12:00 PM	2.2	N
02/12/2019	1:00 PM	2.2	NNW
02/12/2019	2:00 PM	2.2	N
02/12/2019	3:00 PM	2.2	NNW
02/12/2019	4:00 PM	2.2	N
02/12/2019	5:00 PM	3.1	NNE
02/12/2019	6:00 PM	2.7	NNE
02/12/2019	7:00 PM	3.1	NE
03/12/2019	8:00 PM	3.1	NE
03/12/2019	9:00 PM	2.7	NE
03/12/2019	10:00 PM	3.6	NE
03/12/2019	11:00 PM	2.7	ENE
03/12/2019	12:00 AM	2.2	NE
03/12/2019	1:00 AM	1.3	NE
03/12/2019	2:00 AM	2.2	NE
03/12/2019	3:00 AM	2.7	NE
03/12/2019	4:00 AM	1.8	NE
03/12/2019	5:00 AM	1.3	NE
03/12/2019	6:00 AM	0.4	N
03/12/2019	7:00 AM	0.9	E
03/12/2019	8:00 AM	1.8	E

**Wind Data at Chek Lap Kok Collected by the Hong Kong Observatory**

<b>Date &amp; Time</b>	<b>Wind Speed (km/h)</b>	<b>Wind Speed (m/s)</b>	<b>Wind Direction (degrees)</b>
02/12/2019 08:00	20.9	5.8	24
02/12/2019 09:00	22.7	6.3	21
02/12/2019 10:00	28.1	7.8	352
02/12/2019 11:00	26.6	7.4	1
02/12/2019 12:00	24.1	6.7	346
02/12/2019 13:00	24.5	6.8	342
02/12/2019 14:00	26.6	7.4	340
02/12/2019 15:00	25.6	7.1	347
02/12/2019 16:00	23.8	6.6	350
02/12/2019 17:00	24.5	6.8	351
02/12/2019 18:00	29.9	8.3	360
02/12/2019 19:00	22.3	6.2	21
02/12/2019 20:00	24.5	6.8	19
02/12/2019 21:00	18.7	5.2	32
02/12/2019 22:00	23.0	6.4	27
02/12/2019 23:00	20.5	5.7	35
03/12/2019 00:00	20.9	5.8	23
03/12/2019 01:00	19.8	5.5	25
03/12/2019 02:00	19.8	5.5	23
03/12/2019 03:00	14.0	3.9	34
03/12/2019 04:00	16.9	4.7	28
03/12/2019 05:00	13.7	3.8	25
03/12/2019 06:00	15.8	4.4	30
03/12/2019 07:00	26.3	7.3	43
03/12/2019 08:00	23.8	6.6	45