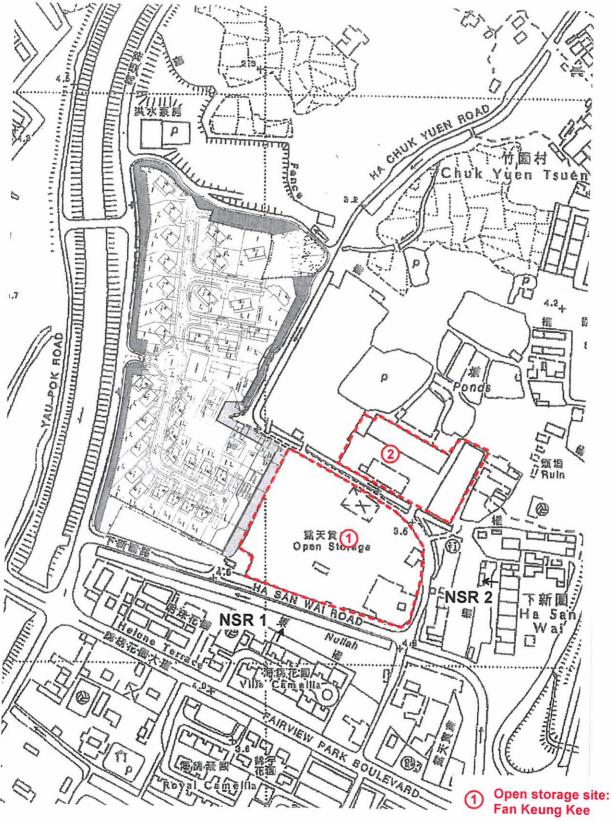
Appendix 4-5

Industrial Noise Calculation at Nearby Existing Village Houses (Worst Case Scenario)





2 Enclosed godown: Shing Fat Logistics Ltd.

F:		
Figure:		RAMBOLL ENVIRON
Title:	Existing NSRs	Drawn by: CC
	(Villa Camelila and Ha San Wai)	Checked by: KW
Project:	EIA for Proposed Low-rise and Low-density Residential Development at Various Lots and Their	Rev.: -
_	Adjoining Government Land in D.D. 104, East of Kam Pok Road, Mai Po, Yuen Long, N.T.	Date: November 2015

Predicted Industrial Noise Levels in Daytime Period

Job Title.: Job No.:

Kam Pok Road 22080 5/7/2014 Date: Scenario:

NSR 1

Floor G/F

			Max:	(ANI.) Criterion	Compliance
59.2	59.2	59.2	59.2	0.09	YES
58.5	58.4	58.4	58.5	0.09	YES

Predicted Industrial Noise Levels in Night-time Period

Kam Pok Road	22080	5/7/2014	
Job Title.:	Job No.:	Date:	Scenario:

_	49.2	49.2	49.2	
Floor	G/F 48.2	1/F 48.2	2/F 48.2	

Calculation of Industrial Noise Levels (Daytime Period)

Kam Pok Road 22080 07/07/14 Job Title.: Job No.: Date:

NSR	NSR 1	Xr	Xr: 823521										
	2/F	Yr.	Yr: 837014										
		Ì	Hr: 11.2										
				Sou	Source location & distance	n & dista	nce		ပိ	Corrections			CNL
Code	Code Description	SWL	No	××	۲s	£	Lsr	Cno	CLsr	Catm	Csri	Cfac	dB(A)
S2-2	S2-2 Mobile Crane (Fan Keung Kee)	26	~	823539.1	837124	4.5	112.0	0	-49.0	0.0	0.0	n	51.0
S2-1	S2-1 Lorry (Fan Keung Kee)	66	7	823537.6	837122	4.5	110.0	ო	-48.8	0.0	0.0	ო	56.2
S1-1	Operating Noise (Fan Keung Kee)	94	-	823579.5	837132	4.5	131.9	0	-50.4	0.0	0.0	က	46.6
S2-3	Forklift (Fan Keung Kee)	91	_	823587.9	837132	4.5	136.0	0	-50.7	0.0	0.0	ო	43.3
S10-1	S10-1 Forklift (Shing Fat Logistics Ltd.)	91	7	823597.1	837193	4.5	195.0	ო	-53.8	0.0	0.0	က	43.2
S10-2	S10-2 Lorry (Shing Fat Logistics Ltd.)	66	က	823596.8	837191	4.5	192.6	2	-53.7	0.0	0.0	က	53.1
											-	TOTAL	592

Definition of terms:

- the sound power level of a source, dB(A) - the equivalent continuous noise level over a 30 minute period, dB(A) LAeq SWL

the number of items of plant operating simultaneously
the coordinates of the NSR, m
the coordinates of the source, m
the horizontal distance between the source and NSR, m No. Xr, Yr, Hr Xs, Ys, Hs Lsr

Cno CLsr Catm Cfac Csri CNL

correction for no. of plant items
 the correction for slant distance between the source and the NSR, dB(A)
 the air absorption using CONCAWE methodology

- the facade correction, dB(A) - the sound reduction provided by the building envelope, dB(A) - the corrected noise level, dB(A)(30 minutes)

Calculation of Industrial Noise Levels (Night-time Period)

Kam Pok Road Job Title.:

22080 07/07/14 Job No.: Date:

NSR	NSR 1	X	Xr: 823521										
	2/F	. TY	Yr: 837014										
		Ì	Hr: 11.20										
				Sourc	Source location & distance	n & dista	nce		ပြ	Corrections			CNL
Code	Code Description	SWL	o. V	xs	Υs	HS	Lsr	Cno	CLsr	CLsr Catm	Csri	Cfac	dB(A)
3	Mobile Const (For Young Vering			0	0.00	L	0	(((
2-70	oz-z iwonie ciane (ran heung hee))B	⊃	823239	823539 837124	4. C	112.0	0	-49.0	0.0	0.0	က	0.0
S2-1	S2-1 Lorry (Fan Keung Kee)	66	0	823538	837122	4.5	110.0	0	-48.8	0.0	0.0	ო	0.0
S1-1	S1-1 Operating Noise (Fan Keung Kee)	98	7	823580	837132	4.5	131.9	0	-50.4	0.0	0.0	ო	46.6
S2-3	S2-3 Forkliff (Fan Keung Kee)	91	0	823588	837132	4.5	136.0	0	-50.7	0.0	0.0	က	0.0
S10-1	S10-1 Forklift (Shing Fat Logistics Ltd.)	9	2	823597	837193	4.5	195.0	ო	-53.8	0.0	0.0	ო	43.2
S10-2	S10-2 Lorry (Shing Fat Logistics Ltd.)	66	0	823597	837191	4.5	192.6	0	-53.7	0.0	0.0	က	0.0
												TOTAL	48.7

Definition of terms:

 the sound power level of a source, dB(A)
 the equivalent continuous noise level over a 30 minute period, dB(A) SWL

 the number of items of plant operating simultaneously
 the coordinates of the NSR, m
 the coordinates of the source, m
 the horizontal distance between the source and NSR, m No. Xr. Yr, Hr Xs, Ys, Hs Lsr

- the facade correction, dB(A) - the sound reduction provided by the building envelope, dB(A) - the corrected noise level, dB(A)(30 minutes)Cno CLsr Catm Cfac Csri CNL

- correction for no. of plant items - the correction for slant distance between the source and the NSR, dB(A)

- the air absorption using CONCAWE methodology

Calculation of Industrial Noise Levels (Daytime Period)

Kam Pok Road 22080 07/07/14 Job Title.: Job No.: Date:

NSR	NSR 2	Xr	Xr · 823703										
	2/F	. .	Yr: 837091										
		Ī	Hr: 11.2										
				Sour	Source location & distance	n & dista	nce		ပိ	Corrections			CNL
Code	Description	SWL	No.	Xs	Ys	Hs	Lsr	Cno	CLsr	Catm	Csri	Cfac	dB(A)
S2-2	Mobile Crane (Fan Keung Kee)	97	4	823539.1 837124	837124	4.5	167.4	0	-52.5	0.0	0.0	С	47.5
S2-1	S2-1 Lorry (Fan Keung Kee)	66	7	823537.6	837122	4.5	168.5	m	-52.5	0.0	0.0	ო	52.5
S1-1	Operating Noise (Fan Keung Kee)	94	-	823579.5	837132	4.5	130.2	0	-50.3	0.0	0.0		46.7
S2-3	Forklift (Fan Keung Kee)	91	τ-	823587.9	837132	4.5	122.4	0	-49.8	0.0	0.0	m	44.2
S10-1	S10-1 Forklift (Shing Fat Logistics Ltd.)	91	2	823597.1	837193	4.5	147.2	ო	-51.4	0.0	0.0	ი	45.7
S10-2	S10-2 Lorry (Shing Fat Logistics Ltd.)	66	က	823596.8	837191	4.5	145.7	5	-51.3	0.0	0.0	. ი	55.5
	Probability and the second sec										 -	TOTAL	58.4

Definition of terms:

the sound power level of a source, dB(A)
the equivalent continuous noise level over a 30 minute period, dB(A)
the number of items of plant operating simultaneously
the coordinates of the NSR, m
the coordinates of the source, m
the horizontal distance between the source and NSR, m No. Xr, Yr, Hr Xs, Ys, Hs Lsr LAeq SWL

correction for no. of plant items
the correction for slant distance between the source and the NSR, dB(A)
the air absorption using CONCAWE methodology
the facade correction, dB(A)
the sound reduction provided by the building envelope, dB(A)
the corrected noise level, dB(A)(30 minutes)

Cho CLsr Catm Cfac Csri

Calculation of Industrial Noise Levels (Night-time Period)

Kam Pok Road 22080 Job Title.:

07/07/14 Job No.: Date:

NSR	NSR 2	: JX	Xr: 823703										
	2/F	. Yr :	Yr: 837091										
	TO THE POST OF THE	÷	Hr : 11.20										
				Source	Source location & distance	& dista	nce		S	Corrections			CNF
Code	Description	SWL	No.	××	Ys	£	Lsr	Cho	CLsr	CLsr Catm	Csri	Cfac	dB(A)
S2-2	S2-2 Mobile Crane (Fan Keung Kee)	26	0	823539	837124	5.4	167.4	0	-52.5	0.0	0.0	က	0.0
S2-1	S2-1 Lorry (Fan Keung Kee)	66	0	823538	837122	5.4	168.5	0	-52.5	0.0	0.0	3	0.0
S1-1	Operating Noise (Fan Keung Kee)	94	<u>_</u>		837132	4 3	130.2	0	-50.3	0.0	0.0	· (C)	46.7
S2-3	S2-3 Forklift (Fan Keung Kee)	91	0		837132	5.5	122.4	0	-49.8	0.0	0.0	8	0.0
S10-1	S10-1 Forklift (Shing Fat Logistics Ltd.)	91	2	823597	837193	4.5	147.2	ო	-51.4	0.0	0.0	8	45.7
S10-2	S10-2 Lorry (Shing Fat Logistics Ltd.)	66	0	823597	837191	4.5	145.7	0	-51.3	0.0	0.0	ဗ	0.0
	TOTAL PROPERTY OF THE PROPERTY										_	TOTAL	49.2

Definition of terms:

- the equivalent continuous noise level over a 30 minute period, dB(A) - the sound power level of a source, dB(A) LAeg No. SWL

the number of items of plant operating simultaneously
the coordinates of the NSR, m
the coordinates of the source, m
the horizontal distance between the source and NSR, m Xr, Yr, Hr Xs, Ys, Hs Lsr

correction for no. of plant items
 the correction for slant distance between the source and the NSR, dB(A)
 the air absorption using CONCAWE methodology

- the facade correction, dB(A)

- the sound reduction provided by the building envelope, dB(A) - the corrected noise level, $dB(A)(30\ minutes)$ Cno CLsr Catm Cfac Csri