# Annex A5-1 - ISCST3 Model Results for Gaseous Emissions during Operation/Restoration Phase

Note: Assessment was only carried within 500m from the Extension site boundary

Nitrogen Dioxide (NO2)

General Background NO2 concentration ug/m3

Maximum Hourly

ASR	Name	Approx. Maximum Height of Building (m)	GD	10m	20m	30m	Highest
A1-1	Proposed C&DM Handling Facility	30	75	75	75	75	75
	Planned Industrial Uses in TKO 137						
A1-2 (1)	(South of Extension) - 1	30	68	72	95	134	134
	Planned Industrial Uses in TKO 137						
	(South of extension) - 2 (outside						
A1-2 (2)	200m HKSG buffer distance)	30	70	70	71	77	77
	Planned Industrial Uses in TKO 137 -						
A1-3 (1)	(South of TVB City) 1	30	68	68	68	71	71
	Planned Industrial Uses in TKO 137 -						
	(South of TVB City) - 2 (outside						
A1-3 (2)	200m HKPSG buffer distance)	30	68	68	69	71	71
A2	TVB City	30	68	68	68	71	71
A3	HAESL	30	68	68	68	71	71
	HAECO Component Overhaul						
A4	Building	30	68	68	70	75	75
	Yan Hing Machinery Industrial						
A7	Building	30	72	72	73	74	74
A8	Apple Daily	30	83	83	84	84	84
		Hourly NO2 Criterion	300	300	300	300	300

Daily General Background NO2 concentration ug/m3

ASR	Name	Approx. Maximum Height of Building (m)	GD	10m	20m	30m	Highest
A1-1	Proposed C&DM Handling Facility	30	66	66	67	67	67.0
	Planned Industrial Uses in TKO 137						
A1-2 (1)	(South of Extension) - 1	30	66	67	74	90	90.3
	Planned Industrial Uses in TKO 137						
	(South of extension) - 2 (outside						
A1-2 (2)	200m HKSG buffer distance)	30	67	67	67	68	67.8
	Planned Industrial Uses in TKO 137 -						
A1-3 (1)	(South of TVB City) 1	30	67	67	67	67	66.6
	Planned Industrial Uses in TKO 137 -						
	(South of TVB City) - 2 (outside						
A1-3 (2)	200m HKPSG buffer distance)	30	67	67	67	67	67.3
A2	TVB City	30	66	66	66	67	66.5
A3	HAESL	30	66	66	67	67	66.8
	HAECO Component Overhaul						
A4	Building	30	66	66	66	67	67.0
1	Yan Hing Machinery Industrial						
A7	Building	30	67	67	67	68	67.5
A8	Apple Daily	30	67	67	67	67	67.3
		Daily NO2 Criterion	150	150	150	150	150

Annual Average General Background NO2 concentration ug/m3

		Approx. Maximum					
	Name	Height of Building (m)	GD	10m	20m	30m	Highest
A1-1	Proposed C&DM Handling Facility	30	66.0	66.0	66.1	66.1	66.10
	Planned Industrial Uses in TKO 137						
A1-2 (1)	(South of Extension) - 1	30	66.0	66.1	66.3	67.9	67.93
	Planned Industrial Uses in TKO 137						
	(South of extension) - 2 (outside						
A1-2 (2)	200m HKSG buffer distance)	30	66.0	66.0	66.1	66.1	66.12
	Planned Industrial Uses in TKO 137 -						
A1-3 (1)	(South of TVB City) 1	30	66.1	66.1	66.1	66.1	66.09
	Planned Industrial Uses in TKO 137 -						
	(South of TVB City) - 2 (outside						
A1-3 (2)	200m HKPSG buffer distance)	30	66.1	66.1	66.1	66.1	66.11
A2	TVB City	30	66.1	66.1	66.1	66.1	66.08
A3	HAESL	30	66.1	66.1	66.2	66.2	66.24
	HAECO Component Overhaul						
A4	Building	30	66.1	66.1	66.1	66.2	66.15
	Yan Hing Machinery Industrial						
A7	Building	30	66.1	66.1	66.1	66.1	66.15
A8	Apple Daily	30	66.1	66.1	66.1	66.2	66.16
		Annual NO2 Criterion	80	80	80	80	80

Carbon Monoxide (CO)

General Background CO concentration 1294 ug/m3

Maximum Hourly

		Approx. Maximum					
ASR	Name	Height of Building (m)	GD	10m	20m	30m	Highest
A1-1	Proposed C&DM Handling Facility	30	1327	1328	1332	1357	1357
	Planned Industrial Uses in TKO 137						
A1-2 (1)	(South of Extension) - 1	30	1320	1362	1649	2273	2273
	Planned Industrial Uses in TKO 137						
	(South of extension) - 2 (outside						
A1-2 (2)	200m HKSG buffer distance)	30	1336	1337	1364	1448	1448
	Planned Industrial Uses in TKO 137 -						
A1-3 (1)	(South of TVB City) 1	30	1325	1325	1327	1359	1359
	Planned Industrial Uses in TKO 137 -						
	(South of TVB City) - 2 (outside						
A1-3 (2)	200m HKPSG buffer distance)	30	1326	1326	1331	1358	1358
A2	TVB City	30	1325	1325	1326	1361	1361
A3	HAESL	30	1321	1321	1323	1359	1359
	HAECO Component Overhaul						
A4	Building	30	1320	1320	1322	1358	1358
	Yan Hing Machinery Industrial	·					
A7	Building	30	1321	1321	1324	1360	1360
A8	Apple Daily	30	1320	1320	1322	1358	1358
		Hourly CO Criterion	30000	30000	30000	30000	30000

8-hour Averaging

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uq	100	

1294

UO/	ma

ASR	Name	Approx. Maximum Height of Building (m)	GD	10m	20m	30m	Highest
A1-1	Proposed C&DM Handling Facility	30	1311	1312	1314	1326	1326
	Planned Industrial Uses in TKO 137						
A1-2 (1)	(South of Extension) - 1	30	1305	1327	1537	1764	1764
	Planned Industrial Uses in TKO 137						
	(South of extension) - 2 (outside						
A1-2 (2)	200m HKSG buffer distance)	30	1314	1317	1323	1361	1361
	Planned Industrial Uses in TKO 137 -						
A1-3 (1)	(South of TVB City) 1	30	1312	1312	1312	1312	1312
	Planned Industrial Uses in TKO 137 -						
	(South of TVB City) - 2 (outside						
A1-3 (2)	200m HKPSG buffer distance)	30	1310	1311	1316	1325	1325
A2	TVB City	30	1312	1312	1312	1312	1312
A3	HAESL	30	1306	1306	1306	1310	1310
	HAECO Component Overhaul						
A4	Building	30	1307	1307	1307	1308	1308
	Yan Hing Machinery Industrial						
A7	Building	30	1306	1306	1309	1323	1323
A8	Apple Daily	30	1305	1305	1309	1322	1322
		8-hour CO Criterion	10000	10000	10000	10000	10000

#### Sulphur Dioxide (SO2)

Maximum Hourly
Background SO2 concentration

18 ug/m3

ASR	Name	Approx. Maximum Height of Building (m)	GD	10m	20m	30m	Highest
A1-1	Proposed C&DM Handling Facility	30	21	21	21	24	24.1
	Planned Industrial Uses in TKO 137						
A1-2 (1)	(South of Extension) - 1	30	20	22	38	118	118.1
	Planned Industrial Uses in TKO 137						
	(South of extension) - 2 (outside						
A1-2 (2)	200m HKSG buffer distance)	30	22	22	24	31	31.1
	Planned Industrial Uses in TKO 137 -						
A1-3 (1)	(South of TVB City) 1	30	21	21	21	23	22.8
	Planned Industrial Uses in TKO 137 -						
	(South of TVB City) - 2 (outside						
A1-3 (2)	200m HKPSG buffer distance)	30	21	21	21	23	22.7
A2	TVB City	30	21	21	21	23	23.0
A3	HAESL	30	20	20	21	23	23.0
	HAECO Component Overhaul						
A4	Building	30	20	20	20	23	23.0
	Yan Hing Machinery Industrial						
A7	Building	30	20	20	21	23	23.1
A8	Apple Daily	30	20	20	20	23	23.1
		Hourly SO2 Criterion	800	800	800	800	800

**Daily**Background SO2 concentration

18 ug/m3

ASR	Name	Approx. Maximum Height of Building (m)	GD	10m	20m	30m	Highest
A1-1	Proposed C&DM Handling Facility	30	18.6	18.6	18.8	19.0	19.0
	Planned Industrial Uses in TKO 137						
A1-2 (1)	(South of Extension) - 1	30	18.2	18.7	23.3	51.2	51.2
	Planned Industrial Uses in TKO 137						
	(South of extension) - 2 (outside						
A1-2 (2)	200m HKSG buffer distance)	30	18.6	18.7	18.9	20.0	20.0
	Planned Industrial Uses in TKO 137 -						
A1-3 (1)	(South of TVB City) 1	30	18.6	18.6	18.7	18.7	18.7
	Planned Industrial Uses in TKO 137 -						
	(South of TVB City) - 2 (outside						
A1-3 (2)	200m HKPSG buffer distance)	30	18.8	18.9	19.1	19.5	19.5
A2	TVB City	30	18.6	18.6	18.6	18.7	18.7
A3	HAESL	30	18.4	18.4	18.5	18.5	18.5
	HAECO Component Overhaul						
A4	Building	30	18.4	18.4	18.5	18.7	18.7
	Yan Hing Machinery Industrial						
A7	Building	30	18.7	18.8	19.0	19.6	19.6
A8	Apple Daily	30	18.6	18.6	18.8	19.2	19.2
		Daily SO2 Criterion	350	350	350	350	350

Annual Average Background SO2 concentration

18 ug/m3

ASR	Name	Approx. Maximum Height of Building (m)	GD	10m	20m	30m	Highest
A1-1	Proposed C&DM Handling Facility	30	18.04	18.05	18.06	18.11	18.11
	Planned Industrial Uses in TKO 137						
A1-2 (1)	(South of Extension) - 1	30	18.01	18.04	18.23	20.16	20.16
	Planned Industrial Uses in TKO 137						
	(South of extension) - 2 (outside						
A1-2 (2)	200m HKSG buffer distance)	30	18.03	18.04	18.06	18.14	18.14
	Planned Industrial Uses in TKO 137 -						
A1-3 (1)	(South of TVB City) 1	30	18.07	18.07	18.07	18.09	18.09
	Planned Industrial Uses in TKO 137 -						
	(South of TVB City) - 2 (outside						
A1-3 (2)	200m HKPSG buffer distance)	30	18.06	18.06	18.08	18.11	18.11
A2	TVB City	30	18.06	18.06	18.07	18.09	18.09
A3	HAESL	30	18.05	18.05	18.06	18.08	18.08
	HAECO Component Overhaul						
A4	Building	30	18.05	18.05	18.06	18.08	18.08
	Yan Hing Machinery Industrial						
A7	Building	30	18.06	18.07	18.09	18.13	18.13
A8	Apple Daily	30	18.06	18.06	18.08	18.12	18.12
		Annual SO2 Criterion	80	80	80	80	80

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#### Benzene

Background Benzene concentration

2.1 ug/m3

#### Maximum Hourly

ASR	Name	Approx. Maximum Height of Building (m)	GD	10m	20m	30m	Highest
	Proposed C&DM Handling Facility	30	2.10	2.10	2.10	2.11	2.11
	Planned Industrial Uses in TKO 137						
A1-2 (1)	(South of Extension) - 1	30	2.10	2.11	2.14	2.19	2.19
	Planned Industrial Uses in TKO 137						
	(South of extension) - 2 (outside						
A1-2 (2)	200m HKSG buffer distance)	30	2.10	2.10	2.11	2.11	2.11
	Planned Industrial Uses in TKO 137 -						
A1-3 (1)	(South of TVB City) 1	30	2.10	2.10	2.10	2.11	2.11
	Planned Industrial Uses in TKO 137 -						
	(South of TVB City) - 2 (outside						
A1-3 (2)	200m HKPSG buffer distance)	30	2.10	2.10	2.10	2.11	2.11
A2	TVB City	30	2.10	2.10	2.10	2.11	2.11
A3	HAESL	30	2.10	2.10	2.10	2.11	2.11
	HAECO Component Overhaul						
A4	Building	30	2.10	2.10	2.10	2.11	2.11
	Yan Hing Machinery Industrial	·					
A7	Building	30	2.10	2.10	2.10	2.11	2.11
A8	Apple Daily	30	2.10	2.10	2.10	2.11	2.11
	Acute	Reference Concentration	1,300	1,300	1,300	1,300	1,300

## Annual Average

ASR	Name	Approx. Maximum Height of Building (m)	GD	10m	20m	30m	Highest
A1-1	Proposed C&DM Handling Facility	30	2.100	2.100	2.100	2.100	2.100
	Planned Industrial Uses in TKO 137						
A1-2 (1)	(South of Extension) - 1	30	2.100	2.100	2.100	2.102	2.102
	Planned Industrial Uses in TKO 137						
	(South of extension) - 2 (outside						
A1-2 (2)	200m HKSG buffer distance)	30	2.100	2.100	2.100	2.100	2.100
	Planned Industrial Uses in TKO 137 -						
A1-3 (1)	(South of TVB City) 1	30	2.100	2.100	2.100	2.100	2.100
	Planned Industrial Uses in TKO 137 -						
	(South of TVB City) - 2 (outside						
A1-3 (2)	200m HKPSG buffer distance)	30	2.100	2.100	2.100	2.100	2.100
A2	TVB City	30	2.100	2.100	2.100	2.100	2.100
A3	HAESL	30	2.100	2.100	2.100	2.100	2.100
	HAECO Component Overhaul						
A4	Building	30	2.100	2.100	2.100	2.100	2.100
	Yan Hing Machinery Industrial						
A7	Building	30	2.100	2.100	2.100	2.100	2.100
A8	Apple Daily	30	2.100	2.100	2.100	2.100	2.100
	Chronic	Reference Concentration	30	30	30	30	30

## Vinyl Chloride

Background Benzene concentration

5.1 ug/m3

## Maximum Hourly

ASR	Name	Approx. Maximum Height of Building (m)	GD	10m	20m	30m	Highest
A1-1	Proposed C&DM Handling Facility	30	5.10	5.10	5.10	5.10	5.10
	Planned Industrial Uses in TKO 137		= 40	= 40	= 40	= 10	= 40
A1-2 (1)	(South of Extension) - 1	30	5.10	5.10	5.12	5.16	5.16
	Planned Industrial Uses in TKO 137 (South of extension) - 2 (outside						
A1-2 (2)	200m HKSG buffer distance)	30	5.10	5.10	5.10	5.10	5.10
	Planned Industrial Uses in TKO 137 -						
A1-3 (1)	(South of TVB City) 1	30	5.10	5.10	5.10	5.10	5.10
	Planned Industrial Uses in TKO 137 -						
	(South of TVB City) - 2 (outside						
A1-3 (2)	200m HKPSG buffer distance)	30	5.10	5.10	5.10	5.10	5.10
A2	TVB City	30	5.10	5.10	5.10	5.10	5.10
A3	HAESL	30	5.10	5.10	5.10	5.10	5.10
	HAECO Component Overhaul						
A4	Building	30	5.10	5.10	5.10	5.10	5.10
	Yan Hing Machinery Industrial						
A7	Building	30	5.10	5.10	5.10	5.10	5.10
A8	Apple Daily	30	5.10	5.10	5.10	5.10	5.10
	Acute	Reference Concentration	1.8.E+05	1.8.E+05	1.8.E+05	1.8.E+05	1.8.E+05

## Annual Average

ASR	Name	Approx. Maximum Height of Building (m)	GD	10m	20m	30m	Highest
ASK	Name	neight of building (III)	GD	TOM	ZUIII	SUIII	nignest
A1-1	Proposed C&DM Handling Facility	30	5.100	5.100	5.100	5.100	5.100
	Planned Industrial Uses in TKO 137						
A1-2 (1)	(South of Extension) - 1	30	5.100	5.100	5.100	5.101	5.101
	Planned Industrial Uses in TKO 137						
	(South of extension) - 2 (outside						
A1-2 (2)	200m HKSG buffer distance)	30	5.100	5.100	5.100	5.100	5.100
	Planned Industrial Uses in TKO 137 -						
A1-3 (1)	(South of TVB City) 1	30	5.100	5.100	5.100	5.100	5.100
	Planned Industrial Uses in TKO 137 -						
	(South of TVB City) - 2 (outside						
A1-3 (2)	200m HKPSG buffer distance)	30	5.100	5.100	5.100	5.100	5.100
A2	TVB City	30	5.100	5.100	5.100	5.100	5.100
A3	HAESL	30	5.100	5.100	5.100	5.100	5.100
	HAECO Component Overhaul						
A4	Building	30	5.100	5.100	5.100	5.100	5.100
	Yan Hing Machinery Industrial						
A7	Building	30	5.100	5.100	5.100	5.100	5.100
A8	Apple Daily	30	5.100	5.100	5.100	5.100	5.100
	Chronic Reference Concentration		100	100	100	100	100

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