



# Appendix 40

Emission of Kwun Tong Typhoon Shelter

#### Appendix 40

**CE 38/2008(HY)** 

Kai Tak Development - Trunk Road T2 and Infrastructure at South Apron Investigation, Design and Construction Emission of Kwun Tong Typhoon Shelter

#### Barge Ship in Kwun Tong Typhoon Shelter

#### **Auxiliary Engine during idling:**

Remarks

Propulsion engine Power, kW = 82 (1) Load Factor, % = 43% (1) Activity Time, Hr = 1No. of Barges per hour operate = 20

	Emission Factor in g/kWh	Emission Rate in kg	Emission Rate in kg/hr	Emission Rate in g/s per barge	Remarks
NO <sub>x</sub>	10	0.3526	7.052	1.9589	
RSP	0.4	0.014104	0.28208	0.1982	(2)

Total Area of Kwun Tong Typhoon Shelter, m<sup>2</sup> = 336600

	Total Emission Rate	Total Emission Rate, g/m <sup>2</sup> /s			
	g/s	Kwun Tong			
NO <sub>x</sub>	1.9589	5.81963E-06			
NO <sub>2</sub>	0.3918	1.16393E-06			
RSP	0.1982	5.88947E-07			

### NOTE:

- (1) As Auxiliary Engine power rating of a Speed launch Vessel is not available from the reference document, "Study on Marine Vessels Emission Inventory", the power rating of a Barge Ship is used for a conservative approach
- (2) Emission Factor for RSP is multiplied by 2.53 assuming the use of fuel with average of 3.8% sulphur content for conservative approach

Source ID	X-Coordinate	Y-Coordinate	Release Height (m)	Length-X	Width-Y	Angle	NOx (g/m <sup>2</sup> /s)	RSP (g/m <sup>2</sup> /s)
KTTS	839777.000	819292.000	5	1020	330	45	5.81963E-06	5.88947E-07

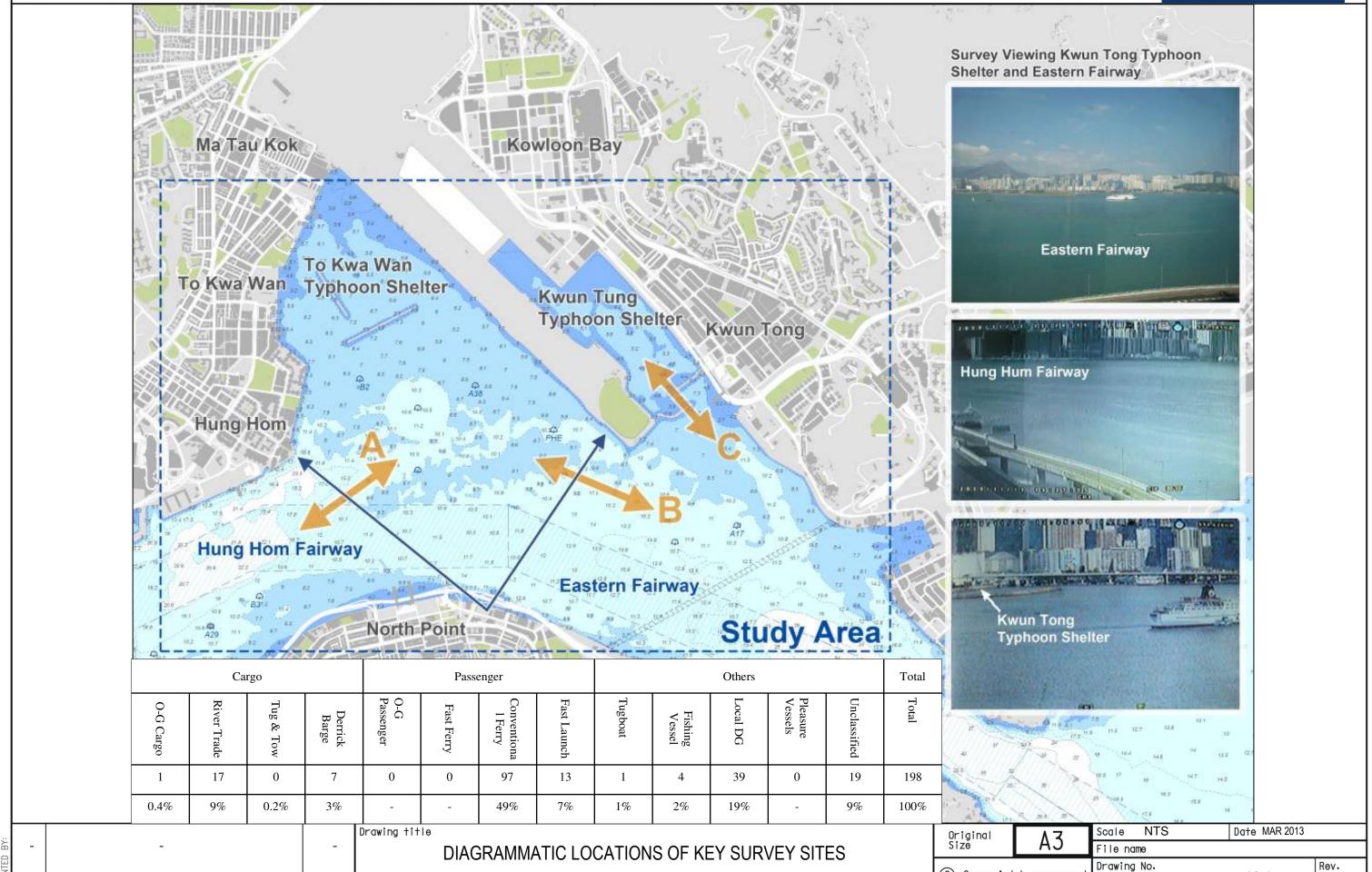
Date

Description

## AGREEMENT NO. CE 38/2008(HY) KAI TAK DEVELOPMENT - TRUNK ROAD T2 AND INFRASTRUCTURE AT SOUTH APRON - INVESTIGATION, DESIGN AND CONSTRUCTION



APPENDIX 40-1



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