

Table K1 *Cumulative Statistics on Exceedances*

Parameters	Level of Exceedance	Total No. recorded in this reporting month	Total No. recorded since project commencement
1-hr TSP	Action	6	62
	Limit	0	4
24-hr TSP	Action	0	7
	Limit	0	4
Water Quality	Action	0	20
	Limit	0	1
Impact Dolphin Monitoring	Action	0	9
	Limit	0	11

Table K2 *Cumulative Statistics on Complaints, Notifications of Summons and Successful Prosecutions*

Reporting Period	Cumulative Statistics		
	Complaints	Notifications of Summons	Successful Prosecutions
This Reporting Month (January 2018)	1	0	0
Total No. received since project commencement	16	1	0

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To Ramboll Environ - Hong Kong, Limited (ENPO)

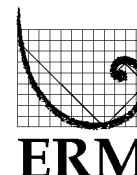
From ERM- Hong Kong, Limited

Ref/Project number Contract No. HY/2012/08 Tuen Mun-Chek Lap
Kok Link-Northern Connection Sub-sea Tunnel
Section

Subject Notification of Exceedance for Air Quality
Impact Monitoring

Date 10 January 2018

16/F Berkshire House,
25 Westlands Road
Quarry Bay, Hong Kong
Telephone: (852) 2271 3113
Facsimile: (852) 2723 5660
E-mail: jovy.tam@erm.com



Dear Sir or Madam,

Please find attached the Notification of Exceedance (NOE) of the following
Log no.:

0212330_29December2017_24hrTSP_Station ASR10

One Action Level Exceedance was recorded on 29 December 2017.

Regards,

A handwritten signature in black ink, appearing to be 'Jovy Tam', written over a light blue horizontal line.

Mr Jovy Tam
Environmental Team Leader

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ERM-Hong Kong, Limited

CONTRACT NO. HY/2012/08 TUEN MUN – CHEK LAP KOK LINK – NORTHERN CONNECTION SUB-SEA TUNNEL SECTION

Air Quality Impact Monitoring Notification of Exceedance

Log No.	0212330_29December2017_24hrTSP_Station ASR10 [Total No. of Exceedances = 1]	
Date	29 December 2017 (Measured) 5 January 2018 (Laboratory results received by ERM)	
Monitoring Station	ASR1, ASR5, ASR6, ASR10 and AQMS1	
Parameter(s) with Exceedance(s)	24-hr TSP	
Action Levels	24-hr TSP ($\mu\text{g}/\text{m}^3$)	ASR1 = 213 ASR5 = 238 AQMS1 = 213 ASR6 = 238 ASR10 = 214
	1-hr TSP ($\mu\text{g}/\text{m}^3$)	ASR1 = 331 ASR5 = 340 AQMS1 = 335 ASR6 = 338 ASR10 = 337
Limit Levels	1-hr TSP ($\mu\text{g}/\text{m}^3$)	500
	24-hr TSP ($\mu\text{g}/\text{m}^3$)	260
Measured Levels	Action Level Exceedance for 24-hr TSP is observed at ASR10 ($250 \mu\text{g}/\text{m}^3$) during 1606 – 1606 hrs.	
Works Undertaken (at the time of monitoring event)	On 29 December 2017, box culvert extension was carried out at Works Area Portion N-A and Construction of Ventilation Building at Portion N-C.	
Possible Reason for Action or Limit Level Exceedance(s)	<p>The exceedance is unlikely to be due to the Project, in view of the following:</p> <ul style="list-style-type: none"> According to the construction information provided by the Contractor, the majority of ground construction works on 29 and 30 December 2017 were box culvert extension at Works Area Portion N-A and Construction of Ventilation Building at Portions N-C. During the period of the land-based construction works, the Contractor has implemented the required mitigation measures as per the EP, approved EIA and Updated EM&A Manual (e.g. water spraying on exposed soil within the Project site and associated works areas; exposed soil covered by tarpaulin sheets). As reported in previous investigation report, the toilet near ASR10 is now under renovation. Dusty environment was observed during previous AQM inspection. The tentative completion date of the works will be on 12 February 2018. The exceedance is likely to be due to the renovation works at the toilet nearby. <p>Based on the above, the exceedances are unlikely to be due to the project.</p>	

Actions Taken/ To Be Taken	<p>Site inspection was carried out on 10 January 2018. Box culvert extension was carried out at Works Area Portion N-A and Construction of Ventilation Building was carried out at Portion N-C. Water spraying was applied frequently. Exposed soil at Portion N-A was covered by tarpaulin sheets and water spraying was also applied to prevent dust. Photo record is provided in Annex A. As dust suppression measures were properly implemented during the site inspections. Based on the above, no additional action is required.</p> <p>The Contractor has been reminded to implement the required mitigation measures as per the EP, approved EIA and Updated EM&A Manual including watering to maintain all exposed road surfaces and dust sources wet, use of sprinklers for water spraying, covering the materials having the potential to create dust by clean tarpaulin, use of water truck and watering on all exposed soil within the Project site) throughout the construction period. The Contractor was also reminded to ensure all dust mitigating measures are provided at Portion N-A and Portion N-C, where the construction works are carried out.</p>
Remarks	<p>The monitoring results and the locations of air quality monitoring stations are attached.</p>



Annex A Photos taken during site inspection

*Note: Photos taken on 10/1/2018



Water spraying was applied frequently during dry conditions.(Works Area Portion N-C)



Exposed soil at Portion N-A was covered by tarpaulin sheets. (Works Area Portion N-A)



Annex A Photos taken during site inspection

*Note: Photos taken on 10/1/2018



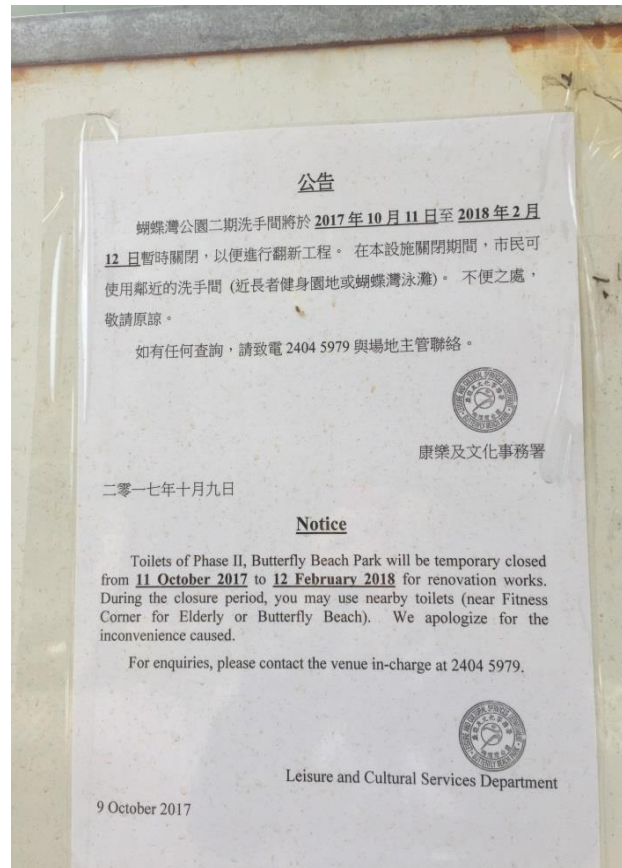
Water spraying was applied frequently during dry conditions.(Works Area Portion N-C)



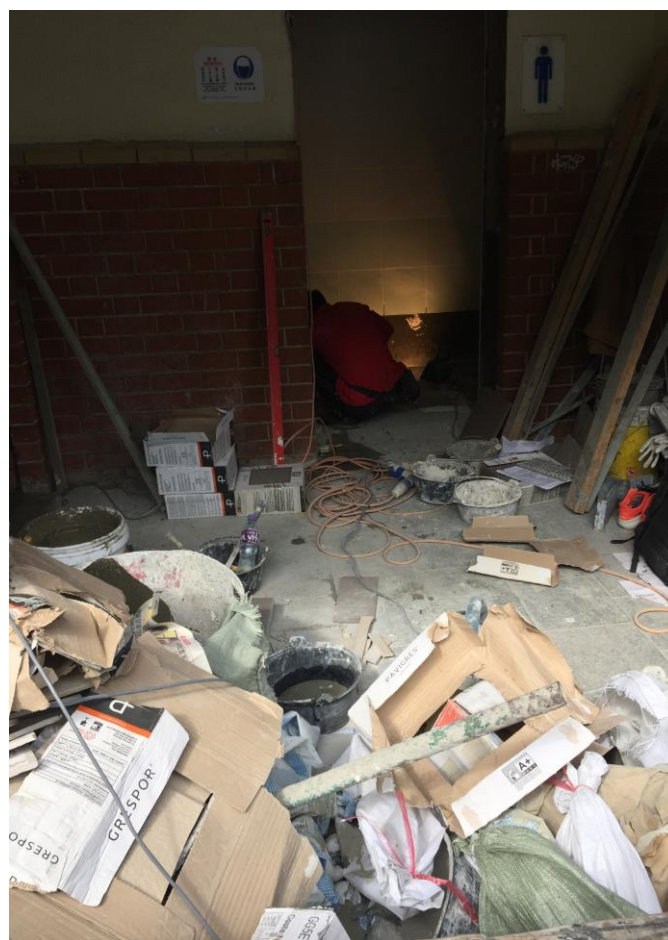
Water spraying was applied frequently during dry conditions.(Works Area Portion N-B)



Annex A Photos taken during AQM inspection



Renovation works at the toilet near ASR10



Dusty environment was observed at ASR10. (Photos on 25/1/2018)

TMCLKL	HY/2012/08	29/12/2017	AQMS1	Sunny	13:43	1-hour TSP	158	ug/m3
TMCLKL	HY/2012/08	29/12/2017	AQMS1	Sunny	14:45	1-hour TSP	152	ug/m3
TMCLKL	HY/2012/08	29/12/2017	AQMS1	Sunny	15:47	1-hour TSP	99	ug/m3
TMCLKL	HY/2012/08	29/12/2017	ASR1	Sunny	13:32	1-hour TSP	124	ug/m3
TMCLKL	HY/2012/08	29/12/2017	ASR1	Sunny	14:34	1-hour TSP	144	ug/m3
TMCLKL	HY/2012/08	29/12/2017	ASR1	Sunny	15:36	1-hour TSP	134	ug/m3
TMCLKL	HY/2012/08	29/12/2017	ASR10	Sunny	13:00	1-hour TSP	66	ug/m3
TMCLKL	HY/2012/08	29/12/2017	ASR10	Sunny	14:02	1-hour TSP	104	ug/m3
TMCLKL	HY/2012/08	29/12/2017	ASR10	Sunny	15:04	1-hour TSP	130	ug/m3
TMCLKL	HY/2012/08	29/12/2017	ASR5	Sunny	13:21	1-hour TSP	165	ug/m3
TMCLKL	HY/2012/08	29/12/2017	ASR5	Sunny	14:23	1-hour TSP	184	ug/m3
TMCLKL	HY/2012/08	29/12/2017	ASR5	Sunny	15:25	1-hour TSP	187	ug/m3
TMCLKL	HY/2012/08	29/12/2017	ASR6	Sunny	13:10	1-hour TSP	136	ug/m3
TMCLKL	HY/2012/08	29/12/2017	ASR6	Sunny	14:12	1-hour TSP	210	ug/m3
TMCLKL	HY/2012/08	29/12/2017	ASR6	Sunny	15:14	1-hour TSP	194	ug/m3
TMCLKL	HY/2012/08	29/12/2017	AQMS1	Sunny	16:49	24-hour TSP	105	ug/m3
TMCLKL	HY/2012/08	29/12/2017	ASR1	Sunny	16:38	24-hour TSP	119	ug/m3
TMCLKL	HY/2012/08	29/12/2017	ASR10	Sunny	16:06	24-hour TSP	250	ug/m3
TMCLKL	HY/2012/08	29/12/2017	ASR5	Sunny	16:27	24-hour TSP	140	ug/m3
TMCLKL	HY/2012/08	29/12/2017	ASR6	Sunny	16:16	24-hour TSP	92	ug/m3

Meteorological Data for Impact Monitoring in the reporting period			
Date (yy-mm-dd)	Time (24hrs)	Average of Wind Speed (m/s)	Average of Wind Direction(degree)
17/12/29	16:00	1.8	51
17/12/29	17:00	2.7	46
17/12/29	18:00	4	43
17/12/29	19:00	4	52
17/12/29	20:00	3.6	48
17/12/29	21:00	3.1	44
17/12/29	22:00	2.7	47
17/12/29	23:00	3.1	46
17/12/30	0:00	3.6	53
17/12/30	1:00	2.7	41
17/12/30	2:00	0.9	50
17/12/30	3:00	0.9	12
17/12/30	4:00	1.3	43
17/12/30	5:00	1.8	44
17/12/30	6:00	1.3	50
17/12/30	7:00	0.9	52
17/12/30	8:00	1.3	72
17/12/30	9:00	1.3	171
17/12/30	10:00	1.8	42
17/12/30	11:00	2.7	192
17/12/30	12:00	1.8	228
17/12/30	13:00	1.3	274
17/12/30	14:00	2.2	195
17/12/30	15:00	2.2	190
17/12/30	16:00	1.3	188
17/12/30	17:00	1.3	226

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message

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To Ramboll Environ - Hong Kong, Limited (ENPO)

From ERM- Hong Kong, Limited

Ref/Project number Contract No. HY/2012/08 Tuen Mun-Chek Lap
Kok Link-Northern Connection Sub-sea Tunnel
Section

Subject Notification of Exceedance for Air Quality
Impact Monitoring

Date 13 January 2018

16/F Berkshire House,
25 Westlands Road
Quarry Bay, Hong Kong
Telephone: (852) 2271 3113
Facsimile: (852) 2723 5660
E-mail: jovy.tam@erm.com



ERM

Dear Sir or Madam,

Please find attached the Notification of Exceedance (NOE) of the following
Log no.:

0212330_13January2017_1hrTSP_Station ASR5

One Action Level Exceedance was recorded on 13 January 2018.

Regards,



Mr Jovy Tam
Environmental Team Leader

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ERM-Hong Kong, Limited

**CONTRACT NO. HY/2012/08
TUEN MUN – CHEK LAP KOK LINK –
NORTHERN CONNECTION SUB-SEA TUNNEL SECTION**

**Air Quality Impact Monitoring
Notification of Exceedance**

Log No.	0212330_13January2018_1hrTSP_Station ASR5 [Total No. of Exceedances = 1]	
Date	13 January 2018 (Measured) 29 January 2018 (Laboratory results received by ERM)	
Monitoring Station	ASR1, ASR5, ASR6, ASR10 and AQMS1	
Parameter(s) with Exceedance(s)	1-hr TSP	
Action Levels	24-hr TSP ($\mu\text{g}/\text{m}^3$)	ASR1 = 213 ASR5 = 238 AQMS1 = 213 ASR6 = 238 ASR10 = 214
	1-hr TSP ($\mu\text{g}/\text{m}^3$)	ASR1 = 331 ASR5 = 340 AQMS1 = 335 ASR6 = 338 ASR10 = 337
Limit Levels	1-hr TSP ($\mu\text{g}/\text{m}^3$)	500
	24-hr TSP ($\mu\text{g}/\text{m}^3$)	260
Measured Levels	Action Level Exceedance for 1-hr TSP is observed at ASR5 ($345 \mu\text{g}/\text{m}^3$) during 0841 – 0941 hrs.	
Works Undertaken (at the time of monitoring event)	On 13 January 2018, box culvert extension was carried out at Works Area Portion N-A and Construction of Ventilation Building at Portion N-C.	
Possible Reason for Action or Limit Level Exceedance(s)	<p>The exceedance is unlikely to be due to the Project, in view of the following:</p> <ul style="list-style-type: none"> According to the construction information provided by the Contractor, the majority of ground construction works on 13 January 2018 were box culvert extension at Works Area Portion N-A and Construction of Ventilation Building at Portions N-C. During the period of the land-based construction works, the Contractor has implemented the required mitigation measures as per the EP, approved EIA and Updated EM&A Manual (e.g. water spraying on exposed soil within the Project site and associated works areas; exposed soil covered by tarpaulin sheets). The exceedances are unlikely to be due to the project as dust suppression measures were implemented properly on site. Water spraying was applied. Exposed soil at Portion N-A was also covered by tarpaulin sheets. Photo record on 31 January 2018 is provided in Annex A. <p>Based on the above, the exceedances are unlikely to be due to the project.</p>	

Actions Taken / To Be Taken	<p>Joint site inspection by SOR, Contractor, ENPO and ET was carried out on 31 January 2018. Box culvert extension was carried out at Works Area Portion N-A and Construction of Ventilation Building was carried out at Portion N-C. Exposed soil at Portion N-A was covered by tarpaulin sheets and water spraying was also applied to prevent dust. Photo record is provided in Annex A. Dust suppression measures were properly implemented during the site inspections. Based on the above, no additional action is required.</p> <p>The Contractor has been reminded to implement the required mitigation measures as per the EP, approved EIA and Updated EM&A Manual including watering to maintain all exposed road surfaces and dust sources wet, use of sprinklers for water spraying, covering the materials having the potential to create dust by clean tarpaulin, use of water truck and watering on all exposed soil within the Project site) throughout the construction period. The Contractor was also reminded to ensure all dust mitigating measures are provided at Portion N-A and Portion N-C, where the construction works are carried out.</p>
Remarks	The monitoring results and the locations of air quality monitoring stations are attached.



Annex A Photos taken during site inspection

*Note: Photos taken on 31/1/2018



Water spraying was applied on inert C&D waste to avoid dust impact during transportation.
(Works Area Portion N-A)



Exposed soil at Portion N-A was covered by tarpaulin sheets. (Works Area Portion N-A)

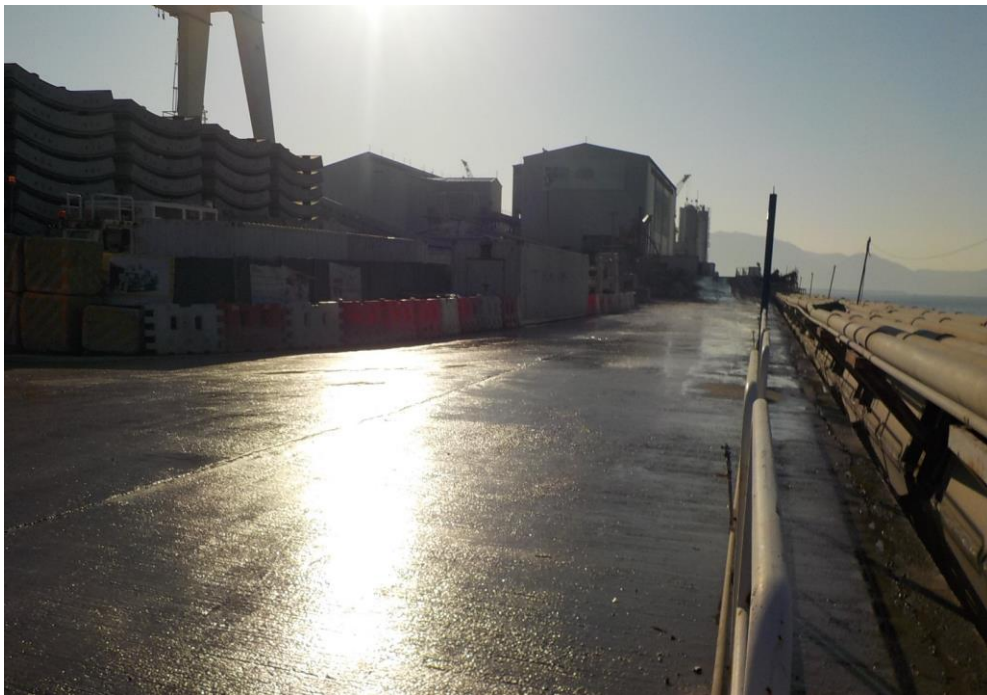


Annex A Photos provided by the Contractor

*Note: Photos taken on 13/1/2018



Water spraying was applied frequently during dry condition. (Works Area Portion N-B)



Water spraying was applied frequently during dry condition. (Works Area Portion N-B)

TMCLKL	HY/2012/08	13/1/2018	AQMS1	Sunny	9:04	1-hour TSP	116	ug/m3
TMCLKL	HY/2012/08	13/1/2018	AQMS1	Sunny	10:06	1-hour TSP	92	ug/m3
TMCLKL	HY/2012/08	13/1/2018	AQMS1	Sunny	11:08	1-hour TSP	120	ug/m3
TMCLKL	HY/2012/08	13/1/2018	ASR1	Sunny	8:53	1-hour TSP	147	ug/m3
TMCLKL	HY/2012/08	13/1/2018	ASR1	Sunny	9:55	1-hour TSP	144	ug/m3
TMCLKL	HY/2012/08	13/1/2018	ASR1	Sunny	10:57	1-hour TSP	86	ug/m3
TMCLKL	HY/2012/08	13/1/2018	ASR10	Sunny	8:20	1-hour TSP	77	ug/m3
TMCLKL	HY/2012/08	13/1/2018	ASR10	Sunny	9:22	1-hour TSP	65	ug/m3
TMCLKL	HY/2012/08	13/1/2018	ASR10	Sunny	10:24	1-hour TSP	34	ug/m3
TMCLKL	HY/2012/08	13/1/2018	ASR5	Sunny	8:41	1-hour TSP	345	ug/m3
TMCLKL	HY/2012/08	13/1/2018	ASR5	Sunny	9:43	1-hour TSP	275	ug/m3
TMCLKL	HY/2012/08	13/1/2018	ASR5	Sunny	10:45	1-hour TSP	141	ug/m3
TMCLKL	HY/2012/08	13/1/2018	ASR6	Sunny	8:30	1-hour TSP	139	ug/m3
TMCLKL	HY/2012/08	13/1/2018	ASR6	Sunny	9:32	1-hour TSP	96	ug/m3
TMCLKL	HY/2012/08	13/1/2018	ASR6	Sunny	10:34	1-hour TSP	79	ug/m3
TMCLKL	HY/2012/08	13/1/2018	AQMS1	Sunny	12:10	24-hour TSP	50	ug/m3
TMCLKL	HY/2012/08	13/1/2018	ASR1	Sunny	11:59	24-hour TSP	62	ug/m3
TMCLKL	HY/2012/08	13/1/2018	ASR10	Sunny	11:26	24-hour TSP	48	ug/m3
TMCLKL	HY/2012/08	13/1/2018	ASR5	Sunny	11:47	24-hour TSP	78	ug/m3
TMCLKL	HY/2012/08	13/1/2018	ASR6	Sunny	11:36	24-hour TSP	65	ug/m3

Meteorological Data for Impact Monitoring in the reporting period			
Date (yy-mm-dd)	Time (24hrs)	Average of Wind Speed (m/s)	Average of Wind Direction(degree)
18/01/13	0:00	0.9	95
18/01/13	1:00	0.9	12
18/01/13	2:00	0.9	10
18/01/13	3:00	1.3	16
18/01/13	4:00	0.9	350
18/01/13	5:00	0.9	2
18/01/13	6:00	0.9	46
18/01/13	7:00	1.3	12
18/01/13	8:00	1.8	48
18/01/13	9:00	1.3	51
18/01/13	10:00	1.3	56
18/01/13	11:00	1.8	50
18/01/13	12:00	3.1	130
18/01/13	13:00	3.1	116
18/01/13	14:00	3.6	128
18/01/13	15:00	2.7	135
18/01/13	16:00	2.2	134
18/01/13	17:00	2.7	95
18/01/13	18:00	2.7	66
18/01/13	19:00	1.3	51
18/01/13	20:00	0.9	47
18/01/13	21:00	1.3	5
18/01/13	22:00	2.2	93
18/01/13	23:00	3.1	71

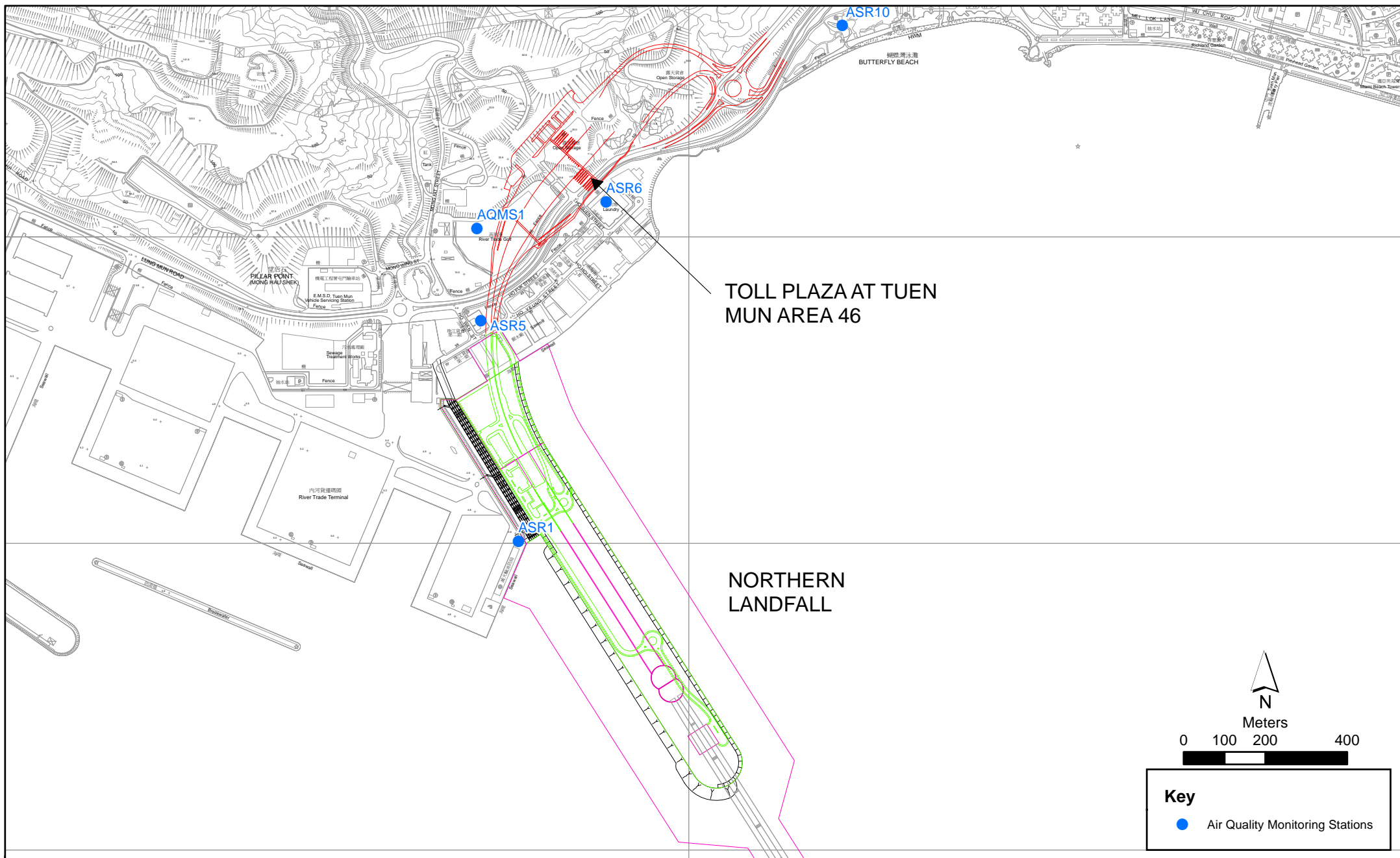


Figure 2.1

Air Quality Monitoring Stations for the Enhanced TSP Monitoring

File: T:\GIS\CONTRACT\0212330\Mxd\0212330_ASR_for_Enhanced_TSP_monitoring.mxd
Date: 21/2/2014

Environmental
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Site Location 地盤位置: Northern Landfall
Date 日期: 08 Jan 2018 to 14 Jan 2018

	Time 時間	Monday 星期一	Tuesday 星期二	Wednesday 星期三	Thursday 星期四	Friday 星期五	Saturday 星期六	Sunday 星期日
1	8:00 - 9:00	/	/	/	/	/	/	/
2	9:00 - 10:00	/	/	/	/	/	/	/
3	10:00 - 11:00	/	/	/	/	/	/	/
4	11:00 - 12:00	/	/	/	/	/	/	/
5	12:00 - 13:00	/	/	/	/	/	/	/
6	13:00 - 14:00	/	/	/	/	/	/	/
7	14:00 - 15:00	/	/	/	/	/	/	/
8	15:00 - 16:00	/	/	/	/	/	/	/
9	16:00 - 17:00	/	/	/	/	/	/	/
	Verified by Site Foreman 地盤科文簽署確認	/	/	/	/	/	/	/

Night shift 夜間工作 (if necessary 如需要)

17:30 - 19:00							
19:00 - 20:30							
20:30 - 22:00							
22:00 - 23:00							

*Please - tick (✓) in the box if complete the spraying of water.
circle (O) in the box if it is raining.

*如果 - 已經完成灑水, 請於方格內加上剔號(✓)。
是下雨天, 請於方格內加上圓圈(O)。

Remarks:

- Pursuant to EP Clause 3.16, the Permit Holder shall undertake watering at least 8 times per day on all exposed soil within the Project site and associated work areas in North Lantau area throughout the construction phase.
- Spraying position includes the main haul road, open area, slopes, stockpiles and any other dusty materials.
- If it is raining, no water spraying is needed.
- The no of spraying will be increased due to site condition.

備註:

- 根據環境許可證 3.16 條例, 在整個施工階段內, 許可證持有人須每天至少 8 次在北大嶼山區項目工地和相關的工作區域內的所有暴露土壤灑水。
- 灑水位置包括主要運輸道路, 空曠地帶, 斜坡, 存料堆, 以及任何其他產生塵埃物料。
- 當下雨時, 地盤將不需要灑水。
- 如果地盤情況更改或有需要時, 灑水次數會相應增加。

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To Ramboll Environ - Hong Kong, Limited (ENPO)

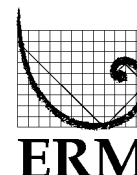
From ERM- Hong Kong, Limited

Ref/Project number Contract No. HY/2012/08 Tuen Mun-Chek Lap
Kok Link-Northern Connection Sub-sea Tunnel
Section

Subject Notification of Exceedance for Air Quality
Impact Monitoring

Date 16 January 2018

16/F Berkshire House,
25 Westlands Road
Quarry Bay, Hong Kong
Telephone: (852) 2271 3113
Facsimile: (852) 2723 5660
E-mail: jovy.tam@erm.com



Dear Sir or Madam,

Please find attached the Notification of Exceedance (NOE) of the following
Log no.:

0212330_16January2018_1hrTSP_Station ASR5
0212330_16January2018_1hrTSP_Station ASR5
0212330_16January2018_1hrTSP_Station ASR5

Three Action Level Exceedances were recorded on 16 January 2018.

Regards,

Mr Jovy Tam
Environmental Team Leader

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ERM-Hong Kong, Limited

CONTRACT NO. HY/2012/08
TUEN MUN – CHEK LAP KOK LINK –
NORTHERN CONNECTION SUB-SEA TUNNEL SECTION

Air Quality Impact Monitoring
Notification of Exceedance

Log No.	0212330_16January2018_1hrTSP_Station ASR5 [Total No. of Exceedances = 3]	
Date	16 January 2018 (Measured) 26 January 2018 (Laboratory results received by ERM)	
Monitoring Station	ASR1, ASR5, ASR6, ASR10 and AQMS1	
Parameter(s) with Exceedance(s)	1-hr TSP	
Action Levels	24-hr TSP ($\mu\text{g}/\text{m}^3$)	ASR1 = 213 ASR5 = 238 AQMS1 = 213 ASR6 = 238 ASR10 = 214
	1-hr TSP ($\mu\text{g}/\text{m}^3$)	ASR1 = 331 ASR5 = 340 AQMS1 = 335 ASR6 = 338 ASR10 = 337
Limit Levels	1-hr TSP ($\mu\text{g}/\text{m}^3$)	500
	24-hr TSP ($\mu\text{g}/\text{m}^3$)	260
Measured Levels	Action Level Exceedance for 1-hr TSP is observed at ASR5 ($396 \mu\text{g}/\text{m}^3$) during 1322 – 1422 hrs. Action Level Exceedance for 1-hr TSP is observed at ASR5 ($384 \mu\text{g}/\text{m}^3$) during 1424 – 1524 hrs. Action Level Exceedance for 1-hr TSP is observed at ASR5 ($345 \mu\text{g}/\text{m}^3$) during 1526 – 1626 hrs.	
Works Undertaken (at the time of monitoring event)	On 16 January 2018, box culvert extension was carried out at Works Area Portion N-A and Construction of Ventilation Building at Portion N-C.	

Possible Reason for Action or Limit Level Exceedance(s)	<p>The exceedance is unlikely to be due to the Project, in view of the following:</p> <ul style="list-style-type: none"> • According to the construction information provided by the Contractor, the majority of ground construction works on 16 January 2018 were box culvert extension at Works Area Portion N-A and Construction of Ventilation Building at Portions N-C. During the period of the land-based construction works, the Contractor has implemented the required mitigation measures as per the EP, approved EIA and Updated EM&A Manual (e.g. water spraying on exposed soil within the Project site and associated works areas; exposed soil covered by tarpaulin sheets). • The exceedances are unlikely to be due to the project as dust suppression measures were implemented properly on site. Water spraying was applied. Exposed soil at Portion N-A was also covered by tarpaulin sheets. Photo record on 31 January 2018 is provided in Annex A. • Whilst exceedances of Action Level was observed at ASR5, the 24-hr TSP level at the monitoring station (ASR5 = 197 µg/m³) on 16 January 2018 was in compliance with the Action and Limit Levels. • A meeting among SOR, ENPO, Contractor and ET regarding the continuously exceedances recorded (on 13 January and 16 January 2018) at ASR5 as per the Event and Action Plan under the EM&A Manual was held on 31 January 2018. It was noted that mitigation measures have been implemented to reduce the possible dust impact by the construction works. The Contractor was recommended to increase the frequency of water spraying and was reminded to cover all the stockpiles with tarpaulin sheets to prevent dust impact. <p>Based on the above, the exceedances are unlikely to be due to the project.</p>
Actions Taken / To Be Taken	<p>Joint site inspection by SOR, Contractor, ET and ENPO was carried out on 31 January 2018. Box culvert extension was carried out at Works Area Portion N-A and Construction of Ventilation Building was carried out at Portion N-C. Exposed soil at Portion N-A was covered by tarpaulin sheets and water spraying was also applied to prevent dust. Photo record is provided in Annex A. Dust suppression measures were properly implemented during the site inspections. Based on the above, no additional action is required.</p> <p>The Contractor has been reminded to implement the required mitigation measures as per the EP, approved EIA and Updated EM&A Manual including watering to maintain all exposed road surfaces and dust sources wet, use of sprinklers for water spraying, covering the materials having the potential to create dust by clean tarpaulin, use of water truck and watering on all exposed soil within the Project site) throughout the construction period. The Contractor was also reminded to ensure all dust mitigating measures are provided at Portion N-A and Portion N-C, where the construction works are carried out.</p>
Remarks	<p>The monitoring results and the locations of air quality monitoring stations are attached.</p>



Annex A Photos taken during site inspection

*Note: Photos taken on 31/1/2018



Water spraying was applied on inert C&D waste to avoid dust impact during transportation.
(Works Area Portion N-A)



Exposed soil at Portion N-A was covered by tarpaulin sheets. (Works Area Portion N-A)



Annex A Photos taken during site inspection

*Note: Photos taken on 31/1/2018



Water spraying was applied to prevent dust impact. (Works Area Portion N-A)



Water spraying was applied to prevent dust impact. (Works Area Portion N-A)



Annex A Photos provided by the Contractor

*Note: Photos taken on 16/1/2018



Water spraying was applied to prevent dust impact. (Works Area Portion N-A)



Water spraying was applied to prevent dust impact. (Works Area Portion N-B)

TMCLKL	HY/2012/08	16/1/2018	AQMS1	Sunny	13:45	1-hour TSP	198	ug/m3
TMCLKL	HY/2012/08	16/1/2018	AQMS1	Sunny	14:47	1-hour TSP	245	ug/m3
TMCLKL	HY/2012/08	16/1/2018	AQMS1	Sunny	15:49	1-hour TSP	197	ug/m3
TMCLKL	HY/2012/08	16/1/2018	ASR1	Sunny	13:34	1-hour TSP	192	ug/m3
TMCLKL	HY/2012/08	16/1/2018	ASR1	Sunny	14:36	1-hour TSP	192	ug/m3
TMCLKL	HY/2012/08	16/1/2018	ASR1	Sunny	15:38	1-hour TSP	192	ug/m3
TMCLKL	HY/2012/08	16/1/2018	ASR10	Sunny	13:00	1-hour TSP	153	ug/m3
TMCLKL	HY/2012/08	16/1/2018	ASR10	Sunny	14:02	1-hour TSP	198	ug/m3
TMCLKL	HY/2012/08	16/1/2018	ASR10	Sunny	15:04	1-hour TSP	169	ug/m3
TMCLKL	HY/2012/08	16/1/2018	ASR5	Sunny	13:22	1-hour TSP	396	ug/m3
TMCLKL	HY/2012/08	16/1/2018	ASR5	Sunny	14:24	1-hour TSP	384	ug/m3
TMCLKL	HY/2012/08	16/1/2018	ASR5	Sunny	15:26	1-hour TSP	345	ug/m3
TMCLKL	HY/2012/08	16/1/2018	ASR6	Sunny	13:11	1-hour TSP	269	ug/m3
TMCLKL	HY/2012/08	16/1/2018	ASR6	Sunny	14:13	1-hour TSP	287	ug/m3
TMCLKL	HY/2012/08	16/1/2018	ASR6	Sunny	15:15	1-hour TSP	265	ug/m3
TMCLKL	HY/2012/08	16/1/2018	AQMS1	Sunny	16:51	24-hour TSP	154	ug/m3
TMCLKL	HY/2012/08	16/1/2018	ASR1	Sunny	16:40	24-hour TSP	147	ug/m3
TMCLKL	HY/2012/08	16/1/2018	ASR10	Sunny	16:06	24-hour TSP	135	ug/m3
TMCLKL	HY/2012/08	16/1/2018	ASR5	Sunny	16:28	24-hour TSP	197	ug/m3
TMCLKL	HY/2012/08	16/1/2018	ASR6	Sunny	16:17	24-hour TSP	178	ug/m3

Meteorological Data for Impact Monitoring in the reporting period			
Date (yy-mm-dd)	Time (24hrs)	Average of Wind Speed (m/s)	Average of Wind Direction(degree)
18/01/16	0:00	0.4	22
18/01/16	1:00	0.4	312
18/01/16	2:00	0.4	72
18/01/16	3:00	0.4	70
18/01/16	4:00	0.4	43
18/01/16	5:00	0.4	356
18/01/16	6:00	0.4	351
18/01/16	7:00	0.4	350
18/01/16	8:00	0.4	84
18/01/16	9:00	0.9	191
18/01/16	10:00	1.8	235
18/01/16	11:00	2.2	224
18/01/16	12:00	3.1	182
18/01/16	13:00	1.8	259
18/01/16	14:00	1.8	268
18/01/16	15:00	1.3	230
18/01/16	16:00	1.3	226
18/01/16	17:00	0.9	94
18/01/16	18:00	0.9	349
18/01/16	19:00	0.9	352
18/01/16	20:00	0	339
18/01/16	21:00	0.4	306
18/01/16	22:00	0.4	298
18/01/16	23:00	0	288

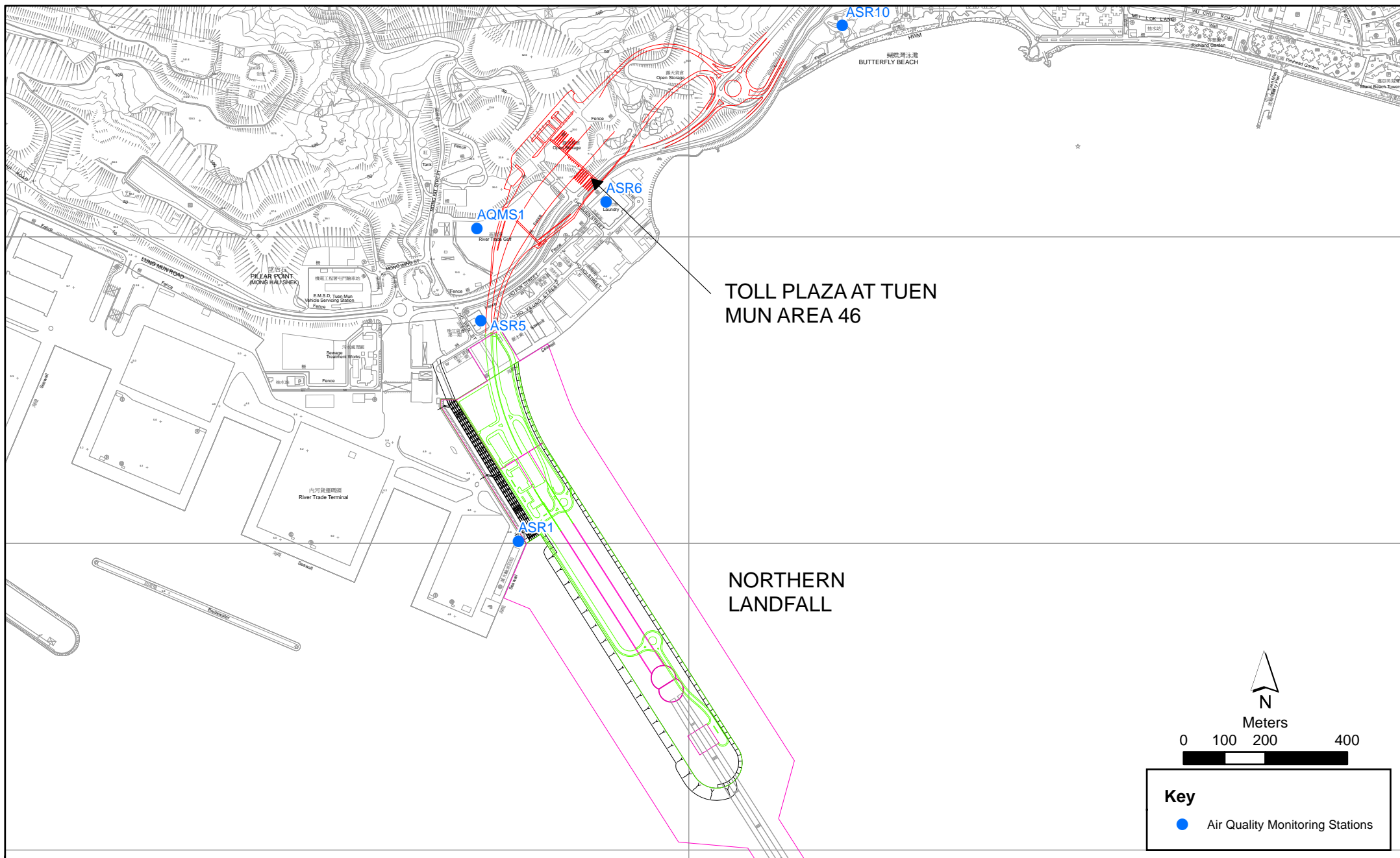


Figure 2.1

Air Quality Monitoring Stations for the Enhanced TSP Monitoring

Site Location 地盤位置:		Northern Landfall						
Date 日期:		15 Jan 2018 to 至 21 Jan 2018						
	Time 時間	Monday 星期一	Tuesday 星期二	Wednesday 星期三	Thursday 星期四	Friday 星期五	Saturday 星期六	Sunday 星期日
1	8:00 – 9:00	/	/	/	/	/	/	/
2	9:00 – 10:00	/	/	/	/	/	/	/
3	10:00 – 11:00	/	/	/	/	/	/	/
4	11:00 – 12:00	/	/	/	/	/	/	/
5	12:00 – 13:00	/	/	/	/	/	/	/
6	13:00 – 14:00	/	/	/	/	/	/	/
7	14:00 – 15:00	/	/	/	/	/	/	/
8	15:00 – 16:00	/	/	/	/	/	/	/
9	16:00 – 17:00	/	/	/	/	/	/	/
Verified by Site Foreman 地盤科文簽署確認		/	/	/	/	/	/	/

Night shift 夜間工作 (if necessary 如需要)								
	17:30 – 19:00							
	19:00 – 20:30							
	20:30 – 22:00							
	22:00 – 23:00							

*Please - tick (✓) in the box if complete the spraying of water.
 circle (O) in the box if it is raining.

*如果 - 已經完成灑水, 請於方格內加上剔號(✓)。
 是下雨天, 請於方格內加上圓圈(O)。

Remarks:

- Pursuant to EP Clause 3.16, the Permit Holder shall undertake watering at least 8 times per day on all exposed soil within the Project site and associated work areas in North Lantau area throughout the construction phase.
- Spraying position includes the main haul road, open area, slopes, stockpiles and any other dusty materials.
- If it is raining, no water spraying is needed.
- The no of spraying will be increased due to site condition.

備註:

- 根據環境許可證 3.16 條例, 在整個施工階段內, 許可證持有人須每天至少 8 次在北大嶼山區項目工地和相關的工作區域內的所有暴露土壤灑水。
- 灑水位置包括主要運輸道路, 空曠地帶, 斜坡, 存料堆, 以及任何其他產生塵埃物料。
- 當下雨時, 地盤將不需要灑水。
- 如果地盤情況更改或有需要時, 灑水次數會相應增加。

Email
message

Environmental
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To Ramboll Hong Kong, Limited (ENPO)

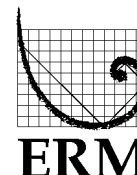
From ERM- Hong Kong, Limited

Ref/Project number Contract No. HY/2012/08 Tuen Mun–Chek Lap
Kok Link–Northern Connection Sub-sea Tunnel
Section

Subject Notification of Exceedance for Air Quality
Impact Monitoring

Date 31 January 2018

16/F Berkshire House,
25 Westlands Road
Quarry Bay, Hong Kong
Telephone: (852) 2271 3113
Facsimile: (852) 2723 5660
E-mail: jovy.tam@erm.com



Dear Sir or Madam,

Please find attached the Notification of Exceedance (NOE) of the following
Log no.:

0212330_22January2017_1hrTSP_Station ASR5
0212330_22January2017_1hrTSP_Station ASR5

Two Action Level Exceedances were recorded on 22 January 2018.

Regards,

Mr Jovy Tam
Environmental Team Leader

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This facsimile transmission is intended only for the use of the addressee and is confidential. If you are not the addressee it may be unlawful for you to read, copy, distribute, disclose or otherwise use the information in this facsimile. If you are not the intended recipient, please telephone or fax us.



ERM-Hong Kong, Limited

CONTRACT NO. HY/2012/08
 TUEN MUN – CHEK LAP KOK LINK –
 NORTHERN CONNECTION SUB-SEA TUNNEL SECTION

Air Quality Impact Monitoring
 Notification of Exceedance

Log No.	0212330_22January2018_1hrTSP_Station ASR5 0212330_22January2018_1hrTSP_Station ASR5 [Total No. of Exceedances = 2]	
Date	22 January 2018 (Measured) 30 January 2018 (Laboratory results received by ERM)	
Monitoring Station	ASR1, ASR5, ASR6, ASR10 and AQMS1	
Parameter(s) with Exceedance(s)	1-hr TSP	
Action Levels	24-hr TSP ($\mu\text{g}/\text{m}^3$)	ASR1 = 213 ASR5 = 238 AQMS1 = 213 ASR6 = 238 ASR10 = 214
	1-hr TSP ($\mu\text{g}/\text{m}^3$)	ASR1 = 331 ASR5 = 340 AQMS1 = 335 ASR6 = 338 ASR10 = 337
Limit Levels	1-hr TSP ($\mu\text{g}/\text{m}^3$)	500
	24-hr TSP ($\mu\text{g}/\text{m}^3$)	260
Measured Levels	Action Level Exceedance for 1-hr TSP is observed at ASR5 ($363 \mu\text{g}/\text{m}^3$) during 1340 – 1440 hrs. Action Level Exceedance for 1-hr TSP is observed at ASR5 ($380 \mu\text{g}/\text{m}^3$) during 1442 – 1542 hrs.	
Works Undertaken (at the time of monitoring event)	On 22 January 2018, box culvert extension was carried out at Works Area Portion N-A and Construction of Ventilation Building at Portion N-C.	

Possible Reason for Action or Limit Level Exceedance(s)	<p>The exceedance is unlikely to be due to the Project, in view of the following:</p> <ul style="list-style-type: none"> • According to the construction information provided by the Contractor, the majority of ground construction works on 22 January 2018 were box culvert extension at Works Area Portion N-A and Construction of Ventilation Building at Portions N-C. During the period of the land-based construction works, the Contractor has implemented the required mitigation measures as per the EP, approved EIA and Updated EM&A Manual (e.g. water spraying on exposed soil within the Project site and associated works areas; exposed soil covered by tarpaulin sheets). • The exceedances are unlikely to be due to the project as dust suppression measures were implemented properly on site. Water spraying was applied. Exposed soil at Portion N-A was also covered by tarpaulin sheets. Photo record on 31 January 2018 is provided in Annex A. • Whilst exceedances of Action Level was observed at ASR5, the 24-hr TSP level at the monitoring station (ASR5 = 150 µg/m³) on 22 January 2018 was in compliance with the Action and Limit Levels. • After the three consecutive 1-hour TSP action level exceedances on 16 January 2018 and two consecutive 1-hour TSP action level exceedances on 22 January 2018 at ASR5 were recorded, a meeting among SOR, ENPO, Contractor and ET regarding the continuously exceedances recorded (on 13 January and 16 January 2018) at ASR5 as per the Event and Action Plan under the EM&A Manual was held on 31 January 2018. It was noted that mitigation measures have been implemented to reduce the possible dust impact by the construction works. The Contractor was recommended to increase the frequency of water spraying and was reminded to cover all the stockpiles with tarpaulin sheets to prevent dust impact. <p>Based on the above, the exceedances are unlikely to be due to the project.</p>
Actions Taken / To Be Taken	<p>Joint site inspection by SOR, Contractor, ET and ENPO were carried out on 31 January 2018. Box culvert extension was carried out at Works Area Portion N-A and Construction of Ventilation Building was carried out at Portion N-C. Exposed soil at Portion N-A was covered by tarpaulin sheets and water spraying was also applied to prevent dust. Photo record is provided in Annex A. Dust suppression measures were properly implemented during the site inspections. Based on the above, no additional action is required.</p> <p>The Contractor has been reminded to implement the required mitigation measures as per the EP, approved EIA and Updated EM&A Manual including watering to maintain all exposed road surfaces and dust sources wet, use of sprinklers for water spraying, covering the materials having the potential to create dust by clean tarpaulin, use of water truck and watering on all exposed soil within the Project site) throughout the construction period. The Contractor was also reminded to ensure all dust mitigating measures are provided at Portion N-A and Portion N-C, where the construction works are carried out.</p>
Remarks	<p>The monitoring results and the locations of air quality monitoring stations are attached.</p>



Annex A Photos taken during site inspection

*Note: Photos taken on 31/1/2018



Water spraying was applied on inert C&D waste to avoid dust impact during transportation.
(Works Area Portion N-A)



Exposed soil at Portion N-A was covered by tarpaulin sheets. (Works Area Portion N-A)



Annex A Photos taken during site inspection

*Note: Photos taken on 31/1/2018



Water spraying was applied to prevent dust impact. (Works Area Portion N-A)



Water spraying was applied to prevent dust impact. (Works Area Portion N-A)



Annex A Photos provided by the Contractor

*Note: Photos taken on 22/1/2018



Water spraying was applied to prevent dust impact. (Works Area Portion N-B)



Exposed soil at Portion N-A was covered by tarpaulin sheets. (Works Area Portion N-A)

TMCLKL	HY/2012/08	22/1/2018	AQMS1	Sunny	14:03	1-hour TSP	295	ug/m3
TMCLKL	HY/2012/08	22/1/2018	AQMS1	Sunny	15:05	1-hour TSP	324	ug/m3
TMCLKL	HY/2012/08	22/1/2018	AQMS1	Sunny	16:07	1-hour TSP	262	ug/m3
TMCLKL	HY/2012/08	22/1/2018	ASR1	Sunny	13:52	1-hour TSP	262	ug/m3
TMCLKL	HY/2012/08	22/1/2018	ASR1	Sunny	14:54	1-hour TSP	253	ug/m3
TMCLKL	HY/2012/08	22/1/2018	ASR1	Sunny	15:56	1-hour TSP	224	ug/m3
TMCLKL	HY/2012/08	22/1/2018	ASR10	Sunny	13:18	1-hour TSP	243	ug/m3
TMCLKL	HY/2012/08	22/1/2018	ASR10	Sunny	14:20	1-hour TSP	249	ug/m3
TMCLKL	HY/2012/08	22/1/2018	ASR10	Sunny	15:22	1-hour TSP	206	ug/m3
TMCLKL	HY/2012/08	22/1/2018	ASR5	Sunny	13:40	1-hour TSP	363	ug/m3
TMCLKL	HY/2012/08	22/1/2018	ASR5	Sunny	14:42	1-hour TSP	380	ug/m3
TMCLKL	HY/2012/08	22/1/2018	ASR5	Sunny	15:44	1-hour TSP	305	ug/m3
TMCLKL	HY/2012/08	22/1/2018	ASR6	Sunny	13:29	1-hour TSP	322	ug/m3
TMCLKL	HY/2012/08	22/1/2018	ASR6	Sunny	14:31	1-hour TSP	310	ug/m3
TMCLKL	HY/2012/08	22/1/2018	ASR6	Sunny	15:33	1-hour TSP	273	ug/m3
TMCLKL	HY/2012/08	22/1/2018	AQMS1	Sunny	17:09	24-hour TSP	110	ug/m3
TMCLKL	HY/2012/08	22/1/2018	ASR1	Sunny	16:58	24-hour TSP	101	ug/m3
TMCLKL	HY/2012/08	22/1/2018	ASR10	Sunny	16:24	24-hour TSP	72	ug/m3
TMCLKL	HY/2012/08	22/1/2018	ASR5	Sunny	16:46	24-hour TSP	150	ug/m3
TMCLKL	HY/2012/08	22/1/2018	ASR6	Sunny	16:35	24-hour TSP	118	ug/m3

Meteorological Data for Impact Monitoring in the reporting period			
Date (yy-mm-dd)	Time (24hrs)	Average of Wind Speed (m/s)	Average of Wind Direction(degree)
18/01/22	0:00	0.4	300
18/01/22	1:00	0	305
18/01/22	2:00	0	306
18/01/22	3:00	0.4	312
18/01/22	4:00	0	331
18/01/22	5:00	0	306
18/01/22	6:00	0	315
18/01/22	7:00	0	310
18/01/22	8:00	0.4	119
18/01/22	9:00	0.4	169
18/01/22	10:00	1.3	228
18/01/22	11:00	1.3	231
18/01/22	12:00	1.8	229
18/01/22	13:00	1.3	256
18/01/22	14:00	0.9	251
18/01/22	15:00	1.3	62
18/01/22	16:00	0.9	65
18/01/22	17:00	0.9	70
18/01/22	18:00	1.8	61
18/01/22	19:00	1.8	66
18/01/22	20:00	1.8	59
18/01/22	21:00	0.9	72
18/01/22	22:00	0.9	71
18/01/22	23:00	0.9	93

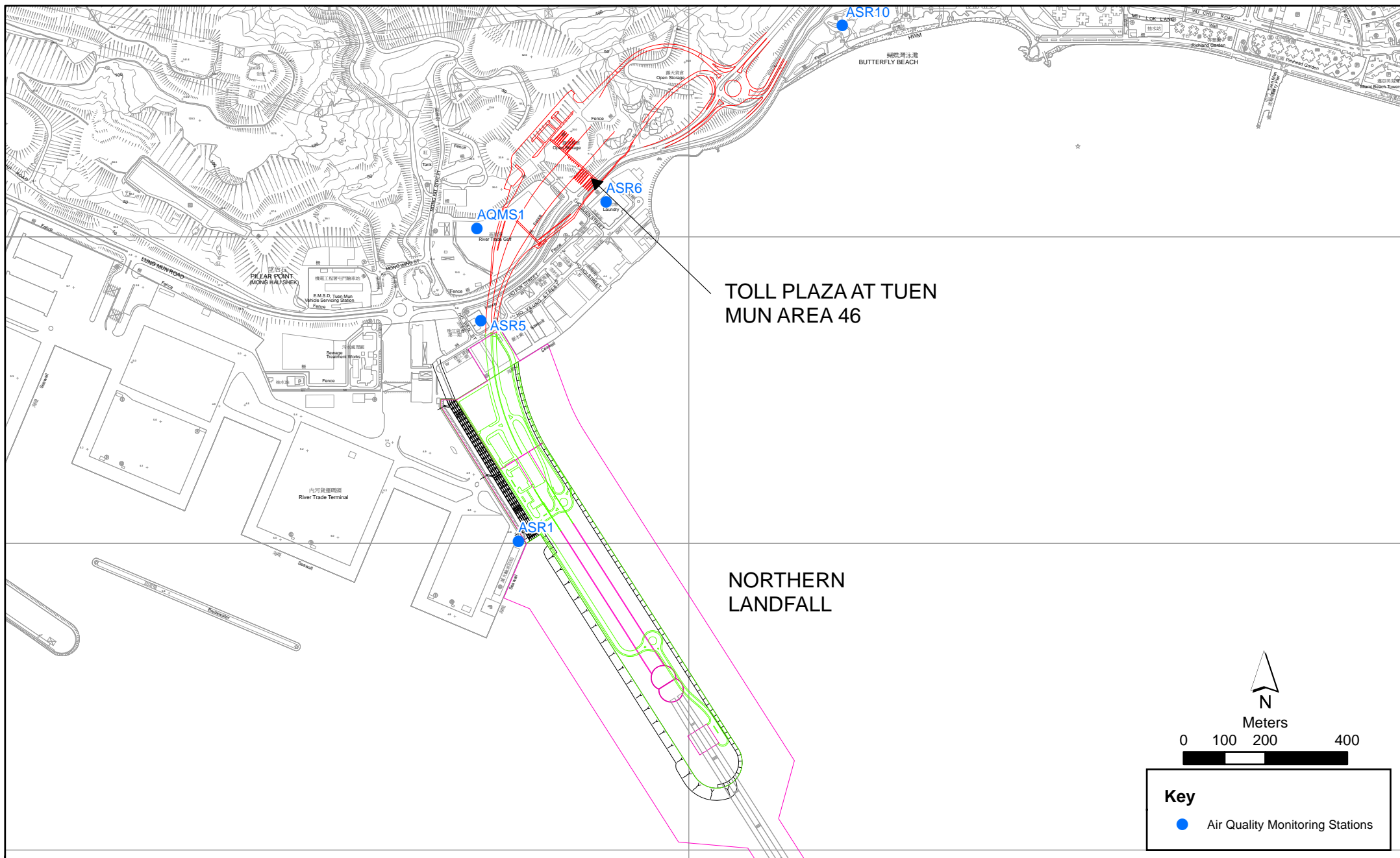


Figure 2.1

Air Quality Monitoring Stations for the Enhanced TSP Monitoring

File: T:\GIS\CONTRACT\0212330\Mxd\0212330_ASR_for_Enhanced_TSP_monitoring.mxd
Date: 21/2/2014

Environmental
Resources
Management



Site Location 地盤位置:

Northern Landfall

Date

日期:

22 Jan 2018 to 28 Jan 2018

	Time 時間	Monday 星期一	Tuesday 星期二	Wednesday 星期三	Thursday 星期四	Friday 星期五	Saturday 星期六	Sunday 星期日
1	8:00 – 9:00	✓	/	/	/	/	/	/
2	9:00 – 10:00	/	/	/	/	/	/	/
3	10:00 – 11:00	/	/	/	/	/	/	/
4	11:00 – 12:00	/	/	/	/	/	/	/
5	12:00 – 13:00	/	/	/	/	/	/	/
6	13:00 – 14:00	/	/	/	/	/	/	/
7	14:00 – 15:00	/	/	/	/	/	/	/
8	15:00 – 16:00	/	/	/	/	/	/	/
9	16:00 – 17:00	/	/	/	/	/	/	/
	Verified by Site Foreman 地盤科文簽署確認	/	/	/	/	/	/	/

Night shift 夜間工作 (if necessary 如需要)

	17:30 – 19:00							
	19:00 – 20:30							
	20:30 – 22:00							
	22:00 – 23:00							

*Please - tick (✓) in the box if complete the spraying of water.
circle (O) in the box if it is raining.

*如果 - 已經完成灑水, 請於方格內加上剔號(✓)。
是下雨天, 請於方格內加上圓圈(O)。

Remarks:

- Pursuant to EP Clause 3.16, the Permit Holder shall undertake watering at least 8 times per day on all exposed soil within the Project site and associated work areas in North Lantau area throughout the construction phase.
- Spraying position includes the main haul road, open area, slopes, stockpiles and any other dusty materials.
- If it is raining, no water spraying is needed.
- The no of spraying will be increased due to site condition.

備註:

- 根據環境許可證 3.16 條例, 在整個施工階段內, 許可證持有人須每天至少 8 次在北大嶼山區項目工地和相關的工作區域內的所有暴露土壤灑水。
- 灑水位置包括主要運輸道路, 空曠地帶, 斜坡, 存料堆, 以及任何其他產生塵埃物料。
- 當下雨時, 地盤將不需要灑水。
- 如果地盤情況更改或有需要時, 灑水次數會相應增加。

ENVIRONMENTAL COMPLAINT/ENQUIRY INVESTIGATION REPORT

Our Reference: 0212330_Complaint LOG_20180130_15

Basic Information of Complaint/Enquiry

Reference Number:	Not disclosed
Date of Complaint/Enquiry Received	30/1/2018
Location of Complaint/Enquiry	Tuen Mun Pier
Nature of Complaint/Enquiry	Air, noise and light pollution
Complaint/Enquiry Received by	EPD
Via	Email
Complainant/Enquirer	Not disclosed

Details of Complaint/Enquiry

On 30 January 2018, a complaint case regarding noise and light pollution at midnight and air pollution in daylight hours from the River Trade Terminal and Northern Landfall of Tuen Mun - Chek Lap Kok Link (TMCLKL) opposite Tuen Mun Pier was received by EPD.

The complainant enquiries:

1. Why there was construction works at 12:00am and from 3:00am to 5:00am?
2. The noise before 11:00pm.
3. The extensive lighting at early morning.
4. No water spraying was applied and dust was dispersed to Tuen Mun Pier
5. Barges causing dust impact at Tuen Mun Pier.

The SOR, the Environmental Team (ET) and the Contractor (DBJV) received the complaint notification from IEC on 30 January 2018.

Investigation Report

Upon receiving the case notification from IEC on 30 January 2018, the Contractor had promptly checked the construction schedule at Northern Landfall of January 2018.

During daylight hours, the major ground construction works carried out were Box Culvert Extension at Portion N-A and Construction of Ventilation Building at Portion N-C. During night-time and mid-night hours, there were no ground construction works.

Joint site investigation was conducted with IEC and SOR at 9:30 am on 31 January 2018. No dust impact was observed. The Contractor has implemented the required mitigation measures as per the EP, approved EIA and Updated EM&A Manual (e.g. water spraying on exposed soil within the Project site and associated works areas; exposed soil covered by tarpaulin sheets). Night-time inspection on 1 February 2018 was carried out by ET at the site and Tuen Mun Pier to investigate the noise impact and light pollution problem. No significant noise impact was observed. Consider the distance between the site and Tuen Mun Pier (Around 2km), the residents near Tuen Mun Pier are not likely to be affected by the noise, if any, generated by the construction activities on site. The construction activities were also complied with the conditions specified in the Construction Noise Permit. Night-time lighting was observed. Photo record of the inspection is provided in Annex A.

According to the Contractor, night-time lighting is essential to illuminate the main access road in order to provide a safe and efficient working environment for the site staff. Traffic routes within the site were also illuminated for the transportation of construction materials. As there was no ground construction works at night-time, noise impact was not expected and was not observed during the inspection. The Contractor also reported that they have only one barge working at daylight hours near the site which is responsible for the transportation of C&D wastes. Most barges near the site are not working under this Contract. Photo record is provided in Annex A.

Based on the above, the complaint is not valid.

Mitigation Measures and Follow-Up Actions Recommended to/Undertaken by Contractor

The Contractor has been reminded to implement all relevant mitigation measures of light impact to avoid causing visual impact.

The following mitigation measures have been implemented by the Contractor to minimize the light pollution and visual impact during night-time:

1. All lights shall not project skyward. For those lighting that may spill out into the sky, they should be capped at the top to avoid causing glare.
2. Avoid over-illumination. Trim down any unnecessary lighting on site.
3. All lighting should be directed to the site only.
4. Brief the frontline staff to switch off unnecessary lighting on site.

The Contractor are also recommended to fit caps at the lightings at STP to restrict the direction of beam and area of illumination and adopt soft roadside light.

The Contractor has been reminded to adhere strictly to implement all relevant mitigation measures of air quality impact recommended or specified in the EP (EP-354/2009/D), the approved EIA and Updated EM&A Manual to avoid causing dust impact:

1. Watering to maintain all exposed road surfaces and dust sources wet.
2. Use of wheel washing facilities.
3. Use of sprinklers for water spraying.
4. Materials having the potential to create dust covered by a clean tarpaulin.
5. use of water truck and watering on all exposed soil within the Project site

The Contractor has also been reminded to comply with the conditions specified in the Construction Noise Permit.

Date of File Closed : 14 February 2018

Approved and Filed by:



(Jovy Tam, ET Leader)

Date: 14 February 2018



Annex A

Photo taken during the site inspection on 31 January 2018



Direction of the lighting at STP is adjusted towards the ground.



Direction of the lighting at STP is adjusted towards the ground.



Annex A Photo taken during the site inspection on 31 January 2018



Water spraying is applied.



Exposed soil is covered by tarpaulin sheets



Annex A

Photo taken during the site inspection on 31 January 2018



Barges not under this Contract are observed near the site



Barges not under this Contract are observed near the site



Annex A

Photo taken during the site inspection on 31 January 2018



Barge for transportation of C&D material



Annex A Photo taken during the site inspection on 1 February 2018



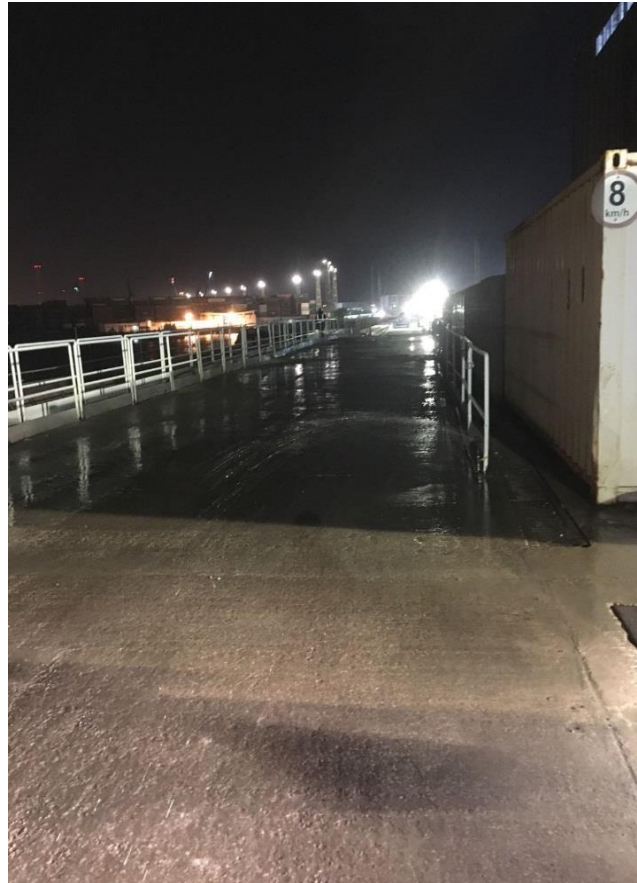
View of the site from Tuen Mun Pier



View of the site from Tuen Mun Pier



Annex A Photo taken during the site inspection on 1 February 2018



Site conditions at night-time



Site conditions at night-time



Annex A Photo taken during the site inspection on 14 February 2018



Lighting at the main site access



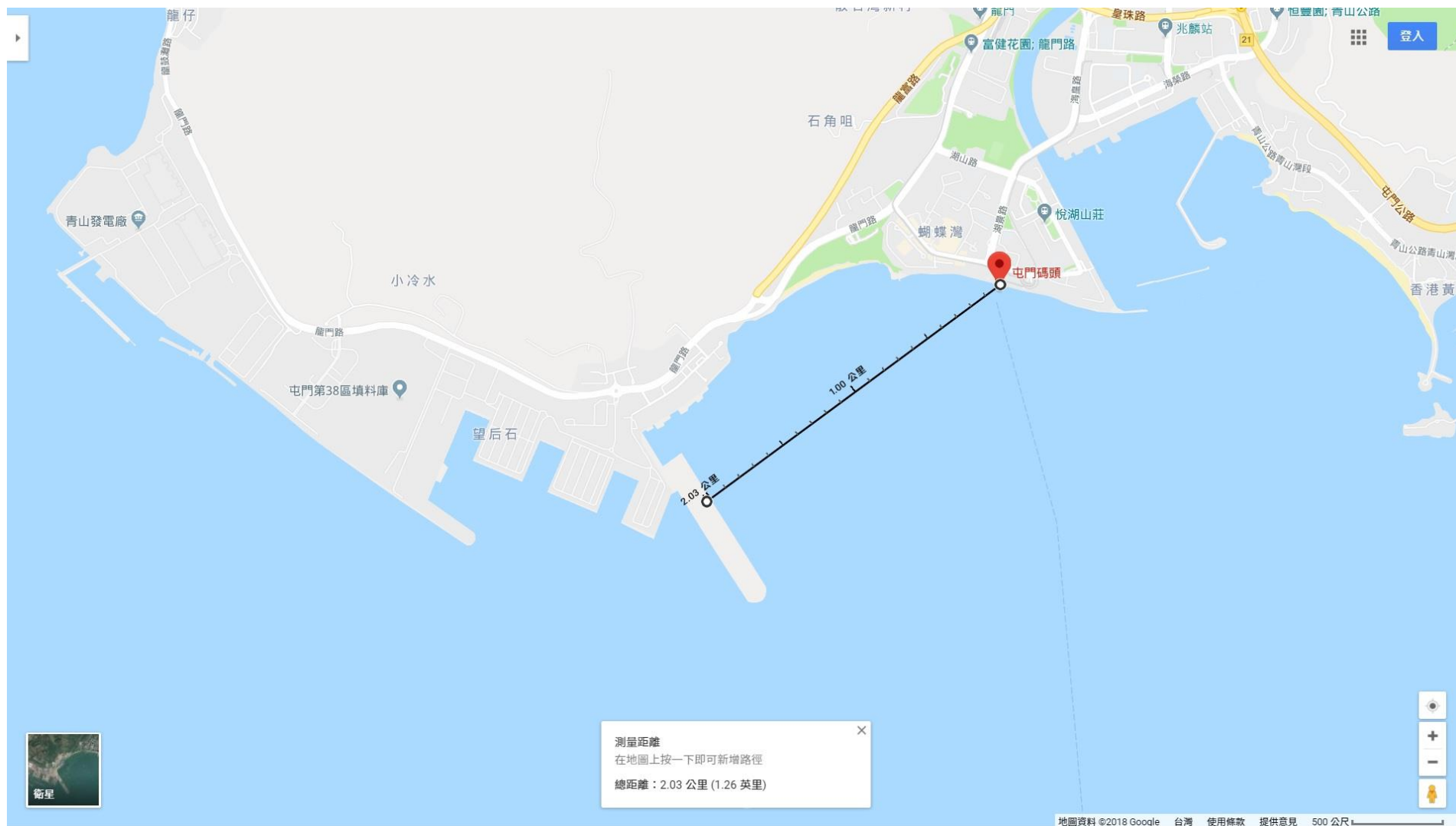
Lighting at the main site access



Location of night-time inspection

Environmental
Resources
Management





Distance between the site and Tuen Mun Pier

Site Location 地盤位置:

Date 日期:

Northern Landfill

29 Jan 2018 to 至 04 Feb 2018

	Time 時間	Monday 星期一	Tuesday 星期二	Wednesday 星期三	Thursday 星期四	Friday 星期五	Saturday 星期六	Sunday 星期日
1	8:00 - 8:45	✓	✓	✓	✓	✓	✓	✓
2	8:45 - 9:30	✓	✓	✓	✓	✓	✓	✓
3	9:30 - 10:15	✓	✓	✓	✓	✓	✓	✓
4	10:15 - 11:00	✓	✓	✓	✓	✓	✓	✓
5	11:00 - 11:45	✓	✓	✓	✓	✓	✓	✓
6	11:45 - 12:30	✓	✓	✓	✓	✓	✓	✓
7	12:30 - 13:15	✓	✓	✓	✓	✓	✓	✓
8	13:15 - 14:00	✓	✓	✓	✓	✓	✓	✓
9	14:00 - 14:45	✓	✓	✓	✓	✓	✓	✓
10	14:45 - 15:30	✓	✓	✓	✓	✓	✓	✓
11	15:30 - 16:45	✓	✓	✓	✓	✓	✓	✓
12	16:45 - 17:30	✓	✓	✓	✓	✓	✓	✓
	Verified by Site Foreman 地盤科文簽署確認							

Night shift 夜間工作 (if necessary 如需要)

	17:30 - 19:00							
	19:00 - 20:30							
	20:30 - 22:00							
	22:00 - 23:00							

*Please - tick (✓) in the box if complete the spraying of water.
circle (O) in the box if it is raining.

*如果 - 已經完成灑水, 請於方格內加上剔號(✓)。
是下雨天, 請於方格內加上圓圈(O)。

Remarks:

- Pursuant to EP Clause 3.15, the Permit Holder shall undertake watering at least 12 times per day on all exposed soil within the Project site and associated work areas in Tuen Mun area throughout the construction phase.
- Spraying position includes the main haul road, open area, slopes, stockpiles and any other dusty materials.
- If it is raining, no water spraying is needed.
- The no of spraying will be increased due to site condition.

備註:

- 根據環境許可證 3.15 條例, 在整個施工階段內, 許可證持有人須每天至少 12 次在屯門區項目工地和相關的工作區域內的所有暴露土壤灑水。
- 灑水位置包括主要運輸道路, 空曠地帶, 斜坡, 存料堆, 以及任何其他產生塵埃物料。
- 當下雨時, 地盤將不需要灑水。
- 如果地盤情況更改或有需要時, 灑水次數會相應增加。