## Appendix J

Cumulative Statistics on Exceedances, Complaints, Notifications of Summons and Successful Prosecutions

Table J1 Cumulative Statistics on Exceedances

Monitoring Parameters	Action/Limit Level	Total No. recorded in this reporting quarter	Total No. recorded since Contract commencement
1-Hr TSP	Action	3	122
	Limit	0	15
24-Hr TSP	Action	0	12
	Limit	0	4
Water Quality	Action	0	167
	Limit	0	19
Impact Dolphin	Action	0	11
Monitoring	Limit	0	19
Post Construction	Action	0	0
(Operational) Dolphin	Limit	1	3
Monitoring			

Table J2 Cumulative Statistics on Complaints, Notifications of Summons and Successful Prosecutions

Reporting Period	Cumulative Statistics			
_	Complaints	Notifications of	Successful	
		Summons	Prosecutions	
This Reporting Period	0	0	0	
(December 2020 to				
February 2021)				
Total No. received	17	1	0	
since Contract				
commencement				

**Environmental** Resources Management

To Ramboll Hong Kong, Limited (ENPO) 2507, 25/F One Harbourfront

18 Tak Fung Street Hunghom, Kowloon

Hong Kong Telephone: (852) 2271 3000 Facsimile: (852) 2723 5660

From ERM- Hong Kong, Limited

> 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 22 December 2020



Dear Sir or Madam,

Ref/Project number

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

Action Level Exceedances:

0212330\_10December2020\_1hrTSP\_Station ASR5

Three Action Level Exceedances were recorded on 10 December 2020.

Regards,

Dr Jasmine Ng

**Environmental Team Leader** 

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# 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.	Action Level Exceedance					
	0212330	0_10December2020_1hrTSP_Station ASR5				
	[Total No. of Exceedances = 1]					
Date		10 December 2020 (Measured)				
	22 Decemb	per 2020 (Laboratory results received by ERM)				
Monitoring Station		ASR5				
Parameter(s) with		1-hr TSP				
Exceedance(s)		1-10 131				
Action Levels	24-hr TSP (μg/m³)	ASR1 = 213				
		ASR5 = 238				
		AQMS1 = 213				
		ASR6 = 238				
		ASR10 = 214				
	1-hr TSP (μg/m³)	ASR1 = 331				
		ASR5 = 340				
		AQMS1 = 335				
		ASR6 = 338				
		ASR10 = 337				
Limit Levels	1-hr TSP (μg/m³) 500					
	24-hr TSP (μg/m³)	260				
Measured Levels	Action Level Exceedance for 1-h	r TSP is observed at ASR5 (348 μg/m³) between sampling period				
	9:32 and 10:32 on 10 December 2	020.				
Works Undertaken (at	On 10 December 2020, demolitio	n of CLP substation was conducted.				
the time of monitoring						
event)						
Possible Reason for	The exceedance is unlikely to be	due to this Contract, in view of the following:				
Action or Limit Level	With reference to the reco	orded wind direction (vary between 13° and 24°) and wind speed				
Exceedance(s)	(1.3  m/s), the wind was r	nainly from north-easterly direction. Haze was observed during the				
	sampling time.					
	Dust suppression measur	res were implemented properly on site. Water spraying was				
	applied during rock/cem	ent breaking to prevent dust (refer to <i>Annex A</i> ).				
	0 11 0 0 11 11 11 11 11 11 11 11 11 11 1					
	Based on the above, the exceeda	nce is unlikely to be due to this Contract.				
Actions Taken / To Be	The Contractor has been remind	ed to implement the required mitigation measures as per the EP,				
Taken	approved EIA and Updated EM	&A Manual including watering to maintain all exposed road				
	surfaces and dust sources wet, u	se of sprinklers for water spraying, covering the materials having				
	the potential to create dust by cle	ean tarpaulin, use of water truck and watering on all exposed soil				
	within the Contract site through	out the construction period.				
Remarks	· ·	ta and the locations of air quality monitoring stations are attached				
	(Annex B).					

### Annex A

## Watering Photo



Photo 1 - Water spraying was applied during rock/cement breaking to prevent dust

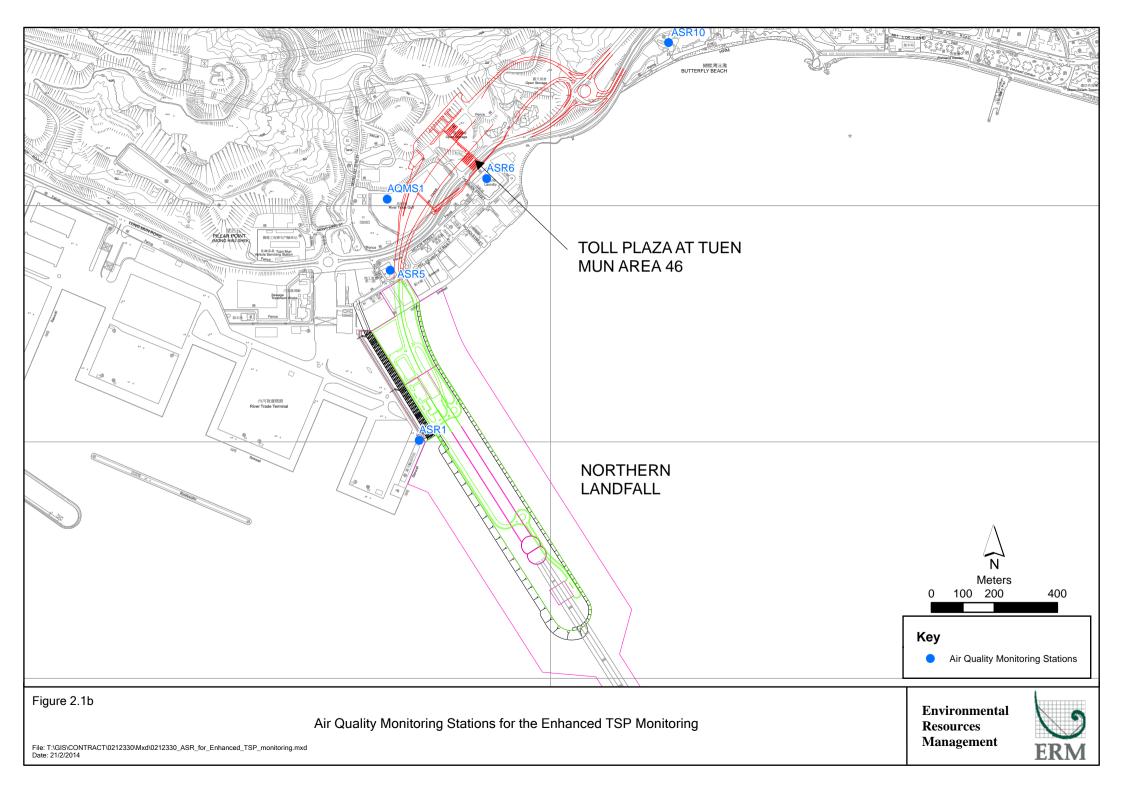
#### Annex B

Results of Air Quality Monitoring, Wind Data & Locations of Air Quality Monitoring Stations

	Air quality monitoring results on 10/12/2020							
Project	Contract	Date	Station	Weather	Start time	Parameters	Results	Unit
TMCLKL	HY/2012/08	2020-12-10	ASR10	Hazy	8:08:00	1-hour TSP	126	ug/m3
TMCLKL	HY/2012/08	2020-12-10	ASR10	Hazy	9:10:00	1-hour TSP	84	ug/m3
TMCLKL	HY/2012/08	2020-12-10	ASR10	Hazy	10:12:00	1-hour TSP	128	ug/m3
TMCLKL	HY/2012/08	2020-12-10	ASR6	Hazy	8:18:00	1-hour TSP	185	ug/m3
TMCLKL	HY/2012/08	2020-12-10	ASR6	Hazy	9:20:00	1-hour TSP	217	ug/m3
TMCLKL	HY/2012/08	2020-12-10	ASR6	Hazy	10:22:00	1-hour TSP	131	ug/m3
TMCLKL	HY/2012/08	2020-12-10	ASR5	Hazy	8:30:00	1-hour TSP	255	ug/m3
TMCLKL	HY/2012/08	2020-12-10	ASR5	Hazy	9:32:00	1-hour TSP	348	ug/m3
TMCLKL	HY/2012/08	2020-12-10	ASR5	Hazy	10:34:00	1-hour TSP	191	ug/m3
TMCLKL	HY/2012/08	2020-12-10	ASR1	Hazy	8:42:00	1-hour TSP	140	ug/m3
TMCLKL	HY/2012/08	2020-12-10	ASR1	Hazy	9:44:00	1-hour TSP	162	ug/m3
TMCLKL	HY/2012/08	2020-12-10	ASR1	Hazy	10:46:00	1-hour TSP	99	ug/m3
TMCLKL	HY/2012/08	2020-12-10	AQMS1	Hazy	8:53:00	1-hour TSP	110	ug/m3
TMCLKL	HY/2012/08	2020-12-10	AQMS1	Hazy	9:55:00	1-hour TSP	114	ug/m3
TMCLKL	HY/2012/08	2020-12-10	AQMS1	Hazy	10:57:00	1-hour TSP	105	ug/m3
TMCLKL	HY/2012/08	2020-12-10	AQMS1	Hazy	11:59:00	24-hour TSP	87	ug/m3
TMCLKL	HY/2012/08	2020-12-10	ASR1	Hazy	11:48:00	24-hour TSP	114	ug/m3
TMCLKL	HY/2012/08	2020-12-10	ASR10	Hazy	11:14:00	24-hour TSP	72	ug/m3
TMCLKL	HY/2012/08	2020-12-10	ASR5	Hazy	11:36:00	24-hour TSP	166	ug/m3
TMCLKL	HY/2012/08	2020-12-10	ASR6	Hazy	11:24:00	24-hour TSP	110	ug/m3

Action level exceedance
Limit level exceedance

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)		
20/12/10	0:00	0.4	102		
20/12/10	1:00	0.4	29		
20/12/10	2:00	0.4	20		
20/12/10	3:00	0.4	30		
20/12/10	4:00	0	97		
20/12/10	5:00	0.9	351		
20/12/10	6:00	0.4	335		
20/12/10	7:00	0.4	49		
20/12/10	8:00	1.3	12		
20/12/10	9:00	1.3	24		
20/12/10	10:00	1.3	13		
20/12/10	11:00	1.3	19		
20/12/10	12:00	1.3	21		
20/12/10	13:00	0.9	202		
20/12/10	14:00	1.3	192		
20/12/10	15:00	1.3	261		
20/12/10	16:00	0.9	279		
20/12/10	17:00	0.4	96		
20/12/10	18:00	0.4	96		
20/12/10	19:00	0	85		
20/12/10	20:00	0.4	78		
20/12/10	21:00	0.9	38		
20/12/10	22:00	1.3	101		
20/12/10	23:00	1.8	82		
20/12/11	0:00	1.8	91		
20/12/11	1:00	0.4	87		
20/12/11	2:00	0.9	38		
20/12/11	3:00	0.9	13		
20/12/11	4:00	0.4	16		
20/12/11	5:00	0	102		
20/12/11	6:00	0	114		
20/12/11	7:00	0	103		
20/12/11	8:00	0.4	135		
20/12/11	9:00	1.3	141		
20/12/11	10:00	0.4	130		
20/12/11	11:00	0.9	141		
20/12/11	12:00	1.3	206		
20/12/11	13:00	0.9	203		
20/12/11	14:00	1.8	201		
20/12/11	15:00	1.3	207		
20/12/11	16:00	0.4	276		
20/12/11	17:00	0.9	269		
20/12/11	18:00	0.4	267		
20/12/11	19:00	0.4	274		
20/12/11	20:00	0	58		
20/12/11	21:00	0	158		
20/12/11	22:00	0.4	290		
20/12/11	23:00	0.4	306		



**Environmental** Resources Management

To Ramboll Hong Kong, Limited (ENPO) 2509, 25/F One Harbourfront

18 Tak Fung Street Hunghom, Kowloon

Hong Kong Telephone: (852) 2271 3000 Facsimile: (852) 2723 5660

From ERM- Hong Kong, Limited

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 February 2021



Dear Sir or Madam,

Ref/Project number

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

Action Level Exceedances:

0212330\_16February2021\_1hrTSP\_Station ASR5

One Action Level Exceedance was recorded on 16 February 2021.

Regards,

Dr Jasmine Ng

**Environmental Team Leader** 

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# 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.	Action Level Exceedance 0212330_16February2021_1hrTSP_Station ASR5			
	[Total No. of Exceedances = 1]			
Date		16 February 2021 (Measured)		
	2 March	2021 (Laboratory results received by ERM)		
Monitoring Station		ASR5		
Parameter(s) with		1-hr TSP		
Exceedance(s)		1-111 131		
Action Levels	24-hr TSP (μg/m³)	ASR1 = 213		
		ASR5 = 238		
		AQMS1 = 213		
		ASR6 = 238		
		ASR10 = 214		
	1-hr TSP (μg/m³)	ASR1 = 331		
		ASR5 = 340		
		AQMS1 = 335		
		ASR6 = 338		
		ASR10 = 337		
Limit Levels	1-hr TSP (μg/m³)	500		
	24-hr TSP (μg/m³)	260		
Measured Levels	Action Level Exceedance for 1-hr	· TSP is observed at ASR5 (355 μg/m³) between sampling period		
	15:37 and 16:37 on 16 February 20	021.		
Works Undertaken (at	No construction works was cond	ucted on 16 February 2021.		
the time of monitoring				
event)				
Possible Reason for	The exceedance is unlikely to be	due to this Contract, in view of the following:		
Action or Limit Level	With reference to the reco	rded wind direction (vary between 274° and 277°) and wind speed		
Exceedance(s)		nainly from north-westerly direction.		
		or, no construction works was conducted on 16 February 2021.		
		nce is unlikely to be due to this Contract.		
Actions Taken / To Be		ed to implement the required mitigation measures as per the EP,		
Taken	1	&A Manual including watering to maintain all exposed road		
	surfaces and dust sources wet, us	se of sprinklers for water spraying, covering the materials having		
	-	an tarpaulin, use of water truck and watering on all exposed soil		
	within the Contract site through	out the construction period.		
Remarks	The monitoring regults raised det	a and the locations of air quality monitoring stations are attached		
Nemai K5		a and the locations of all quality monitoring stations are attached		
	(Annex A).			

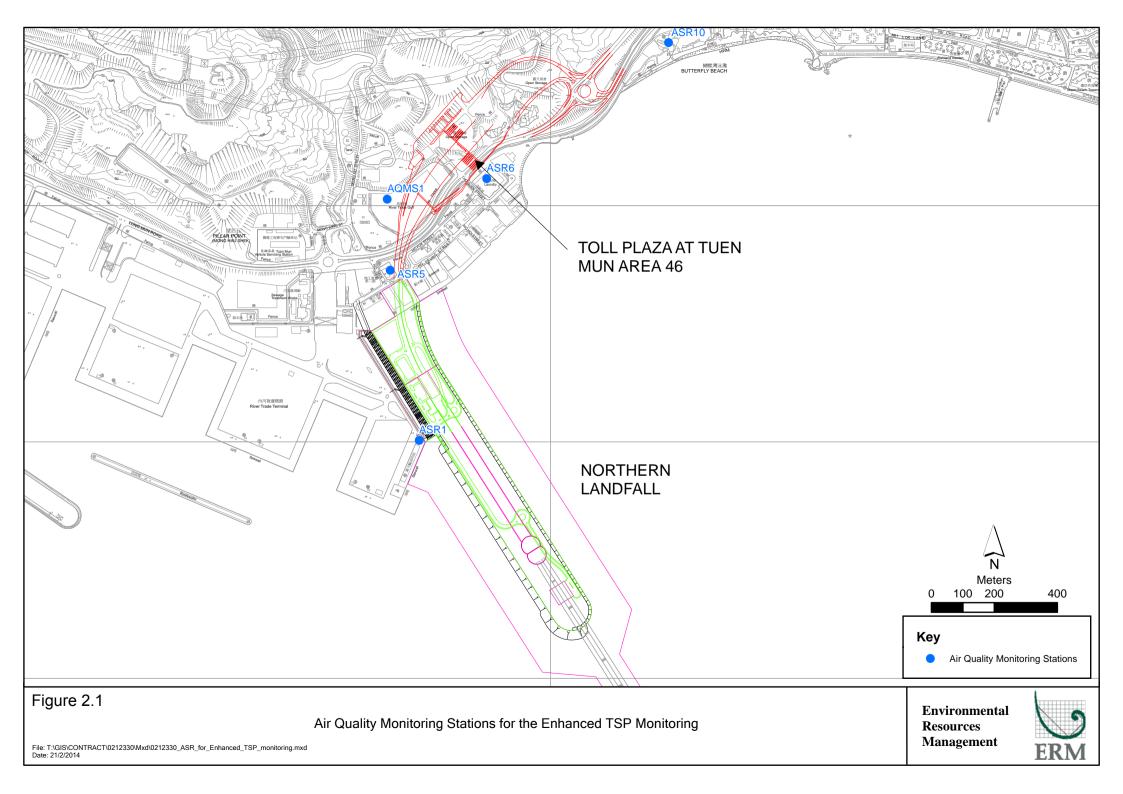
#### Annex A

Results of Air Quality Monitoring, Wind Data & Locations of Air Quality Monitoring Stations

	Air quality monitoring results on 16/2/2021							
Project	Contract	Date	Station	Weather	Start time	Parameters	Results	Unit
TMCLKL	HY/2012/08	2021-02-16	ASR10	Sunny	13:10:00	1-hour TSP	81	ug/m3
TMCLKL	HY/2012/08	2021-02-16	ASR10	Sunny	14:12:00	1-hour TSP	151	ug/m3
TMCLKL	HY/2012/08	2021-02-16	ASR10	Sunny	15:14:00	1-hour TSP	62	ug/m3
TMCLKL	HY/2012/08	2021-02-16	ASR6	Sunny	13:22:00	1-hour TSP	195	ug/m3
TMCLKL	HY/2012/08	2021-02-16	ASR6	Sunny	14:24:00	1-hour TSP	117	ug/m3
TMCLKL	HY/2012/08	2021-02-16	ASR6	Sunny	15:26:00	1-hour TSP	184	ug/m3
TMCLKL	HY/2012/08	2021-02-16	ASR5	Sunny	13:33:00	1-hour TSP	118	ug/m3
TMCLKL	HY/2012/08	2021-02-16	ASR5	Sunny	14:35:00	1-hour TSP	89	ug/m3
TMCLKL	HY/2012/08	2021-02-16	ASR5	Sunny	15:37:00	1-hour TSP	355	ug/m3
TMCLKL	HY/2012/08	2021-02-16	ASR1	Sunny	13:46:00	1-hour TSP	103	ug/m3
TMCLKL	HY/2012/08	2021-02-16	ASR1	Sunny	14:48:00	1-hour TSP	237	ug/m3
TMCLKL	HY/2012/08	2021-02-16	ASR1	Sunny	15:50:00	1-hour TSP	167	ug/m3
TMCLKL	HY/2012/08	2021-02-16	AQMS1	Sunny	13:58:00	1-hour TSP	100	ug/m3
TMCLKL	HY/2012/08	2021-02-16	AQMS1	Sunny	15:00:00	1-hour TSP	93	ug/m3
TMCLKL	HY/2012/08	2021-02-16	AQMS1	Sunny	16:02:00	1-hour TSP	179	ug/m3
TMCLKL	HY/2012/08	2021-02-16	ASR10	Sunny	16:16:00	24-hour TSP	74	ug/m3
TMCLKL	HY/2012/08	2021-02-16	ASR6	Sunny	16:28:00	24-hour TSP	83	ug/m3
TMCLKL	HY/2012/08	2021-02-16	ASR5	Sunny	16:39:00	24-hour TSP	84	ug/m3
TMCLKL	HY/2012/08	2021-02-16	ASR1	Sunny	16:52:00	24-hour TSP	90	ug/m3
TMCLKL	HY/2012/08	2021-02-16	AQMS1	Sunny	17:04:00	24-hour TSP	87	ug/m3

Action level exceedance
Limit level exceedance

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)		
21/02/16	0:00	1.8	78		
21/02/16	1:00	1.8	70		
21/02/16	2:00	1.3	86		
21/02/16	3:00	1.3	58		
21/02/16	4:00	1.3	85		
21/02/16	5:00	2.7	100		
21/02/16	6:00	2.7	79		
21/02/16	7:00	1.8	41		
21/02/16	8:00	2.2	56		
21/02/16	9:00	2.2	93		
21/02/16	10:00	1.8	111		
21/02/16	11:00	1.8	129		
21/02/16	12:00	1.3	101		
21/02/16	13:00	1.3	131		
21/02/16	14:00	1.3	196		
21/02/16	15:00	0.9	274		
21/02/16	16:00	0.9	277		
21/02/16	17:00	0.9	198		
21/02/16	18:00	0.9	261		
21/02/16	19:00	0.9	299		
21/02/16	20:00	0.9	324		
21/02/16	21:00	0.4	328		
21/02/16	22:00	0.4	288		
21/02/16	23:00	0.4	273		
21/02/17	0:00	1.3	308		
21/02/17	1:00	0.9	303		
21/02/17	2:00	0	295		
21/02/17	3:00	0	303		
21/02/17	4:00	0.4	2		
21/02/17	5:00	1.3	5		
21/02/17	6:00	1.8	18		
21/02/17	7:00	2.2	20		
21/02/17	8:00	1.8	19		
21/02/17	9:00	2.7	32		
21/02/17	10:00	1.8	90		
21/02/17	11:00	2.2	23		
21/02/17	12:00	1.8	33		
21/02/17	13:00	1.8	28		
21/02/17	14:00	1.8	24		
21/02/17	15:00	1.8	144		
21/02/17	16:00	0.9	18		
21/02/17	17:00	1.3	81		
21/02/17	18:00	1.3	78		
21/02/17	19:00	1.3	53		
21/02/17	20:00	1.3	66		
21/02/17	21:00	1.3	38		
21/02/17	22:00	1.8	48		
21/02/17	23:00	1.8	49		



**Environmental** Resources Management

To Ramboll Hong Kong, Limited (ENPO)

2509, 25/F One Harbourfront 18 Tak Fung Street Hunghom, Kowloon

From ERM- Hong Kong, Limited Hong Kong Telephone: (852) 2271 3000 Facsimile: (852) 2723 5660

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 22 February 2021



Dear Sir or Madam,

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

Action Level Exceedances:

0212330\_22February2021\_1hrTSP\_Station ASR5

One Action Level Exceedance was recorded on 22 February 2021.

Regards,

Dr Jasmine Ng

**Environmental Team Leader** 

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# 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.	Action Level Exceedance 0212330_22February2021_1hrTSP_Station ASR5			
	[Total No. of Exceedances = 1]			
Date		22 February 2021 (Measured)		
	3 March	2021 (Laboratory results received by ERM)		
Monitoring Station		ASR5		
Parameter(s) with		1-hr TSP		
Exceedance(s)		1-1IF 15F		
Action Levels	24-hr TSP (μg/m³)	ASR1 = 213		
		ASR5 = 238		
		AQMS1 = 213		
		ASR6 = 238		
		ASR10 = 214		
	1-hr TSP (μg/m³)	ASR1 = 331		
		ASR5 = 340		
		AQMS1 = 335		
		ASR6 = 338		
		ASR10 = 337		
Limit Levels	1-hr TSP (μg/m³)	500		
	24-hr TSP (μg/m³)	260		
Measured Levels	Action Level Exceedance for 1-hr	TSP is observed at ASR5 (355 μg/m³) between sampling period		
	15:38 and 16:38 on 22 February 20	021.		
Works Undertaken (at	No construction works was cond	lucted on 22 February 2021.		
the time of monitoring		·		
event)				
Possible Reason for	The exceedance is unlikely to be	due to this Contract, in view of the following:		
Action or Limit Level	-	orded wind direction (vary between 211° and 212°) and wind speed		
Exceedance(s)		m/s), the wind was mainly from south-westerly direction.		
		or, no construction works was conducted on 22 February 2021.		
	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			
	Based on the above, the exceedar	nce is unlikely to be due to this Contract.		
Actions Taken / To Be	The Contractor has been reminde	ed to implement the required mitigation measures as per the EP,		
Taken	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			
		ean tarpaulin, use of water truck and watering on all exposed soil		
	within the Contract site through	out the construction period.		
Remarks		ta and the locations of air quality monitoring stations are attached		
	(Annex A).			

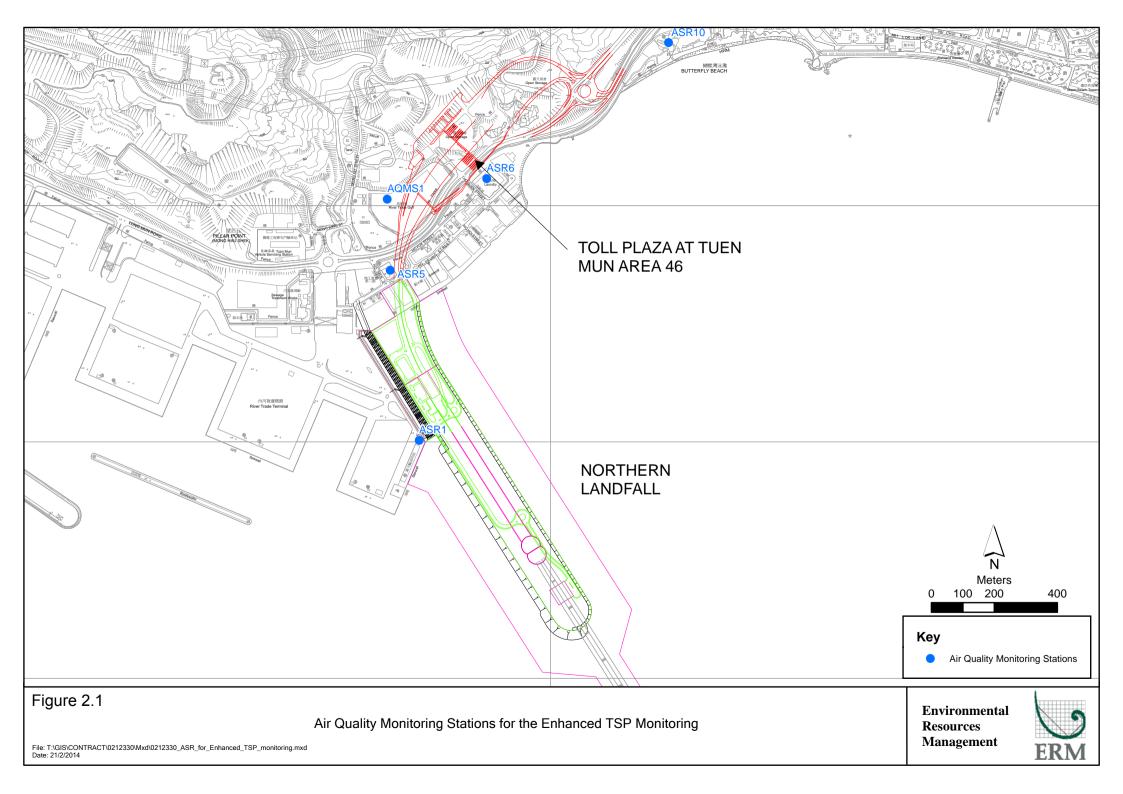
#### Annex A

Results of Air Quality Monitoring, Wind Data & Locations of Air Quality Monitoring Stations

	Air quality monitoring results on 22/2/2021							
Project	Contract	Date	Station	Weather	Start time	Parameters	Results	Unit
TMCLKL	HY/2012/08	2021-02-22	ASR10	Sunny	13:10:00	1-hour TSP	97	ug/m3
TMCLKL	HY/2012/08	2021-02-22	ASR10	Sunny	14:12:00	1-hour TSP	90	ug/m3
TMCLKL	HY/2012/08	2021-02-22	ASR10	Sunny	15:14:00	1-hour TSP	147	ug/m3
TMCLKL	HY/2012/08	2021-02-22	ASR6	Sunny	13:22:00	1-hour TSP	113	ug/m3
TMCLKL	HY/2012/08	2021-02-22	ASR6	Sunny	14:24:00	1-hour TSP	97	ug/m3
TMCLKL	HY/2012/08	2021-02-22	ASR6	Sunny	15:26:00	1-hour TSP	203	ug/m3
TMCLKL	HY/2012/08	2021-02-22	ASR5	Sunny	13:34:00	1-hour TSP	136	ug/m3
TMCLKL	HY/2012/08	2021-02-22	ASR5	Sunny	14:36:00	1-hour TSP	139	ug/m3
TMCLKL	HY/2012/08	2021-02-22	ASR5	Sunny	15:38:00	1-hour TSP	<mark>472</mark>	ug/m3
TMCLKL	HY/2012/08	2021-02-22	ASR1	Sunny	13:47:00	1-hour TSP	128	ug/m3
TMCLKL	HY/2012/08	2021-02-22	ASR1	Sunny	14:49:00	1-hour TSP	209	ug/m3
TMCLKL	HY/2012/08	2021-02-22	ASR1	Sunny	15:51:00	1-hour TSP	171	ug/m3
TMCLKL	HY/2012/08	2021-02-22	AQMS1	Sunny	13:58:00	1-hour TSP	99	ug/m3
TMCLKL	HY/2012/08	2021-02-22	AQMS1	Sunny	15:00:00	1-hour TSP	113	ug/m3
TMCLKL	HY/2012/08	2021-02-22	AQMS1	Sunny	16:02:00	1-hour TSP	154	ug/m3
TMCLKL	HY/2012/08	2021-02-22	ASR10	Sunny	16:16:00	24-hour TSP	62	ug/m3
TMCLKL	HY/2012/08	2021-02-22	ASR6	Sunny	16:28:00	24-hour TSP	76	ug/m3
TMCLKL	HY/2012/08	2021-02-22	ASR5	Sunny	16:40:00	24-hour TSP	83	ug/m3
TMCLKL	HY/2012/08	2021-02-22	ASR1	Sunny	16:53:00	24-hour TSP	86	ug/m3
TMCLKL	HY/2012/08	2021-02-22	AQMS1	Sunny	17:04:00	24-hour TSP	69	ug/m3

Action level exceedance
Limit level exceedance

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)		
21/02/22	0:00	0.9	45		
21/02/22	1:00	0.4	45		
21/02/22	2:00	0	32		
21/02/22	3:00	0	21		
21/02/22	4:00	0	19		
21/02/22	5:00	0	14		
21/02/22	6:00	0.4	358		
21/02/22	7:00	0.4	307		
21/02/22	8:00	0.9	138		
21/02/22	9:00	0.9	126		
21/02/22	10:00	0.9	183		
21/02/22	11:00	1.3	203		
21/02/22	12:00	1.8	233		
21/02/22	13:00	1.3	236		
21/02/22	14:00	1.8	203		
21/02/22	15:00	1.8	211		
21/02/22	16:00	1.3	212		
21/02/22	17:00	1.3	67		
21/02/22	18:00	1.3	60		
21/02/22	19:00	1.3	71		
21/02/22	20:00	1.3	50		
21/02/22	21:00	0.9	60		
21/02/22	22:00	0.4	57		
21/02/22	23:00	0.4	35		
21/02/23	0:00	0.4	46		
21/02/23	1:00	0.9	322		
21/02/23	2:00	0.4	328		
21/02/23	3:00	0.4	341		
21/02/23	4:00	0	303		
21/02/23	5:00	0	322		
21/02/23	6:00	0.4	308		
21/02/23	7:00	0	317		
21/02/23	8:00	0	113		
21/02/23	9:00	1.3	218		
21/02/23	10:00	1.3	193		
21/02/23	11:00	0.9	130		
21/02/23	12:00	1.8	210		
21/02/23	13:00	1.8	200		
21/02/23	14:00	1.3	230		
21/02/23	15:00	2.2	100		
21/02/23	16:00	2.7	92		
21/02/23	17:00	3.1	104		
21/02/23	18:00	2.2	86		
21/02/23	19:00	2.2	97		
21/02/23	20:00	2.7	94		
21/02/23	21:00	2.7	87		
21/02/23	22:00	2.2	98		
21/02/23	23:00	2.7	81		



**Environmental** Resources Management

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Hong Kong

Telephone: (852) 2271 3000 Facsimile: (852) 2723 5660

From ERM- Hong Kong, Limited

Contract No. HY/2012/08 Tuen Mun-Chek Lap

Kok Link-Northern Connection Sub-sea Tunnel

Section

Subject Notification of Exceedance for Post Construction

(Operational) Dolphin Monitoring

Date 18 May 2021



Dear Sir or Madam,

Ref/Project number

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

 $0212330\_December 2020/February 2021\_dolphin\_STG\&ANI\_NEL\&NWL$ 

A total of one limit level exceedance was recorded in the quarterly post construction (operational) dolphin monitoring data between December 2020 and February 2021.

Regards,

Dr Jasmine Ng

**Environmental Team Leader** 

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

## Post Construction Dolphin Monitoring Notification of Exceedance

Log No.	0212330_ Dec2020/Feb2021_dolphin_STG&ANI_NEL&NWL			
	[Total No.	of Exceedances = 1 Limit Level Exceedance]		
Date	December 2020 – February 2021 (monitored)			
	5 March 2021 (results received by ERM)			
Monitoring Area	Northeast	Lantau (NEL) and Northwest Lantau (NWL)		
Parameter(s) with	Quarterl	y encounter rate of dolphin sightings (STG)		
Exceedance(s)	Quarterly er	ncounter rate of total number of dolphins (ANI)		
Action Levels	NEL: STG < 4.2 & ANI < 15.5 or			
		NWL: STG < 6.9 & ANI < 31.3		
Limit Levels	North Lantau Social cluster	NEL: STG < 2.4 & ANI < 8.9		
		and		
		NWL: STG < 3.9 & ANI < 17.9		
Recorded Levels	NEL	STG = 0 & ANI = 0		
	NWL	STG = 0.55 & ANI = 1.09		
	One Limit Level Exceedance was	recorded in the quarterly post construction dolphin monitoring at		
	NEL and NWL between Decemb	per 2020 and February 2021.		
Statistical Analyses	<ul> <li>A two-way ANOVA with a Period (2 levels: baseline v. 2021) and Location (2 level any significant differences post construction monitori statistical tests, significant between Periods.</li> <li>A two-way ANOVA with a Cumulative Period (2 level Location (2 levels: NEL and significant differences in the quarters. By setting α = 0 difference in STG (p = 0.000 Location were detected.</li> <li>*Note: The commencement date Proposal for operational phase difference</li> </ul>	lable and relevant dolphin monitoring data for TMCLKL project, ed as follows: repeated measures and unequal sample size was conducted using spresent post construction quarter, December 2020 and February s: NEL and NWL) as fixed factors to examine whether there were in the average encounter rates between the baseline and presenting quarter. By setting $\alpha = 0.01$ as the significance level in the differences in STG ( $p = 0.0063$ ) and ANI ( $p = 0.0268$ ) were detected repeated measures and unequal sample size was conducted using the first 33 quarters of impact and post construction phases) and dolonomy and in ANI ( $p = 0.00000$ ) and in the significance level in the statistical tests, significant 100001 as the significance level in the statistical tests, significant 100001 and in ANI ( $p = 0.000000$ ) between Cumulative Period and 100001 and in ANI ( $p = 0.000000$ ) between Cumulative Period and 100001 and 10001 and 100		
Montes I Indontal and Co.	No marina rivaria a constanti di constanti	on in the generating maried and or Contract No. 11V/2012/00		
Works Undertaken (in the monitoring	Operational phase dolphin moni	en in the reporting period under Contract No. HY/2012/08. toring commenced in June 2020.		
quarter)	Termination proposal for constru	en in the reporting period under Contract No. HY/2012/07.  action EM&A programme of Contract No. HY/2012/07 was  020. The construction phase EM&A programme of Contract No.  d since 16 March 2020.		

Possible Reason for	The exceedance recorded in the quarterly post construction dolphin monitoring is unlikely to be due
Action or Limit Level	to TMCLKL project, in view of the following:
Exceedance(s)	* /
Exceedance(s)	Blocking of CWD travelling corridor:
	The Monitoring of Marine Mammals in Hong Kong Waters (2019 – 20) <sup>(1)</sup> reported that dolphin usage and traveling activities to the northern side of the airport (dolphin traveling corridor) are affected by frequent high-speed ferry traffic from Sky Pier (not related to TMCLKL project), which is likely a major factor resulting in the decrease in dolphin abundances in North Lantau.  • Marine works of TMCLKL project:  Marine works were completed and no marine vessels will be deployed under Contract No. HY/2012/08 as per confirmed by SOR on 17 April 2020. The Proposal for operational phase dolphin monitoring was approved by EPD on 19 May 2020. Operational phase dolphin monitoring commenced in June 2020.  No marine works was undertaken in the reporting period under Contract No. HY/2012/07. Termination proposal for construction EM&A programme of Contract No. HY/2012/07 was approved by EPD on 16 March 2020. The construction phase EM&A programme of Contract No. HY/2012/07 has been terminated since 16 March 2020.  During this quarter of dolphin monitoring, no adverse impact on CWD due to the activities under TMCLKL project was observed.  Impact on water quality:  Marine works were completed and no marine vessels will be deployed under TMCLKL project. The Proposal for operational phase water quality monitoring was approved by EPD on 19 May 2020. Operational phase water quality monitoring commenced in June 2020.  • Provision of Marine Park:  The Government has designated the Brothers Islands as a marine park in December 2016, with the aim to help better conserve the Chinese White Dolphins, their habitats and enhance the marine and fisheries resources therein.
	In view of the above, no unacceptable impact on CWD or its habitat was associated with TMCLKL
	project in this quarter.
Actions Taken / To Be	No marine works and vessels was undertaken/deployed in the reporting period.
Taken	The ET will monitor for future trends in exceedances.
Remarks	The results of post construction dolphin monitoring are documented in the approved <i>Eighty-Sixth</i> to
	Eighty-Eighth Monthly EM&A Reports.