Table J1Cumulative Statistics on Exceedances

Monitoring Parameters	Action/Limit Level	Total No. recorded in this reporting quarter	Total No. recorded since project
			commencement
1-Hr TSP	Action	0	30
	Limit	0	2
24-Hr TSP	Action	0	5
	Limit	0	1
Water Quality	Action	0	6
	Limit	0	1
Impact Dolphin	Action	0	7
Monitoring	Limit	1	3

Table J2Cumulative Statistics on Complaints, Notifications of Summons and
Successful Prosecutions

Reporting Period			
	Complaints	Notifications of Summons	Successful Prosecutions
This Reporting Period (June 2015 to August 2015)	0	0	0
Total No. received since project commencement	4	0	0

Email message		Environmental Resources Management
То	Ramboll Environ - Hong Kong, Limited (ENPO)	16/F Berkshire House, 25 Westlands Road Quarry Bay, Hong Kong
From	ERM- Hong Kong, Limited	Telephone: (852) 2271 3113 Facsimile: (852) 2723 5660 E-mail: jovy.tam@erm.com
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 Impact Dolphin Monitoring	9
Date	4 November 2015	ERM

Dear Sir or Madam,

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

0212330_Jun2015/Aug2015_dolphin_STG&ANI_NEL&NWL

A total of one limit level exceedance was recorded in the quarterly impact dolphin monitoring data between June 2015 and August 2015.

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

Impact Dolphin Monitoring Notification of Exceedance

Log No.	0212330_Jun2015/Aug2015_dolphin_STG&ANI_NEL&NWL		
	[Total No. of Exceedances = 1 Limit Level Exceedance]		
Date	June 2015 to August 2015 (monitored)		
	24 September 2015 (results received by ERM)		
Monitoring Area	Northeast Lantau (NEL) and Northwest Lantau (NWL)		
Parameter(s) with	Quarterly encounter rate of dolphin sightings (STG)		
Exceedance(s)	Quarterly encounter rate of total number of dolphins (ANI)		
Action Levels		NEL: STG < 4.2 & ANI < 15.5	
		or	
T	North Lantau Social cluster	NWL: STG < 6.9 & ANI < 31.3	
Limit Levels	North Earlier Social Cluster	NEL: STG < 2.4 & ANI < 8.9	
		and	
		NWL: STG < 3.9 & ANI < 17.9	
Recorded Levels	NEL	STG = 0.44 & ANI = 0.44	
	NWL	STG = 2.53 & ANI = 9.21	
		corded in the quarterly impact dolphin monitoring at NEL and	
	NWL between June 2015 and August 2015. The exceedance was reported in the approved Twenty second <i>Monthly EM&A Report</i> dated 14 September 2015.		
Statistical Analyses	 Further to the review of the available and relevant dolphin monitoring data in the EM&A programme by this Contract, statistical analyses were conducted as follows: A two-way ANOVA with repeated measures and unequal sample size was conducted using Period (2 levels: baseline vs impact – present quarter, June 2015 to August 2015) and Location (2 levels: NEL and NWL) as fixed factors to examine whether there were any significant differences in the averages encounter rates between the baseline and present impact monitoring quarter. By setting α = 0.05 as the significance level in the statistical tests, significant difference in STG (<i>p</i> = 0.0064) and in ANI (<i>p</i> = 0.0270) between Period were detected. A two-way ANOVA with repeated measures and unequal sample size was conducted using Cumulative Period (2 levels: baseline vs impact – cumulative quarters*, December 2012 to August 2015) and Location (2 levels: NEL and NWL) as fixed factors to examine whether there were any significant differences in the averages encounter rates between the baseline and cumulative impact monitoring quarters. By setting α = 0.01 as the significance level in the statistical tests, significant difference in STG (<i>p</i> = 0.00020) and in ANI (<i>p</i> = 0.00005) between Cumulative Period and Location were detected. 		
Works Undertaken (in the monitoring quarter)	In the quarter between June 2015 Contract.	and August 2015, no marine works was carried out in this	

Possible Reason for	The succedence is sensidered as the second by the Duriest in size of the following
Action or Limit Level	The exceedance is considered not caused by the Project, in view of the following:
Exceedance(s)	• The <i>Monitoring of Marine Mammals in Hong Kong Waters</i> (2014 – 15) ⁽¹⁾ 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 this project),
	which is likely a contributing factor for the decrease in dolphin abundances in NEL.
	• As per the findings from the EIA report (Section 8.11.9), the major influences on the Chinese
	White Dolphin (CWD) are marine traffics, dredging works and reclamation/filling works.
	The Contractor has implemented the marine traffic control as per the requirements in the EP-
	354/2009/D and the updated EM&A Manual. No marine works were carried out during the
	monitoring quarter. During this quarter of dolphin monitoring, no unacceptable impact on CWD due to the activities under this Contract was observed.
	CVVD due to the activities drider this Contract was observed.
Actions Taken / To Be	With reference to the site inspection records in this quarter, the respective marine ecological
Taken	mitigation measures (including marine traffic control) have been implemented properly by the
	Contractor throughout the marine works period. No immediate additional action is considered
	necessary. The ET will monitor for future trends in exceedance(s).
	A joint team meeting was held on 6 October 2015 for discussion on CWD trend, with attendance of
	ENPO, HyD, Representatives of Resident Site Staff (RSS), Environmental Team (ET) for Contract
	No. $HY/2010/02$, $HY2011/03$, $HY/2012/07$ and $HY/2012/08$, and Representatives of Main
	Contractor for Contract No. HY/2012/07 and HY/2012/08. The discussion/recommendation as
	recorded in the minutes of the meeting, which might be relevant to this Contract are summarized
	below. It was concluded that the HZMB works is one of the contributing factors affecting the
	dolphins. It was also concluded the contribution of impacts due to the HZMB works as a whole (or
	individual marine contracts) cannot be quantified nor separate from the other stress factors. It was
	reminded that the ETs shall keep reviewing the implementation status of the dolphin related mitigation measures and remind the contractor to ensure the relevant measures were fully
	implemented. The participants were requested by ENPO to collect and report the marine traffic
	statistics. It was recommended that the marine works of HZMB projects should be completed as
	soon as possible so as to reduce the overall duration of impacts and allow the dolphins population
	to recover as early as possible.
Remarks	The results of impact water quality and impact dolphin monitoring, the status of implemented
	marine ecological mitigation measures are documented in the approved <i>Twentieth</i> to <i>Twenty-second</i>
	EM&A Monthly Reports.