

Environmental
Protection
Department

Agreement No. CE 10/2005 (EP)
*South East New Territories (SENT)
Landfill Extension - Feasibility Study:*
Environmental Impact Assessment
Report - *Volume II*

December 2007

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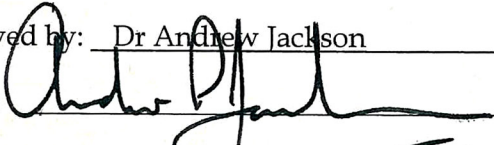
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For and on behalf of Environmental Resources Management
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Signed: 
Position: <u>Managing Director</u>
Date: <u>14 December 2007</u>

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CONTENT

VOLUME II ANNEXES

Annex A	Supporting Information for Air Quality Assessment
Annex A1	Gaseous Emission Rate Calculation
Annex A2	Dust Emission Rate Calculation
Annex A3	Definition of a Reasonable Worst-case Odour Scenario
Annex A4	Example Hourly Emission Rates in AUSPLUME MODEL
Annex A5-1	ISCST Model Results for Gaseous Emission during Operation/Restoration Phase
Annex A5-2	Health Risk Assessment for Benzene & Vinyl Chloride during Operation/Restoration Phase
Annex A6	Example of ISCST3 Model Input File
Annex A7-1	Detailed Model Results for Odour & No. of Instances having Exceedance (Part A – Predicted 5-second Odour Results)
Annex A7-2	Detailed Model Results for Odour & No. of Instances having Exceedance (Part B –No. of Instances having Exceedance)
Annex A8	Example of AUSPLUME Model File
Annex A9-1	ISCST Model Results for Gaseous Emission during Aftercare Phase
Annex A9-2	Health Risk Assessment for Benzene & Vinyl Chloride during Aftercare Phase
Annex A10	5-sec Odour Concentration exceed Criterion and No. of Exceedance of A2 under Worst Case 3 (TVB City)
Annex A11-1	Detailed Model Results for Odour & No. of Instances having Exceedance (Part A – Predicted 5-second Odour Results) (After Rephasing)
Annex A-11-2	Detailed Model Results for Odour & No. of Instances having Exceedance (Part B – No. of Instances having Exceedance) (After Rephasing)
Annex A12	Comparison of International Odour Assessment Criteria/Guideline Values
Annex B	Supporting Information for Noise Assessment
Annex B1	Construction & Operation Programme and PME Plant Inventory
Annex B2	Traffic Forecast provided by the Traffic Consultant
Annex B3	Construction Noise Impact Assessment
Annex B4	Noise Sources during Operation and Programme
Annex B5	Operation Noise Impact Assessment
Annex B6	Results of Road Traffic Noise Impact Assessment
Annex B7	Computer Road Plots
Annex B8	Input Files of the Traffic Noise Model
Annex C	Landfill Gas Monitoring Results at SENT Landfill
Annex D	Ecological Resources of the Study Area

Annex E Implementation Schedule

Annex F Groundwater Monitoring Data

Annex A

Air Quality Assessment – Supporting Information

Annex A1

Gaseous Emission Rate Calculation

Annex A1 - Gaseous Emission Calculation

SUMMARY OF EMISSION INVENTORY

Operation / Restoration (within 500m from the boundary of the Extension)

Emission Source	X	Y	Z	Diameter	Height	Temp	Temp	Velocity	Emission Rate (g/s)				
				(m)	(m)	(oK)	(oC)	(m/s)	NO2	CO	SO2	Vinyl chloride	Benzene
HAECO	846000	815724	6.7	14.7 (equivalent diameter) (stack area = 169m ²)	40	325	52	16.4 (for NO2 & SO2); 12 (for CO)	21.2	23.9	1.9	-	-
<i>(reference to HAECO EIA, 1995; confirmed by HAECO that the emission rate, type of engine used in HAECO EIA Report are still valid in January 2008)</i>													
Flare1	846570	814618	6.7	3.8	25	1123	850	12.24	0.31	3.91	0.22	2.61E-04	4.14E-04
Flare2	846570	814612	6.7	3.8	25	1123	850	12.24	0.31	3.91	0.22	2.61E-04	4.14E-04
Thermal oxidizer	846525	814670	6.7	1.12	9.76	444.6	171.6	17.5	0.10	1.22	0.07	8.15E-05	1.29E-04
LFG Generator	846531	814610	6.7	0.305	28	727	454	48.6	0.11	1.72	0.176	6.26E-06	8.22E-05

Aftercare Phase (within 500m from the boundary of the Extension)

Source	X	Y	Z	Diameter	Height	Temp	Temp	Velocity	Emission Rate (g/s)				
				(m)	(m)	(oK)	(oC)	(m/s)	NO2	CO	SO2	Vinyl chloride	Benzene
HAECO	846000	815724	6.7	14.7 (equivalent diameter) (stack area = 169m ²)	40	325	52	16.4 (for NO2 & SO2); 12 (for CO)	21.2		1.9		
<i>(reference to HAECO EIA, 1995; confirmed by HAECO that the emission rate, type of engine used in HAECO EIA Report are still valid in January 2008)</i>													
Flare1	846570	814618	6.7	3.8	25	1123	850	12.24	0.31	3.91	0.22	2.61E-04	4.14E-04
Flare2	846570	814612	6.7	3.8	25	1123	850	12.24	0.31	3.91	0.22	2.61E-04	4.14E-04
LFG Generator	846531	814610	6.7	0.305	28	727	454	48.6	0.11	1.72	0.176	6.26E-06	8.22E-05

BASIC INFORMATION

LFG to LTP	3125	m ³ /hr	(peak)
LFG to gen. set	1500	m ³ /hr	(refer to existing SENT Landfill)
LFG to Flare (total)	20000	m ³ /hr	(design total capacity of flares)
LFG to Flare (each)	10000	m ³ /hr	(no. of flare = 2, at 83.8oC)
Exhaust gas flowrate of each flare @ 850oC	499582	m ³ /hr	(provided by engineer and estimated based on 10,000 m ³ /hr of LFG & 850oC)

FLARE (with a total of 20,000 m³/hr of LFG to flare)

(For Operation/Restoration & Aftercare Phases)

Air Pollutant	Emission limit	
NOx	0.06	lb/mmBTU (emission in raw LFG @ 83.8oC, reference to the flare in existing SENT landfill)
NO2	0.012	lb/mmBTU (20% of NOx ----> NO2)
CO	0.15	lb/mmBTU (emission in raw LFG @ 83.8oC, reference to the flare in existing SENT landfill)
SO2	1.55	mg/m ³ (in exhaust gas at 850oC, see detailed SO2 calculation below)
Benzene (inlet)	5.6	ppm (max. benzene concentration measured at the inlet of flare at existing SENT Landfill @ 83.8oC & 1atm, reference to the monitoring data of existing SENT Landfill in 2006)
	14.91	mg/m ³ (5.6 ppm x (12x6+6)/(22.414x(273+83.8)/(273)), @ 83.8oC)
Vinyl chloride (inlet)	4.4	ppm (max. vinyl chloride concentration measured at the inlet of flare at existing SENT Landfill @ 83.8oC & 1atm, reference to the monitoring data of existing SENT Landfill in 2006)
	9.39	mg/m ³ (4.4ppm x (12x2+3+35.5)/(22.414x(273+83.8)/(273)), @ 83.8oC)

Landfill gas energy	0.0207	(mmBTU/m ³) (provided by existing SENT Landfill operator)
Total LFG energy in each flare	207.0	mmBTU/hr (0.0207 x landfill gas flowrate = 10,000 m ³ /hr)
lb ----> g	453.6	
Stack diameter	3.8	m
Stack height	25	m
Exit temp	850	oC
Exhaust flowrate at 850oC	499582	m ³ /hr
Exit velocity	12.24	m/s

Air pollutant	Emission Rate at Exhaust	
NOx	1.56	g/s (0.06 lb/mmBTU x 207 mmBTU/hr x 453.6 g/lb/3600)
NO2	0.31	g/s (NOx emission rate x 0.2)
CO	3.91	g/s (0.15 lb/mmBTU x 207 mmBTU/hr x 453.6 g/lb/3600)
SO2	0.22	g/s (refer to detailed SO2 emission rate calculation below)
Benzene	4.14E-04	g/s (14.91 mg/m ³ x 10,000 m ³ /hr / 1000 / 3600 x (1-0.99), 99% VOC removal efficiency should be required with reference to Contract Specification)
Vinyl chloride	2.61E-04	g/s (9.39 mg/m ³ x 10,000 m ³ /hr / 1000 / 3600 x (1-0.99), 99% VOC removal efficiency should be required with reference to Contract Specification)

Air pollutant	Emission Concentration at exhaust, 850oC	
NOx	11.28	mg/m ³ (NOx emission rate / exhaust flowrate)
NO2	2.26	mg/m ³ (NOx emission rate x 0.2)
CO	28.19	mg/m ³ (CO emission rate / exhaust flowrate)
SO2	1.55	mg/m ³ (refer to detailed SO2 emission rate calculation below)
Benzene	2.98E-03	mg/m ³ (Benzene emission rate / exhaust flowrate)
Vinyl chloride	1.88E-03	mg/m ³ (Vinyl chloride emission rate / exhaust flowrate)

THERMAL OXIDIZER of LTP (with 3,125 m³/hr of LFG to LTP)

(For Operation/Restoration Phase Only)

Air Pollutant	Emission limit	
NOx	0.06	lb/mmBTU (emission in LFG @ 83.8oC, same as that in flare)
NO2	0.012	lb/mmBTU (20% of NOx ----> NO2)
CO	0.15	lb/mmBTU (emission in LFG @ 83.8oC, same as that in flare)
SO2	3.9	mg/m ³ (at exhaust flowrate, 850oC, see detailed SO2 calculation below)
Benzene (inlet)	14.91	mg/m ³ (same as that in flare)
Vinyl chloride (inlet)	9.39	mg/m ³ (same as that in flare)

Landfill gas energy	0.0207	(mmBTU/m3)	(provided by existing SENT Landfill operator)
Total LFG energy in stack	64.7	mmBTU/hr	(0.0207 x landfill gas flowrate = 3,125)
lb ----> g	453.6		
Stack diameter	1.12	m	(reference to the thermal oxidizer at existing SENT Landfill)
Stack height	9.76	m	(reference to the thermal oxidizer at existing SENT Landfill)
Exit temp	171.6	oC	(reference to the thermal oxidizer at existing SENT Landfill)
Raw LFG flowrate	3125	m3/hr	
Exit velocity	17.5	m/s	(reference to the thermal oxidizer at existing SENT Landfill)
Exhaust flowrate @ 171.6oC	62068	m3/hr	(17.5 m/s x 3.1416 x(1.12/2) ²)

Air pollutant	Emission Rate at Exhaust		
NOx	0.49	g/s	(0.06 lb/mmBTU x 64.7 mmBTU/hr x 453.6 g/lb/3600)
NO2	0.10	g/s	(NOx emission rate x 0.2)
CO	1.22	g/s	(0.15 lb/mmBTU x 64.7 mmBTU/hr x 453.6 g/lb/3600)
SO2	0.07	g/s	(refer to detailed SO2 emission rate calculation below)
Benzene	1.29E-04	g/s	(14.91 mg/m3 x 3125 m3/hr / 1000 / 3600 x (1-0.99), 99% VOC removal efficiency should be required with reference to Contract Specification)
Vinyl chloride	8.15E-05	g/s	(9.39 mg/m3 x 3125 m3/hr / 1000 / 3600 x (1-0.99), 99% VOC removal efficiency should be required with reference to Contract Specification)

Air pollutant	Emission Concentration at exhaust, 171.6oC		
NOx	28.4	mg/m3	(NOx emission rate / exhaust flowrate)
NO2	5.67	mg/m3	(NOx emission rate x 0.2)
CO	70.91	mg/m3	(CO emission rate / exhaust flowrate)
SO2	3.90	mg/m3	(refer to detailed SO2 emission rate calculation below)
Benzene	7.51E-03	mg/m3	(Benzene emission rate / exhaust flowrate)
Vinyl chloride	4.73E-03	mg/m3	(Vinyl chloride emission rate / exhaust flowrate)

LFG GENERATOR
(For Operation/Restoration & Aftercare Phases)

LFG consumption	1500	m3/hr	(given by Engineer)
LFG energy	0.0207	mmBTU/m3	(provided by existing SENT Landfill operator)
	31.05	mmBTU/hr	(1500 m3/hr x 0.0207 mmBTU/m3)
NOx emission factor at exhaust	0.14	lb/mmBTU	(AP-42, Table 3.1-1, http://www.epa.gov/ttn/chief/ap42/ch03/final/c03s01.pdf)
CO emission factor at exhaust	0.44	lb/mmBTU	(AP-42, Table 3.1-1, http://www.epa.gov/ttn/chief/ap42/ch03/final/c03s01.pdf)
SO2 emission factor at exhaust	0.045	lb/mmBTU	(AP-42, Table 3.1-2b, http://www.epa.gov/ttn/chief/ap42/ch03/final/c03s01.pdf)
Benzene emission factor at exhaust	2.10E-05	lb/mmBTU	
Vinyl chloride emission factor at exhaust	1.60E-06	lb/mmBTU	
No. of stack	1		
Stack diameter	0.305	m	(reference to the generator design in the existing SENT Landfill)
Stack height	28	m above ground	
Exit temp.	454	oC	(reference to the generator design in the existing SENT Landfill)
	727	oK	
Exit velocity	48.6	m/s	(reference to the generator design in the existing SENT Landfill)
Exit flowrate	3.55	m3/s	(reference to the generator design in the existing SENT Landfill)
lb ----> g	453.6		

Air pollutant	Emission Rate at Exhaust		
NOx emission rate	0.55	g/s	(NOx emission factor x LFG energy (mmBTU/hr))
NO2 emission rate	0.110	g/s	(20% of NOx ----> NO2)
CO emission rate	1.721	g/s	(CO emission factor x LFG energy (mmBTU/hr))
SO2 emission rate	0.176	g/s	(SO2 emission factor x LFG energy (mmBTU/hr))
Benzene emission rate	8.22E-05	g/s	(Benzene emission factor x LFG energy (mmBTU/hr))
Vinyl chloride emission rate	6.26E-06	g/s	(Vinyl chloride emission factor x LFG energy (mmBTU/hr))

Detailed calculation of SO2 emission (Reference to USEPA AP-42 for H2S concentration)

Flaring			
H2S concentration (in ppm) in raw LFG	35.5	ppm	(USEPA AP-42, Section 2.4, Table 2.4-1, http://www.epa.gov/ttn/chief/ap42/ch02/final/c02s04.pdf)
Molecular weight of H2S	34		
Flowrate of LFG	10000	m3/hr	
Conc of H2S (in g/m3) in raw LFG @ 83.8oC	0.04	g/m3	(ppm x MW / (22.414x(273+83.8)/(273)) / 1000)
Mass of H2S	0.1	g/s	(conc of H2S (in g/m3) x LFG flowrate)
Mole ratio of H2S / SO2	1:1		(2H2S + 3O2 ----> 2SO2 + 2H2O)
molecular weight of SO2	64		
Mass of SO2	0.22	g/s	(mass of H2S x (64 / 34))
Exhaust flowrate at 850oC	499582	m3/hr	
Emission concentration of SO2 at exhaust (850oC)	1.55	mg/m3	(mass of SO2 / exhaust flowrate)

Thermal oxidizer			
H2S concentration (in ppm) in raw LFG	35.5	ppm	(USEPA AP-42, Section 2.4, Table 2.4-1, http://www.epa.gov/ttn/chief/ap42/ch02/final/c02s04.pdf)
Molecular weight of H2S	34		
Flowrate of LFG	3125	m3/hr	
Conc of H2S (in mg/m3) in raw LFG @ 83.8oC	0.04	g/m3	(ppm x MW / (22.414x(273+83.8)/(273)) / 1000)
Mass of H2S	0.04	g/s	(conc of H2S (in g/m3) x LFG flowrate)
Mole ratio of H2S/SO2	1:1		(2H2S + 3O2 ----> 2SO2 + 2H2O)
Molecular weight of SO2	64		
Mass of SO2	0.1	g/s	(mass of H2S x (64 / 34))
Exhaust flowrate at 171.6oC	62068	m3/hr	
Emission concentration of SO2 at exhaust (171.6oC)	3.9	mg/m3	(mass of SO2 / exhaust flowrate)

Annex A2

Dust Emission Rate Calculation

Annex A2 - Dust Emission Rate Estimation			
Blasting			
(Reference : AP-42, Section 11.9, Table 11.9-2, http://www.epa.gov/ttn/chief/ap42/ch11/final/c11s09.pdf)			
Equation:			
$E = 0.00022(A)^{1.5}$			
E	emission rate (kg/blast)		
A	blasting area (m ²)		
A	1000	m ² (provided by engineer)	
no. of blast	1	blast/day	
E	6.96	kg/blast	
E (hourly average)	1.93	g/s (6.96 x 1000 / 3600)	
release height	0.5	m above gd	
Excavation			
Activity :			
	materials handling		
	rock crushing & screening		
	truck movement		
Materials handling			
(Reference to AP-42, Section 13.2.4, http://www.epa.gov/ttn/chief/ap42/ch13/final/c13s0204.pdf)			
Equation:			
$E = k (0.0016) (U/2.2)^{1.3} / (M/2)^{1.4}$ (AP-42, Section 13.2.4-4)			
E	kg/Mg		
k	particle size multiplier		
U	mean wind speed (m/s)		
M	moisture (%)		
k	0.74	(AP-42, Section 13.2.4-4)	
U	2.06	m/s (average of wind speed measured at on-site met station in 2006)	
M	4.8	% (AP-42, Section 13.2.4-4)	
period of excavation	1.5	yr	
no. of day per month	24	days	
no. of hour per day	12	hour (7am-7pm)	
total volume of soil	770000	m ³ /1.5yr	
volume of soil per hr	148.5	m ³ /hour	
density of soil	1.56	Mg/m ³	
total weight of soil	231.71	Mg/hr	
% reduction	50	% (by watering)	
E (mitigated)	1.60E-04	kg/Mg	
	0.0103	g/s	
Rock crushing			
(Reference to AP-42, Section 11.19.2, Table 11.9.2-1, http://www.epa.gov/ttn/chief/ap42/ch11/final/c11s1902.pdf)			
Two types of emission will be considered, ie, tertiary crushing & screening.			
Two steps of crushing would be involved, so 2 emission sources will be assumed for each tertiary crushing & screening.			
volume of rock	400	m ³ /day	
no. of day per month	24	days	
no. of hour per day	12	hour (7am-7pm)	
volume of rock per hr	33.3	m ³ /hr	
density of rock	1760	kg/m ³	
total weight of crushed rock	59	Mg/hr	
a. crushing			
E	0.0006	kg/Mg (AP-42, Table 11.19.2-1, controlled emission factor)	
E (mitigated)	9.8E-03	g/s	
b. screening			
E	0.0011	kg/Mg (AP-42, Table 11.19.2-1, controlled emission factor)	
E (mitigated)	0.018	g/s	
Truck Movement on Unpaved Road			
(Reference to AP-42, Section 13.2.2, http://www.epa.gov/ttn/chief/ap42/ch13/final/c13s0202.pdf)			
Equation:			
$E = k (s/12)^a (W/3)^b$			
E	lb/vmt		
k	empirical constant = 4.9 lb/vkt		
s	surface material silt content (%)		
W	mean vehicle weight (ton)		
a	empirical constant = 0.7		
b	empirical constant = 0.45		

Annex A3

Definition of a Reasonable Worst-case Odour Scenario

A3.1 INTRODUCTION

A sensitivity test and further analysis were performed to identify a set of assumptions which together form a reasonable worst case scenario for the odour impact assessment. The following sections present the assumption, modelling parameters and test results.

A3.2 ASSUMPTIONS IN SENSITIVITY TEST

A3.2.1 Odour Emission Rates

Temperature is one of the factors which are thought to affect the strength of the odour emission. In the odour impact assessment (see *Section 4.6.3*), the odour emission rates of a reasonable high temperature were used in order to represent a reasonable worst case scenario. Our starting assumption was that 30°C was a reasonable worst case and sensitivity analyses were performed to test this.

By reviewing the SENT landfill meteorological data recorded in 2006, the number of hours having the ambient temperature lower than 30°C was about 90% of the year. Odour samples were taken at around 30°C in many instances. The odour emission rates of each odour source at 30°C are summarized in *Table A3.1*.

Table A3.1 Odour Emission Rates at 30 °C

Odour Source	Odour Emission Rate at 30°C (OUm ⁻² s ⁻¹)	Source Area in Model	Operation Time	Remarks
Tipping face for MSW + construction waste	0.94	30m x 20m	08:00 - 12midnight	Average of measured odour emission rates (0.7 + 1.01+1.11)/3 = 0.94
Tipping face for construction waste / daily cover area	0.12	30m x 20m 30m x 40m (for daily cover area)	08:00 - 12midnight 12midnight - 8am in the next day (daily cover area)	Measured odour emission rate at 29.55°C
Special waste trench (trench itself)	31.74	6m x 2.5m (plan area exposed to air)	09:00 - 18:00	Adjusted from 26.7°C to 30°C ^(a)
SBR tank	0.049	20m x 35m (2 nos.)	24 hours	Measured odour emission rate ^(b)

Odour Source	Odour Emission Rate at 30°C (OUm ⁻² s ⁻¹)	Source Area in Model	Operation Time	Remarks
Notes:				
(a) Similar approach for adjusting the emission rate adopted in the approved EIA Report for <i>Agreement No. CE 20/2004 (EP) North East New Territories Landfill Extension</i> (EIA 133/2007) is referenced but highest percentage increase of odour emission rates established from active tipping face and daily cover is adopted rather than the increment of odour emission rates per 1°C used in NENT Landfill Extension EIA. The highest percentage increase of odour emission rates per 1°C established by daily cover is 2.68% which is the highest. This % increase is adopted to project odour emission rate of special waste trench from 26.47°C to 30°C (28.91 OU/m/s × 1.0268 ^(30-26.47) = 31.74 OU/m/s).				
(b) As the temperature of the leachate in the SBR tanks is kept at 40°C at any time, therefore, it will not be varied by the ambient temperature.				

Of note, the measured odour emission rate of special waste trench at the existing SENT Landfill is high as sludge is being disposed in the existing SENT Landfill. The Extension will not accept sludge and hence the odour emission of special waste trench during the Extension should be much lower. Also, in the outline design, the trench will be covered by a movable cover with retractable or suitable opening for unloading of special waste. The air trapped inside the trench will be extracted and scrubbed prior to discharge to the atmosphere. Therefore, the odour emission rate of special waste trench adopted in the assessment is conservative. The odour emission from special waste trench of the Extension is expected to be much lower than that adopted in the assessment.

The source height of each odour source except SBR tanks was assumed to be 10mPD. The source height of the SBR is 5m above ground level where the ground level is 6mPD.

Three emission locations (Cases 1 to 3) are selected, as shown in *Figure A3.1*, for the prediction of the odour impacts at TKO Area 137 and TVB City.

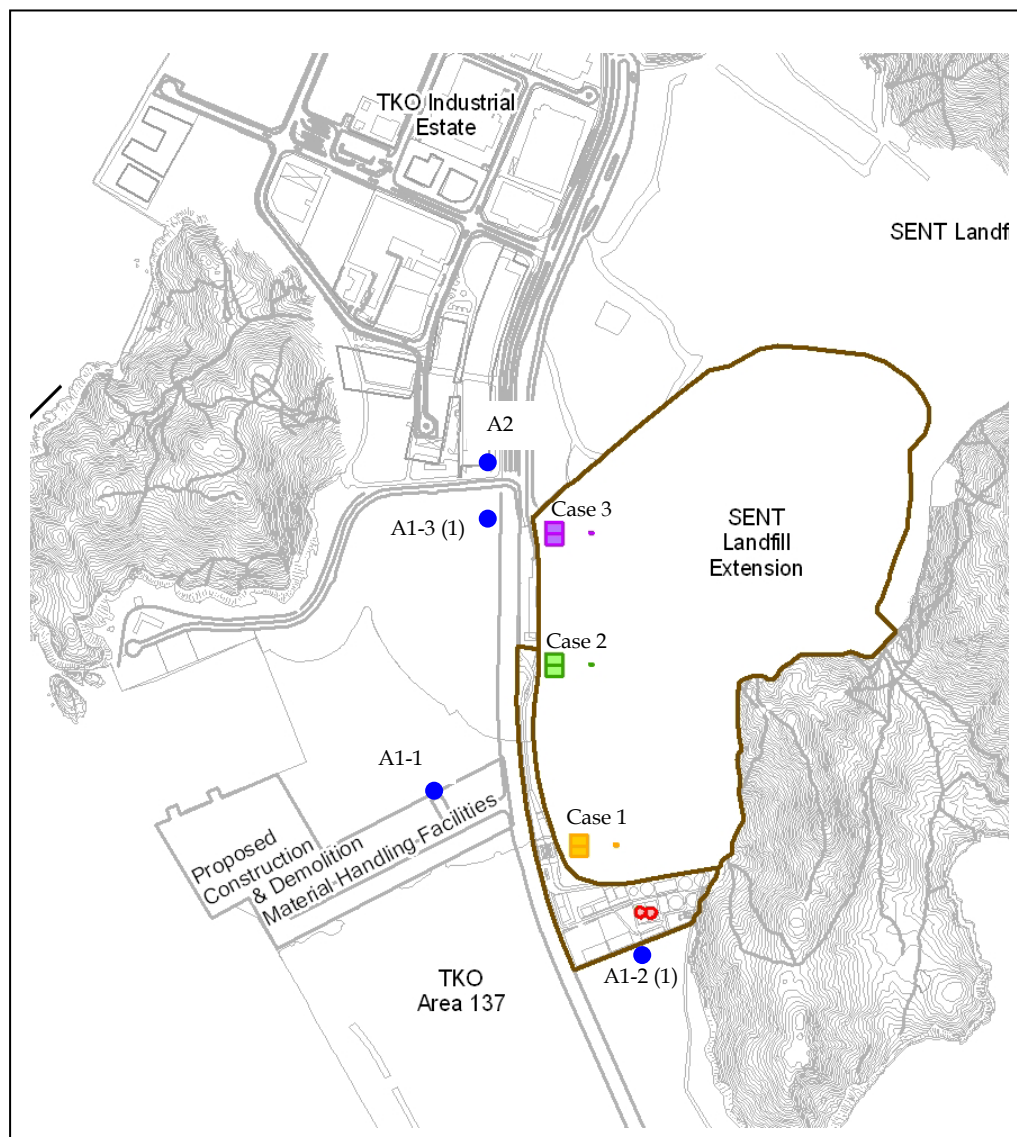


Figure A3.1 Location of Odour Emission Sources

A3.2.2 Modelling Parameters

The following assumptions are adopted for the prediction of odour impact:

- AUSPLUME model used;
- Surface roughness is assumed to be 120cm (assuming TKO Area 137 is occupied by either fill bank or industrial premises)
- Hourly meteorological data in 2006
 - *SENT landfill data* : wind speed, wind direction and air temperature
 - *Hong Kong Observatory data*: stability class recorded at TKO station and mixing height recorded at King’s Park station (as it is the only station to record mixing height)
- Terrain data included and “Egan Half Height” option selected;
- Conversion factor to convert the predicted 3-minute results to 5-second results

- Factors of 10 and 5 applied to stability classes A-B and C-F, respectively

A3.2.3 Assessment Points

ASRs, A1-1, A1-2 (1) (TKO Area 137 at south of Extension), A1-3 (1) (south of TVB) and A2 (TVB City) were selected as the focus of the sensitivity test. Their locations are illustrated in *Figure A3.1*.

A3.3 SENSITIVITY TEST RESULTS

The highest predicted 5-second odour levels at the selected four assessment points are presented in *Tables A3.2*. The worst hours of the highest predicted results and the air temperature at that worst hours record at SENT Landfill onsite weather station are also presented.

Table A3.2 Predicted Maximum 5-second Odour Level & Corresponding Air Temperature for 2006 at A1-1, A1-2 (1), A1-3 (1) and A2 (1.5m above ground)

	A1-1	A1-2 (1)	A1-3 (1)	A2
Case 1				
Highest 5-sec Odour Level	6.1 ^(a)	7.9	2.4	1.9
Worst Hour	27/11/06, hr 13	28/05/06, hr19	18/07/06, hr 23	11/07/06, hr 20
Air Temperature (°C)	28	25	28	29
Case 2				
Highest 5-sec Odour Level	6.3	2.0	5.5	4.1
Worst Hour	16/11/06, hr 20	22/11/06, hr 19	10/02/06, hr18	18/07/06, hr23
Air Temperature (°C)	24	22	18	28
Case 3				
Highest 5-sec Odour Level	3.2	1.9	23.2	12.5
Worst Hour	06/04/06, hr 22	22/11/06, hr 19	18/11/06, hr 19	12/08/06, hr 19
Air Temperature (°C)	22	22	24	30
Note:				
(a) Figures in bold and underline represents the exceedance of 5-sec odour criterion (5OU).				

The results indicate that the air temperatures of the maximum predicted odour levels at the four selected assessment points in each case are equal to or less than 30°C. Meteorology is a decisive factor affecting the impacts to these ASRs.

A3.4 EFFECT OF ODOUR LEVELS AT AIR TEMPERATURE AT OR ABOVE 30 °C

In order to further assess the basic of the reasonable worst case scenario, a further analysis of the odour levels at the four assessment points using odour emission rates corresponding to a temperature range of 30°C to 38°C was performed as the highest air temperature recorded at SENT Landfill weather station in 2006 is 38°C.

Approach for adjusting odour emission rates up to 38°C follows the approach adopted in the approved EIA for *Agreement No. CE 20/2004 (EP) North East*

New Territories Landfill Extension (EIA 133/2007). A percentage increase of odour emission established by tipping face for construction waste (2.682% per 1°C) is used. The adjusted odour emission rates at 30°C to 38°C are summarized in *Table A3.3* and the detailed calculation is shown in *Table A3.4*.

Table A3.3 *Adjusted Odour Emission Rates*

Odour Source	Odour Emission Rate (OU m ⁻² s ⁻¹)								
	30°C	31°C	32°C	33°C	34°C	35°C	36°C	37°C	38°C
MSW + construction waste tipping	0.94	0.97	0.99	1.02	1.04	1.07	1.10	1.13	1.16
Construction waste tipping / Daily cover area	0.12	0.123	0.127	0.13	0.133	0.137	0.141	0.144	0.148
Special waste trench	31.74	32.59	33.47	34.36	35.29	36.23	37.20	38.20	39.22

Note:

(a) The odour emission rate is estimated by liner extrapolation of odour strength measured at tipping face for construction waste from 26.11°C to 29.55°C (2.682% of odour emission rate increased per 1 degree increase in temperature) (*Also, refer to footnote (a) of Table A1.1 for the adjustment*).

The model was rerun to simulate odour dispersion for these hours at which those higher temperatures were reported. The results are summarized in *Tables A3.5* below.

Table A3.4 Detailed Calculation of the Adjusted Odour Emission Rates

(a) Increment of odour emission rate (ou/m2/s) with 1oC													
	emission @26°C	emission @29.55°C	emission @31.5°C	emission per 1°C	% of emission increase per 1°C								
Active tipping face	0.98		1.11	0.024	2.412								
Daily Cover	0.11	0.12		0.003	2.682	(applied to estimate the emission at each temperature)							
(b) Odour emission rate at specific temperature													
Odour emission rate at specific temp. (ou/ m2/s)													
Temperature (oC)	30	31	32	33	34	35	36	37	38				
Active tipping face	0.94	0.97	0.99	1.02	1.04	1.07	1.10	1.13	1.16				
Daily Cover	0.120	0.123	0.127	0.130	0.133	0.137	0.141	0.144	0.148				
Special waste trench (see below)	31.74	32.59	33.47	34.36	35.29	36.23	37.20	38.20	39.22				
SBR	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049				
[Equation : emission at specific temp. = emission at 30oC x 1.02682 ^(specific temp. - 30oC)]													
(c) Odour Emission Rate under Stability Class A or B													
Odour emission rate at specific temp. (ou/ m2/s)													
Temperature (oC)	30	31	32	33	34	35	36	37	38				
Active tipping face	9.40	9.65	9.91	10.18	10.45	10.73	11.02	11.31	11.62				
Daily Cover	1.20	1.23	1.27	1.30	1.33	1.37	1.41	1.44	1.48				
Special waste trench	317.41	325.92	334.66	343.63	352.85	362.31	372.03	382.01	392.25				
SBR	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49				
[Equation : emission rate at specific temp.in (b) x 10]													
(d) Odour Emission Rate under Stability Classes C to F													
Odour emission rate at specific temp. (ou/ m2/s)													
Temperature (oC)	30	31	32	33	34	35	36	37	38				
Active tipping face	4.70	4.83	4.96	5.09	5.22	5.36	5.51	5.66	5.81				
Daily Cover	0.60	0.62	0.63	0.65	0.67	0.68	0.70	0.72	0.74				
Special waste trench	158.70	162.96	167.33	171.82	176.43	181.16	186.01	191.00	196.12				
SBR	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25				
[Equation : emission rate at specific temp.in (b) x 5]													
Estimate of emission rate of special waste trench at specific temp.													
	no. of side	width (m)	length/height (m)	Measured emission rate (ou/ m2/s)	Total emission rate at specific temp. (ou/s)								
Temperature (oC)				26.47	26.47	30	31	32	33	34	35	36	37
bottom	1	2.5	6	8.85	132.75	145.75	149.66	153.67	157.79	162.02	166.37	170.83	175.41
narrow side	2	2.5	2	8.85	88.50	97.17	99.77	102.45	105.19	108.02	110.91	113.89	116.94
long side	2	6	2	8.85	212.40	233.20	239.45	245.87	252.47	259.24	266.19	273.33	280.66
		emission per surface area (2.5x6) (ou/ m2/s)			28.91	31.74	32.59	33.47	34.36	35.29	36.23	37.20	38.20
[Equation : emission at specific temp. = emission at 26.47oC x 1.02682 ^(specific temp. - 26.47oC)]													

Table A3.5 Predicted Maximum 5-sec Odour Levels at Different Air Temperatures at A1-1, A1-2 (1), A1-3 (1) and A2 (1.5m above ground)

Air Temp (°C)	A1-1			A1-2 (1)			A1-3 (1)			A2		
	Maximum 5-sec Odour Level		Increase (%) (a)	Maximum 5-sec Odour Level		Increase (%) (a)	Maximum 5-sec Odour Level		Increase (%) (a)	Maximum 5-sec Odour Level		Increase (%) (a)
	30°C Emission	Adjusted Emission		30°C Emission	Adjusted Emission		30°C Emission	Adjusted Emission		30°C Emission	Adjusted Emission	
38	0	0	-	0.37	0.44	18	0	0	-	0	0	-
37	0	0	-	1.33	1.55	17	0.08	0.10	20	0.11	0.14	25
36	0.24	0.28	16	2.62	2.89	10	0.34	0.40	18	0.24	0.28	18
35	0.4	0.46	15	0.21	0.24	16	0.99	1.13	14	0.47	0.54	15
34	0.88	0.98	11	0.99	0.98	-2	3.37	3.74	11	1.18	1.32	12
33	0.9	0.97	8	0.38	0.41	7	3.35	3.63	8	1.58	1.71	8
32	1.78	1.87	5	2.31	2.41	4	2.2	2.31	5	1.07	1.13	6
31	0.75	0.75	0	0.88	0.88	0	3.17	3.26	3	4.04	4.16	3

Note:

(a) “% increase” means the increase of maximum 5-second odour level predicted by using adjusted odour emission rates at different temperatures in *Table A3.4* compared with the maximum 5-second odour level predicted by using odour emission rate at 30°C for the worst hour at that air temperature.

The results show that the predicted maximum odour levels are well below the odour criterion, ie, 5OU. It may be concluded that the meteorological conditions at those hours in the year with temperatures above 30°C are not favour the dispersion of the odour from the Extension to the assessment points and hence the potential odour impacts at higher temperature will be lower than that predicted for 30°C.

It should be noted that the odour emission rate of the trench adopted in the sensitivity test is very conservative because the measurements were conducted at the existing SENT Landfill which receives dewatered sewage sludge. No sludge will be accepted at the Extension. Moreover, the trench of the Extension will be covered when it is not receiving special wastes. The air trapped inside the trench will be extracted and scrubbed prior to discharge to air. The odour emission from the trench will be minimal and hence the actual odour impacts at the assessment points will be much lower than that predicted in the assessment.

A3.5 *EFFECT ON THE ODOUR IMPACT DUE TO DOUBLING THE ODOUR EMISSION RATE OF SPECIAL WASTE TRENCH*

Since the temperature when measuring the odour emission at special waste trench was less than that at other odour sources, therefore, to further support odour emission rate of special waste trench at 30°C to be used in the worst case assessment, a further analysis is performed.

To provide further levels of comfort, a sensitivity analysis of the uncertainty of the emission rate of the special waste trench on the predicted odour levels at the assessment points was carried out assuming that the odour emission rate of the trench is double of that assumed at 30°C (ie, 63.4 OUm⁻²s⁻¹). The odour emission rates of other identified odour sources (refer to *Table A3.1*) and modelling parameters described in *Section A3.2.2* are kept unchanged. The predicted odour impacts at 1.5m above ground using the odour emission rate of the trench at 30°C were compared with those predicted using a rate doubled of that at 30°C and the results are shown in *Figure A3.2*.

The contour plots show that even doubling the odour emission rate of special waste trench will only be slightly increased. It is because the worst hours of odour impact is always happened at very stable stability class (Stability Class F) which is always occurred during evening or night time. During this period of time, the trench will be closed (the trench will be closed at 5pm and completely covered with 600mm soil and impermeable liner at 6pm). Therefore, special waste trench is not the major contributor to cause odour exceedance.

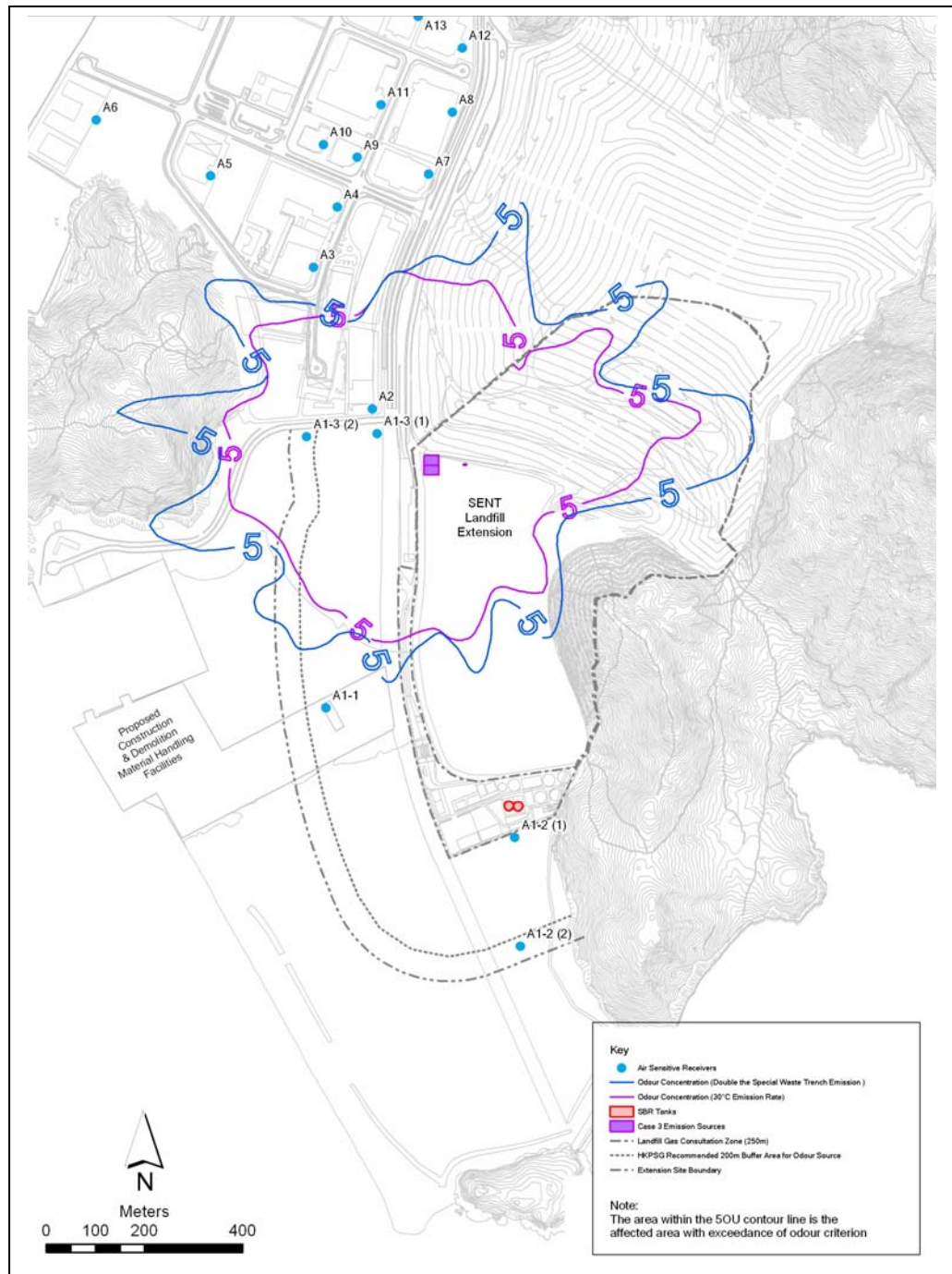


Figure A3.2 Predicted Odour Impacts at 1.5m above ground using Odour Emission Rate at 30°C and a Rate Doubled of that for 30°C

A3.6

CONCLUSIONS

Based on the findings of the sensitivity tests, it is concluded that meteorology is the key factor affecting the predicted odour impacts at the ASRs and the emission rates at 30°C represent the reasonable emission rates from the impact assessment.

It should be noted that the odour emission rate of the special waste trench adopted in the sensitivity test is very conservative because the measurements

were carried out at the existing SENT Landfill which receives dewater sewage sludge. The Extension will not receive sludge. Moreover, the trench of the Extension will be covered (except at the time of unloading special waste) and the air trapped inside the trench will be extracted and scrubbed prior to discharge to the atmosphere. It is expected that the actual odour impact will be much lower than that predicted in the assessment.

Annex A4

Example Hourly Emission Rates in AUSPLUME MODEL

Annex A4 - Example Hourly Emission Rates in AUSPLUME MODEL

Year	Month	Day	Hour	Temperature (°C)	Wind Speed (m/s)	Wind Direction	Stability Class	Mixing Height	Adjusted Hourly Odour Emission Rate (ou/m2/s)				Adjusted Hourly Odour Emission Rate (ou/s)
									Landfill of MSW+construction waste	Landfill of construction waste	Special Waste Trench	Daily Covered Area	SBRs
2006	1	1	1	19	3	67	F	600	0	0	0	0.6	171.5
2006	1	1	2	19	2.4	57	E	600	0	0	0	0.6	171.5
2006	1	1	3	18	1.7	47	F	600	0	0	0	0.6	171.5
2006	1	1	4	18	1.8	79	F	600	0	0	0	0.6	171.5
2006	1	1	5	18	1.6	38	E	600	0	0	0	0.6	171.5
2006	1	1	6	18	1.6	36	E	600	0	0	0	0.6	171.5
2006	1	1	7	18	1	43	E	600	0	0	0	0.6	171.5
2006	1	1	8	18	1.1	87	F	600	4.7	0.6	0	0	171.5
2006	1	1	9	19	1.6	78	D	951	4.7	0.6	158.70	0	171.5
2006	1	1	10	22	1.6	1	C	951	4.7	0.6	158.70	0	171.5
2006	1	1	11	25	0.6	87	B	951	9.4	1.2	317.4	0	343
2006	1	1	12	23	5.1	170	B	951	9.4	1.2	317.4	0	343
2006	1	1	13	26	1.4	122	B	951	9.4	1.2	317.4	0	343
2006	1	1	14	26	2.2	161	B	951	9.4	1.2	317.4	0	343
2006	1	1	15	27	1.6	143	B	951	9.4	1.2	317.4	0	343
2006	1	1	16	23	2.8	165	B	951	9.4	1.2	317.4	0	343
2006	1	1	17	23	1.1	136	D	951	4.7	0.6	158.70	0	171.5
2006	1	1	18	20	1.2	135	F	951	4.7	0.6	0	0	171.5
2006	1	1	19	19	1	60	F	951	4.7	0.6	0	0	171.5
2006	1	1	20	19	0.6	41	F	951	4.7	0.6	0	0	171.5
2006	1	1	21	19	1	55	F	600	4.7	0.6	0	0	171.5
2006	1	1	22	19	1.4	55	F	600	4.7	0.6	0	0	171.5
2006	1	1	23	18	1.9	41	E	600	4.7	0.6	0	0	171.5
2006	1	1	24	18	2.3	87	E	600	0	0	0	0.6	171.5

Annex A5-1

ISCST Model Results for Gaseous Emission during Operation/Restoration Phase

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 66 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
A1-2 (1)	Planned Industrial Uses in TKO 137 (South of Extension) - 1	30	68	72	95	134	134
A1-2 (2)	Planned Industrial Uses in TKO 137 (South of extension) - 2 (outside 200m HKSG buffer distance)	30	70	70	71	77	77
A1-3 (1)	Planned Industrial Uses in TKO 137 (South of TVB City) 1	30	68	68	68	71	71
A1-3 (2)	Planned Industrial Uses in TKO 137 (South of TVB City) - 2 (outside 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
A4	HAECO Component Overhaul Building	30	68	68	70	75	75
A7	Yan Hing Machinery Industrial 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 66 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
A1-2 (1)	Planned Industrial Uses in TKO 137 (South of Extension) - 1	30	66	67	74	90	90.3
A1-2 (2)	Planned Industrial Uses in TKO 137 (South of extension) - 2 (outside 200m HKSG buffer distance)	30	67	67	67	68	67.8
A1-3 (1)	Planned Industrial Uses in TKO 137 (South of TVB City) 1	30	67	67	67	67	66.6
A1-3 (2)	Planned Industrial Uses in TKO 137 (South of TVB City) - 2 (outside 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
A4	HAECO Component Overhaul Building	30	66	66	66	67	67.0
A7	Yan Hing Machinery Industrial 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 66 ug/m3

ASR	Name	Approx. Maximum 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
A1-2 (1)	Planned Industrial Uses in TKO 137 (South of Extension) - 1	30	66.0	66.1	66.3	67.9	67.93
A1-2 (2)	Planned Industrial Uses in TKO 137 (South of extension) - 2 (outside 200m HKSG buffer distance)	30	66.0	66.0	66.1	66.1	66.12
A1-3 (1)	Planned Industrial Uses in TKO 137 (South of TVB City) 1	30	66.1	66.1	66.1	66.1	66.09
A1-3 (2)	Planned Industrial Uses in TKO 137 (South of TVB City) - 2 (outside 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
A4	HAECO Component Overhaul Building	30	66.1	66.1	66.1	66.2	66.15
A7	Yan Hing Machinery Industrial 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

ASR	Name	Approx. Maximum Height of Building (m)	GD	10m	20m	30m	Highest
A1-1	Proposed C&DM Handling Facility	30	1327	1328	1332	1357	1357
A1-2 (1)	Planned Industrial Uses in TKO 137 (South of Extension) - 1	30	1320	1362	1649	2273	2273
A1-2 (2)	Planned Industrial Uses in TKO 137 (South of extension) - 2 (outside 200m HKSG buffer distance)	30	1336	1337	1364	1448	1448
A1-3 (1)	Planned Industrial Uses in TKO 137 (South of TVB City) 1	30	1325	1325	1327	1359	1359
A1-3 (2)	Planned Industrial Uses in TKO 137 (South of TVB City) - 2 (outside 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
A4	HAECO Component Overhaul Building	30	1320	1320	1322	1358	1358
A7	Yan Hing Machinery Industrial 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

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
A1-2 (1)	Planned Industrial Uses in TKO 137 (South of Extension) - 1	30	1305	1327	1537	1764	1764
A1-2 (2)	Planned Industrial Uses in TKO 137 (South of extension) - 2 (outside 200m HKSG buffer distance)	30	1314	1317	1323	1361	1361
A1-3 (1)	Planned Industrial Uses in TKO 137 (South of TVB City) 1	30	1312	1312	1312	1312	1312
A1-3 (2)	Planned Industrial Uses in TKO 137 (South of TVB City) - 2 (outside 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
A4	HAECO Component Overhaul Building	30	1307	1307	1307	1308	1308
A7	Yan Hing Machinery Industrial 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

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
A1-2 (1)	Planned Industrial Uses in TKO 137 (South of Extension) - 1	30	20	22	38	118	118.1
A1-2 (2)	Planned Industrial Uses in TKO 137 (South of extension) - 2 (outside 200m HKSG buffer distance)	30	22	22	24	31	31.1
A1-3 (1)	Planned Industrial Uses in TKO 137 (South of TVB City) 1	30	21	21	21	23	22.8
A1-3 (2)	Planned Industrial Uses in TKO 137 (South of TVB City) - 2 (outside 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
A4	HAECO Component Overhaul Building	30	20	20	20	23	23.0
A7	Yan Hing Machinery Industrial 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

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
A1-2 (1)	Planned Industrial Uses in TKO 137 (South of Extension) - 1	30	18.2	18.7	23.3	51.2	51.2
A1-2 (2)	Planned Industrial Uses in TKO 137 (South of extension) - 2 (outside 200m HKSG buffer distance)	30	18.6	18.7	18.9	20.0	20.0
A1-3 (1)	Planned Industrial Uses in TKO 137 (South of TVB City) 1	30	18.6	18.6	18.7	18.7	18.7
A1-3 (2)	Planned Industrial Uses in TKO 137 (South of TVB City) - 2 (outside 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
A4	HAECO Component Overhaul Building	30	18.4	18.4	18.5	18.7	18.7
A7	Yan Hing Machinery Industrial 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

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
A1-2 (1)	Planned Industrial Uses in TKO 137 (South of Extension) - 1	30	18.01	18.04	18.23	20.16	20.16
A1-2 (2)	Planned Industrial Uses in TKO 137 (South of extension) - 2 (outside 200m HKSG buffer distance)	30	18.03	18.04	18.06	18.14	18.14
A1-3 (1)	Planned Industrial Uses in TKO 137 (South of TVB City) 1	30	18.07	18.07	18.07	18.09	18.09
A1-3 (2)	Planned Industrial Uses in TKO 137 (South of TVB City) - 2 (outside 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
A4	HAECO Component Overhaul Building	30	18.05	18.05	18.06	18.08	18.08
A7	Yan Hing Machinery Industrial 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

Benzene

Background Benzene concentration

2.1 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	2.10	2.10	2.10	2.11	2.11
A1-2 (1)	Planned Industrial Uses in TKO 137 (South of Extension) - 1	30	2.10	2.11	2.14	2.19	2.19
A1-2 (2)	Planned Industrial Uses in TKO 137 (South of extension) - 2 (outside 200m HKSG buffer distance)	30	2.10	2.10	2.11	2.11	2.11
A1-3 (1)	Planned Industrial Uses in TKO 137 (South of TVB City) 1	30	2.10	2.10	2.10	2.11	2.11
A1-3 (2)	Planned Industrial Uses in TKO 137 (South of TVB City) - 2 (outside 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
A4	HAECO Component Overhaul Building	30	2.10	2.10	2.10	2.11	2.11
A7	Yan Hing Machinery Industrial 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
A1-2 (1)	Planned Industrial Uses in TKO 137 (South of Extension) - 1	30	2.100	2.100	2.100	2.102	2.102
A1-2 (2)	Planned Industrial Uses in TKO 137 (South of extension) - 2 (outside 200m HKSG buffer distance)	30	2.100	2.100	2.100	2.100	2.100
A1-3 (1)	Planned Industrial Uses in TKO 137 (South of TVB City) 1	30	2.100	2.100	2.100	2.100	2.100
A1-3 (2)	Planned Industrial Uses in TKO 137 (South of TVB City) - 2 (outside 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
A4	HAECO Component Overhaul Building	30	2.100	2.100	2.100	2.100	2.100
A7	Yan Hing Machinery Industrial 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
A1-2 (1)	Planned Industrial Uses in TKO 137 (South of Extension) - 1	30	5.10	5.10	5.12	5.16	5.16
A1-2 (2)	Planned Industrial Uses in TKO 137 (South of extension) - 2 (outside 200m HKSG buffer distance)	30	5.10	5.10	5.10	5.10	5.10
A1-3 (1)	Planned Industrial Uses in TKO 137 (South of TVB City) 1	30	5.10	5.10	5.10	5.10	5.10
A1-3 (2)	Planned Industrial Uses in TKO 137 (South of TVB City) - 2 (outside 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
A4	HAECO Component Overhaul Building	30	5.10	5.10	5.10	5.10	5.10
A7	Yan Hing Machinery Industrial 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
A1-1	Proposed C&DM Handling Facility	30	5.100	5.100	5.100	5.100	5.100
A1-2 (1)	Planned Industrial Uses in TKO 137 (South of Extension) - 1	30	5.100	5.100	5.100	5.101	5.101
A1-2 (2)	Planned Industrial Uses in TKO 137 (South of extension) - 2 (outside 200m HKSG buffer distance)	30	5.100	5.100	5.100	5.100	5.100
A1-3 (1)	Planned Industrial Uses in TKO 137 (South of TVB City) 1	30	5.100	5.100	5.100	5.100	5.100
A1-3 (2)	Planned Industrial Uses in TKO 137 (South of TVB City) - 2 (outside 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
A4	HAECO Component Overhaul Building	30	5.100	5.100	5.100	5.100	5.100
A7	Yan Hing Machinery Industrial 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

Annex A5-2

Health Risk Assessment for
Benzene & Vinyl Chloride
during
Operation/Restoration
Phase

Annex A5-2 - Health Risk Assessment for Benzene & Vinyl Chloride during Operation/Restoration Phase

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

Benzene

Unit Risk Factor

7.80E-06

ASR	Name	Approx. Maximum Height of Building (m)	Annual Concentration ($\mu\text{g}/\text{m}^3$)				Health Risk Level				
			GD	10m	20m	30m	GD	10m	20m	30m	Highest
A1-1	Proposed C&DM Handling Facility	30	0.00003	0.00003	0.00005	0.00009	2.3E-10	2.3E-10	3.9E-10	7.0E-10	7.0E-10
A1-2 (1)	Planned Industrial Uses in TKO 137 (South of Extension) - 1	30	0.00002	0.00007	0.00041	0.002	1.6E-10	5.5E-10	3.2E-09	1.6E-08	1.6E-08
A1-2 (2)	137 (South of extension) - 2 (outside 200m HKSG buffer distance)	30	0.00002	0.00003	0.00006	0.00012	1.6E-10	2.3E-10	4.7E-10	9.4E-10	9.4E-10
A1-3 (1)	Planned Industrial Uses in TKO 137 - (South of TVB City) 1	30	0.00005	0.00006	0.00006	0.00008	3.9E-10	4.7E-10	4.7E-10	6.2E-10	6.2E-10
A1-3 (2)	137 - (South of TVB City) - 2 (outside 200m HKPSG buffer distance)	30	0.00005	0.00005	0.00007	0.00011	3.9E-10	3.9E-10	5.5E-10	8.6E-10	8.6E-10
A2	TVB City	30	0.00005	0.00005	0.00006	0.00008	3.9E-10	3.9E-10	4.7E-10	6.2E-10	6.2E-10
A3	HAESL	30	0.00004	0.00004	0.00005	0.00006	3.1E-10	3.1E-10	3.9E-10	4.7E-10	4.7E-10
A4	HAECO Component Overhaul Building	30	0.00004	0.00004	0.00005	0.00006	3.1E-10	3.1E-10	3.9E-10	4.7E-10	4.7E-10
A7	Yan Hing Machinery Industrial Building	30	0.00006	0.00006	0.00008	0.00013	4.7E-10	4.7E-10	6.2E-10	1.0E-09	1.0E-09
A8	Apple Daily	30	0.00005	0.00006	0.00008	0.00011	3.9E-10	4.7E-10	6.2E-10	8.6E-10	8.6E-10

Vinyl Chloride

Unit Risk Factor

8.80E-06

ASR	Name	Approx. Maximum Height of Building (m)	Annual Concentration ($\mu\text{g}/\text{m}^3$)				Health Risk Level				
			GD	10m	20m	30m	GD	10m	20m	30m	Highest
A1-1	Proposed C&DM Handling Facility	30	0.00001	0.00001	0.00002	0.00004	8.8E-11	8.8E-11	1.8E-10	3.5E-10	3.5E-10
A1-2 (1)	Planned Industrial Uses in TKO 137 (South of Extension) - 1	30	0.00001	0.00004	0.00025	0.00089	8.8E-11	3.5E-10	2.2E-09	7.8E-09	7.8E-09
A1-2 (2)	137 (South of extension) - 2 (outside 200m HKSG buffer distance)	30	0.00001	0.00001	0.00002	0.00005	8.8E-11	8.8E-11	1.8E-10	4.4E-10	4.4E-10
A1-3 (1)	Planned Industrial Uses in TKO 137 - (South of TVB City) 1	30	0.00002	0.00002	0.00003	0.00004	1.8E-10	1.8E-10	2.6E-10	3.5E-10	3.5E-10
A1-3 (2)	137 - (South of TVB City) - 2 (outside 200m HKPSG buffer distance)	30	0.00002	0.00002	0.00003	0.00005	1.8E-10	1.8E-10	2.6E-10	4.4E-10	4.4E-10
A2	TVB City	30	0.00002	0.00002	0.00003	0.00003	1.8E-10	1.8E-10	2.6E-10	2.6E-10	2.6E-10
A3	HAESL	30	0.00002	0.00002	0.00002	0.00003	1.8E-10	1.8E-10	1.8E-10	2.6E-10	2.6E-10
A4	HAECO Component Overhaul Building	30	0.00002	0.00002	0.00002	0.00003	1.8E-10	1.8E-10	1.8E-10	2.6E-10	2.6E-10
A7	Yan Hing Machinery Industrial Building	30	0.00003	0.00003	0.00004	0.00006	2.6E-10	2.6E-10	3.5E-10	5.3E-10	5.3E-10
A8	Apple Daily	30	0.00002	0.00003	0.00004	0.00005	1.8E-10	2.6E-10	3.5E-10	4.4E-10	4.4E-10

Total Risk

ASR	Name	Approx. Maximum Height of Building (m)	Total Health Risk Level				
			GD	10m	20m	30m	Highest
A1-1	Proposed C&DM Handling Facility	30	3.2E-10	3.2E-10	5.7E-10	1.1E-09	1.1E-09
A1-2 (1)	Planned Industrial Uses in TKO 137 (South of Extension) - 1	30	2.4E-10	9.0E-10	5.4E-09	2.3E-08	2.3E-08
A1-2 (2)	137 (South of extension) - 2 (outside 200m HKSG buffer distance)	30	2.4E-10	3.2E-10	6.4E-10	1.4E-09	1.4E-09
A1-3 (1)	Planned Industrial Uses in TKO 137 - (South of TVB City) 1	30	5.7E-10	6.4E-10	7.3E-10	9.8E-10	9.8E-10
A1-3 (2)	137 - (South of TVB City) - 2 (outside 200m HKPSG buffer distance)	30	5.7E-10	5.7E-10	8.1E-10	1.3E-09	1.3E-09
A2	TVB City	30	5.7E-10	5.7E-10	7.3E-10	8.9E-10	8.9E-10
A3	HAELO	30	4.9E-10	4.9E-10	5.7E-10	7.3E-10	7.3E-10
A4	HAECO Component Overhaul Building	30	4.9E-10	4.9E-10	5.7E-10	7.3E-10	7.3E-10
A7	Yan Hing Machinery Industrial Building	30	7.3E-10	7.3E-10	9.8E-10	1.5E-09	1.5E-09
A8	Apple Daily	30	5.7E-10	7.3E-10	9.8E-10	1.3E-09	1.3E-09

Annex A6

Example of ISCST3 Model Input File

Annex A6 - Example of ISCST3 Output File

1 ISCST3 - (DATED 02035)

ISCST3x VERSION 4.4.3
(C) COPYRIGHT 1991-2006, Trinity Consultants

Run Began on 1/28/2008 at 18:53:54

** BREEZE ISC GIS Pro v5.2.1 - C:\0036286\benzene_D_20080123 (rural)25m.dat
** Trinity Consultants

CO STARTING
CO TITLEONE benzene at ground level ASR
CO MODELOPT CONC RURAL GRDRIS MSGPRO
CO AVERTIME 1 24 ANNUAL
CO POLLUTID OTHER
CO TERRHGTS ELEV
CO FLAGPOLE
CO RUNORNOT RUN
CO FINISHED

SO STARTING
SO ELEVUNIT METERS
SO LOCATION SRC30 POINT 846570.0 814618.0 6.7
** SRCDESCR flare1
SO LOCATION SRC31 POINT 846570.0 814612.0 6.7
** SRCDESCR flare2
SO LOCATION SRC32 POINT 846525.0 814670.0 6.7
** SRCDESCR TCU1
SO LOCATION SRC1 POINT 846531.0 814610.0 6.7
** SRCDESCR generator
SO SRCPARAM SRC30 4.140000E-04 25 1123 12.24 3.8
SO SRCPARAM SRC31 4.140000E-04 25 1123 12.24 3.8
SO SRCPARAM SRC32 1.290000E-04 9.76 444.6 17.5 1.12
SO SRCPARAM SRC1 8.220000E-05 28 727 48.6 0.305
SO EMISUNIT 1.0E+06 GRAMS/SEC MICROGRAMS/M**3
SO SRCGROUP ALL
SO FINISHED

RE STARTING
RE ELEVUNIT METERS
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** RCPDESCR A1-1
RE DISCCART 846500.0 814560.0 6 1.5
** RCPDESCR A1-2(1)
RE DISCCART 846511.0 814339.0 6 1.5
** RCPDESCR A1-2(2)
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** RCPDESCR A1-3(1)
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** RCPDESCR A1-3(2)
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** RCPDESCR A2
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** RCPDESCR A3
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** RCPDESCR A4
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** RCPDESCR A7
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RE DISCCART 846800.0 816450.0 118.7 30
RE DISCCART 846850.0 816450.0 125.7 30
RE DISCCART 846900.0 816450.0 114 30
RE DISCCART 846950.0 816450.0 114.7 30
RE DISCCART 847000.0 816450.0 114.7 30
RE DISCCART 847050.0 816450.0 120.8 30
RE DISCCART 847100.0 816450.0 138.8 30
RE DISCCART 847150.0 816450.0 158.8 30
RE DISCCART 847200.0 816450.0 174.9 30
RE DISCCART 847250.0 816450.0 173 30
RE DISCCART 847300.0 816450.0 140.5 30
RE DISCCART 847350.0 816450.0 112.6 30
RE DISCCART 847400.0 816450.0 86.9 30
RE DISCCART 847450.0 816450.0 0 30
RE DISCCART 845500.0 816500.0 0 30
RE DISCCART 845550.0 816500.0 0 30
RE DISCCART 845600.0 816500.0 0 30
RE DISCCART 845650.0 816500.0 0 30
RE DISCCART 845700.0 816500.0 0 30
RE DISCCART 845750.0 816500.0 0 30
RE DISCCART 845800.0 816500.0 0 30
RE DISCCART 845850.0 816500.0 0 30
RE DISCCART 845900.0 816500.0 0 30
RE DISCCART 845950.0 816500.0 0 30
RE DISCCART 846000.0 816500.0 0 30
RE DISCCART 846050.0 816500.0 0 30
RE DISCCART 846100.0 816500.0 0 30
RE DISCCART 846150.0 816500.0 0 30
RE DISCCART 846200.0 816500.0 0 30
RE DISCCART 846250.0 816500.0 0 30
RE DISCCART 846300.0 816500.0 0 30
RE DISCCART 846350.0 816500.0 0 30
RE DISCCART 846400.0 816500.0 0 30
RE DISCCART 846450.0 816500.0 0 30
RE DISCCART 846500.0 816500.0 0 30
RE DISCCART 846550.0 816500.0 26 30
RE DISCCART 846600.0 816500.0 37.6 30
RE DISCCART 846650.0 816500.0 55.7 30
RE DISCCART 846700.0 816500.0 82.8 30
RE DISCCART 846750.0 816500.0 117.3 30
RE DISCCART 846800.0 816500.0 141.2 30
RE DISCCART 846850.0 816500.0 134.7 30
RE DISCCART 846900.0 816500.0 139.4 30
RE DISCCART 846950.0 816500.0 147.7 30
RE DISCCART 847000.0 816500.0 142.9 30
RE DISCCART 847050.0 816500.0 145.2 30
RE DISCCART 847100.0 816500.0 142.8 30
RE DISCCART 847150.0 816500.0 160.5 30
RE DISCCART 847200.0 816500.0 153.6 30
RE DISCCART 847250.0 816500.0 144.7 30
RE DISCCART 847300.0 816500.0 135.7 30
RE DISCCART 847350.0 816500.0 102.4 30
RE DISCCART 847400.0 816500.0 74.9 30
RE DISCCART 847450.0 816500.0 0 30
RE DISCCART 846571.1 814578.9 6 30
** BOUNDARY BND1
RE DISCCART 846365.0 814517.0 6 30
RE DISCCART 846457.94 814553.91 6 30
RE DISCCART 846550.87 814590.83 6 30
RE DISCCART 846579.0 814602.0 6 30
RE DISCCART 846620.79 814692.85 6 30
RE DISCCART 846625.0 814702.0 6 30
RE DISCCART 846526.08 814687.32 6 30
RE DISCCART 846427.17 814672.64 6 30
RE DISCCART 846328.25 814657.97 6 30
RE DISCCART 846315.0 814656.0 6 30
RE DISCCART 846348.85 814561.9 6 30
RE FINISHED

ME STARTING
ME INPUTFIL "H:\WPFILES\KATIE MORONEY\SENT2006.ASC"
ME ANEMHGHT 10 METERS

ME SURFDATA 99999 2006
ME UAIRDATA 99999 2006
ME STARTEND 2006 01 01 1 2006 12 31 24
ME FINISHED

OU STARTING
OU RECTABLE 1 FIRST
OU RECTABLE ALLAVE FIRST
OU PLOTFILE 1 ALL FIRST "C:\0036286\BENZENE_D_20080123 (RURAL)25M.PLT" 45
OU PLOTFILE ANNUAL ALL "C:\0036286\BENZENE_D_20080123 (RURAL)25M.PLT" 45
OU FINISHED

** PROJECTN 0 104 7 -177 0 0.9996 500000 0
** OUTFILE "C:\0036286\benzene_D_20080123 (rural)25m.lst"
** RAWFILE "C:\0036286\benzene_D_20080123 (rural)25m.RAW"
** RAWFMT 2
** AMPDATUM 0
** HILLBOUN 0 0 0 0

*** Message Summary For ISC3 Model Setup ***

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)
A Total of 2 Warning Message(s)
A Total of 0 Informational Message(s)

***** FATAL ERROR MESSAGES *****
*** NONE ***

***** WARNING MESSAGES *****
CO W205 18 FLAGDF:No Option Parameter Setting. Forced by Default to ZFLAG=0.
RE W282 2567 CHK_EL:RecElev < SrcBase; See non-DEFAULT HE>ZI option in MCB#9

*** SETUP Finishes Successfully ***

1 *** ISCST3 - VERSION 02035 *** *** benzene at ground level ASR *** 01/28/06
*** 18:53:5
**MODELOPTS: PAGE
CONC RURAL ELEV FLGPOL GRDRIS MSGPRO

*** MODEL SETUP OPTIONS SUMMARY **

**Intermediate Terrain Processing is Selected

**Model Is Setup For Calculation of Average CONCentration Values.

-- SCAVENGING/DEPOSITION LOGIC --
**Model Uses NO DRY DEPLETION. DDPLETE = F
**Model Uses NO WET DEPLETION. WDPLETE = F
**NO WET SCAVENGING Data Provided.
**NO GAS DRY DEPOSITION Data Provided.
**Model Does NOT Use GRIDDED TERRAIN Data for Depletion Calculations

**Model Uses RURAL Dispersion.

**Model Uses User-Specified Options:
1. Gradual Plume Rise.
2. Stack-tip Downwash.
3. Buoyancy-induced Dispersion.
4. Calms Processing Routine.
5. Missing Data Processing Routine.
6. Default Wind Profile Exponents.
7. Default Vertical Potential Temperature Gradients.

**Model Accepts Receptors on ELEV Terrain.

**Model Accepts FLAGPOLE Receptor Heights.

**Model Calculates 2 Short Term Average(s) of: 1-HR 24-HR
and Calculates ANNUAL Averages

**This Run Includes: 4 Source(s); 1 Source Group(s); and 2482 Receptor(s)

**The Model Assumes A Pollutant Type of: OTHER

**Model Set To Continue RUNning After the Setup Testing.

**Output Options Selected:
Model Outputs Tables of ANNUAL Averages by Receptor
Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)

**NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours
m for Missing Hour
b for Both Calm and Missing Hour

**Misc. Inputs: Anem. Hgt. (m) = 10.00; Decay Coef. = 0.0000; Rot. Angle = 0.0
Emission Units = GRAMS/SEC; Emission Rate Unit Factor = 0.10000E+0
Output Units = MICROGRAMS/M**3

**Approximate Storage Requirements of Model = 1.4 MB of RAM.

**Input Runstream File: C:\0036286\BENZENE_D_20080123 (RURAL)25M.DAT
 **Output Print File: C:\0036286\BENZENE_D_20080123 (RURAL)25M.LST
 1 *** ISCST3 - VERSION 02035 *** benzene at ground level ASR *** 01/28/08
 *** 18:53:5
 **MODELOPTs: PAGE
 CONC RURAL ELEV FLGPOL GRDRIS MSGPRO

*** POINT SOURCE DATA **

SOURCE ID	PART. CATS.	(USER UNITS)	X (METERS)	Y (METERS)	ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	EMISSION RATE (METERS)	RAT B	SCALAR VAR
SRC30	0	0.41400E-03	846570.0	814618.0	6.7	25.00	1123.00	12.24	3.80	NO			
SRC31	0	0.41400E-03	846570.0	814612.0	6.7	25.00	1123.00	12.24	3.80	NO			
SRC32	0	0.12900E-03	846525.0	814670.0	6.7	9.76	444.60	17.50	1.12	NO			
SRC1	0	0.82200E-04	846531.0	814610.0	6.7	28.00	727.00	48.60	0.31	NO			

1 *** ISCST3 - VERSION 02035 *** benzene at ground level ASR *** 01/28/08
 *** 18:53:5

**MODELOPTs: PAGE
 CONC RURAL ELEV FLGPOL GRDRIS MSGPRO

*** SOURCE IDs DEFINING SOURCE GROUPS **

GROUP ID SOURCE ID:

ALL SRC30 , SRC31 , SRC32 , SRC1 ,
 1 *** ISCST3 - VERSION 02035 *** benzene at ground level ASR *** 01/28/08
 *** 18:53:5

**MODELOPTs: PAGE
 CONC RURAL ELEV FLGPOL GRDRIS MSGPRO

*** DISCRETE CARTESIAN RECEPTORS **
 (X-COORD, Y-COORD, ZELEV, ZFLAG
 (METERS)

(846116.0, 814823.0, 6.0, 1.5);	(846500.0, 814560.0, 6.0, 1.5);
(846511.0, 814339.0, 6.0, 1.5);	(846220.0, 815380.0, 6.0, 1.5);
(846077.0, 815374.0, 6.0, 1.5);	(846210.5, 815485.0, 6.0, 1.5);
(846090.7, 815717.9, 6.0, 1.5);	(846139.4, 815840.1, 6.0, 1.5);
(846324.6, 815907.0, 6.0, 1.5);	(846373.0, 816033.2, 6.0, 1.5);
(846116.0, 814823.0, 6.0, 10.0);	(846500.0, 814560.0, 6.0, 10.0);
(846511.0, 814339.0, 6.0, 10.0);	(846220.0, 815380.0, 6.0, 10.0);
(846077.0, 815374.0, 6.0, 10.0);	(846210.5, 815485.0, 6.0, 10.0);
(846090.7, 815717.9, 6.0, 10.0);	(846139.4, 815840.1, 6.0, 10.0);
(846324.6, 815907.0, 6.0, 10.0);	(846373.0, 816033.2, 6.0, 10.0);
(846116.0, 814823.0, 6.0, 20.0);	(846500.0, 814560.0, 6.0, 20.0);
(846511.0, 814339.0, 6.0, 20.0);	(846220.0, 815380.0, 6.0, 20.0);
(846077.0, 815374.0, 6.0, 20.0);	(846210.5, 815485.0, 6.0, 20.0);
(846090.7, 815717.9, 6.0, 20.0);	(846139.4, 815840.1, 6.0, 20.0);
(846324.6, 815907.0, 6.0, 20.0);	(846373.0, 816033.2, 6.0, 20.0);
(846116.0, 814823.0, 6.0, 30.0);	(846500.0, 814560.0, 6.0, 30.0);
(846511.0, 814339.0, 6.0, 30.0);	(846220.0, 815380.0, 6.0, 30.0);
(846077.0, 815374.0, 6.0, 30.0);	(846210.5, 815485.0, 6.0, 30.0);
(846090.7, 815717.9, 6.0, 30.0);	(846139.4, 815840.1, 6.0, 30.0);
(845881.0, 815902.6, 6.0, 30.0);	(845648.9, 816016.6, 6.0, 30.0);
(846324.6, 815907.0, 6.0, 30.0);	(846373.0, 816033.2, 6.0, 30.0);
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(845600.0, 813500.0, 0.0, 30.0);	(845650.0, 813500.0, 0.0, 30.0);
(845700.0, 813500.0, 0.0, 30.0);	(845750.0, 813500.0, 0.0, 30.0);
(845800.0, 813500.0, 0.0, 30.0);	(845850.0, 813500.0, 0.0, 30.0);
(845900.0, 813500.0, 0.0, 30.0);	(845950.0, 813500.0, 0.0, 30.0);
(846000.0, 813500.0, 0.0, 30.0);	(846050.0, 813500.0, 0.0, 30.0);
(846100.0, 813500.0, 0.0, 30.0);	(846150.0, 813500.0, 0.0, 30.0);
(846200.0, 813500.0, 0.0, 30.0);	(846250.0, 813500.0, 0.0, 30.0);
(846300.0, 813500.0, 0.0, 30.0);	(846350.0, 813500.0, 0.0, 30.0);
(846400.0, 813500.0, 0.0, 30.0);	(846450.0, 813500.0, 0.0, 30.0);
(846500.0, 813500.0, 0.0, 30.0);	(846550.0, 813500.0, 0.0, 30.0);
(846600.0, 813500.0, 0.0, 30.0);	(846650.0, 813500.0, 0.0, 30.0);
(846700.0, 813500.0, 0.0, 30.0);	(846750.0, 813500.0, 0.0, 30.0);
(846800.0, 813500.0, 0.0, 30.0);	(846850.0, 813500.0, 0.0, 30.0);
(846900.0, 813500.0, 0.0, 30.0);	(846950.0, 813500.0, 0.0, 30.0);
(847000.0, 813500.0, 0.0, 30.0);	(847050.0, 813500.0, 0.0, 30.0);
(847100.0, 813500.0, 0.0, 30.0);	(847150.0, 813500.0, 0.0, 30.0);
(847200.0, 813500.0, 0.0, 30.0);	(847250.0, 813500.0, 0.0, 30.0);
(847300.0, 813500.0, 0.0, 30.0);	(847350.0, 813500.0, 0.0, 30.0);
(847400.0, 813500.0, 0.0, 30.0);	(847450.0, 813500.0, 0.0, 30.0);
(845500.0, 813550.0, 0.0, 30.0);	(845550.0, 813550.0, 0.0, 30.0);
(845600.0, 813550.0, 0.0, 30.0);	(845650.0, 813550.0, 0.0, 30.0);
(845700.0, 813550.0, 0.0, 30.0);	(845750.0, 813550.0, 0.0, 30.0);
(845800.0, 813550.0, 0.0, 30.0);	(845850.0, 813550.0, 0.0, 30.0);

1 *** ISCST3 - VERSION 02035 *** benzene at ground level ASR *** 01/28/08
 *** 18:53:5

**MODELOPTs: PAGE
 CONC RURAL ELEV FLGPOL GRDRIS MSGPRO

*** DISCRETE CARTESIAN RECEPTORS **
 (X-COORD, Y-COORD, ZELEV, ZFLAG

(846300.0, 814350.0, 5.5, 30.0); (846350.0, 814350.0, 5.5, 30.0);
 (846400.0, 814350.0, 5.5, 30.0); (846450.0, 814350.0, 5.5, 30.0);
 (846500.0, 814350.0, 5.5, 30.0); (846550.0, 814350.0, 5.5, 30.0);
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 (846700.0, 814350.0, 59.7, 30.0); (846750.0, 814350.0, 76.8, 30.0);
 (846800.0, 814350.0, 74.8, 30.0); (846850.0, 814350.0, 44.9, 30.0);
 (846900.0, 814350.0, 26.2, 30.0); (846950.0, 814350.0, 0.0, 30.0);
 (847000.0, 814350.0, 0.0, 30.0); (847050.0, 814350.0, 0.0, 30.0);
 (847100.0, 814350.0, 0.0, 30.0); (847150.0, 814350.0, 0.0, 30.0);
 (847200.0, 814350.0, 0.0, 30.0); (847250.0, 814350.0, 0.0, 30.0);
 (847300.0, 814350.0, 0.0, 30.0); (847350.0, 814350.0, 0.0, 30.0);
 (847400.0, 814350.0, 0.0, 30.0); (847450.0, 814350.0, 0.0, 30.0);
 (845500.0, 814400.0, 0.0, 30.0); (845550.0, 814400.0, 0.0, 30.0);
 (845600.0, 814400.0, 0.0, 30.0); (845650.0, 814400.0, 0.0, 30.0);
 (845700.0, 814400.0, 0.0, 30.0); (845750.0, 814400.0, 0.0, 30.0);
 (845800.0, 814400.0, 0.0, 30.0); (845850.0, 814400.0, 0.0, 30.0);
 (845900.0, 814400.0, 0.0, 30.0); (845950.0, 814400.0, 5.5, 30.0);
 (846000.0, 814400.0, 5.5, 30.0); (846050.0, 814400.0, 5.5, 30.0);
 (846100.0, 814400.0, 5.5, 30.0); (846150.0, 814400.0, 5.5, 30.0);
 (846200.0, 814400.0, 5.5, 30.0); (846250.0, 814400.0, 5.5, 30.0);
 (846300.0, 814400.0, 5.5, 30.0); (846350.0, 814400.0, 5.5, 30.0);
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 (846500.0, 814400.0, 5.5, 30.0); (846550.0, 814400.0, 5.5, 30.0);
 (846600.0, 814400.0, 5.5, 30.0); (846650.0, 814400.0, 32.3, 30.0);
 (846700.0, 814400.0, 51.4, 30.0); (846750.0, 814400.0, 72.3, 30.0);
 (846800.0, 814400.0, 70.9, 30.0); (846850.0, 814400.0, 47.5, 30.0);
 (846900.0, 814400.0, 31.9, 30.0); (846950.0, 814400.0, 16.1, 30.0);
 (847000.0, 814400.0, 14.7, 30.0); (847050.0, 814400.0, 18.2, 30.0);
 (847100.0, 814400.0, 0.0, 30.0); (847150.0, 814400.0, 0.0, 30.0);
 (847200.0, 814400.0, 0.0, 30.0); (847250.0, 814400.0, 0.0, 30.0);
 (847300.0, 814400.0, 0.0, 30.0); (847350.0, 814400.0, 0.0, 30.0);
 (847400.0, 814400.0, 0.0, 30.0); (847450.0, 814400.0, 0.0, 30.0);
 (845500.0, 814450.0, 0.0, 30.0); (845550.0, 814450.0, 0.0, 30.0);
 (845600.0, 814450.0, 0.0, 30.0); (845650.0, 814450.0, 0.0, 30.0);
 (845700.0, 814450.0, 0.0, 30.0); (845750.0, 814450.0, 0.0, 30.0);
 (845800.0, 814450.0, 0.0, 30.0); (845850.0, 814450.0, 0.0, 30.0);

1 *** ICSCT3 - VERSION 02035 *** *** benzene at ground level ASR *** 01/28/06

**MODELOPTs: PAGE 1
 CONC RURAL ELEV FLGPOL GRDRIS MSGPRO

*** DISCRETE CARTESIAN RECEPTORS **
 (X-COORD, Y-COORD, ZELEV, ZFLAG
 (METERS

(845900.0, 814450.0, 5.5, 30.0); (845950.0, 814450.0, 5.5, 30.0);
 (846000.0, 814450.0, 5.5, 30.0); (846050.0, 814450.0, 5.5, 30.0);
 (846100.0, 814450.0, 5.5, 30.0); (846150.0, 814450.0, 5.5, 30.0);
 (846200.0, 814450.0, 5.5, 30.0); (846250.0, 814450.0, 5.5, 30.0);
 (846300.0, 814450.0, 5.5, 30.0); (846350.0, 814450.0, 5.5, 30.0);
 (846400.0, 814450.0, 5.5, 30.0); (846450.0, 814450.0, 5.5, 30.0);
 (846500.0, 814450.0, 5.5, 30.0); (846550.0, 814450.0, 5.5, 30.0);
 (846600.0, 814450.0, 4.3, 30.0); (846650.0, 814450.0, 28.5, 30.0);
 (846700.0, 814450.0, 50.5, 30.0); (846750.0, 814450.0, 72.5, 30.0);
 (846800.0, 814450.0, 72.0, 30.0); (846850.0, 814450.0, 53.4, 30.0);
 (846900.0, 814450.0, 36.4, 30.0); (846950.0, 814450.0, 24.2, 30.0);
 (847000.0, 814450.0, 29.2, 30.0); (847050.0, 814450.0, 38.3, 30.0);
 (847100.0, 814450.0, 25.3, 30.0); (847150.0, 814450.0, 0.0, 30.0);
 (847200.0, 814450.0, 0.0, 30.0); (847250.0, 814450.0, 0.0, 30.0);
 (847300.0, 814450.0, 0.0, 30.0); (847350.0, 814450.0, 0.0, 30.0);
 (847400.0, 814450.0, 0.0, 30.0); (847450.0, 814450.0, 0.0, 30.0);
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 (845700.0, 814500.0, 0.0, 30.0); (845750.0, 814500.0, 0.0, 30.0);
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 (846900.0, 814500.0, 0.0, 30.0); (846950.0, 814500.0, 0.0, 30.0);
 (847000.0, 814500.0, 0.0, 30.0); (847050.0, 814500.0, 0.0, 30.0);
 (847100.0, 814500.0, 0.0, 30.0); (847150.0, 814500.0, 0.0, 30.0);
 (847200.0, 814500.0, 0.0, 30.0); (847250.0, 814500.0, 0.0, 30.0);
 (847300.0, 814500.0, 0.0, 30.0); (847350.0, 814500.0, 0.0, 30.0);
 (847400.0, 814500.0, 11.8, 30.0); (847450.0, 814500.0, 13.1, 30.0);
 (845500.0, 814550.0, 0.0, 30.0); (845550.0, 814550.0, 0.4, 30.0);
 (845600.0, 814550.0, 0.4, 30.0); (845650.0, 814550.0, 0.4, 30.0);
 (845700.0, 814550.0, 0.4, 30.0); (845750.0, 814550.0, 0.4, 30.0);
 (845800.0, 814550.0, 0.4, 30.0); (845850.0, 814550.0, 5.5, 30.0);
 (845900.0, 814550.0, 5.5, 30.0); (845950.0, 814550.0, 5.5, 30.0);
 (846000.0, 814550.0, 5.5, 30.0); (846050.0, 814550.0, 5.5, 30.0);
 (846100.0, 814550.0, 5.5, 30.0); (846150.0, 814550.0, 5.5, 30.0);
 (846200.0, 814550.0, 5.5, 30.0); (846250.0, 814550.0, 5.5, 30.0);
 (846300.0, 814550.0, 5.5, 30.0); (846350.0, 814550.0, 5.5, 30.0);

1 *** ICSCT3 - VERSION 02035 *** *** benzene at ground level ASR *** 01/28/06

**MODELOPTs: PAGE 1
 CONC RURAL ELEV FLGPOL GRDRIS MSGPRO

*** DISCRETE CARTESIAN RECEPTORS **
 (X-COORD, Y-COORD, ZELEV, ZFLAG

(METERS)

(846450.0, 814550.0, 5.5, 30.0);	(846500.0, 814550.0, 5.5, 30.0);
(846550.0, 814550.0, 5.5, 30.0);	(846600.0, 814550.0, 20.9, 30.0);
(846650.0, 814550.0, 45.0, 30.0);	(846700.0, 814550.0, 54.7, 30.0);
(846750.0, 814550.0, 68.0, 30.0);	(846800.0, 814550.0, 61.3, 30.0);
(846850.0, 814550.0, 46.0, 30.0);	(846900.0, 814550.0, 35.9, 30.0);
(846950.0, 814550.0, 31.3, 30.0);	(847000.0, 814550.0, 32.3, 30.0);
(847050.0, 814550.0, 25.7, 30.0);	(847100.0, 814550.0, 10.8, 30.0);
(847150.0, 814550.0, 3.0, 30.0);	(847200.0, 814550.0, 2.0, 30.0);
(847250.0, 814550.0, 1.8, 30.0);	(847300.0, 814550.0, 1.8, 30.0);
(847350.0, 814550.0, 1.8, 30.0);	(847400.0, 814550.0, 1.8, 30.0);
(847450.0, 814550.0, 13.8, 30.0);	(845500.0, 814600.0, 0.0, 30.0);
(845550.0, 814600.0, 0.7, 30.0);	(845600.0, 814600.0, 0.9, 30.0);
(845650.0, 814600.0, 0.9, 30.0);	(845700.0, 814600.0, 0.9, 30.0);
(845750.0, 814600.0, 0.9, 30.0);	(845800.0, 814600.0, 0.9, 30.0);
(845850.0, 814600.0, 5.5, 30.0);	(845900.0, 814600.0, 5.5, 30.0);
(845950.0, 814600.0, 5.5, 30.0);	(846000.0, 814600.0, 5.5, 30.0);
(846050.0, 814600.0, 5.5, 30.0);	(846100.0, 814600.0, 5.5, 30.0);
(846150.0, 814600.0, 5.5, 30.0);	(846200.0, 814600.0, 5.5, 30.0);
(846250.0, 814600.0, 5.5, 30.0);	(846300.0, 814600.0, 5.5, 30.0);
(846600.0, 814600.0, 14.7, 30.0);	(846650.0, 814600.0, 38.4, 30.0);
(846700.0, 814600.0, 51.6, 30.0);	(846750.0, 814600.0, 73.3, 30.0);
(846800.0, 814600.0, 70.1, 30.0);	(846850.0, 814600.0, 48.7, 30.0);
(846900.0, 814600.0, 35.6, 30.0);	(846950.0, 814600.0, 29.9, 30.0);
(847000.0, 814600.0, 27.8, 30.0);	(847050.0, 814600.0, 20.3, 30.0);
(847100.0, 814600.0, 7.7, 30.0);	(847150.0, 814600.0, 5.6, 30.0);
(847200.0, 814600.0, 2.0, 30.0);	(847250.0, 814600.0, 4.5, 30.0);
(847300.0, 814600.0, 3.6, 30.0);	(847350.0, 814600.0, 3.6, 30.0);
(847400.0, 814600.0, 4.6, 30.0);	(847450.0, 814600.0, 14.5, 30.0);
(845500.0, 814650.0, 0.0, 30.0);	(845550.0, 814650.0, 0.7, 30.0);
(845600.0, 814650.0, 1.3, 30.0);	(845650.0, 814650.0, 1.3, 30.0);
(845700.0, 814650.0, 1.3, 30.0);	(845750.0, 814650.0, 5.5, 30.0);
(845800.0, 814650.0, 5.5, 30.0);	(845850.0, 814650.0, 5.5, 30.0);
(845900.0, 814650.0, 5.5, 30.0);	(845950.0, 814650.0, 5.5, 30.0);
(846000.0, 814650.0, 5.5, 30.0);	(846050.0, 814650.0, 5.5, 30.0);
(846100.0, 814650.0, 5.5, 30.0);	(846150.0, 814650.0, 5.5, 30.0);
(846200.0, 814650.0, 5.5, 30.0);	(846250.0, 814650.0, 5.5, 30.0);
(846300.0, 814650.0, 5.5, 30.0);	(846650.0, 814650.0, 24.6, 30.0);
(846700.0, 814650.0, 40.7, 30.0);	(846750.0, 814650.0, 62.9, 30.0);
(846800.0, 814650.0, 73.3, 30.0);	(846850.0, 814650.0, 58.7, 30.0);
(846900.0, 814650.0, 38.9, 30.0);	(846950.0, 814650.0, 30.0, 30.0);
(847000.0, 814650.0, 24.3, 30.0);	(847050.0, 814650.0, 7.8, 30.0);
(847100.0, 814650.0, 7.6, 30.0);	(847150.0, 814650.0, 8.0, 30.0);
(847200.0, 814650.0, 4.6, 30.0);	(847250.0, 814650.0, 2.8, 30.0);
(847300.0, 814650.0, 7.0, 30.0);	(847350.0, 814650.0, 4.9, 30.0);
(847400.0, 814650.0, 10.5, 30.0);	(847450.0, 814650.0, 15.3, 30.0);

1 *** ISCS T3 - VERSION 02035 *** *** benzene at ground level ASR *** 01/28/06
*** 18:53:5

**MODELOPTs: PAGE 1
CONC RURAL ELEV FLGPOL GRDRIS MSGPRO

*** DISCRETE CARTESIAN RECEPTORS **
(X-COORD, Y-COORD, ZELEV, ZFLAG
(METERS

(845500.0, 814700.0, 0.0, 30.0);	(845550.0, 814700.0, 0.7, 30.0);
(845600.0, 814700.0, 1.5, 30.0);	(845650.0, 814700.0, 1.8, 30.0);
(845700.0, 814700.0, 5.5, 30.0);	(845750.0, 814700.0, 5.5, 30.0);
(845800.0, 814700.0, 5.5, 30.0);	(845850.0, 814700.0, 5.5, 30.0);
(845900.0, 814700.0, 5.5, 30.0);	(845950.0, 814700.0, 5.5, 30.0);
(846000.0, 814700.0, 5.5, 30.0);	(846050.0, 814700.0, 5.5, 30.0);
(846100.0, 814700.0, 5.5, 30.0);	(846150.0, 814700.0, 5.5, 30.0);
(846200.0, 814700.0, 5.5, 30.0);	(846250.0, 814700.0, 5.5, 30.0);
(846300.0, 814700.0, 5.5, 30.0);	(846350.0, 814700.0, 1.7, 30.0);
(846400.0, 814700.0, 10.0, 30.0);	(846450.0, 814700.0, 10.0, 30.0);
(846500.0, 814700.0, 10.0, 30.0);	(846550.0, 814700.0, 10.0, 30.0);
(846600.0, 814700.0, 6.0, 30.0);	(846650.0, 814700.0, 15.4, 30.0);
(846700.0, 814700.0, 29.2, 30.0);	(846750.0, 814700.0, 51.6, 30.0);
(846800.0, 814700.0, 74.5, 30.0);	(846850.0, 814700.0, 68.0, 30.0);
(846900.0, 814700.0, 44.0, 30.0);	(846950.0, 814700.0, 38.7, 30.0);
(847000.0, 814700.0, 21.7, 30.0);	(847050.0, 814700.0, 4.6, 30.0);
(847100.0, 814700.0, 6.8, 30.0);	(847150.0, 814700.0, 6.7, 30.0);
(847200.0, 814700.0, 9.1, 30.0);	(847250.0, 814700.0, 3.9, 30.0);
(847300.0, 814700.0, 11.0, 30.0);	(847350.0, 814700.0, 27.3, 30.0);
(847400.0, 814700.0, 40.2, 30.0);	(847450.0, 814700.0, 40.7, 30.0);
(845500.0, 814750.0, 0.0, 30.0);	(845550.0, 814750.0, 0.7, 30.0);
(845600.0, 814750.0, 1.5, 30.0);	(845650.0, 814750.0, 2.2, 30.0);
(845700.0, 814750.0, 5.5, 30.0);	(845750.0, 814750.0, 5.5, 30.0);
(845800.0, 814750.0, 5.5, 30.0);	(845850.0, 814750.0, 5.5, 30.0);
(845900.0, 814750.0, 5.5, 30.0);	(845950.0, 814750.0, 5.5, 30.0);
(846000.0, 814750.0, 5.5, 30.0);	(846050.0, 814750.0, 5.5, 30.0);
(846100.0, 814750.0, 5.5, 30.0);	(846150.0, 814750.0, 5.5, 30.0);
(846200.0, 814750.0, 5.5, 30.0);	(846250.0, 814750.0, 5.5, 30.0);
(846300.0, 814750.0, 5.5, 30.0);	(846350.0, 814750.0, 10.0, 30.0);
(846400.0, 814750.0, 10.0, 30.0);	(846450.0, 814750.0, 10.0, 30.0);
(846500.0, 814750.0, 10.0, 30.0);	(846550.0, 814750.0, 10.0, 30.0);
(846600.0, 814750.0, 10.0, 30.0);	(846650.0, 814750.0, 9.0, 30.0);
(846700.0, 814750.0, 36.2, 30.0);	(846750.0, 814750.0, 60.5, 30.0);
(846800.0, 814750.0, 84.2, 30.0);	(846850.0, 814750.0, 83.2, 30.0);
(846900.0, 814750.0, 56.7, 30.0);	(846950.0, 814750.0, 37.5, 30.0);
(847000.0, 814750.0, 22.4, 30.0);	(847050.0, 814750.0, 9.9, 30.0);
(847100.0, 814750.0, 4.2, 30.0);	(847150.0, 814750.0, 7.1, 30.0);
(847200.0, 814750.0, 13.2, 30.0);	(847250.0, 814750.0, 30.0, 30.0);
(847300.0, 814750.0, 40.2, 30.0);	(847350.0, 814750.0, 47.5, 30.0);
(847400.0, 814750.0, 59.8, 30.0);	(847450.0, 814750.0, 69.5, 30.0);
(845500.0, 814800.0, 0.0, 30.0);	(845550.0, 814800.0, 0.7, 30.0);
(845600.0, 814800.0, 1.5, 30.0);	(845650.0, 814800.0, 2.2, 30.0);

(845700.0, 814800.0, 5.5, 30.0); (845750.0, 814800.0, 5.5, 30.0);
(845800.0, 814800.0, 5.5, 30.0); (845850.0, 814800.0, 5.5, 30.0);
(845900.0, 814800.0, 5.5, 30.0); (845950.0, 814800.0, 5.5, 30.0);

1 *** ISCS T3 - VERSION 02035 *** *** benzene at ground level ASR *** 01/28/08
*** 18:53:5

**MODELOPTS: PAGE 1
CONC RURAL ELEV FLGPOL GRDRIS MSGPRO

*** DISCRETE CARTESIAN RECEPTORS **
(X-COORD, Y-COORD, ZELEV, ZFLAG
(METERS

(846000.0, 814800.0, 5.5, 30.0); (846050.0, 814800.0, 5.5, 30.0);
(846100.0, 814800.0, 5.5, 30.0); (846150.0, 814800.0, 5.5, 30.0);
(846200.0, 814800.0, 5.5, 30.0); (846250.0, 814800.0, 5.5, 30.0);
(846300.0, 814800.0, 2.6, 30.0); (846350.0, 814800.0, 10.0, 30.0);
(846400.0, 814800.0, 10.0, 30.0); (846450.0, 814800.0, 10.0, 30.0);
(846500.0, 814800.0, 10.0, 30.0); (846550.0, 814800.0, 10.0, 30.0);
(846600.0, 814800.0, 10.0, 30.0); (846650.0, 814800.0, 25.0, 30.0);
(846700.0, 814800.0, 43.0, 30.0); (846750.0, 814800.0, 66.9, 30.0);
(846800.0, 814800.0, 96.8, 30.0); (846850.0, 814800.0, 87.4, 30.0);
(846900.0, 814800.0, 56.8, 30.0); (846950.0, 814800.0, 30.9, 30.0);
(847000.0, 814800.0, 20.0, 30.0); (847050.0, 814800.0, 17.2, 30.0);
(847100.0, 814800.0, 13.3, 30.0); (847150.0, 814800.0, 15.0, 30.0);
(847200.0, 814800.0, 25.3, 30.0); (847250.0, 814800.0, 40.5, 30.0);
(847300.0, 814800.0, 59.2, 30.0); (847350.0, 814800.0, 63.9, 30.0);
(847400.0, 814800.0, 82.4, 30.0); (847450.0, 814800.0, 91.5, 30.0);
(845500.0, 814850.0, 0.0, 30.0); (845550.0, 814850.0, 0.7, 30.0);
(845600.0, 814850.0, 1.5, 30.0); (845650.0, 814850.0, 2.2, 30.0);
(845700.0, 814850.0, 2.9, 30.0); (845750.0, 814850.0, 3.1, 30.0);
(845800.0, 814850.0, 3.1, 30.0); (845850.0, 814850.0, 3.1, 30.0);
(845900.0, 814850.0, 5.5, 30.0); (845950.0, 814850.0, 5.5, 30.0);
(846000.0, 814850.0, 5.5, 30.0); (846050.0, 814850.0, 5.5, 30.0);
(846100.0, 814850.0, 5.5, 30.0); (846150.0, 814850.0, 5.5, 30.0);
(846200.0, 814850.0, 5.5, 30.0); (846250.0, 814850.0, 5.5, 30.0);
(846300.0, 814850.0, 3.0, 30.0); (846350.0, 814850.0, 10.0, 30.0);
(846400.0, 814850.0, 10.0, 30.0); (846450.0, 814850.0, 10.0, 30.0);
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(846700.0, 814850.0, 56.9, 30.0); (846750.0, 814850.0, 75.7, 30.0);
(846800.0, 814850.0, 100.1, 30.0); (846850.0, 814850.0, 80.2, 30.0);
(846900.0, 814850.0, 56.9, 30.0); (846950.0, 814850.0, 41.9, 30.0);
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(847400.0, 814850.0, 97.3, 30.0); (847450.0, 814850.0, 110.4, 30.0);
(845500.0, 814900.0, 0.0, 30.0); (845550.0, 814900.0, 0.7, 30.0);
(845600.0, 814900.0, 1.5, 30.0); (845650.0, 814900.0, 2.2, 30.0);
(845700.0, 814900.0, 2.9, 30.0); (845750.0, 814900.0, 3.6, 30.0);
(845800.0, 814900.0, 3.6, 30.0); (845850.0, 814900.0, 3.6, 30.0);
(845900.0, 814900.0, 5.5, 30.0); (845950.0, 814900.0, 5.5, 30.0);
(846000.0, 814900.0, 5.5, 30.0); (846050.0, 814900.0, 5.5, 30.0);
(846100.0, 814900.0, 5.5, 30.0); (846150.0, 814900.0, 5.5, 30.0);
(846200.0, 814900.0, 5.5, 30.0); (846250.0, 814900.0, 5.5, 30.0);
(846300.0, 814900.0, 9.0, 30.0); (846350.0, 814900.0, 10.0, 30.0);
(846400.0, 814900.0, 10.0, 30.0); (846450.0, 814900.0, 10.0, 30.0);

1 *** ISCS T3 - VERSION 02035 *** *** benzene at ground level ASR *** 01/28/08
*** 18:53:5

**MODELOPTS: PAGE 1
CONC RURAL ELEV FLGPOL GRDRIS MSGPRO

*** DISCRETE CARTESIAN RECEPTORS **
(X-COORD, Y-COORD, ZELEV, ZFLAG
(METERS

(846500.0, 814900.0, 10.0, 30.0); (846550.0, 814900.0, 10.0, 30.0);
(846600.0, 814900.0, 10.0, 30.0); (846650.0, 814900.0, 58.0, 30.0);
(846700.0, 814900.0, 78.2, 30.0); (846750.0, 814900.0, 93.2, 30.0);
(846800.0, 814900.0, 106.0, 30.0); (846850.0, 814900.0, 77.6, 30.0);
(846900.0, 814900.0, 67.4, 30.0); (846950.0, 814900.0, 49.8, 30.0);
(847000.0, 814900.0, 36.4, 30.0); (847050.0, 814900.0, 30.0, 30.0);
(847100.0, 814900.0, 30.3, 30.0); (847150.0, 814900.0, 45.6, 30.0);
(847200.0, 814900.0, 60.5, 30.0); (847250.0, 814900.0, 70.6, 30.0);
(847300.0, 814900.0, 76.5, 30.0); (847350.0, 814900.0, 103.8, 30.0);
(847400.0, 814900.0, 117.8, 30.0); (847450.0, 814900.0, 127.0, 30.0);
(845500.0, 814950.0, 0.0, 30.0); (845550.0, 814950.0, 0.7, 30.0);
(845600.0, 814950.0, 1.5, 30.0); (845650.0, 814950.0, 2.2, 30.0);
(845700.0, 814950.0, 2.9, 30.0); (845750.0, 814950.0, 3.6, 30.0);
(845800.0, 814950.0, 4.0, 30.0); (845850.0, 814950.0, 4.0, 30.0);
(845900.0, 814950.0, 5.5, 30.0); (845950.0, 814950.0, 5.5, 30.0);
(846000.0, 814950.0, 5.5, 30.0); (846050.0, 814950.0, 5.5, 30.0);
(846100.0, 814950.0, 5.5, 30.0); (846150.0, 814950.0, 5.5, 30.0);
(846200.0, 814950.0, 5.5, 30.0); (846250.0, 814950.0, 5.5, 30.0);
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(846900.0, 814950.0, 65.1, 30.0); (846950.0, 814950.0, 55.1, 30.0);
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(847200.0, 814950.0, 74.7, 30.0); (847250.0, 814950.0, 94.5, 30.0);
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( 846900.0, 815000.0, 75.1, 30.0); ( 846950.0, 815000.0, 57.2, 30.0);
1 *** ISCS T3 - VERSION 02035 *** *** benzene at ground level ASR *** 01/28/08
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*** 18:53:5
**MODELOPTs: PAGE 1
CONC RURAL ELEV FLGPOL GRDRIS MSGPRO

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*** DISCRETE CARTESIAN RECEPTORS **
(X-COORD, Y-COORD, ZELEV, ZFLAG
(METERS

```

( 847000.0, 815000.0, 45.5, 30.0); ( 847050.0, 815000.0, 48.5, 30.0);
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( 847300.0, 815000.0, 120.6, 30.0); ( 847350.0, 815000.0, 128.5, 30.0);
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( 845600.0, 815050.0, 3.3, 30.0); ( 845650.0, 815050.0, 3.2, 30.0);
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( 845800.0, 815050.0, 4.4, 30.0); ( 845850.0, 815050.0, 5.5, 30.0);
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( 846800.0, 815050.0, 89.9, 30.0); ( 846850.0, 815050.0, 86.2, 30.0);
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( 847100.0, 815050.0, 77.8, 30.0); ( 847150.0, 815050.0, 92.0, 30.0);
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( 847200.0, 815100.0, 130.1, 30.0); ( 847250.0, 815100.0, 141.0, 30.0);
( 847300.0, 815100.0, 160.4, 30.0); ( 847350.0, 815100.0, 175.2, 30.0);
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1 *** ISCS T3 - VERSION 02035 *** *** benzene at ground level ASR *** 01/28/08
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*** 18:53:5
**MODELOPTs: PAGE 1
CONC RURAL ELEV FLGPOL GRDRIS MSGPRO

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*** DISCRETE CARTESIAN RECEPTORS **
(X-COORD, Y-COORD, ZELEV, ZFLAG
(METERS

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( 845500.0, 815150.0, 0.0, 30.0); ( 845550.0, 815150.0, 2.9, 30.0);
( 845600.0, 815150.0, 3.3, 30.0); ( 845650.0, 815150.0, 3.7, 30.0);
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( 845800.0, 815150.0, 3.8, 30.0); ( 845850.0, 815150.0, 5.5, 30.0);
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 (845900.0, 815250.0, 10.2, 30.0); (845950.0, 815250.0, 8.2, 30.0);

1 *** ICSCT3 - VERSION 02035 *** *** benzene at ground level ASR *** 01/28/06
 *** 18:53:5

**MODELOPTS: PAGE 2
 CONC RURAL ELEV FLGPOL GRDRIS MSGPRO

*** DISCRETE CARTESIAN RECEPTORS **
 (X-COORD, Y-COORD, ZELEV, ZFLAG
 (METERS

(846000.0, 815250.0, 9.8, 30.0); (846050.0, 815250.0, 12.4, 30.0);
 (846100.0, 815250.0, 10.2, 30.0); (846150.0, 815250.0, 7.9, 30.0);
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 (845600.0, 815300.0, 41.7, 30.0); (845650.0, 815300.0, 51.3, 30.0);
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 (846000.0, 815350.0, 6.9, 30.0); (846050.0, 815350.0, 4.3, 30.0);
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1 *** ICSCT3 - VERSION 02035 *** *** benzene at ground level ASR *** 01/28/06
 *** 18:53:5

**MODELOPTS: PAGE 2
 CONC RURAL ELEV FLGPOL GRDRIS MSGPRO

*** DISCRETE CARTESIAN RECEPTORS **
 (X-COORD, Y-COORD, ZELEV, ZFLAG
 (METERS

(846500.0, 815350.0, 47.0, 30.0); (846550.0, 815350.0, 56.9, 30.0);
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 (846800.0, 815350.0, 98.8, 30.0); (846850.0, 815350.0, 101.3, 30.0);
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 (847200.0, 815350.0, 187.1, 30.0); (847250.0, 815350.0, 214.1, 30.0);
 (847300.0, 815350.0, 240.0, 30.0); (847350.0, 815350.0, 266.4, 30.0);

(847400.0, 815350.0, 264.6, 30.0);	(847450.0, 815350.0, 65.7, 30.0);
(845500.0, 815400.0, 0.0, 30.0);	(845550.0, 815400.0, 73.6, 30.0);
(845600.0, 815400.0, 70.6, 30.0);	(845650.0, 815400.0, 79.6, 30.0);
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(845800.0, 815400.0, 74.8, 30.0);	(845850.0, 815400.0, 41.8, 30.0);
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(846600.0, 815400.0, 82.6, 30.0);	(846650.0, 815400.0, 88.5, 30.0);
(846700.0, 815400.0, 92.5, 30.0);	(846750.0, 815400.0, 96.1, 30.0);
(846800.0, 815400.0, 99.9, 30.0);	(846850.0, 815400.0, 105.1, 30.0);
(846900.0, 815400.0, 109.1, 30.0);	(846950.0, 815400.0, 151.3, 30.0);
(847000.0, 815400.0, 203.0, 30.0);	(847050.0, 815400.0, 126.7, 30.0);
(847100.0, 815400.0, 144.4, 30.0);	(847150.0, 815400.0, 163.0, 30.0);
(847200.0, 815400.0, 190.6, 30.0);	(847250.0, 815400.0, 218.0, 30.0);
(847300.0, 815400.0, 239.9, 30.0);	(847350.0, 815400.0, 247.6, 30.0);
(847400.0, 815400.0, 234.2, 30.0);	(847450.0, 815400.0, 69.5, 30.0);
(845500.0, 815450.0, 0.0, 30.0);	(845550.0, 815450.0, 52.5, 30.0);
(845600.0, 815450.0, 58.9, 30.0);	(845650.0, 815450.0, 82.9, 30.0);
(845700.0, 815450.0, 94.5, 30.0);	(845750.0, 815450.0, 94.9, 30.0);
(845800.0, 815450.0, 70.1, 30.0);	(845850.0, 815450.0, 42.6, 30.0);
(845900.0, 815450.0, 20.8, 30.0);	(845950.0, 815450.0, 10.7, 30.0);
(846000.0, 815450.0, 5.4, 30.0);	(846050.0, 815450.0, 5.6, 30.0);
(846100.0, 815450.0, 5.3, 30.0);	(846150.0, 815450.0, 4.7, 30.0);
(846200.0, 815450.0, 5.4, 30.0);	(846250.0, 815450.0, 8.3, 30.0);
(846300.0, 815450.0, 28.3, 30.0);	(846350.0, 815450.0, 51.9, 30.0);
(846400.0, 815450.0, 70.7, 30.0);	(846450.0, 815450.0, 78.2, 30.0);
(846500.0, 815450.0, 80.8, 30.0);	(846550.0, 815450.0, 84.5, 30.0);
(846600.0, 815450.0, 89.1, 30.0);	(846650.0, 815450.0, 93.2, 30.0);
(846700.0, 815450.0, 98.2, 30.0);	(846750.0, 815450.0, 102.4, 30.0);
(846800.0, 815450.0, 107.9, 30.0);	(846850.0, 815450.0, 110.3, 30.0);
(846900.0, 815450.0, 119.3, 30.0);	(846950.0, 815450.0, 155.6, 30.0);

1 *** ISCST3 - VERSION 02035 *** *** benzene at ground level ASR *** 01/28/06
 *** 18:53:5

**MODELOPTs: PAGE 2
 CONC RURAL ELEV FLGPOL GRDRIS MSGPRO

*** DISCRETE CARTESIAN RECEPTORS **
 (X-COORD, Y-COORD, ZELEV, ZFLAG
 (METERS

(847000.0, 815450.0, 198.1, 30.0);	(847050.0, 815450.0, 113.0, 30.0);
(847100.0, 815450.0, 135.6, 30.0);	(847150.0, 815450.0, 157.1, 30.0);
(847200.0, 815450.0, 183.3, 30.0);	(847250.0, 815450.0, 202.7, 30.0);
(847300.0, 815450.0, 220.5, 30.0);	(847350.0, 815450.0, 223.6, 30.0);
(847400.0, 815450.0, 208.4, 30.0);	(847450.0, 815450.0, 73.5, 30.0);
(845500.0, 815500.0, 0.0, 30.0);	(845550.0, 815500.0, 41.7, 30.0);
(845600.0, 815500.0, 62.8, 30.0);	(845650.0, 815500.0, 81.3, 30.0);
(845700.0, 815500.0, 92.3, 30.0);	(845750.0, 815500.0, 86.3, 30.0);
(845800.0, 815500.0, 68.7, 30.0);	(845850.0, 815500.0, 58.1, 30.0);
(845900.0, 815500.0, 37.6, 30.0);	(845950.0, 815500.0, 23.1, 30.0);
(846000.0, 815500.0, 6.0, 30.0);	(846050.0, 815500.0, 5.4, 30.0);
(846100.0, 815500.0, 5.2, 30.0);	(846150.0, 815500.0, 5.0, 30.0);
(846200.0, 815500.0, 5.2, 30.0);	(846250.0, 815500.0, 8.6, 30.0);
(846300.0, 815500.0, 28.8, 30.0);	(846350.0, 815500.0, 53.6, 30.0);
(846400.0, 815500.0, 70.7, 30.0);	(846450.0, 815500.0, 88.5, 30.0);
(846500.0, 815500.0, 93.1, 30.0);	(846550.0, 815500.0, 95.8, 30.0);
(846600.0, 815500.0, 97.5, 30.0);	(846650.0, 815500.0, 101.5, 30.0);
(846700.0, 815500.0, 106.3, 30.0);	(846750.0, 815500.0, 111.8, 30.0);
(846800.0, 815500.0, 117.1, 30.0);	(846850.0, 815500.0, 118.1, 30.0);
(846900.0, 815500.0, 126.1, 30.0);	(846950.0, 815500.0, 149.1, 30.0);
(847000.0, 815500.0, 183.6, 30.0);	(847050.0, 815500.0, 205.2, 30.0);
(847100.0, 815500.0, 120.4, 30.0);	(847150.0, 815500.0, 136.9, 30.0);
(847200.0, 815500.0, 152.9, 30.0);	(847250.0, 815500.0, 177.6, 30.0);
(847300.0, 815500.0, 192.5, 30.0);	(847350.0, 815500.0, 185.9, 30.0);
(847400.0, 815500.0, 177.5, 30.0);	(847450.0, 815500.0, 77.2, 30.0);
(845500.0, 815550.0, 0.0, 30.0);	(845550.0, 815550.0, 44.3, 30.0);
(845600.0, 815550.0, 46.5, 30.0);	(845650.0, 815550.0, 62.5, 30.0);
(845700.0, 815550.0, 72.5, 30.0);	(845750.0, 815550.0, 82.2, 30.0);
(845800.0, 815550.0, 76.7, 30.0);	(845850.0, 815550.0, 73.5, 30.0);
(845900.0, 815550.0, 47.9, 30.0);	(845950.0, 815550.0, 25.9, 30.0);
(846000.0, 815550.0, 12.0, 30.0);	(846050.0, 815550.0, 5.3, 30.0);
(846100.0, 815550.0, 5.2, 30.0);	(846150.0, 815550.0, 5.0, 30.0);
(846200.0, 815550.0, 5.3, 30.0);	(846250.0, 815550.0, 8.7, 30.0);
(846300.0, 815550.0, 27.1, 30.0);	(846350.0, 815550.0, 46.5, 30.0);
(846400.0, 815550.0, 68.7, 30.0);	(846450.0, 815550.0, 87.6, 30.0);
(846500.0, 815550.0, 98.0, 30.0);	(846550.0, 815550.0, 103.5, 30.0);
(846600.0, 815550.0, 104.0, 30.0);	(846650.0, 815550.0, 109.1, 30.0);
(846700.0, 815550.0, 114.6, 30.0);	(846750.0, 815550.0, 118.5, 30.0);
(846800.0, 815550.0, 121.4, 30.0);	(846850.0, 815550.0, 126.2, 30.0);
(846900.0, 815550.0, 132.1, 30.0);	(846950.0, 815550.0, 139.9, 30.0);
(847000.0, 815550.0, 154.9, 30.0);	(847050.0, 815550.0, 181.9, 30.0);
(847100.0, 815550.0, 207.3, 30.0);	(847150.0, 815550.0, 109.0, 30.0);
(847200.0, 815550.0, 127.1, 30.0);	(847250.0, 815550.0, 145.2, 30.0);
(847300.0, 815550.0, 154.1, 30.0);	(847350.0, 815550.0, 151.8, 30.0);
(847400.0, 815550.0, 147.6, 30.0);	(847450.0, 815550.0, 81.1, 30.0);

1 *** ISCST3 - VERSION 02035 *** *** benzene at ground level ASR *** 01/28/06
 *** 18:53:5

**MODELOPTs: PAGE 2
 CONC RURAL ELEV FLGPOL GRDRIS MSGPRO

*** DISCRETE CARTESIAN RECEPTORS **
 (X-COORD, Y-COORD, ZELEV, ZFLAG

(METERS)

(845500.0, 815600.0, 0.0, 30.0);	(845550.0, 815600.0, 22.3, 30.0);
(845600.0, 815600.0, 48.1, 30.0);	(845650.0, 815600.0, 54.7, 30.0);
(845700.0, 815600.0, 64.6, 30.0);	(845750.0, 815600.0, 70.3, 30.0);
(845800.0, 815600.0, 82.6, 30.0);	(845850.0, 815600.0, 69.4, 30.0);
(845900.0, 815600.0, 46.1, 30.0);	(845950.0, 815600.0, 26.3, 30.0);
(846000.0, 815600.0, 11.4, 30.0);	(846050.0, 815600.0, 5.1, 30.0);
(846100.0, 815600.0, 5.2, 30.0);	(846150.0, 815600.0, 5.1, 30.0);
(846200.0, 815600.0, 5.2, 30.0);	(846250.0, 815600.0, 8.4, 30.0);
(846300.0, 815600.0, 26.4, 30.0);	(846350.0, 815600.0, 46.5, 30.0);
(846400.0, 815600.0, 70.7, 30.0);	(846450.0, 815600.0, 89.0, 30.0);
(846500.0, 815600.0, 99.7, 30.0);	(846550.0, 815600.0, 109.4, 30.0);
(846600.0, 815600.0, 116.9, 30.0);	(846650.0, 815600.0, 117.6, 30.0);
(846700.0, 815600.0, 122.0, 30.0);	(846750.0, 815600.0, 124.6, 30.0);
(846800.0, 815600.0, 129.2, 30.0);	(846850.0, 815600.0, 128.4, 30.0);
(846900.0, 815600.0, 137.4, 30.0);	(846950.0, 815600.0, 148.5, 30.0);
(847000.0, 815600.0, 153.9, 30.0);	(847050.0, 815600.0, 155.6, 30.0);
(847100.0, 815600.0, 173.7, 30.0);	(847150.0, 815600.0, 172.3, 30.0);
(847200.0, 815600.0, 175.3, 30.0);	(847250.0, 815600.0, 112.9, 30.0);
(847300.0, 815600.0, 123.0, 30.0);	(847350.0, 815600.0, 129.7, 30.0);
(847400.0, 815600.0, 121.8, 30.0);	(847450.0, 815600.0, 85.0, 30.0);
(845500.0, 815650.0, 0.0, 30.0);	(845550.0, 815650.0, 2.0, 30.0);
(845600.0, 815650.0, 18.0, 30.0);	(845650.0, 815650.0, 30.1, 30.0);
(845700.0, 815650.0, 44.3, 30.0);	(845750.0, 815650.0, 62.2, 30.0);
(845800.0, 815650.0, 68.7, 30.0);	(845850.0, 815650.0, 61.0, 30.0);
(845900.0, 815650.0, 41.9, 30.0);	(845950.0, 815650.0, 19.6, 30.0);
(846000.0, 815650.0, 5.1, 30.0);	(846050.0, 815650.0, 5.2, 30.0);
(846100.0, 815650.0, 5.4, 30.0);	(846150.0, 815650.0, 5.2, 30.0);
(846200.0, 815650.0, 5.4, 30.0);	(846250.0, 815650.0, 6.6, 30.0);
(846300.0, 815650.0, 21.0, 30.0);	(846350.0, 815650.0, 47.4, 30.0);
(846400.0, 815650.0, 72.0, 30.0);	(846450.0, 815650.0, 88.2, 30.0);
(846500.0, 815650.0, 100.0, 30.0);	(846550.0, 815650.0, 112.3, 30.0);
(846600.0, 815650.0, 116.3, 30.0);	(846650.0, 815650.0, 120.7, 30.0);
(846700.0, 815650.0, 121.8, 30.0);	(846750.0, 815650.0, 127.2, 30.0);
(846800.0, 815650.0, 133.2, 30.0);	(846850.0, 815650.0, 125.6, 30.0);
(846900.0, 815650.0, 125.5, 30.0);	(846950.0, 815650.0, 133.4, 30.0);
(847000.0, 815650.0, 143.5, 30.0);	(847050.0, 815650.0, 146.2, 30.0);
(847100.0, 815650.0, 144.0, 30.0);	(847150.0, 815650.0, 154.9, 30.0);
(847200.0, 815650.0, 159.4, 30.0);	(847250.0, 815650.0, 89.9, 30.0);
(847300.0, 815650.0, 99.8, 30.0);	(847350.0, 815650.0, 107.1, 30.0);
(847400.0, 815650.0, 107.4, 30.0);	(847450.0, 815650.0, 88.8, 30.0);
(845500.0, 815700.0, 0.0, 30.0);	(845550.0, 815700.0, 1.4, 30.0);
(845600.0, 815700.0, 9.2, 30.0);	(845650.0, 815700.0, 17.4, 30.0);
(845700.0, 815700.0, 41.2, 30.0);	(845750.0, 815700.0, 49.6, 30.0);
(845800.0, 815700.0, 44.5, 30.0);	(845850.0, 815700.0, 39.3, 30.0);
(845900.0, 815700.0, 25.4, 30.0);	(845950.0, 815700.0, 8.3, 30.0);

1 *** ICSCT3 - VERSION 02035 *** *** benzene at ground level ASR *** 01/28/06
 *** 18:53:5

**MODELOPTs: RURAL ELEV FLGPOL GRDRIS MSGPRO PAGE 2
 CONC

*** DISCRETE CARTESIAN RECEPTORS **
 (X-COORD, Y-COORD, ZELEV, ZFLAG)
 (METERS)

(846000.0, 815700.0, 5.4, 30.0);	(846050.0, 815700.0, 5.5, 30.0);
(846100.0, 815700.0, 5.3, 30.0);	(846150.0, 815700.0, 5.2, 30.0);
(846200.0, 815700.0, 5.1, 30.0);	(846250.0, 815700.0, 5.1, 30.0);
(846300.0, 815700.0, 9.4, 30.0);	(846350.0, 815700.0, 42.5, 30.0);
(846400.0, 815700.0, 68.6, 30.0);	(846450.0, 815700.0, 82.8, 30.0);
(846500.0, 815700.0, 90.4, 30.0);	(846550.0, 815700.0, 97.9, 30.0);
(846600.0, 815700.0, 101.3, 30.0);	(846650.0, 815700.0, 106.2, 30.0);
(846700.0, 815700.0, 110.4, 30.0);	(846750.0, 815700.0, 113.7, 30.0);
(846800.0, 815700.0, 121.2, 30.0);	(846850.0, 815700.0, 122.3, 30.0);
(846900.0, 815700.0, 120.3, 30.0);	(846950.0, 815700.0, 115.9, 30.0);
(847000.0, 815700.0, 123.9, 30.0);	(847050.0, 815700.0, 131.9, 30.0);
(847100.0, 815700.0, 129.1, 30.0);	(847150.0, 815700.0, 132.2, 30.0);
(847200.0, 815700.0, 142.9, 30.0);	(847250.0, 815700.0, 149.9, 30.0);
(847300.0, 815700.0, 163.4, 30.0);	(847350.0, 815700.0, 91.0, 30.0);
(847400.0, 815700.0, 102.6, 30.0);	(847450.0, 815700.0, 92.7, 30.0);
(845500.0, 815750.0, 0.0, 30.0);	(845550.0, 815750.0, 1.7, 30.0);
(845600.0, 815750.0, 3.5, 30.0);	(845650.0, 815750.0, 22.2, 30.0);
(845700.0, 815750.0, 45.1, 30.0);	(845750.0, 815750.0, 49.5, 30.0);
(845800.0, 815750.0, 38.8, 30.0);	(845850.0, 815750.0, 19.3, 30.0);
(845900.0, 815750.0, 11.6, 30.0);	(845950.0, 815750.0, 7.0, 30.0);
(846000.0, 815750.0, 5.6, 30.0);	(846050.0, 815750.0, 5.5, 30.0);
(846100.0, 815750.0, 5.3, 30.0);	(846150.0, 815750.0, 5.1, 30.0);
(846200.0, 815750.0, 5.0, 30.0);	(846250.0, 815750.0, 5.6, 30.0);
(846300.0, 815750.0, 7.5, 30.0);	(846350.0, 815750.0, 33.0, 30.0);
(846400.0, 815750.0, 57.3, 30.0);	(846450.0, 815750.0, 70.6, 30.0);
(846500.0, 815750.0, 75.2, 30.0);	(846550.0, 815750.0, 78.5, 30.0);
(846600.0, 815750.0, 82.6, 30.0);	(846650.0, 815750.0, 89.9, 30.0);
(846700.0, 815750.0, 98.6, 30.0);	(846750.0, 815750.0, 107.8, 30.0);
(846800.0, 815750.0, 115.8, 30.0);	(846850.0, 815750.0, 113.7, 30.0);
(846900.0, 815750.0, 107.7, 30.0);	(846950.0, 815750.0, 103.0, 30.0);
(847000.0, 815750.0, 104.8, 30.0);	(847050.0, 815750.0, 111.3, 30.0);
(847100.0, 815750.0, 115.8, 30.0);	(847150.0, 815750.0, 114.1, 30.0);
(847200.0, 815750.0, 109.8, 30.0);	(847250.0, 815750.0, 128.1, 30.0);
(847300.0, 815750.0, 164.5, 30.0);	(847350.0, 815750.0, 100.2, 30.0);
(847400.0, 815750.0, 111.2, 30.0);	(847450.0, 815750.0, 96.5, 30.0);
(845500.0, 815800.0, 0.0, 30.0);	(845550.0, 815800.0, 1.8, 30.0);
(845600.0, 815800.0, 11.5, 30.0);	(845650.0, 815800.0, 35.4, 30.0);
(845700.0, 815800.0, 55.7, 30.0);	(845750.0, 815800.0, 50.1, 30.0);
(845800.0, 815800.0, 31.4, 30.0);	(845850.0, 815800.0, 9.6, 30.0);
(845900.0, 815800.0, 5.7, 30.0);	(845950.0, 815800.0, 5.7, 30.0);
(846000.0, 815800.0, 5.6, 30.0);	(846050.0, 815800.0, 5.5, 30.0);
(846100.0, 815800.0, 5.3, 30.0);	(846150.0, 815800.0, 5.2, 30.0);

(846200.0, 815800.0, 5.5, 30.0); (846250.0, 815800.0, 6.2, 30.0);
 (846300.0, 815800.0, 6.6, 30.0); (846350.0, 815800.0, 24.7, 30.0);
 (846400.0, 815800.0, 40.3, 30.0); (846450.0, 815800.0, 48.3, 30.0);
 1 *** ISCS T3 - VERSION 02035 *** *** benzene at ground level ASR *** 01/28/06
 *** 18:53:5

**MODELOPTs: PAGE 2
 CONC RURAL ELEV FLGPOL GRDRIS MSGPRO

*** DISCRETE CARTESIAN RECEPTORS **
 (X-COORD, Y-COORD, ZELEV, ZFLAG
 (METERS

(846500.0, 815800.0, 56.3, 30.0); (846550.0, 815800.0, 62.6, 30.0);
 (846600.0, 815800.0, 69.4, 30.0); (846650.0, 815800.0, 80.5, 30.0);
 (846700.0, 815800.0, 91.8, 30.0); (846750.0, 815800.0, 103.9, 30.0);
 (846800.0, 815800.0, 107.9, 30.0); (846850.0, 815800.0, 104.3, 30.0);
 (846900.0, 815800.0, 98.2, 30.0); (846950.0, 815800.0, 92.0, 30.0);
 (847000.0, 815800.0, 87.8, 30.0); (847050.0, 815800.0, 91.0, 30.0);
 (847100.0, 815800.0, 97.3, 30.0); (847150.0, 815800.0, 109.1, 30.0);
 (847200.0, 815800.0, 113.8, 30.0); (847250.0, 815800.0, 138.2, 30.0);
 (847300.0, 815800.0, 167.3, 30.0); (847350.0, 815800.0, 135.0, 30.0);
 (847400.0, 815800.0, 112.7, 30.0); (847450.0, 815800.0, 100.4, 30.0);
 (845500.0, 815850.0, 0.0, 30.0); (845550.0, 815850.0, 1.8, 30.0);
 (845600.0, 815850.0, 8.9, 30.0); (845650.0, 815850.0, 33.6, 30.0);
 (845700.0, 815850.0, 40.8, 30.0); (845750.0, 815850.0, 38.8, 30.0);
 (845800.0, 815850.0, 17.1, 30.0); (845850.0, 815850.0, 5.6, 30.0);
 (845900.0, 815850.0, 5.7, 30.0); (845950.0, 815850.0, 5.7, 30.0);
 (846000.0, 815850.0, 5.6, 30.0); (846050.0, 815850.0, 5.5, 30.0);
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1 *** ISCS T3 - VERSION 02035 *** *** benzene at ground level ASR *** 01/28/06
 *** 18:53:5

**MODELOPTs: PAGE 2
 CONC RURAL ELEV FLGPOL GRDRIS MSGPRO

*** DISCRETE CARTESIAN RECEPTORS **
 (X-COORD, Y-COORD, ZELEV, ZFLAG
 (METERS

(847000.0, 815900.0, 100.7, 30.0); (847050.0, 815900.0, 114.9, 30.0);
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1 *** ISCS T3 - VERSION 02035 *** *** benzene at ground level ASR *** 01/28/08

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*** 18:53:5
**MODELOPTs: PAGE 2
CONC RURAL ELEV FLGPOL GRDRIS MSGPRO

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*** DISCRETE CARTESIAN RECEPTORS **
(X-COORD, Y-COORD, ZELEV, ZFLAG
(METERS

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1 *** ISCS T3 - VERSION 02035 *** *** benzene at ground level ASR *** 01/28/08

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*** 18:53:5
**MODELOPTs: PAGE 2
CONC RURAL ELEV FLGPOL GRDRIS MSGPRO

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*** DISCRETE CARTESIAN RECEPTORS **
(X-COORD, Y-COORD, ZELEV, ZFLAG
(METERS

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1 *** ISCS T3 - VERSION 02035 *** *** benzene at ground level ASR *** 01/28/06
 *** 18:53:5

**MODELOPTS: PAGE 2
 CONC RURAL ELEV FLGPOL GRDRIS MSGPRO

*** DISCRETE CARTESIAN RECEPTORS **
 (X-COORD, Y-COORD, ZELEV, ZFLAG
 (METERS

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 (847200.0, 816250.0, 168.1, 30.0); (847250.0, 816250.0, 183.7, 30.0);
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 (847400.0, 816250.0, 156.8, 30.0); (847450.0, 816250.0, 0.0, 30.0);
 (845500.0, 816300.0, 0.0, 30.0); (845550.0, 816300.0, 0.9, 30.0);
 (845600.0, 816300.0, 1.8, 30.0); (845650.0, 816300.0, 2.8, 30.0);
 (845700.0, 816300.0, 3.9, 30.0); (845750.0, 816300.0, 4.5, 30.0);
 (845800.0, 816300.0, 4.2, 30.0); (845850.0, 816300.0, 4.6, 30.0);
 (845900.0, 816300.0, 5.0, 30.0); (845950.0, 816300.0, 4.7, 30.0);
 (846000.0, 816300.0, 4.4, 30.0); (846050.0, 816300.0, 4.3, 30.0);
 (846100.0, 816300.0, 4.1, 30.0); (846150.0, 816300.0, 4.4, 30.0);
 (846200.0, 816300.0, 4.5, 30.0); (846250.0, 816300.0, 4.7, 30.0);
 (846300.0, 816300.0, 5.2, 30.0); (846350.0, 816300.0, 5.3, 30.0);
 (846400.0, 816300.0, 6.1, 30.0); (846450.0, 816300.0, 9.0, 30.0);
 (846500.0, 816300.0, 38.3, 30.0); (846550.0, 816300.0, 57.5, 30.0);
 (846600.0, 816300.0, 51.2, 30.0); (846650.0, 816300.0, 62.9, 30.0);
 (846700.0, 816300.0, 76.1, 30.0); (846750.0, 816300.0, 94.8, 30.0);
 (846800.0, 816300.0, 108.8, 30.0); (846850.0, 816300.0, 127.7, 30.0);
 (846900.0, 816300.0, 139.6, 30.0); (846950.0, 816300.0, 155.8, 30.0);
 (847000.0, 816300.0, 178.6, 30.0); (847050.0, 816300.0, 208.2, 30.0);
 (847100.0, 816300.0, 210.7, 30.0); (847150.0, 816300.0, 139.1, 30.0);
 (847200.0, 816300.0, 158.8, 30.0); (847250.0, 816300.0, 175.1, 30.0);
 (847300.0, 816300.0, 167.3, 30.0); (847350.0, 816300.0, 155.8, 30.0);
 (847400.0, 816300.0, 139.2, 30.0); (847450.0, 816300.0, 0.0, 30.0);
 (845500.0, 816350.0, 0.0, 30.0); (845550.0, 816350.0, 0.9, 30.0);
 (845600.0, 816350.0, 1.8, 30.0); (845650.0, 816350.0, 2.7, 30.0);
 (845700.0, 816350.0, 3.6, 30.0); (845750.0, 816350.0, 4.6, 30.0);
 (845800.0, 816350.0, 4.3, 30.0); (845850.0, 816350.0, 4.4, 30.0);
 (845900.0, 816350.0, 4.7, 30.0); (845950.0, 816350.0, 5.1, 30.0);
 (846000.0, 816350.0, 4.4, 30.0); (846050.0, 816350.0, 3.9, 30.0);
 (846100.0, 816350.0, 4.0, 30.0); (846150.0, 816350.0, 4.6, 30.0);
 (846200.0, 816350.0, 4.8, 30.0); (846250.0, 816350.0, 5.3, 30.0);
 (846300.0, 816350.0, 5.3, 30.0); (846350.0, 816350.0, 5.3, 30.0);
 (846400.0, 816350.0, 5.2, 30.0); (846450.0, 816350.0, 14.4, 30.0);
 (846500.0, 816350.0, 43.4, 30.0); (846550.0, 816350.0, 59.0, 30.0);
 (846600.0, 816350.0, 65.8, 30.0); (846650.0, 816350.0, 59.9, 30.0);
 (846700.0, 816350.0, 53.7, 30.0); (846750.0, 816350.0, 118.0, 30.0);
 (846800.0, 816350.0, 121.6, 30.0); (846850.0, 816350.0, 135.4, 30.0);
 (846900.0, 816350.0, 146.7, 30.0); (846950.0, 816350.0, 164.6, 30.0);

1 *** ISCS T3 - VERSION 02035 *** *** benzene at ground level ASR *** 01/28/06
 *** 18:53:5

**MODELOPTS: PAGE 3
 CONC RURAL ELEV FLGPOL GRDRIS MSGPRO

*** DISCRETE CARTESIAN RECEPTORS **
 (X-COORD, Y-COORD, ZELEV, ZFLAG
 (METERS

(847000.0, 816350.0, 196.8, 30.0); (847050.0, 816350.0, 212.8, 30.0);
 (847100.0, 816350.0, 122.5, 30.0); (847150.0, 816350.0, 146.1, 30.0);
 (847200.0, 816350.0, 168.8, 30.0); (847250.0, 816350.0, 173.0, 30.0);
 (847300.0, 816350.0, 148.6, 30.0); (847350.0, 816350.0, 132.6, 30.0);
 (847400.0, 816350.0, 118.1, 30.0); (847450.0, 816350.0, 0.0, 30.0);
 (845500.0, 816400.0, 0.0, 30.0); (845550.0, 816400.0, 0.9, 30.0);
 (845600.0, 816400.0, 1.8, 30.0); (845650.0, 816400.0, 2.7, 30.0);
 (845700.0, 816400.0, 3.5, 30.0); (845750.0, 816400.0, 4.5, 30.0);
 (845800.0, 816400.0, 4.5, 30.0); (845850.0, 816400.0, 4.2, 30.0);

(845900.0, 816400.0, 4.3, 30.0); (845950.0, 816400.0, 4.5, 30.0);
(846000.0, 816400.0, 5.1, 30.0); (846050.0, 816400.0, 4.0, 30.0);
(846100.0, 816400.0, 4.3, 30.0); (846150.0, 816400.0, 5.2, 30.0);
(846200.0, 816400.0, 5.4, 30.0); (846250.0, 816400.0, 5.5, 30.0);
(846300.0, 816400.0, 5.3, 30.0); (846350.0, 816400.0, 5.3, 30.0);
(846400.0, 816400.0, 9.0, 30.0); (846450.0, 816400.0, 18.9, 30.0);
(846500.0, 816400.0, 51.7, 30.0); (846550.0, 816400.0, 75.0, 30.0);
(846600.0, 816400.0, 79.8, 30.0); (846650.0, 816400.0, 81.7, 30.0);
(846700.0, 816400.0, 76.6, 30.0); (846750.0, 816400.0, 82.6, 30.0);
(846800.0, 816400.0, 91.3, 30.0); (846850.0, 816400.0, 92.2, 30.0);
(846900.0, 816400.0, 87.6, 30.0); (846950.0, 816400.0, 180.8, 30.0);
(847000.0, 816400.0, 203.0, 30.0); (847050.0, 816400.0, 220.0, 30.0);
(847100.0, 816400.0, 135.1, 30.0); (847150.0, 816400.0, 145.8, 30.0);
(847200.0, 816400.0, 169.9, 30.0); (847250.0, 816400.0, 166.1, 30.0);
(847300.0, 816400.0, 142.6, 30.0); (847350.0, 816400.0, 117.1, 30.0);
(847400.0, 816400.0, 96.5, 30.0); (847450.0, 816400.0, 0.0, 30.0);
(845500.0, 816450.0, 0.0, 30.0); (845550.0, 816450.0, 0.9, 30.0);
(845600.0, 816450.0, 1.8, 30.0); (845650.0, 816450.0, 2.7, 30.0);
(845700.0, 816450.0, 3.1, 30.0); (845750.0, 816450.0, 3.1, 30.0);
(845800.0, 816450.0, 3.4, 30.0); (845850.0, 816450.0, 4.3, 30.0);
(845900.0, 816450.0, 4.2, 30.0); (845950.0, 816450.0, 3.1, 30.0);
(846000.0, 816450.0, 4.5, 30.0); (846050.0, 816450.0, 4.4, 30.0);
(846100.0, 816450.0, 4.0, 30.0); (846150.0, 816450.0, 3.8, 30.0);
(846200.0, 816450.0, 3.7, 30.0); (846250.0, 816450.0, 5.4, 30.0);
(846300.0, 816450.0, 5.2, 30.0); (846350.0, 816450.0, 4.8, 30.0);
(846400.0, 816450.0, 5.0, 30.0); (846450.0, 816450.0, 13.0, 30.0);
(846500.0, 816450.0, 23.7, 30.0); (846550.0, 816450.0, 47.5, 30.0);
(846600.0, 816450.0, 68.4, 30.0); (846650.0, 816450.0, 89.2, 30.0);
(846700.0, 816450.0, 98.1, 30.0); (846750.0, 816450.0, 113.3, 30.0);
(846800.0, 816450.0, 118.7, 30.0); (846850.0, 816450.0, 125.7, 30.0);
(846900.0, 816450.0, 114.0, 30.0); (846950.0, 816450.0, 114.7, 30.0);
(847000.0, 816450.0, 114.7, 30.0); (847050.0, 816450.0, 120.8, 30.0);
(847100.0, 816450.0, 138.8, 30.0); (847150.0, 816450.0, 158.8, 30.0);
(847200.0, 816450.0, 174.9, 30.0); (847250.0, 816450.0, 173.0, 30.0);
(847300.0, 816450.0, 140.5, 30.0); (847350.0, 816450.0, 112.6, 30.0);
(847400.0, 816450.0, 86.9, 30.0); (847450.0, 816450.0, 0.0, 30.0);

1 *** ISCAST3 - VERSION 02035 *** *** benzene at ground level ASR *** 01/28/06
*** 18:53:5

**MODELOPTS: PAGE 3
CONC RURAL ELEV FLGPOL GRDRIS MSGPRO

*** DISCRETE CARTESIAN RECEPTORS **
(X-COORD, Y-COORD, ZELEV, ZFLAG
(METERS

(845500.0, 816500.0, 0.0, 30.0); (845550.0, 816500.0, 0.0, 30.0);
(845600.0, 816500.0, 0.0, 30.0); (845650.0, 816500.0, 0.0, 30.0);
(845700.0, 816500.0, 0.0, 30.0); (845750.0, 816500.0, 0.0, 30.0);
(845800.0, 816500.0, 0.0, 30.0); (845850.0, 816500.0, 0.0, 30.0);
(845900.0, 816500.0, 0.0, 30.0); (845950.0, 816500.0, 0.0, 30.0);
(846000.0, 816500.0, 0.0, 30.0); (846050.0, 816500.0, 0.0, 30.0);
(846100.0, 816500.0, 0.0, 30.0); (846150.0, 816500.0, 0.0, 30.0);
(846200.0, 816500.0, 0.0, 30.0); (846250.0, 816500.0, 0.0, 30.0);
(846300.0, 816500.0, 0.0, 30.0); (846350.0, 816500.0, 0.0, 30.0);
(846400.0, 816500.0, 0.0, 30.0); (846450.0, 816500.0, 0.0, 30.0);
(846500.0, 816500.0, 0.0, 30.0); (846550.0, 816500.0, 26.0, 30.0);
(846600.0, 816500.0, 37.6, 30.0); (846650.0, 816500.0, 55.7, 30.0);
(846700.0, 816500.0, 82.8, 30.0); (846750.0, 816500.0, 117.3, 30.0);
(846800.0, 816500.0, 141.2, 30.0); (846850.0, 816500.0, 134.7, 30.0);
(846900.0, 816500.0, 139.4, 30.0); (846950.0, 816500.0, 147.7, 30.0);
(847000.0, 816500.0, 142.9, 30.0); (847050.0, 816500.0, 145.2, 30.0);
(847100.0, 816500.0, 142.8, 30.0); (847150.0, 816500.0, 160.5, 30.0);
(847200.0, 816500.0, 153.6, 30.0); (847250.0, 816500.0, 144.7, 30.0);
(847300.0, 816500.0, 135.7, 30.0); (847350.0, 816500.0, 102.4, 30.0);
(847400.0, 816500.0, 74.9, 30.0); (847450.0, 816500.0, 0.0, 30.0);
(846571.1, 814578.9, 6.0, 30.0); (846365.0, 814517.0, 6.0, 30.0);
(846457.9, 814553.9, 6.0, 30.0); (846550.9, 814590.8, 6.0, 30.0);
(846579.0, 814602.0, 6.0, 30.0); (846620.8, 814692.9, 6.0, 30.0);
(846625.0, 814702.0, 6.0, 30.0); (846526.1, 814687.3, 6.0, 30.0);
(846427.2, 814672.6, 6.0, 30.0); (846328.2, 814658.0, 6.0, 30.0);
(846315.0, 814656.0, 6.0, 30.0); (846348.9, 814561.9, 6.0, 30.0);

1 *** ISCAST3 - VERSION 02035 *** *** benzene at ground level ASR *** 01/28/06
*** 18:53:5

**MODELOPTS: PAGE 3
CONC RURAL ELEV FLGPOL GRDRIS MSGPRO

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING **
(1=YES; 0=NO

1111111111 1111111111 1111111111 1111111111 1111111111
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1111111111 1111111111 1111111111 1111111111 1111111111

METEOROLOGICAL DATA PROCESSED BETWEEN START DATE: 2006 1 1
AND END DATE: 2006 12 31 2

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES **
(METERS/SEC

1.54, 3.09, 5.14, 8.23, 10.80

*** WIND PROFILE EXPONENTS **

STABILITY CATEGORY	WIND SPEED CATEGORY				
	1	2	3	4	5
A	.7000E-01	.7000E-01	.7000E-01	.7000E-01	.7000E-01
B	.7000E-01	.7000E-01	.7000E-01	.7000E-01	.7000E-01
C	.1000E+00	.1000E+00	.1000E+00	.1000E+00	.1000E+00
D	.1500E+00	.1500E+00	.1500E+00	.1500E+00	.1500E+00
E	.3500E+00	.3500E+00	.3500E+00	.3500E+00	.3500E+00
F	.5500E+00	.5500E+00	.5500E+00	.5500E+00	.5500E+00

*** VERTICAL POTENTIAL TEMPERATURE GRADIENTS **
(DEGREES KELVIN PER METER)

STABILITY CATEGORY	WIND SPEED CATEGORY				
	1	2	3	4	5
A	.0000E+00	.0000E+00	.0000E+00	.0000E+00	.0000E+00
B	.0000E+00	.0000E+00	.0000E+00	.0000E+00	.0000E+00
C	.0000E+00	.0000E+00	.0000E+00	.0000E+00	.0000E+00
D	.0000E+00	.0000E+00	.0000E+00	.0000E+00	.0000E+00
E	.2000E-01	.2000E-01	.2000E-01	.2000E-01	.2000E-01
F	.3500E-01	.3500E-01	.3500E-01	.3500E-01	.3500E-01

1 *** ISCST3 - VERSION 02035 *** benzene at ground level ASR *** 01/28/06
*** 18:53:5

**MODELOPTS: PAGE 3
CONC RURAL ELEV FLGPOL GRDRIS MSGPRO

*** THE FIRST 24 HOURS OF METEOROLOGICAL DATA **

FILE: H:\WPFILES\KATIE MORONEY\SENT2006.ASC
FORMAT: (4I2,2F9.4,F6.1,I2,2F7.1,f9.4,f10.1,f8.4,i4,f7.2)
SURFACE STATION NO.: 99999 UPPER AIR STATION NO.: 99999
NAME: UNKNOWN NAME: UNKNOWN
YEAR: 2006 YEAR: 2006

FLOW SPEED TEMP STAB MIXING HEIGHT (M) USTAR M-O LENGTH Z-0 IPCODE PRATI
YR MN DY HR VECTOR (M/S) (K) CLASS RURAL URBAN (M/S) (M) (M) (mm/HR)

06 01 01 01 247.0 3.00 292.0 6 600.4 600.4 0.0000 0.0 0.0000 0 0.00
06 01 01 02 237.0 2.40 292.0 5 600.4 600.4 0.0000 0.0 0.0000 0 0.00
06 01 01 03 227.0 1.70 291.0 6 600.4 600.4 0.0000 0.0 0.0000 0 0.00
06 01 01 04 259.0 1.80 291.0 6 600.4 600.4 0.0000 0.0 0.0000 0 0.00
06 01 01 05 218.0 1.60 291.0 5 600.4 600.4 0.0000 0.0 0.0000 0 0.00
06 01 01 06 216.0 1.60 291.0 5 600.4 600.4 0.0000 0.0 0.0000 0 0.00
06 01 01 07 223.0 1.00 291.0 5 600.4 600.4 0.0000 0.0 0.0000 0 0.00
06 01 01 08 267.0 1.10 291.0 6 600.4 600.4 0.0000 0.0 0.0000 0 0.00
06 01 01 09 258.0 1.60 292.0 4 950.7 950.7 0.0000 0.0 0.0000 0 0.00
06 01 01 10 181.0 1.60 295.0 3 950.7 950.7 0.0000 0.0 0.0000 0 0.00
06 01 01 11 267.0 0.60 298.0 2 950.7 950.7 0.0000 0.0 0.0000 0 0.00
06 01 01 12 350.0 5.10 296.0 2 950.7 950.7 0.0000 0.0 0.0000 0 0.00
06 01 01 13 302.0 1.40 299.0 2 950.7 950.7 0.0000 0.0 0.0000 0 0.00
06 01 01 14 341.0 2.20 299.0 2 950.7 950.7 0.0000 0.0 0.0000 0 0.00
06 01 01 15 323.0 1.60 300.0 2 950.7 950.7 0.0000 0.0 0.0000 0 0.00
06 01 01 16 345.0 2.80 296.0 2 950.7 950.7 0.0000 0.0 0.0000 0 0.00
06 01 01 17 316.0 1.10 296.0 4 950.7 950.7 0.0000 0.0 0.0000 0 0.00
06 01 01 18 315.0 1.20 293.0 6 950.7 950.7 0.0000 0.0 0.0000 0 0.00
06 01 01 19 240.0 1.00 292.0 6 950.7 950.7 0.0000 0.0 0.0000 0 0.00
06 01 01 20 221.0 0.60 292.0 6 950.7 950.7 0.0000 0.0 0.0000 0 0.00
06 01 01 21 235.0 1.00 292.0 6 600.4 600.4 0.0000 0.0 0.0000 0 0.00
06 01 01 22 235.0 1.40 292.0 6 600.4 600.4 0.0000 0.0 0.0000 0 0.00
06 01 01 23 221.0 1.90 291.0 5 600.4 600.4 0.0000 0.0 0.0000 0 0.00
06 01 01 24 267.0 2.30 291.0 5 600.4 600.4 0.0000 0.0 0.0000 0 0.00

*** NOTES: STABILITY CLASS 1=A, 2=B, 3=C, 4=D, 5=E AND 6=F
FLOW VECTOR IS DIRECTION TOWARD WHICH WIND IS BLOWING.

1 *** ISCST3 - VERSION 02035 *** benzene at ground level ASR *** 01/28/06
*** 18:53:5

**MODELOPTS: PAGE 3
CONC RURAL ELEV FLGPOL GRDRIS MSGPRO

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL **
INCLUDING SOURCE(S): SRC30 , SRC31 , SRC32 , SRC1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS **

** CONC OF OTHER IN MICROGRAMS/M**3

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
846116.00	814823.00	0.00003	846500.00	814560.00	0.00002
846511.00	814339.00	0.00002	846220.00	815380.00	0.00005
846077.00	815374.00	0.00005	846210.50	815485.00	0.00005
846090.69	815717.94	0.00004	846139.44	815840.12	0.00004
846324.62	815907.00	0.00006	846373.00	816033.19	0.00005
846116.00	814823.00	0.00003	846500.00	814560.00	0.00007
846511.00	814339.00	0.00003	846220.00	815380.00	0.00006
846077.00	815374.00	0.00005	846210.50	815485.00	0.00005
846090.69	815717.94	0.00004	846139.44	815840.12	0.00004

846324.62	815907.00	0.00006	846373.00	816033.19	0.00006
846116.00	814823.00	0.00005	846500.00	814560.00	0.00041
846511.00	814339.00	0.00006	846220.00	815380.00	0.00006
846077.00	815374.00	0.00007	846210.50	815485.00	0.00006
846090.69	815717.94	0.00005	846139.44	815840.12	0.00005
846324.62	815907.00	0.00008	846373.00	816033.19	0.00008
846116.00	814823.00	0.00009	846500.00	814560.00	0.00200
846511.00	814339.00	0.00012	846220.00	815380.00	0.00008
846077.00	815374.00	0.00011	846210.50	815485.00	0.00008
846090.69	815717.94	0.00006	846139.44	815840.12	0.00006
845881.00	815902.62	0.00006	845648.94	816016.62	0.00007
846324.62	815907.00	0.00013	846373.00	816033.19	0.00011
845500.00	813500.00	0.00006	845550.00	813500.00	0.00006
845600.00	813500.00	0.00007	845650.00	813500.00	0.00007
845700.00	813500.00	0.00008	845750.00	813500.00	0.00008
845800.00	813500.00	0.00009	845850.00	813500.00	0.00010
845900.00	813500.00	0.00011	845950.00	813500.00	0.00011
846000.00	813500.00	0.00011	846050.00	813500.00	0.00011
846100.00	813500.00	0.00011	846150.00	813500.00	0.00010
846200.00	813500.00	0.00009	846250.00	813500.00	0.00008
846300.00	813500.00	0.00007	846350.00	813500.00	0.00006
846400.00	813500.00	0.00005	846450.00	813500.00	0.00004
846500.00	813500.00	0.00003	846550.00	813500.00	0.00002
846600.00	813500.00	0.00002	846650.00	813500.00	0.00001
846700.00	813500.00	0.00001	846750.00	813500.00	0.00001
846800.00	813500.00	0.00001	846850.00	813500.00	0.00001
846900.00	813500.00	0.00001	846950.00	813500.00	0.00001
847000.00	813500.00	0.00001	847050.00	813500.00	0.00001
847100.00	813500.00	0.00001	847150.00	813500.00	0.00001
847200.00	813500.00	0.00001	847250.00	813500.00	0.00001
847300.00	813500.00	0.00001	847350.00	813500.00	0.00001

1 *** ISCST3 - VERSION 02035 *** *** benzene at ground level ASR *** 01/28/06

*** 18:53:5

**MODELOPTS: PAGE 3
 CONC RURAL ELEV FLGPOL GRDRIS MSGPRO

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL **
 INCLUDING SOURCE(S): SRC30 , SRC31 , SRC32 , SRC1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS **

** CONC OF OTHER IN MICROGRAMS/M**3

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
847400.00	813500.00	0.00001	847450.00	813500.00	0.00001
845500.00	813550.00	0.00005	845550.00	813550.00	0.00006
845600.00	813550.00	0.00006	845650.00	813550.00	0.00007
845700.00	813550.00	0.00007	845750.00	813550.00	0.00008
845800.00	813550.00	0.00009	845850.00	813550.00	0.00009
845900.00	813550.00	0.00010	845950.00	813550.00	0.00011
846000.00	813550.00	0.00011	846050.00	813550.00	0.00012
846100.00	813550.00	0.00011	846150.00	813550.00	0.00010
846200.00	813550.00	0.00009	846250.00	813550.00	0.00008
846300.00	813550.00	0.00008	846350.00	813550.00	0.00006
846400.00	813550.00	0.00005	846450.00	813550.00	0.00004
846500.00	813550.00	0.00003	846550.00	813550.00	0.00002
846600.00	813550.00	0.00002	846650.00	813550.00	0.00001
846700.00	813550.00	0.00001	846750.00	813550.00	0.00001
846800.00	813550.00	0.00001	846850.00	813550.00	0.00001
846900.00	813550.00	0.00001	846950.00	813550.00	0.00001
847000.00	813550.00	0.00001	847050.00	813550.00	0.00001
847100.00	813550.00	0.00001	847150.00	813550.00	0.00001
847200.00	813550.00	0.00001	847250.00	813550.00	0.00001
847300.00	813550.00	0.00001	847350.00	813550.00	0.00001
847400.00	813550.00	0.00001	847450.00	813550.00	0.00001
845500.00	813600.00	0.00005	845550.00	813600.00	0.00006
845600.00	813600.00	0.00006	845650.00	813600.00	0.00007
845700.00	813600.00	0.00007	845750.00	813600.00	0.00008
845800.00	813600.00	0.00008	845850.00	813600.00	0.00009
845900.00	813600.00	0.00010	845950.00	813600.00	0.00011
846000.00	813600.00	0.00012	846050.00	813600.00	0.00012
846100.00	813600.00	0.00012	846150.00	813600.00	0.00011
846200.00	813600.00	0.00010	846250.00	813600.00	0.00009
846300.00	813600.00	0.00008	846350.00	813600.00	0.00007
846400.00	813600.00	0.00006	846450.00	813600.00	0.00005
846500.00	813600.00	0.00003	846550.00	813600.00	0.00003
846600.00	813600.00	0.00002	846650.00	813600.00	0.00001
846700.00	813600.00	0.00001	846750.00	813600.00	0.00001
846800.00	813600.00	0.00001	846850.00	813600.00	0.00001
846900.00	813600.00	0.00001	846950.00	813600.00	0.00001
847000.00	813600.00	0.00001	847050.00	813600.00	0.00001
847100.00	813600.00	0.00001	847150.00	813600.00	0.00001
847200.00	813600.00	0.00001	847250.00	813600.00	0.00001
847300.00	813600.00	0.00001	847350.00	813600.00	0.00001

1 *** ISCST3 - VERSION 02035 *** *** benzene at ground level ASR *** 01/28/06

*** 18:53:5

**MODELOPTS: PAGE 3
 CONC RURAL ELEV FLGPOL GRDRIS MSGPRO

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL **
 INCLUDING SOURCE(S): SRC30 , SRC31 , SRC32 , SRC1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS **

** CONC OF OTHER IN MICROGRAMS/M**3

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
-------------	-------------	------	-------------	-------------	------

847400.00	813600.00	0.00001	847450.00	813600.00	0.00001
845500.00	813650.00	0.00005	845550.00	813650.00	0.00005
845600.00	813650.00	0.00006	845650.00	813650.00	0.00006
845700.00	813650.00	0.00007	845750.00	813650.00	0.00007
845800.00	813650.00	0.00008	845850.00	813650.00	0.00009
845900.00	813650.00	0.00010	845950.00	813650.00	0.00011
846000.00	813650.00	0.00012	846050.00	813650.00	0.00012
846100.00	813650.00	0.00012	846150.00	813650.00	0.00012
846200.00	813650.00	0.00010	846250.00	813650.00	0.00009
846300.00	813650.00	0.00008	846350.00	813650.00	0.00007
846400.00	813650.00	0.00006	846450.00	813650.00	0.00005
846500.00	813650.00	0.00004	846550.00	813650.00	0.00003
846600.00	813650.00	0.00002	846650.00	813650.00	0.00001
846700.00	813650.00	0.00001	846750.00	813650.00	0.00001
846800.00	813650.00	0.00001	846850.00	813650.00	0.00001
846900.00	813650.00	0.00001	846950.00	813650.00	0.00001
847000.00	813650.00	0.00001	847050.00	813650.00	0.00001
847100.00	813650.00	0.00001	847150.00	813650.00	0.00001
847200.00	813650.00	0.00001	847250.00	813650.00	0.00001
847300.00	813650.00	0.00001	847350.00	813650.00	0.00001
847400.00	813650.00	0.00001	847450.00	813650.00	0.00001
845500.00	813700.00	0.00005	845550.00	813700.00	0.00005
845600.00	813700.00	0.00006	845650.00	813700.00	0.00006
845700.00	813700.00	0.00007	845750.00	813700.00	0.00007
845800.00	813700.00	0.00008	845850.00	813700.00	0.00009
845900.00	813700.00	0.00009	845950.00	813700.00	0.00010
846000.00	813700.00	0.00011	846050.00	813700.00	0.00012
846100.00	813700.00	0.00013	846150.00	813700.00	0.00012
846200.00	813700.00	0.00011	846250.00	813700.00	0.00010
846300.00	813700.00	0.00009	846350.00	813700.00	0.00008
846400.00	813700.00	0.00006	846450.00	813700.00	0.00005
846500.00	813700.00	0.00004	846550.00	813700.00	0.00003
846600.00	813700.00	0.00002	846650.00	813700.00	0.00001
846700.00	813700.00	0.00001	846750.00	813700.00	0.00001
846800.00	813700.00	0.00001	846850.00	813700.00	0.00001
846900.00	813700.00	0.00001	846950.00	813700.00	0.00001
847000.00	813700.00	0.00001	847050.00	813700.00	0.00001
847100.00	813700.00	0.00001	847150.00	813700.00	0.00001
847200.00	813700.00	0.00001	847250.00	813700.00	0.00001
847300.00	813700.00	0.00001	847350.00	813700.00	0.00001

1 *** ISCS T3 - VERSION 02035 *** *** benzene at ground level ASR *** 01/28/08
 *** 18:53:5

**MODELOPTS: PAGE 3
 CONC RURAL ELEV FLGPOL GRDRIS MSGPRO

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL **
 INCLUDING SOURCE(S): SRC30 , SRC31 , SRC32 , SRC1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS **

** CONC OF OTHER IN MICROGRAMS/M**3

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
847400.00	813700.00	0.00001	847450.00	813700.00	0.00001
845500.00	813750.00	0.00005	845550.00	813750.00	0.00005
845600.00	813750.00	0.00005	845650.00	813750.00	0.00006
845700.00	813750.00	0.00006	845750.00	813750.00	0.00007
845800.00	813750.00	0.00007	845850.00	813750.00	0.00008
845900.00	813750.00	0.00009	845950.00	813750.00	0.00010
846000.00	813750.00	0.00011	846050.00	813750.00	0.00012
846100.00	813750.00	0.00013	846150.00	813750.00	0.00013
846200.00	813750.00	0.00012	846250.00	813750.00	0.00011
846300.00	813750.00	0.00009	846350.00	813750.00	0.00008
846400.00	813750.00	0.00007	846450.00	813750.00	0.00005
846500.00	813750.00	0.00004	846550.00	813750.00	0.00003
846600.00	813750.00	0.00002	846650.00	813750.00	0.00001
846700.00	813750.00	0.00001	846750.00	813750.00	0.00001
846800.00	813750.00	0.00001	846850.00	813750.00	0.00001
846900.00	813750.00	0.00001	846950.00	813750.00	0.00001
847000.00	813750.00	0.00001	847050.00	813750.00	0.00001
847100.00	813750.00	0.00001	847150.00	813750.00	0.00001
847200.00	813750.00	0.00001	847250.00	813750.00	0.00001
847300.00	813750.00	0.00001	847350.00	813750.00	0.00001
847400.00	813750.00	0.00001	847450.00	813750.00	0.00001
845500.00	813800.00	0.00006	845550.00	813800.00	0.00005
845600.00	813800.00	0.00005	845650.00	813800.00	0.00006
845700.00	813800.00	0.00006	845750.00	813800.00	0.00006
845800.00	813800.00	0.00007	845850.00	813800.00	0.00008
845900.00	813800.00	0.00009	845950.00	813800.00	0.00010
846000.00	813800.00	0.00011	846050.00	813800.00	0.00012
846100.00	813800.00	0.00013	846150.00	813800.00	0.00013
846200.00	813800.00	0.00013	846250.00	813800.00	0.00016
846300.00	813800.00	0.00014	846350.00	813800.00	0.00009
846400.00	813800.00	0.00007	846450.00	813800.00	0.00011
846500.00	813800.00	0.00014	846550.00	813800.00	0.00011
846600.00	813800.00	0.00006	846650.00	813800.00	0.00001
846700.00	813800.00	0.00001	846750.00	813800.00	0.00001
846800.00	813800.00	0.00001	846850.00	813800.00	0.00001
846900.00	813800.00	0.00001	846950.00	813800.00	0.00001
847000.00	813800.00	0.00001	847050.00	813800.00	0.00001
847100.00	813800.00	0.00001	847150.00	813800.00	0.00001
847200.00	813800.00	0.00001	847250.00	813800.00	0.00001
847300.00	813800.00	0.00001	847350.00	813800.00	0.00001

1 *** ISCS T3 - VERSION 02035 *** *** benzene at ground level ASR *** 01/28/08
 *** 18:53:5

**MODELOPTS: PAGE 3
 CONC RURAL ELEV FLGPOL GRDRIS MSGPRO

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL **
 INCLUDING SOURCE(S): SRC30 ,SRC31 ,SRC32 ,SRC1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS **

** CONC OF OTHER IN MICROGRAMS/M**3

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
847400.00	813800.00	0.00001	847450.00	813800.00	0.00001
845500.00	813850.00	0.00006	845550.00	813850.00	0.00006
845600.00	813850.00	0.00006	845650.00	813850.00	0.00006
845700.00	813850.00	0.00006	845750.00	813850.00	0.00006
845800.00	813850.00	0.00007	845850.00	813850.00	0.00007
845900.00	813850.00	0.00008	845950.00	813850.00	0.00009
846000.00	813850.00	0.00010	846050.00	813850.00	0.00011
846100.00	813850.00	0.00013	846150.00	813850.00	0.00013
846200.00	813850.00	0.00013	846250.00	813850.00	0.00017
846300.00	813850.00	0.00015	846350.00	813850.00	0.00013
846400.00	813850.00	0.00025	846450.00	813850.00	0.00027
846500.00	813850.00	0.00017	846550.00	813850.00	0.00012
846600.00	813850.00	0.00007	846650.00	813850.00	0.00001
846700.00	813850.00	0.00001	846750.00	813850.00	0.00001
846800.00	813850.00	0.00001	846850.00	813850.00	0.00001
846900.00	813850.00	0.00001	846950.00	813850.00	0.00001
847000.00	813850.00	0.00001	847050.00	813850.00	0.00001
847100.00	813850.00	0.00001	847150.00	813850.00	0.00001
847200.00	813850.00	0.00001	847250.00	813850.00	0.00001
847300.00	813850.00	0.00001	847350.00	813850.00	0.00001
847400.00	813850.00	0.00001	847450.00	813850.00	0.00001
845500.00	813900.00	0.00006	845550.00	813900.00	0.00006
845600.00	813900.00	0.00006	845650.00	813900.00	0.00006
845700.00	813900.00	0.00006	845750.00	813900.00	0.00006
845800.00	813900.00	0.00006	845850.00	813900.00	0.00007
845900.00	813900.00	0.00008	845950.00	813900.00	0.00009
846000.00	813900.00	0.00010	846050.00	813900.00	0.00011
846100.00	813900.00	0.00012	846150.00	813900.00	0.00013
846200.00	813900.00	0.00020	846250.00	813900.00	0.00019
846300.00	813900.00	0.00016	846350.00	813900.00	0.00014
846400.00	813900.00	0.00011	846450.00	813900.00	0.00009
846500.00	813900.00	0.00007	846550.00	813900.00	0.00007
846600.00	813900.00	0.00004	846650.00	813900.00	0.00001
846700.00	813900.00	0.00001	846750.00	813900.00	0.00001
846800.00	813900.00	0.00001	846850.00	813900.00	0.00001
846900.00	813900.00	0.00001	846950.00	813900.00	0.00001
847000.00	813900.00	0.00001	847050.00	813900.00	0.00001
847100.00	813900.00	0.00001	847150.00	813900.00	0.00001
847200.00	813900.00	0.00001	847250.00	813900.00	0.00001
847300.00	813900.00	0.00001	847350.00	813900.00	0.00001

1 *** ISCST3 - VERSION 02035 *** benzene at ground level ASR *** 01/28/08

*** 18:53:5

**MODELOPTS: PAGE 3
 CONC RURAL ELEV FLGPOL GRDRIS MSGPRO

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL **
 INCLUDING SOURCE(S): SRC30 ,SRC31 ,SRC32 ,SRC1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS **

** CONC OF OTHER IN MICROGRAMS/M**3

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
847400.00	813900.00	0.00001	847450.00	813900.00	0.00001
845500.00	813950.00	0.00006	845550.00	813950.00	0.00006
845600.00	813950.00	0.00006	845650.00	813950.00	0.00006
845700.00	813950.00	0.00006	845750.00	813950.00	0.00006
845800.00	813950.00	0.00006	845850.00	813950.00	0.00007
845900.00	813950.00	0.00007	845950.00	813950.00	0.00008
846000.00	813950.00	0.00009	846050.00	813950.00	0.00010
846100.00	813950.00	0.00012	846150.00	813950.00	0.00013
846200.00	813950.00	0.00020	846250.00	813950.00	0.00020
846300.00	813950.00	0.00018	846350.00	813950.00	0.00015
846400.00	813950.00	0.00012	846450.00	813950.00	0.00009
846500.00	813950.00	0.00006	846550.00	813950.00	0.00004
846600.00	813950.00	0.00003	846650.00	813950.00	0.00002
846700.00	813950.00	0.00001	846750.00	813950.00	0.00001
846800.00	813950.00	0.00001	846850.00	813950.00	0.00001
846900.00	813950.00	0.00001	846950.00	813950.00	0.00001
847000.00	813950.00	0.00001	847050.00	813950.00	0.00001
847100.00	813950.00	0.00001	847150.00	813950.00	0.00001
847200.00	813950.00	0.00001	847250.00	813950.00	0.00001
847300.00	813950.00	0.00001	847350.00	813950.00	0.00001
847400.00	813950.00	0.00001	847450.00	813950.00	0.00001
845500.00	814000.00	0.00007	845550.00	814000.00	0.00007
845600.00	814000.00	0.00007	845650.00	814000.00	0.00007
845700.00	814000.00	0.00007	845750.00	814000.00	0.00006
845800.00	814000.00	0.00006	845850.00	814000.00	0.00007
845900.00	814000.00	0.00007	845950.00	814000.00	0.00008
846000.00	814000.00	0.00008	846050.00	814000.00	0.00010
846100.00	814000.00	0.00011	846150.00	814000.00	0.00018
846200.00	814000.00	0.00021	846250.00	814000.00	0.00021
846300.00	814000.00	0.00019	846350.00	814000.00	0.00016
846400.00	814000.00	0.00013	846450.00	814000.00	0.00010
846500.00	814000.00	0.00007	846550.00	814000.00	0.00004
846600.00	814000.00	0.00003	846650.00	814000.00	0.00001
846700.00	814000.00	0.00001	846750.00	814000.00	0.00001
846800.00	814000.00	0.00001	846850.00	814000.00	0.00001
846900.00	814000.00	0.00001	846950.00	814000.00	0.00001

847000.00 814000.00 0.00001 847050.00 814000.00 0.00001
 847100.00 814000.00 0.00001 847150.00 814000.00 0.00001
 847200.00 814000.00 0.00001 847250.00 814000.00 0.00001
 847300.00 814000.00 0.00001 847350.00 814000.00 0.00001
 1 *** ICSCT3 - VERSION 02035 *** benzene at ground level ASR *** 01/28/08
 *** 18:53:5

**MODELOPTS: PAGE 4
 CONC RURAL ELEV FLGPOL GRDRIS MSGPRO

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL **
 INCLUDING SOURCE(S): SRC30 , SRC31 , SRC32 , SRC1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS **

** CONC OF OTHER IN MICROGRAMS/M**3

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
847400.00	814000.00	0.00001	847450.00	814000.00	0.00001
845500.00	814050.00	0.00007	845550.00	814050.00	0.00007
845600.00	814050.00	0.00007	845650.00	814050.00	0.00007
845700.00	814050.00	0.00007	845750.00	814050.00	0.00007
845800.00	814050.00	0.00007	845850.00	814050.00	0.00007
845900.00	814050.00	0.00007	845950.00	814050.00	0.00007
846000.00	814050.00	0.00008	846050.00	814050.00	0.00009
846100.00	814050.00	0.00010	846150.00	814050.00	0.00018
846200.00	814050.00	0.00020	846250.00	814050.00	0.00022
846300.00	814050.00	0.00021	846350.00	814050.00	0.00018
846400.00	814050.00	0.00015	846450.00	814050.00	0.00011
846500.00	814050.00	0.00007	846550.00	814050.00	0.00004
846600.00	814050.00	0.00002	846650.00	814050.00	0.00001
846700.00	814050.00	0.00001	846750.00	814050.00	0.00001
846800.00	814050.00	0.00001	846850.00	814050.00	0.00001
846900.00	814050.00	0.00001	846950.00	814050.00	0.00001
847000.00	814050.00	0.00001	847050.00	814050.00	0.00001
847100.00	814050.00	0.00001	847150.00	814050.00	0.00001
847200.00	814050.00	0.00001	847250.00	814050.00	0.00001
847300.00	814050.00	0.00001	847350.00	814050.00	0.00001
847400.00	814050.00	0.00001	847450.00	814050.00	0.00001
845500.00	814100.00	0.00007	845550.00	814100.00	0.00007
845600.00	814100.00	0.00007	845650.00	814100.00	0.00007
845700.00	814100.00	0.00007	845750.00	814100.00	0.00007
845800.00	814100.00	0.00007	845850.00	814100.00	0.00007
845900.00	814100.00	0.00007	845950.00	814100.00	0.00007
846000.00	814100.00	0.00007	846050.00	814100.00	0.00008
846100.00	814100.00	0.00014	846150.00	814100.00	0.00016
846200.00	814100.00	0.00019	846250.00	814100.00	0.00022
846300.00	814100.00	0.00023	846350.00	814100.00	0.00020
846400.00	814100.00	0.00016	846450.00	814100.00	0.00012
846500.00	814100.00	0.00008	846550.00	814100.00	0.00004
846600.00	814100.00	0.00002	846650.00	814100.00	0.00001
846700.00	814100.00	0.00001	846750.00	814100.00	0.00001
846800.00	814100.00	0.00001	846850.00	814100.00	0.00001
846900.00	814100.00	0.00001	846950.00	814100.00	0.00001
847000.00	814100.00	0.00001	847050.00	814100.00	0.00001
847100.00	814100.00	0.00001	847150.00	814100.00	0.00001
847200.00	814100.00	0.00001	847250.00	814100.00	0.00001
847300.00	814100.00	0.00001	847350.00	814100.00	0.00001

1 *** ICSCT3 - VERSION 02035 *** benzene at ground level ASR *** 01/28/08
 *** 18:53:5

**MODELOPTS: PAGE 4
 CONC RURAL ELEV FLGPOL GRDRIS MSGPRO

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL **
 INCLUDING SOURCE(S): SRC30 , SRC31 , SRC32 , SRC1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS **

** CONC OF OTHER IN MICROGRAMS/M**3

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
847400.00	814100.00	0.00001	847450.00	814100.00	0.00001
845500.00	814150.00	0.00007	845550.00	814150.00	0.00007
845600.00	814150.00	0.00007	845650.00	814150.00	0.00008
845700.00	814150.00	0.00008	845750.00	814150.00	0.00008
845800.00	814150.00	0.00008	845850.00	814150.00	0.00008
845900.00	814150.00	0.00008	845950.00	814150.00	0.00007
846000.00	814150.00	0.00007	846050.00	814150.00	0.00009
846100.00	814150.00	0.00013	846150.00	814150.00	0.00015
846200.00	814150.00	0.00018	846250.00	814150.00	0.00022
846300.00	814150.00	0.00024	846350.00	814150.00	0.00023
846400.00	814150.00	0.00018	846450.00	814150.00	0.00014
846500.00	814150.00	0.00008	846550.00	814150.00	0.00005
846600.00	814150.00	0.00002	846650.00	814150.00	0.00001
846700.00	814150.00	0.00001	846750.00	814150.00	0.00001
846800.00	814150.00	0.00002	846850.00	814150.00	0.00001
846900.00	814150.00	0.00001	846950.00	814150.00	0.00001
847000.00	814150.00	0.00001	847050.00	814150.00	0.00001
847100.00	814150.00	0.00001	847150.00	814150.00	0.00001
847200.00	814150.00	0.00001	847250.00	814150.00	0.00001
847300.00	814150.00	0.00001	847350.00	814150.00	0.00001
847400.00	814150.00	0.00001	847450.00	814150.00	0.00001
845500.00	814200.00	0.00007	845550.00	814200.00	0.00007
845600.00	814200.00	0.00008	845650.00	814200.00	0.00008
845700.00	814200.00	0.00008	845750.00	814200.00	0.00008
845800.00	814200.00	0.00008	845850.00	814200.00	0.00008
845900.00	814200.00	0.00008	845950.00	814200.00	0.00008
846000.00	814200.00	0.00008	846050.00	814200.00	0.00011

846100.00	814200.00	0.00012	846150.00	814200.00	0.00014
846200.00	814200.00	0.00017	846250.00	814200.00	0.00021
846300.00	814200.00	0.00025	846350.00	814200.00	0.00025
846400.00	814200.00	0.00021	846450.00	814200.00	0.00015
846500.00	814200.00	0.00009	846550.00	814200.00	0.00005
846600.00	814200.00	0.00002	846650.00	814200.00	0.00001
846700.00	814200.00	0.00002	846750.00	814200.00	0.00006
846800.00	814200.00	0.00007	846850.00	814200.00	0.00001
846900.00	814200.00	0.00001	846950.00	814200.00	0.00001
847000.00	814200.00	0.00001	847050.00	814200.00	0.00001
847100.00	814200.00	0.00001	847150.00	814200.00	0.00001
847200.00	814200.00	0.00001	847250.00	814200.00	0.00001
847300.00	814200.00	0.00001	847350.00	814200.00	0.00001

1 *** ISCS T3 - VERSION 02035 *** benzene at ground level ASR *** 01/28/06
 *** 18:53:5

**MODELOPTS: PAGE 4
 CONC RURAL ELEV FLGPOL GRDRIS MSGPRO

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL **
 INCLUDING SOURCE(S): SRC30 , SRC31 , SRC32 , SRC1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS **

** CONC OF OTHER IN MICROGRAMS/M**3

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
847400.00	814200.00	0.00001	847450.00	814200.00	0.00001
845500.00	814250.00	0.00007	845550.00	814250.00	0.00007
845600.00	814250.00	0.00007	845650.00	814250.00	0.00008
845700.00	814250.00	0.00008	845750.00	814250.00	0.00008
845800.00	814250.00	0.00008	845850.00	814250.00	0.00009
845900.00	814250.00	0.00009	845950.00	814250.00	0.00009
846000.00	814250.00	0.00011	846050.00	814250.00	0.00011
846100.00	814250.00	0.00011	846150.00	814250.00	0.00013
846200.00	814250.00	0.00015	846250.00	814250.00	0.00019
846300.00	814250.00	0.00024	846350.00	814250.00	0.00027
846400.00	814250.00	0.00024	846450.00	814250.00	0.00018
846500.00	814250.00	0.00011	846550.00	814250.00	0.00005
846600.00	814250.00	0.00002	846650.00	814250.00	0.00001
846700.00	814250.00	0.00010	846750.00	814250.00	0.00013
846800.00	814250.00	0.00013	846850.00	814250.00	0.00006
846900.00	814250.00	0.00001	846950.00	814250.00	0.00001
847000.00	814250.00	0.00001	847050.00	814250.00	0.00001
847100.00	814250.00	0.00001	847150.00	814250.00	0.00001
847200.00	814250.00	0.00001	847250.00	814250.00	0.00001
847300.00	814250.00	0.00001	847350.00	814250.00	0.00001
847400.00	814250.00	0.00001	847450.00	814250.00	0.00001
845500.00	814300.00	0.00006	845550.00	814300.00	0.00007
845600.00	814300.00	0.00007	845650.00	814300.00	0.00008
845700.00	814300.00	0.00008	845750.00	814300.00	0.00008
845800.00	814300.00	0.00009	845850.00	814300.00	0.00009
845900.00	814300.00	0.00009	845950.00	814300.00	0.00009
846000.00	814300.00	0.00012	846050.00	814300.00	0.00012
846100.00	814300.00	0.00012	846150.00	814300.00	0.00012
846200.00	814300.00	0.00014	846250.00	814300.00	0.00017
846300.00	814300.00	0.00022	846350.00	814300.00	0.00028
846400.00	814300.00	0.00028	846450.00	814300.00	0.00021
846500.00	814300.00	0.00012	846550.00	814300.00	0.00005
846600.00	814300.00	0.00002	846650.00	814300.00	0.00007
846700.00	814300.00	0.00014	846750.00	814300.00	0.00014
846800.00	814300.00	0.00016	846850.00	814300.00	0.00012
846900.00	814300.00	0.00004	846950.00	814300.00	0.00001
847000.00	814300.00	0.00001	847050.00	814300.00	0.00001
847100.00	814300.00	0.00001	847150.00	814300.00	0.00001
847200.00	814300.00	0.00001	847250.00	814300.00	0.00001
847300.00	814300.00	0.00001	847350.00	814300.00	0.00001

1 *** ISCS T3 - VERSION 02035 *** benzene at ground level ASR *** 01/28/06
 *** 18:53:5

**MODELOPTS: PAGE 4
 CONC RURAL ELEV FLGPOL GRDRIS MSGPRO

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL **
 INCLUDING SOURCE(S): SRC30 , SRC31 , SRC32 , SRC1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS **

** CONC OF OTHER IN MICROGRAMS/M**3

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
847400.00	814300.00	0.00001	847450.00	814300.00	0.00001
845500.00	814350.00	0.00006	845550.00	814350.00	0.00007
845600.00	814350.00	0.00007	845650.00	814350.00	0.00007
845700.00	814350.00	0.00008	845750.00	814350.00	0.00008
845800.00	814350.00	0.00008	845850.00	814350.00	0.00009
845900.00	814350.00	0.00009	845950.00	814350.00	0.00012
846000.00	814350.00	0.00013	846050.00	814350.00	0.00013
846100.00	814350.00	0.00013	846150.00	814350.00	0.00013
846200.00	814350.00	0.00013	846250.00	814350.00	0.00015
846300.00	814350.00	0.00020	846350.00	814350.00	0.00027
846400.00	814350.00	0.00032	846450.00	814350.00	0.00026
846500.00	814350.00	0.00015	846550.00	814350.00	0.00006
846600.00	814350.00	0.00002	846650.00	814350.00	0.00015
846700.00	814350.00	0.00018	846750.00	814350.00	0.00016
846800.00	814350.00	0.00014	846850.00	814350.00	0.00014
846900.00	814350.00	0.00007	846950.00	814350.00	0.00001
847000.00	814350.00	0.00001	847050.00	814350.00	0.00001
847100.00	814350.00	0.00001	847150.00	814350.00	0.00001

847200.00	814350.00	0.00001	847250.00	814350.00	0.00001
847300.00	814350.00	0.00001	847350.00	814350.00	0.00001
847400.00	814350.00	0.00001	847450.00	814350.00	0.00001
845500.00	814400.00	0.00006	845550.00	814400.00	0.00006
845600.00	814400.00	0.00007	845650.00	814400.00	0.00007
845700.00	814400.00	0.00007	845750.00	814400.00	0.00008
845800.00	814400.00	0.00008	845850.00	814400.00	0.00008
845900.00	814400.00	0.00009	845950.00	814400.00	0.00012
846000.00	814400.00	0.00013	846050.00	814400.00	0.00013
846100.00	814400.00	0.00014	846150.00	814400.00	0.00014
846200.00	814400.00	0.00014	846250.00	814400.00	0.00014
846300.00	814400.00	0.00018	846350.00	814400.00	0.00024
846400.00	814400.00	0.00035	846450.00	814400.00	0.00034
846500.00	814400.00	0.00019	846550.00	814400.00	0.00006
846600.00	814400.00	0.00002	846650.00	814400.00	0.00016
846700.00	814400.00	0.00024	846750.00	814400.00	0.00017
846800.00	814400.00	0.00014	846850.00	814400.00	0.00013
846900.00	814400.00	0.00009	846950.00	814400.00	0.00003
847000.00	814400.00	0.00003	847050.00	814400.00	0.00004
847100.00	814400.00	0.00001	847150.00	814400.00	0.00001
847200.00	814400.00	0.00001	847250.00	814400.00	0.00001
847300.00	814400.00	0.00001	847350.00	814400.00	0.00001

1 *** ISCST3 - VERSION 02035 *** *** benzene at ground level ASR *** 01/28/08

*** 18:53:5
 **MODELOPTS: PAGE 4
 CONC RURAL ELEV FLGPOL GRDRIS MSGPRO

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL **
 INCLUDING SOURCE(S): SRC30 ,SRC31 ,SRC32 ,SRC1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS **

** CONC OF OTHER IN MICROGRAMS/M**3

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
847400.00	814400.00	0.00001	847450.00	814400.00	0.00001
845500.00	814450.00	0.00006	845550.00	814450.00	0.00006
845600.00	814450.00	0.00006	845650.00	814450.00	0.00007
845700.00	814450.00	0.00007	845750.00	814450.00	0.00007
845800.00	814450.00	0.00008	845850.00	814450.00	0.00008
845900.00	814450.00	0.00011	845950.00	814450.00	0.00011
846000.00	814450.00	0.00012	846050.00	814450.00	0.00013
846100.00	814450.00	0.00014	846150.00	814450.00	0.00015
846200.00	814450.00	0.00015	846250.00	814450.00	0.00015
846300.00	814450.00	0.00016	846350.00	814450.00	0.00022
846400.00	814450.00	0.00036	846450.00	814450.00	0.00047
846500.00	814450.00	0.00029	846550.00	814450.00	0.00008
846600.00	814450.00	0.00002	846650.00	814450.00	0.00017
846700.00	814450.00	0.00026	846750.00	814450.00	0.00018
846800.00	814450.00	0.00015	846850.00	814450.00	0.00014
846900.00	814450.00	0.00011	846950.00	814450.00	0.00006
847000.00	814450.00	0.00006	847050.00	814450.00	0.00008
847100.00	814450.00	0.00004	847150.00	814450.00	0.00001
847200.00	814450.00	0.00001	847250.00	814450.00	0.00001
847300.00	814450.00	0.00001	847350.00	814450.00	0.00001
847400.00	814450.00	0.00001	847450.00	814450.00	0.00001
845500.00	814500.00	0.00005	845550.00	814500.00	0.00006
845600.00	814500.00	0.00006	845650.00	814500.00	0.00006
845700.00	814500.00	0.00007	845750.00	814500.00	0.00007
845800.00	814500.00	0.00007	845850.00	814500.00	0.00008
845900.00	814500.00	0.00010	845950.00	814500.00	0.00011
846000.00	814500.00	0.00011	846050.00	814500.00	0.00012
846100.00	814500.00	0.00013	846150.00	814500.00	0.00014
846200.00	814500.00	0.00015	846250.00	814500.00	0.00016
846300.00	814500.00	0.00018	846350.00	814500.00	0.00021
846400.00	814500.00	0.00036	846450.00	814500.00	0.00069
846500.00	814500.00	0.00056	846550.00	814500.00	0.00013
846600.00	814500.00	0.00002	846650.00	814500.00	0.00002
846700.00	814500.00	0.00001	846750.00	814500.00	0.00001
846800.00	814500.00	0.00001	846850.00	814500.00	0.00001
846900.00	814500.00	0.00001	846950.00	814500.00	0.00001
847000.00	814500.00	0.00001	847050.00	814500.00	0.00001
847100.00	814500.00	0.00001	847150.00	814500.00	0.00001
847200.00	814500.00	0.00002	847250.00	814500.00	0.00002
847300.00	814500.00	0.00002	847350.00	814500.00	0.00002

1 *** ISCST3 - VERSION 02035 *** *** benzene at ground level ASR *** 01/28/08

*** 18:53:5
 **MODELOPTS: PAGE 4
 CONC RURAL ELEV FLGPOL GRDRIS MSGPRO

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL **
 INCLUDING SOURCE(S): SRC30 ,SRC31 ,SRC32 ,SRC1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS **

** CONC OF OTHER IN MICROGRAMS/M**3

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
847400.00	814500.00	0.00003	847450.00	814500.00	0.00003
845500.00	814550.00	0.00005	845550.00	814550.00	0.00005
845600.00	814550.00	0.00005	845650.00	814550.00	0.00006
845700.00	814550.00	0.00006	845750.00	814550.00	0.00006
845800.00	814550.00	0.00006	845850.00	814550.00	0.00008
845900.00	814550.00	0.00009	845950.00	814550.00	0.00010
846000.00	814550.00	0.00010	846050.00	814550.00	0.00011
846100.00	814550.00	0.00011	846150.00	814550.00	0.00012
846200.00	814550.00	0.00013	846250.00	814550.00	0.00015

846300.00	814550.00	0.00019	846350.00	814550.00	0.00023
846450.00	814550.00	0.00102	846500.00	814550.00	0.00147
846550.00	814550.00	0.00034	846600.00	814550.00	0.00056
846650.00	814550.00	0.00066	846700.00	814550.00	0.00039
846750.00	814550.00	0.00027	846800.00	814550.00	0.00022
846850.00	814550.00	0.00287	846900.00	814550.00	0.00166
846950.00	814550.00	0.00017	847000.00	814550.00	0.00025
847050.00	814550.00	0.00015	847100.00	814550.00	0.00005
847150.00	814550.00	0.00003	847200.00	814550.00	0.00003
847250.00	814550.00	0.00004	847300.00	814550.00	0.00004
847350.00	814550.00	0.00005	847400.00	814550.00	0.00005
847450.00	814550.00	0.00016	845500.00	814600.00	0.00004
845550.00	814600.00	0.00005	845600.00	814600.00	0.00005
845650.00	814600.00	0.00005	845700.00	814600.00	0.00005
845750.00	814600.00	0.00006	845800.00	814600.00	0.00006
845850.00	814600.00	0.00007	845900.00	814600.00	0.00008
845950.00	814600.00	0.00008	846000.00	814600.00	0.00009
846050.00	814600.00	0.00009	846100.00	814600.00	0.00009
846150.00	814600.00	0.00010	846200.00	814600.00	0.00011
846250.00	814600.00	0.00012	846300.00	814600.00	0.00016
846600.00	814600.00	0.00112	846650.00	814600.00	0.00639
846700.00	814600.00	0.00711	846750.00	814600.00	0.00626
846800.00	814600.00	0.00542	846850.00	814600.00	0.00424
846900.00	814600.00	0.00584	846950.00	814600.00	0.00386
847000.00	814600.00	0.00311	847050.00	814600.00	0.00153
847100.00	814600.00	0.00022	847150.00	814600.00	0.00018
847200.00	814600.00	0.00013	847250.00	814600.00	0.00020
847300.00	814600.00	0.00019	847350.00	814600.00	0.00021
847400.00	814600.00	0.00026	847450.00	814600.00	0.00072
845500.00	814650.00	0.00004	845550.00	814650.00	0.00004
845600.00	814650.00	0.00005	845650.00	814650.00	0.00005

1 *** ISCST3 - VERSION 02035 *** *** benzene at ground level ASR *** 01/28/06

*** 18:53:5

**MODELOPTS: PAGE 4
 CONC RURAL ELEV FLGPOL GRDRIS MSGPRO

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL **
 INCLUDING SOURCE(S): SRC30 , SRC31 , SRC32 , SRC1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS **

** CONC OF OTHER IN MICROGRAMS/M**3

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
845700.00	814650.00	0.00005	845750.00	814650.00	0.00006
845800.00	814650.00	0.00006	845850.00	814650.00	0.00006
845900.00	814650.00	0.00007	845950.00	814650.00	0.00007
846000.00	814650.00	0.00007	846050.00	814650.00	0.00007
846100.00	814650.00	0.00008	846150.00	814650.00	0.00008
846200.00	814650.00	0.00008	846250.00	814650.00	0.00009
846300.00	814650.00	0.00012	846650.00	814650.00	0.00381
846700.00	814650.00	0.00590	846750.00	814650.00	0.00799
846800.00	814650.00	0.00573	846850.00	814650.00	0.00641
846900.00	814650.00	0.00439	846950.00	814650.00	0.00194
847000.00	814650.00	0.00144	847050.00	814650.00	0.00056
847100.00	814650.00	0.00057	847150.00	814650.00	0.00062
847200.00	814650.00	0.00046	847250.00	814650.00	0.00040
847300.00	814650.00	0.00062	847350.00	814650.00	0.00052
847400.00	814650.00	0.00089	847450.00	814650.00	0.00132
845500.00	814700.00	0.00004	845550.00	814700.00	0.00004
845600.00	814700.00	0.00005	845650.00	814700.00	0.00005
845700.00	814700.00	0.00006	845750.00	814700.00	0.00006
845800.00	814700.00	0.00006	845850.00	814700.00	0.00006
845900.00	814700.00	0.00006	845950.00	814700.00	0.00007
846000.00	814700.00	0.00007	846050.00	814700.00	0.00007
846100.00	814700.00	0.00007	846150.00	814700.00	0.00007
846200.00	814700.00	0.00008	846250.00	814700.00	0.00009
846300.00	814700.00	0.00011	846350.00	814700.00	0.00010
846400.00	814700.00	0.00054	846450.00	814700.00	0.00219
846500.00	814700.00	0.00919	846550.00	814700.00	0.00492
846600.00	814700.00	0.00061	846650.00	814700.00	0.00095
846700.00	814700.00	0.00352	846750.00	814700.00	0.00516
846800.00	814700.00	0.00279	846850.00	814700.00	0.00260
846900.00	814700.00	0.00277	846950.00	814700.00	0.00214
847000.00	814700.00	0.00080	847050.00	814700.00	0.00026
847100.00	814700.00	0.00035	847150.00	814700.00	0.00036
847200.00	814700.00	0.00048	847250.00	814700.00	0.00031
847300.00	814700.00	0.00060	847350.00	814700.00	0.00097
847400.00	814700.00	0.00181	847450.00	814700.00	0.00173
845500.00	814750.00	0.00004	845550.00	814750.00	0.00004
845600.00	814750.00	0.00005	845650.00	814750.00	0.00005
845700.00	814750.00	0.00006	845750.00	814750.00	0.00006
845800.00	814750.00	0.00006	845850.00	814750.00	0.00006
845900.00	814750.00	0.00007	845950.00	814750.00	0.00007

1 *** ISCST3 - VERSION 02035 *** *** benzene at ground level ASR *** 01/28/06

*** 18:53:5

**MODELOPTS: PAGE 4
 CONC RURAL ELEV FLGPOL GRDRIS MSGPRO

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL **
 INCLUDING SOURCE(S): SRC30 , SRC31 , SRC32 , SRC1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS **

** CONC OF OTHER IN MICROGRAMS/M**3

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
-------------	-------------	------	-------------	-------------	------

846000.00	814750.00	0.00007	846050.00	814750.00	0.00007
846100.00	814750.00	0.00007	846150.00	814750.00	0.00008
846200.00	814750.00	0.00008	846250.00	814750.00	0.00010
846300.00	814750.00	0.00013	846350.00	814750.00	0.00037
846400.00	814750.00	0.00081	846450.00	814750.00	0.00213
846500.00	814750.00	0.00238	846550.00	814750.00	0.00168
846600.00	814750.00	0.00107	846650.00	814750.00	0.00035
846700.00	814750.00	0.00077	846750.00	814750.00	0.00041
846800.00	814750.00	0.00024	846850.00	814750.00	0.00016
846900.00	814750.00	0.00011	846950.00	814750.00	0.00200
847000.00	814750.00	0.00081	847050.00	814750.00	0.00002
847100.00	814750.00	0.00002	847150.00	814750.00	0.00003
847200.00	814750.00	0.00005	847250.00	814750.00	0.00086
847300.00	814750.00	0.00206	847350.00	814750.00	0.00224
847400.00	814750.00	0.00212	847450.00	814750.00	0.00185
845500.00	814800.00	0.00004	845550.00	814800.00	0.00004
845600.00	814800.00	0.00005	845650.00	814800.00	0.00005
845700.00	814800.00	0.00006	845750.00	814800.00	0.00006
845800.00	814800.00	0.00006	845850.00	814800.00	0.00006
845900.00	814800.00	0.00006	845950.00	814800.00	0.00007
846000.00	814800.00	0.00007	846050.00	814800.00	0.00007
846100.00	814800.00	0.00008	846150.00	814800.00	0.00009
846200.00	814800.00	0.00010	846250.00	814800.00	0.00013
846300.00	814800.00	0.00013	846350.00	814800.00	0.00049
846400.00	814800.00	0.00091	846450.00	814800.00	0.00077
846500.00	814800.00	0.00117	846550.00	814800.00	0.00062
846600.00	814800.00	0.00067	846650.00	814800.00	0.00099
846700.00	814800.00	0.00086	846750.00	814800.00	0.00058
846800.00	814800.00	0.00042	846850.00	814800.00	0.00024
846900.00	814800.00	0.00014	846950.00	814800.00	0.00006
847000.00	814800.00	0.00003	847050.00	814800.00	0.00002
847100.00	814800.00	0.00001	847150.00	814800.00	0.00002
847200.00	814800.00	0.00071	847250.00	814800.00	0.00121
847300.00	814800.00	0.00124	847350.00	814800.00	0.00109
847400.00	814800.00	0.00091	847450.00	814800.00	0.00085
845500.00	814850.00	0.00004	845550.00	814850.00	0.00004
845600.00	814850.00	0.00004	845650.00	814850.00	0.00005
845700.00	814850.00	0.00005	845750.00	814850.00	0.00005
845800.00	814850.00	0.00005	845850.00	814850.00	0.00006
845900.00	814850.00	0.00007	845950.00	814850.00	0.00007

1 *** ISCST3 - VERSION 02035 *** *** benzene at ground level ASR *** 01/28/08
 *** 18:53:5

**MODELOPTS: PAGE 4
 CONC RURAL ELEV FLGPOL GRDRIS MSGPRO

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL **
 INCLUDING SOURCE(S): SRC30 , SRC31 , SRC32 , SRC1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS **

** CONC OF OTHER IN MICROGRAMS/M**3

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
846000.00	814850.00	0.00008	846050.00	814850.00	0.00008
846100.00	814850.00	0.00009	846150.00	814850.00	0.00010
846200.00	814850.00	0.00012	846250.00	814850.00	0.00016
846300.00	814850.00	0.00019	846350.00	814850.00	0.00053
846400.00	814850.00	0.00051	846450.00	814850.00	0.00039
846500.00	814850.00	0.00069	846550.00	814850.00	0.00037
846600.00	814850.00	0.00034	846650.00	814850.00	0.00117
846700.00	814850.00	0.00092	846750.00	814850.00	0.00067
846800.00	814850.00	0.00056	846850.00	814850.00	0.00030
846900.00	814850.00	0.00021	846950.00	814850.00	0.00013
847000.00	814850.00	0.00006	847050.00	814850.00	0.00004
847100.00	814850.00	0.00003	847150.00	814850.00	0.00004
847200.00	814850.00	0.00004	847250.00	814850.00	0.00004
847300.00	814850.00	0.00004	847350.00	814850.00	0.00004
847400.00	814850.00	0.00004	847450.00	814850.00	0.00080
845500.00	814900.00	0.00004	845550.00	814900.00	0.00004
845600.00	814900.00	0.00005	845650.00	814900.00	0.00005
845700.00	814900.00	0.00005	845750.00	814900.00	0.00006
845800.00	814900.00	0.00006	845850.00	814900.00	0.00006
845900.00	814900.00	0.00008	845950.00	814900.00	0.00008
846000.00	814900.00	0.00009	846050.00	814900.00	0.00009
846100.00	814900.00	0.00010	846150.00	814900.00	0.00012
846200.00	814900.00	0.00016	846250.00	814900.00	0.00021
846300.00	814900.00	0.00036	846350.00	814900.00	0.00038
846400.00	814900.00	0.00028	846450.00	814900.00	0.00033
846500.00	814900.00	0.00048	846550.00	814900.00	0.00027
846600.00	814900.00	0.00022	846650.00	814900.00	0.00095
846700.00	814900.00	0.00082	846750.00	814900.00	0.00080
846800.00	814900.00	0.00068	846850.00	814900.00	0.00036
846900.00	814900.00	0.00024	846950.00	814900.00	0.00019
847000.00	814900.00	0.00013	847050.00	814900.00	0.00007
847100.00	814900.00	0.00006	847150.00	814900.00	0.00007
847200.00	814900.00	0.00006	847250.00	814900.00	0.00005
847300.00	814900.00	0.00004	847350.00	814900.00	0.00005
847400.00	814900.00	0.00005	847450.00	814900.00	0.00005
845500.00	814950.00	0.00004	845550.00	814950.00	0.00004
845600.00	814950.00	0.00005	845650.00	814950.00	0.00005
845700.00	814950.00	0.00006	845750.00	814950.00	0.00006
845800.00	814950.00	0.00007	845850.00	814950.00	0.00007
845900.00	814950.00	0.00008	845950.00	814950.00	0.00009

1 *** ISCST3 - VERSION 02035 *** *** benzene at ground level ASR *** 01/28/08
 *** 18:53:5

**MODELOPTS: PAGE 4
 CONC RURAL ELEV FLGPOL GRDRIS MSGPRO

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL **
 INCLUDING SOURCE(S): SRC30 ,SRC31 ,SRC32 ,SRC1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS **

** CONC OF OTHER IN MICROGRAMS/M**3

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
846000.00	814950.00	0.00009	846050.00	814950.00	0.00010
846100.00	814950.00	0.00012	846150.00	814950.00	0.00015
846200.00	814950.00	0.00019	846250.00	814950.00	0.00023
846300.00	814950.00	0.00028	846350.00	814950.00	0.00026
846400.00	814950.00	0.00020	846450.00	814950.00	0.00032
846500.00	814950.00	0.00037	846550.00	814950.00	0.00022
846600.00	814950.00	0.00059	846650.00	814950.00	0.00068
846700.00	814950.00	0.00082	846750.00	814950.00	0.00093
846800.00	814950.00	0.00067	846850.00	814950.00	0.00041
846900.00	814950.00	0.00027	846950.00	814950.00	0.00022
847000.00	814950.00	0.00017	847050.00	814950.00	0.00013
847100.00	814950.00	0.00011	847150.00	814950.00	0.00009
847200.00	814950.00	0.00007	847250.00	814950.00	0.00008
847300.00	814950.00	0.00007	847350.00	814950.00	0.00007
847400.00	814950.00	0.00007	847450.00	814950.00	0.00006
845500.00	815000.00	0.00004	845550.00	815000.00	0.00005
845600.00	815000.00	0.00005	845650.00	815000.00	0.00006
845700.00	815000.00	0.00006	845750.00	815000.00	0.00007
845800.00	815000.00	0.00007	845850.00	815000.00	0.00008
845900.00	815000.00	0.00008	845950.00	815000.00	0.00009
846000.00	815000.00	0.00010	846050.00	815000.00	0.00012
846100.00	815000.00	0.00015	846150.00	815000.00	0.00018
846200.00	815000.00	0.00020	846250.00	815000.00	0.00021
846300.00	815000.00	0.00023	846350.00	815000.00	0.00019
846400.00	815000.00	0.00019	846450.00	815000.00	0.00032
846500.00	815000.00	0.00031	846550.00	815000.00	0.00019
846600.00	815000.00	0.00065	846650.00	815000.00	0.00057
846700.00	815000.00	0.00080	846750.00	815000.00	0.00079
846800.00	815000.00	0.00067	846850.00	815000.00	0.00049
846900.00	815000.00	0.00031	846950.00	815000.00	0.00025
847000.00	815000.00	0.00019	847050.00	815000.00	0.00016
847100.00	815000.00	0.00014	847150.00	815000.00	0.00011
847200.00	815000.00	0.00010	847250.00	815000.00	0.00011
847300.00	815000.00	0.00011	847350.00	815000.00	0.00010
847400.00	815000.00	0.00009	847450.00	815000.00	0.00008
845500.00	815050.00	0.00005	845550.00	815050.00	0.00006
845600.00	815050.00	0.00006	845650.00	815050.00	0.00006
845700.00	815050.00	0.00006	845750.00	815050.00	0.00007
845800.00	815050.00	0.00007	845850.00	815050.00	0.00008
845900.00	815050.00	0.00009	845950.00	815050.00	0.00010

1 *** ISCST3 - VERSION 02035 *** benzene at ground level ASR *** 01/28/08

*** 18:53:5

**MODELOPTS: RURAL ELEV FLGPOL GRDRIS MSGPRO PAGE 5

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL **
 INCLUDING SOURCE(S): SRC30 ,SRC31 ,SRC32 ,SRC1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS **

** CONC OF OTHER IN MICROGRAMS/M**3

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
846000.00	815050.00	0.00012	846050.00	815050.00	0.00015
846100.00	815050.00	0.00017	846150.00	815050.00	0.00019
846200.00	815050.00	0.00019	846250.00	815050.00	0.00017
846300.00	815050.00	0.00020	846350.00	815050.00	0.00016
846400.00	815050.00	0.00020	846450.00	815050.00	0.00031
846500.00	815050.00	0.00028	846550.00	815050.00	0.00018
846600.00	815050.00	0.00059	846650.00	815050.00	0.00051
846700.00	815050.00	0.00061	846750.00	815050.00	0.00063
846800.00	815050.00	0.00058	846850.00	815050.00	0.00047
846900.00	815050.00	0.00033	846950.00	815050.00	0.00027
847000.00	815050.00	0.00021	847050.00	815050.00	0.00018
847100.00	815050.00	0.00015	847150.00	815050.00	0.00014
847200.00	815050.00	0.00015	847250.00	815050.00	0.00014
847300.00	815050.00	0.00014	847350.00	815050.00	0.00012
847400.00	815050.00	0.00011	847450.00	815050.00	0.00010
845500.00	815100.00	0.00005	845550.00	815100.00	0.00006
845600.00	815100.00	0.00006	845650.00	815100.00	0.00007
845700.00	815100.00	0.00007	845750.00	815100.00	0.00007
845800.00	815100.00	0.00008	845850.00	815100.00	0.00009
845900.00	815100.00	0.00010	845950.00	815100.00	0.00012
846000.00	815100.00	0.00014	846050.00	815100.00	0.00016
846100.00	815100.00	0.00018	846150.00	815100.00	0.00018
846200.00	815100.00	0.00017	846250.00	815100.00	0.00014
846300.00	815100.00	0.00012	846350.00	815100.00	0.00015
846400.00	815100.00	0.00021	846450.00	815100.00	0.00030
846500.00	815100.00	0.00025	846550.00	815100.00	0.00016
846600.00	815100.00	0.00037	846650.00	815100.00	0.00047
846700.00	815100.00	0.00051	846750.00	815100.00	0.00044
846800.00	815100.00	0.00044	846850.00	815100.00	0.00042
846900.00	815100.00	0.00040	846950.00	815100.00	0.00027
847000.00	815100.00	0.00023	847050.00	815100.00	0.00022
847100.00	815100.00	0.00022	847150.00	815100.00	0.00018
847200.00	815100.00	0.00019	847250.00	815100.00	0.00017
847300.00	815100.00	0.00016	847350.00	815100.00	0.00013
847400.00	815100.00	0.00012	847450.00	815100.00	0.00010
845500.00	815150.00	0.00005	845550.00	815150.00	0.00006

845600.00 815150.00 0.00006 845650.00 815150.00 0.00006
 845700.00 815150.00 0.00007 845750.00 815150.00 0.00008
 845800.00 815150.00 0.00008 845850.00 815150.00 0.00010
 845900.00 815150.00 0.00012 845950.00 815150.00 0.00014
 1 *** ISCST3 - VERSION 02035 *** benzene at ground level ASR *** 01/28/08
 *** 18:53:5

**MODELOPTS: RURAL ELEV FLGPOL GRDRIS MSGPRO PAGE 5
 CONC

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL **
 INCLUDING SOURCE(S): SRC30 , SRC31 , SRC32 , SRC1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS **

** CONC OF OTHER IN MICROGRAMS/M**3

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
846000.00	815150.00	0.00016	846050.00	815150.00	0.00017
846100.00	815150.00	0.00017	846150.00	815150.00	0.00016
846200.00	815150.00	0.00014	846250.00	815150.00	0.00012
846300.00	815150.00	0.00011	846350.00	815150.00	0.00015
846400.00	815150.00	0.00022	846450.00	815150.00	0.00029
846500.00	815150.00	0.00023	846550.00	815150.00	0.00015
846600.00	815150.00	0.00013	846650.00	815150.00	0.00022
846700.00	815150.00	0.00027	846750.00	815150.00	0.00045
846800.00	815150.00	0.00061	846850.00	815150.00	0.00050
846900.00	815150.00	0.00047	846950.00	815150.00	0.00044
847000.00	815150.00	0.00025	847050.00	815150.00	0.00027
847100.00	815150.00	0.00025	847150.00	815150.00	0.00024
847200.00	815150.00	0.00020	847250.00	815150.00	0.00020
847300.00	815150.00	0.00017	847350.00	815150.00	0.00015
847400.00	815150.00	0.00012	847450.00	815150.00	0.00010
845500.00	815200.00	0.00005	845550.00	815200.00	0.00007
845600.00	815200.00	0.00006	845650.00	815200.00	0.00007
845700.00	815200.00	0.00012	845750.00	815200.00	0.00022
845800.00	815200.00	0.00010	845850.00	815200.00	0.00021
845900.00	815200.00	0.00013	845950.00	815200.00	0.00015
846000.00	815200.00	0.00016	846050.00	815200.00	0.00016
846100.00	815200.00	0.00016	846150.00	815200.00	0.00015
846200.00	815200.00	0.00014	846250.00	815200.00	0.00010
846300.00	815200.00	0.00010	846350.00	815200.00	0.00015
846400.00	815200.00	0.00022	846450.00	815200.00	0.00027
846500.00	815200.00	0.00021	846550.00	815200.00	0.00014
846600.00	815200.00	0.00030	846650.00	815200.00	0.00038
846700.00	815200.00	0.00038	846750.00	815200.00	0.00038
846800.00	815200.00	0.00036	846850.00	815200.00	0.00040
846900.00	815200.00	0.00047	846950.00	815200.00	0.00047
847000.00	815200.00	0.00029	847050.00	815200.00	0.00031
847100.00	815200.00	0.00028	847150.00	815200.00	0.00024
847200.00	815200.00	0.00023	847250.00	815200.00	0.00020
847300.00	815200.00	0.00018	847350.00	815200.00	0.00015
847400.00	815200.00	0.00013	847450.00	815200.00	0.00007
845500.00	815250.00	0.00005	845550.00	815250.00	0.00015
845600.00	815250.00	0.00020	845650.00	815250.00	0.00025
845700.00	815250.00	0.00039	845750.00	815250.00	0.00046
845800.00	815250.00	0.00048	845850.00	815250.00	0.00039
845900.00	815250.00	0.00019	845950.00	815250.00	0.00018

1 *** ISCST3 - VERSION 02035 *** benzene at ground level ASR *** 01/28/08
 *** 18:53:5

**MODELOPTS: RURAL ELEV FLGPOL GRDRIS MSGPRO PAGE 5
 CONC

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL **
 INCLUDING SOURCE(S): SRC30 , SRC31 , SRC32 , SRC1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS **

** CONC OF OTHER IN MICROGRAMS/M**3

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
846000.00	815250.00	0.00019	846050.00	815250.00	0.00022
846100.00	815250.00	0.00018	846150.00	815250.00	0.00014
846200.00	815250.00	0.00011	846250.00	815250.00	0.00010
846300.00	815250.00	0.00010	846350.00	815250.00	0.00016
846400.00	815250.00	0.00022	846450.00	815250.00	0.00026
846500.00	815250.00	0.00019	846550.00	815250.00	0.00014
846600.00	815250.00	0.00045	846650.00	815250.00	0.00037
846700.00	815250.00	0.00035	846750.00	815250.00	0.00036
846800.00	815250.00	0.00034	846850.00	815250.00	0.00038
846900.00	815250.00	0.00046	846950.00	815250.00	0.00049
847000.00	815250.00	0.00032	847050.00	815250.00	0.00036
847100.00	815250.00	0.00031	847150.00	815250.00	0.00027
847200.00	815250.00	0.00023	847250.00	815250.00	0.00021
847300.00	815250.00	0.00018	847350.00	815250.00	0.00016
847400.00	815250.00	0.00014	847450.00	815250.00	0.00008
845500.00	815300.00	0.00005	845550.00	815300.00	0.00032
845600.00	815300.00	0.00034	845650.00	815300.00	0.00040
845700.00	815300.00	0.00044	845750.00	815300.00	0.00047
845800.00	815300.00	0.00051	845850.00	815300.00	0.00047
845900.00	815300.00	0.00024	845950.00	815300.00	0.00020
846000.00	815300.00	0.00019	846050.00	815300.00	0.00018
846100.00	815300.00	0.00014	846150.00	815300.00	0.00011
846200.00	815300.00	0.00009	846250.00	815300.00	0.00009
846300.00	815300.00	0.00014	846350.00	815300.00	0.00016
846400.00	815300.00	0.00022	846450.00	815300.00	0.00024
846500.00	815300.00	0.00039	846550.00	815300.00	0.00039
846600.00	815300.00	0.00042	846650.00	815300.00	0.00034

846700.00	815300.00	0.00031	846750.00	815300.00	0.00032
846800.00	815300.00	0.00036	846850.00	815300.00	0.00040
846900.00	815300.00	0.00044	846950.00	815300.00	0.00048
847000.00	815300.00	0.00043	847050.00	815300.00	0.00036
847100.00	815300.00	0.00033	847150.00	815300.00	0.00029
847200.00	815300.00	0.00025	847250.00	815300.00	0.00021
847300.00	815300.00	0.00018	847350.00	815300.00	0.00015
847400.00	815300.00	0.00013	847450.00	815300.00	0.00009
845500.00	815350.00	0.00005	845550.00	815350.00	0.00036
845600.00	815350.00	0.00038	845650.00	815350.00	0.00041
845700.00	815350.00	0.00047	845750.00	815350.00	0.00052
845800.00	815350.00	0.00052	845850.00	815350.00	0.00051
845900.00	815350.00	0.00014	845950.00	815350.00	0.00014

1 *** ICSCT3 - VERSION 02035 *** *** benzene at ground level ASR *** 01/28/06
 *** 18:53:5

**MODELOPTS: PAGE 5
 CONC RURAL ELEV FLGPOL GRDRIS MSGPRO

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL **
 INCLUDING SOURCE(S): SRC30 , SRC31 , SRC32 , SRC1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS **

** CONC OF OTHER IN MICROGRAMS/M**3

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
846000.00	815350.00	0.00014	846050.00	815350.00	0.00011
846100.00	815350.00	0.00010	846150.00	815350.00	0.00009
846200.00	815350.00	0.00008	846250.00	815350.00	0.00008
846300.00	815350.00	0.00022	846350.00	815350.00	0.00041
846400.00	815350.00	0.00057	846450.00	815350.00	0.00068
846500.00	815350.00	0.00064	846550.00	815350.00	0.00052
846600.00	815350.00	0.00038	846650.00	815350.00	0.00032
846700.00	815350.00	0.00031	846750.00	815350.00	0.00033
846800.00	815350.00	0.00036	846850.00	815350.00	0.00037
846900.00	815350.00	0.00039	846950.00	815350.00	0.00045
847000.00	815350.00	0.00040	847050.00	815350.00	0.00036
847100.00	815350.00	0.00034	847150.00	815350.00	0.00030
847200.00	815350.00	0.00025	847250.00	815350.00	0.00022
847300.00	815350.00	0.00018	847350.00	815350.00	0.00015
847400.00	815350.00	0.00014	847450.00	815350.00	0.00009
845500.00	815400.00	0.00006	845550.00	815400.00	0.00037
845600.00	815400.00	0.00039	845650.00	815400.00	0.00042
845700.00	815400.00	0.00052	845750.00	815400.00	0.00055
845800.00	815400.00	0.00050	845850.00	815400.00	0.00050
845900.00	815400.00	0.00013	845950.00	815400.00	0.00013
846000.00	815400.00	0.00012	846050.00	815400.00	0.00010
846100.00	815400.00	0.00009	846150.00	815400.00	0.00008
846200.00	815400.00	0.00008	846250.00	815400.00	0.00008
846300.00	815400.00	0.00029	846350.00	815400.00	0.00058
846400.00	815400.00	0.00065	846450.00	815400.00	0.00065
846500.00	815400.00	0.00059	846550.00	815400.00	0.00049
846600.00	815400.00	0.00042	846650.00	815400.00	0.00033
846700.00	815400.00	0.00030	846750.00	815400.00	0.00033
846800.00	815400.00	0.00033	846850.00	815400.00	0.00036
846900.00	815400.00	0.00038	846950.00	815400.00	0.00043
847000.00	815400.00	0.00039	847050.00	815400.00	0.00035
847100.00	815400.00	0.00033	847150.00	815400.00	0.00031
847200.00	815400.00	0.00027	847250.00	815400.00	0.00022
847300.00	815400.00	0.00019	847350.00	815400.00	0.00016
847400.00	815400.00	0.00015	847450.00	815400.00	0.00010
845500.00	815450.00	0.00007	845550.00	815450.00	0.00036
845600.00	815450.00	0.00040	845650.00	815450.00	0.00043
845700.00	815450.00	0.00052	845750.00	815450.00	0.00054
845800.00	815450.00	0.00048	845850.00	815450.00	0.00047
845900.00	815450.00	0.00028	845950.00	815450.00	0.00015

1 *** ICSCT3 - VERSION 02035 *** *** benzene at ground level ASR *** 01/28/06
 *** 18:53:5

**MODELOPTS: PAGE 5
 CONC RURAL ELEV FLGPOL GRDRIS MSGPRO

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL **
 INCLUDING SOURCE(S): SRC30 , SRC31 , SRC32 , SRC1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS **

** CONC OF OTHER IN MICROGRAMS/M**3

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
846000.00	815450.00	0.00010	846050.00	815450.00	0.00010
846100.00	815450.00	0.00008	846150.00	815450.00	0.00008
846200.00	815450.00	0.00008	846250.00	815450.00	0.00009
846300.00	815450.00	0.00032	846350.00	815450.00	0.00056
846400.00	815450.00	0.00058	846450.00	815450.00	0.00055
846500.00	815450.00	0.00056	846550.00	815450.00	0.00050
846600.00	815450.00	0.00042	846650.00	815450.00	0.00034
846700.00	815450.00	0.00031	846750.00	815450.00	0.00032
846800.00	815450.00	0.00033	846850.00	815450.00	0.00034
846900.00	815450.00	0.00036	846950.00	815450.00	0.00041
847000.00	815450.00	0.00038	847050.00	815450.00	0.00032
847100.00	815450.00	0.00032	847150.00	815450.00	0.00030
847200.00	815450.00	0.00028	847250.00	815450.00	0.00024
847300.00	815450.00	0.00020	847350.00	815450.00	0.00018
847400.00	815450.00	0.00016	847450.00	815450.00	0.00010
845500.00	815500.00	0.00007	845550.00	815500.00	0.00036
845600.00	815500.00	0.00041	845650.00	815500.00	0.00043
845700.00	815500.00	0.00050	845750.00	815500.00	0.00049

845800.00	815500.00	0.00045	845850.00	815500.00	0.00045
845900.00	815500.00	0.00042	845950.00	815500.00	0.00026
846000.00	815500.00	0.00010	846050.00	815500.00	0.00008
846100.00	815500.00	0.00008	846150.00	815500.00	0.00007
846200.00	815500.00	0.00007	846250.00	815500.00	0.00010
846300.00	815500.00	0.00033	846350.00	815500.00	0.00054
846400.00	815500.00	0.00055	846450.00	815500.00	0.00057
846500.00	815500.00	0.00058	846550.00	815500.00	0.00054
846600.00	815500.00	0.00046	846650.00	815500.00	0.00037
846700.00	815500.00	0.00032	846750.00	815500.00	0.00033
846800.00	815500.00	0.00033	846850.00	815500.00	0.00033
846900.00	815500.00	0.00035	846950.00	815500.00	0.00040
847000.00	815500.00	0.00038	847050.00	815500.00	0.00034
847100.00	815500.00	0.00031	847150.00	815500.00	0.00030
847200.00	815500.00	0.00028	847250.00	815500.00	0.00025
847300.00	815500.00	0.00022	847350.00	815500.00	0.00019
847400.00	815500.00	0.00018	847450.00	815500.00	0.00011
845500.00	815500.00	0.00008	845550.00	815500.00	0.00037
845600.00	815500.00	0.00039	845650.00	815500.00	0.00041
845700.00	815500.00	0.00043	845750.00	815500.00	0.00045
845800.00	815500.00	0.00043	845850.00	815500.00	0.00042
845900.00	815500.00	0.00039	845950.00	815500.00	0.00025

1 *** ISCST3 - VERSION 02035 *** *** benzene at ground level ASR *** 01/28/0€

*** 18:53:5
 **MODELOPTS: PAGE €
 CONC RURAL ELEV FLGPOL GRDRIS MSGPRO

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL **
 INCLUDING SOURCE(S): SRC30 ,SRC31 ,SRC32 ,SRC1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS **

** CONC OF OTHER IN MICROGRAMS/M**3

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
846000.00	815550.00	0.00011	846050.00	815550.00	0.00008
846100.00	815550.00	0.00007	846150.00	815550.00	0.00007
846200.00	815550.00	0.00007	846250.00	815550.00	0.00010
846300.00	815550.00	0.00031	846350.00	815550.00	0.00051
846400.00	815550.00	0.00052	846450.00	815550.00	0.00053
846500.00	815550.00	0.00058	846550.00	815550.00	0.00056
846600.00	815550.00	0.00047	846650.00	815550.00	0.00039
846700.00	815550.00	0.00034	846750.00	815550.00	0.00033
846800.00	815550.00	0.00033	846850.00	815550.00	0.00033
846900.00	815550.00	0.00035	846950.00	815550.00	0.00037
847000.00	815550.00	0.00036	847050.00	815550.00	0.00035
847100.00	815550.00	0.00030	847150.00	815550.00	0.00026
847200.00	815550.00	0.00026	847250.00	815550.00	0.00026
847300.00	815550.00	0.00023	847350.00	815550.00	0.00021
847400.00	815550.00	0.00018	847450.00	815550.00	0.00011
845500.00	815600.00	0.00008	845550.00	815600.00	0.00025
845600.00	815600.00	0.00039	845650.00	815600.00	0.00040
845700.00	815600.00	0.00040	845750.00	815600.00	0.00040
845800.00	815600.00	0.00042	845850.00	815600.00	0.00038
845900.00	815600.00	0.00035	845950.00	815600.00	0.00022
846000.00	815600.00	0.00010	846050.00	815600.00	0.00007
846100.00	815600.00	0.00007	846150.00	815600.00	0.00007
846200.00	815600.00	0.00007	846250.00	815600.00	0.00010
846300.00	815600.00	0.00029	846350.00	815600.00	0.00048
846400.00	815600.00	0.00049	846450.00	815600.00	0.00050
846500.00	815600.00	0.00056	846550.00	815600.00	0.00056
846600.00	815600.00	0.00049	846650.00	815600.00	0.00039
846700.00	815600.00	0.00032	846750.00	815600.00	0.00031
846800.00	815600.00	0.00033	846850.00	815600.00	0.00033
846900.00	815600.00	0.00033	846950.00	815600.00	0.00034
847000.00	815600.00	0.00035	847050.00	815600.00	0.00034
847100.00	815600.00	0.00032	847150.00	815600.00	0.00029
847200.00	815600.00	0.00027	847250.00	815600.00	0.00023
847300.00	815600.00	0.00022	847350.00	815600.00	0.00020
847400.00	815600.00	0.00018	847450.00	815600.00	0.00012
845500.00	815650.00	0.00008	845550.00	815650.00	0.00009
845600.00	815650.00	0.00022	845650.00	815650.00	0.00029
845700.00	815650.00	0.00037	845750.00	815650.00	0.00037
845800.00	815650.00	0.00036	845850.00	815650.00	0.00034
845900.00	815650.00	0.00030	845950.00	815650.00	0.00017

1 *** ISCST3 - VERSION 02035 *** *** benzene at ground level ASR *** 01/28/0€

*** 18:53:5
 **MODELOPTS: PAGE €
 CONC RURAL ELEV FLGPOL GRDRIS MSGPRO

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL **
 INCLUDING SOURCE(S): SRC30 ,SRC31 ,SRC32 ,SRC1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS **

** CONC OF OTHER IN MICROGRAMS/M**3

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
846000.00	815650.00	0.00007	846050.00	815650.00	0.00006
846100.00	815650.00	0.00006	846150.00	815650.00	0.00006
846200.00	815650.00	0.00007	846250.00	815650.00	0.00010
846300.00	815650.00	0.00026	846350.00	815650.00	0.00047
846400.00	815650.00	0.00045	846450.00	815650.00	0.00047
846500.00	815650.00	0.00053	846550.00	815650.00	0.00055
846600.00	815650.00	0.00047	846650.00	815650.00	0.00038
846700.00	815650.00	0.00034	846750.00	815650.00	0.00032
846800.00	815650.00	0.00031	846850.00	815650.00	0.00030

846900.00	815650.00	0.00029	846950.00	815650.00	0.00032
847000.00	815650.00	0.00033	847050.00	815650.00	0.00032
847100.00	815650.00	0.00031	847150.00	815650.00	0.00029
847200.00	815650.00	0.00027	847250.00	815650.00	0.00019
847300.00	815650.00	0.00019	847350.00	815650.00	0.00019
847400.00	815650.00	0.00017	847450.00	815650.00	0.00013
845500.00	815700.00	0.00008	845550.00	815700.00	0.00009
845600.00	815700.00	0.00012	845650.00	815700.00	0.00020
845700.00	815700.00	0.00034	845750.00	815700.00	0.00035
845800.00	815700.00	0.00033	845850.00	815700.00	0.00029
845900.00	815700.00	0.00019	845950.00	815700.00	0.00008
846000.00	815700.00	0.00006	846050.00	815700.00	0.00006
846100.00	815700.00	0.00006	846150.00	815700.00	0.00006
846200.00	815700.00	0.00007	846250.00	815700.00	0.00009
846300.00	815700.00	0.00014	846350.00	815700.00	0.00044
846400.00	815700.00	0.00045	846450.00	815700.00	0.00043
846500.00	815700.00	0.00045	846550.00	815700.00	0.00045
846600.00	815700.00	0.00039	846650.00	815700.00	0.00035
846700.00	815700.00	0.00029	846750.00	815700.00	0.00026
846800.00	815700.00	0.00029	846850.00	815700.00	0.00027
846900.00	815700.00	0.00028	846950.00	815700.00	0.00027
847000.00	815700.00	0.00028	847050.00	815700.00	0.00030
847100.00	815700.00	0.00029	847150.00	815700.00	0.00028
847200.00	815700.00	0.00027	847250.00	815700.00	0.00026
847300.00	815700.00	0.00023	847350.00	815700.00	0.00017
847400.00	815700.00	0.00017	847450.00	815700.00	0.00015
845500.00	815750.00	0.00008	845550.00	815750.00	0.00008
845600.00	815750.00	0.00009	845650.00	815750.00	0.00022
845700.00	815750.00	0.00033	845750.00	815750.00	0.00032
845800.00	815750.00	0.00028	845850.00	815750.00	0.00017
845900.00	815750.00	0.00009	845950.00	815750.00	0.00007

1 *** ISCST3 - VERSION 02035 *** *** benzene at ground level ASR *** 01/28/06

*** 18:53:5

**MODELOPTS: PAGE 5
 CONC RURAL ELEV FLGPOL GRDRIS MSGPRO

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL **
 INCLUDING SOURCE(S): SRC30 , SRC31 , SRC32 , SRC1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS **

** CONC OF OTHER IN MICROGRAMS/M**3

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
846000.00	815750.00	0.00006	846050.00	815750.00	0.00006
846100.00	815750.00	0.00006	846150.00	815750.00	0.00006
846200.00	815750.00	0.00008	846250.00	815750.00	0.00010
846300.00	815750.00	0.00013	846350.00	815750.00	0.00037
846400.00	815750.00	0.00043	846450.00	815750.00	0.00042
846500.00	815750.00	0.00038	846550.00	815750.00	0.00035
846600.00	815750.00	0.00030	846650.00	815750.00	0.00027
846700.00	815750.00	0.00024	846750.00	815750.00	0.00025
846800.00	815750.00	0.00025	846850.00	815750.00	0.00025
846900.00	815750.00	0.00024	846950.00	815750.00	0.00022
847000.00	815750.00	0.00024	847050.00	815750.00	0.00026
847100.00	815750.00	0.00026	847150.00	815750.00	0.00025
847200.00	815750.00	0.00024	847250.00	815750.00	0.00024
847300.00	815750.00	0.00024	847350.00	815750.00	0.00018
847400.00	815750.00	0.00019	847450.00	815750.00	0.00015
845500.00	815800.00	0.00008	845550.00	815800.00	0.00008
845600.00	815800.00	0.00012	845650.00	815800.00	0.00030
845700.00	815800.00	0.00032	845750.00	815800.00	0.00029
845800.00	815800.00	0.00020	845850.00	815800.00	0.00008
845900.00	815800.00	0.00006	845950.00	815800.00	0.00006
846000.00	815800.00	0.00006	846050.00	815800.00	0.00006
846100.00	815800.00	0.00006	846150.00	815800.00	0.00006
846200.00	815800.00	0.00008	846250.00	815800.00	0.00010
846300.00	815800.00	0.00012	846350.00	815800.00	0.00030
846400.00	815800.00	0.00039	846450.00	815800.00	0.00039
846500.00	815800.00	0.00036	846550.00	815800.00	0.00032
846600.00	815800.00	0.00027	846650.00	815800.00	0.00024
846700.00	815800.00	0.00023	846750.00	815800.00	0.00022
846800.00	815800.00	0.00023	846850.00	815800.00	0.00022
846900.00	815800.00	0.00021	846950.00	815800.00	0.00019
847000.00	815800.00	0.00020	847050.00	815800.00	0.00021
847100.00	815800.00	0.00022	847150.00	815800.00	0.00024
847200.00	815800.00	0.00024	847250.00	815800.00	0.00024
847300.00	815800.00	0.00023	847350.00	815800.00	0.00021
847400.00	815800.00	0.00019	847450.00	815800.00	0.00016
845500.00	815850.00	0.00007	845550.00	815850.00	0.00008
845600.00	815850.00	0.00010	845650.00	815850.00	0.00024
845700.00	815850.00	0.00028	845750.00	815850.00	0.00025
845800.00	815850.00	0.00014	845850.00	815850.00	0.00006
845900.00	815850.00	0.00006	845950.00	815850.00	0.00006

1 *** ISCST3 - VERSION 02035 *** *** benzene at ground level ASR *** 01/28/06

*** 18:53:5

**MODELOPTS: PAGE 5
 CONC RURAL ELEV FLGPOL GRDRIS MSGPRO

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL **
 INCLUDING SOURCE(S): SRC30 , SRC31 , SRC32 , SRC1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS **

** CONC OF OTHER IN MICROGRAMS/M**3

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
-------------	-------------	------	-------------	-------------	------

846000.00	815850.00	0.00005	846050.00	815850.00	0.00005
846100.00	815850.00	0.00006	846150.00	815850.00	0.00007
846200.00	815850.00	0.00008	846250.00	815850.00	0.00010
846300.00	815850.00	0.00012	846350.00	815850.00	0.00016
846400.00	815850.00	0.00028	846450.00	815850.00	0.00028
846500.00	815850.00	0.00032	846550.00	815850.00	0.00031
846600.00	815850.00	0.00026	846650.00	815850.00	0.00023
846700.00	815850.00	0.00021	846750.00	815850.00	0.00021
846800.00	815850.00	0.00019	846850.00	815850.00	0.00019
846900.00	815850.00	0.00018	846950.00	815850.00	0.00017
847000.00	815850.00	0.00018	847050.00	815850.00	0.00020
847100.00	815850.00	0.00023	847150.00	815850.00	0.00025
847200.00	815850.00	0.00025	847250.00	815850.00	0.00025
847300.00	815850.00	0.00023	847350.00	815850.00	0.00022
847400.00	815850.00	0.00017	847450.00	815850.00	0.00017
845500.00	815900.00	0.00007	845550.00	815900.00	0.00007
845600.00	815900.00	0.00008	845650.00	815900.00	0.00017
845700.00	815900.00	0.00016	845750.00	815900.00	0.00009
845800.00	815900.00	0.00007	845850.00	815900.00	0.00006
845900.00	815900.00	0.00006	845950.00	815900.00	0.00005
846000.00	815900.00	0.00005	846050.00	815900.00	0.00005
846100.00	815900.00	0.00006	846150.00	815900.00	0.00007
846200.00	815900.00	0.00008	846250.00	815900.00	0.00010
846300.00	815900.00	0.00012	846350.00	815900.00	0.00014
846400.00	815900.00	0.00024	846450.00	815900.00	0.00024
846500.00	815900.00	0.00029	846550.00	815900.00	0.00029
846600.00	815900.00	0.00025	846650.00	815900.00	0.00022
846700.00	815900.00	0.00019	846750.00	815900.00	0.00018
846800.00	815900.00	0.00017	846850.00	815900.00	0.00017
846900.00	815900.00	0.00017	846950.00	815900.00	0.00017
847000.00	815900.00	0.00019	847050.00	815900.00	0.00022
847100.00	815900.00	0.00025	847150.00	815900.00	0.00026
847200.00	815900.00	0.00025	847250.00	815900.00	0.00024
847300.00	815900.00	0.00023	847350.00	815900.00	0.00021
847400.00	815900.00	0.00017	847450.00	815900.00	0.00017
845500.00	815950.00	0.00007	845550.00	815950.00	0.00007
845600.00	815950.00	0.00007	845650.00	815950.00	0.00009
845700.00	815950.00	0.00009	845750.00	815950.00	0.00006
845800.00	815950.00	0.00006	845850.00	815950.00	0.00006
845900.00	815950.00	0.00005	845950.00	815950.00	0.00005

1 *** ISCST3 - VERSION 02035 *** *** benzene at ground level ASR *** 01/28/08
 *** 18:53:5

**MODELOPTS: PAGE €
 CONC RURAL ELEV FLGPOL GRDRIS MSGPRO

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL **
 INCLUDING SOURCE(S): SRC30 , SRC31 , SRC32 , SRC1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS **

** CONC OF OTHER IN MICROGRAMS/M**3

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
846000.00	815950.00	0.00005	846050.00	815950.00	0.00005
846100.00	815950.00	0.00006	846150.00	815950.00	0.00007
846200.00	815950.00	0.00008	846250.00	815950.00	0.00010
846300.00	815950.00	0.00012	846350.00	815950.00	0.00012
846400.00	815950.00	0.00013	846450.00	815950.00	0.00019
846500.00	815950.00	0.00022	846550.00	815950.00	0.00027
846600.00	815950.00	0.00023	846650.00	815950.00	0.00021
846700.00	815950.00	0.00019	846750.00	815950.00	0.00016
846800.00	815950.00	0.00016	846850.00	815950.00	0.00016
846900.00	815950.00	0.00017	846950.00	815950.00	0.00019
847000.00	815950.00	0.00022	847050.00	815950.00	0.00024
847100.00	815950.00	0.00024	847150.00	815950.00	0.00025
847200.00	815950.00	0.00024	847250.00	815950.00	0.00023
847300.00	815950.00	0.00022	847350.00	815950.00	0.00019
847400.00	815950.00	0.00019	847450.00	815950.00	0.00017
845500.00	816000.00	0.00007	845550.00	816000.00	0.00007
845600.00	816000.00	0.00007	845650.00	816000.00	0.00007
845700.00	816000.00	0.00006	845750.00	816000.00	0.00006
845800.00	816000.00	0.00006	845850.00	816000.00	0.00005
845900.00	816000.00	0.00005	845950.00	816000.00	0.00005
846000.00	816000.00	0.00005	846050.00	816000.00	0.00005
846100.00	816000.00	0.00006	846150.00	816000.00	0.00007
846200.00	816000.00	0.00008	846250.00	816000.00	0.00010
846300.00	816000.00	0.00012	846350.00	816000.00	0.00012
846400.00	816000.00	0.00011	846450.00	816000.00	0.00010
846500.00	816000.00	0.00018	846550.00	816000.00	0.00025
846600.00	816000.00	0.00023	846650.00	816000.00	0.00020
846700.00	816000.00	0.00018	846750.00	816000.00	0.00016
846800.00	816000.00	0.00015	846850.00	816000.00	0.00016
846900.00	816000.00	0.00018	846950.00	816000.00	0.00021
847000.00	816000.00	0.00023	847050.00	816000.00	0.00024
847100.00	816000.00	0.00024	847150.00	816000.00	0.00024
847200.00	816000.00	0.00021	847250.00	816000.00	0.00021
847300.00	816000.00	0.00020	847350.00	816000.00	0.00021
847400.00	816000.00	0.00020	847450.00	816000.00	0.00017
845500.00	816050.00	0.00006	845550.00	816050.00	0.00006
845600.00	816050.00	0.00006	845650.00	816050.00	0.00006
845700.00	816050.00	0.00006	845750.00	816050.00	0.00005
845800.00	816050.00	0.00005	845850.00	816050.00	0.00005
845900.00	816050.00	0.00005	845950.00	816050.00	0.00005

1 *** ISCST3 - VERSION 02035 *** *** benzene at ground level ASR *** 01/28/08
 *** 18:53:5

**MODELOPTS: PAGE €
 CONC RURAL ELEV FLGPOL GRDRIS MSGPRO

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL **
 INCLUDING SOURCE(S): SRC30 ,SRC31 ,SRC32 ,SRC1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS **

** CONC OF OTHER IN MICROGRAMS/M**3

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
846000.00	816050.00	0.00005	846050.00	816050.00	0.00005
846100.00	816050.00	0.00006	846150.00	816050.00	0.00007
846200.00	816050.00	0.00008	846250.00	816050.00	0.00010
846300.00	816050.00	0.00011	846350.00	816050.00	0.00011
846400.00	816050.00	0.00011	846450.00	816050.00	0.00010
846500.00	816050.00	0.00016	846550.00	816050.00	0.00023
846600.00	816050.00	0.00022	846650.00	816050.00	0.00021
846700.00	816050.00	0.00018	846750.00	816050.00	0.00016
846800.00	816050.00	0.00016	846850.00	816050.00	0.00016
846900.00	816050.00	0.00020	846950.00	816050.00	0.00023
847000.00	816050.00	0.00023	847050.00	816050.00	0.00022
847100.00	816050.00	0.00022	847150.00	816050.00	0.00022
847200.00	816050.00	0.00020	847250.00	816050.00	0.00022
847300.00	816050.00	0.00022	847350.00	816050.00	0.00022
847400.00	816050.00	0.00020	847450.00	816050.00	0.00018
845500.00	816100.00	0.00006	845550.00	816100.00	0.00006
845600.00	816100.00	0.00006	845650.00	816100.00	0.00006
845700.00	816100.00	0.00005	845750.00	816100.00	0.00005
845800.00	816100.00	0.00005	845850.00	816100.00	0.00005
845900.00	816100.00	0.00005	845950.00	816100.00	0.00005
846000.00	816100.00	0.00005	846050.00	816100.00	0.00005
846100.00	816100.00	0.00006	846150.00	816100.00	0.00007
846200.00	816100.00	0.00009	846250.00	816100.00	0.00010
846300.00	816100.00	0.00011	846350.00	816100.00	0.00011
846400.00	816100.00	0.00010	846450.00	816100.00	0.00009
846500.00	816100.00	0.00015	846550.00	816100.00	0.00019
846600.00	816100.00	0.00021	846650.00	816100.00	0.00019
846700.00	816100.00	0.00017	846750.00	816100.00	0.00015
846800.00	816100.00	0.00015	846850.00	816100.00	0.00016
846900.00	816100.00	0.00019	846950.00	816100.00	0.00022
847000.00	816100.00	0.00023	847050.00	816100.00	0.00021
847100.00	816100.00	0.00020	847150.00	816100.00	0.00019
847200.00	816100.00	0.00019	847250.00	816100.00	0.00022
847300.00	816100.00	0.00022	847350.00	816100.00	0.00021
847400.00	816100.00	0.00020	847450.00	816100.00	0.00018
845500.00	816150.00	0.00006	845550.00	816150.00	0.00006
845600.00	816150.00	0.00006	845650.00	816150.00	0.00005
845700.00	816150.00	0.00005	845750.00	816150.00	0.00005
845800.00	816150.00	0.00005	845850.00	816150.00	0.00005
845900.00	816150.00	0.00005	845950.00	816150.00	0.00004

1 *** ISCST3 - VERSION 02035 *** benzene at ground level ASR *** 01/28/08

*** 18:53:5

**MODELOPTS: RURAL ELEV FLGPOL GRDRIS MSGPRO PAGE 6

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL **
 INCLUDING SOURCE(S): SRC30 ,SRC31 ,SRC32 ,SRC1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS **

** CONC OF OTHER IN MICROGRAMS/M**3

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
846000.00	816150.00	0.00005	846050.00	816150.00	0.00005
846100.00	816150.00	0.00006	846150.00	816150.00	0.00007
846200.00	816150.00	0.00009	846250.00	816150.00	0.00010
846300.00	816150.00	0.00011	846350.00	816150.00	0.00011
846400.00	816150.00	0.00009	846450.00	816150.00	0.00009
846500.00	816150.00	0.00009	846550.00	816150.00	0.00014
846600.00	816150.00	0.00015	846650.00	816150.00	0.00017
846700.00	816150.00	0.00016	846750.00	816150.00	0.00015
846800.00	816150.00	0.00014	846850.00	816150.00	0.00015
846900.00	816150.00	0.00019	846950.00	816150.00	0.00022
847000.00	816150.00	0.00021	847050.00	816150.00	0.00019
847100.00	816150.00	0.00018	847150.00	816150.00	0.00017
847200.00	816150.00	0.00021	847250.00	816150.00	0.00022
847300.00	816150.00	0.00021	847350.00	816150.00	0.00021
847400.00	816150.00	0.00019	847450.00	816150.00	0.00018
845500.00	816200.00	0.00005	845550.00	816200.00	0.00005
845600.00	816200.00	0.00005	845650.00	816200.00	0.00005
845700.00	816200.00	0.00005	845750.00	816200.00	0.00005
845800.00	816200.00	0.00004	845850.00	816200.00	0.00004
845900.00	816200.00	0.00004	845950.00	816200.00	0.00004
846000.00	816200.00	0.00005	846050.00	816200.00	0.00005
846100.00	816200.00	0.00006	846150.00	816200.00	0.00008
846200.00	816200.00	0.00009	846250.00	816200.00	0.00010
846300.00	816200.00	0.00011	846350.00	816200.00	0.00010
846400.00	816200.00	0.00009	846450.00	816200.00	0.00009
846500.00	816200.00	0.00016	846550.00	816200.00	0.00014
846600.00	816200.00	0.00011	846650.00	816200.00	0.00013
846700.00	816200.00	0.00016	846750.00	816200.00	0.00014
846800.00	816200.00	0.00014	846850.00	816200.00	0.00015
846900.00	816200.00	0.00018	846950.00	816200.00	0.00020
847000.00	816200.00	0.00022	847050.00	816200.00	0.00020
847100.00	816200.00	0.00017	847150.00	816200.00	0.00021
847200.00	816200.00	0.00020	847250.00	816200.00	0.00021
847300.00	816200.00	0.00020	847350.00	816200.00	0.00020
847400.00	816200.00	0.00019	847450.00	816200.00	0.00019
845500.00	816250.00	0.00005	845550.00	816250.00	0.00005

845600.00 816250.00 0.00005 845650.00 816250.00 0.00005
845700.00 816250.00 0.00005 845750.00 816250.00 0.00004
845800.00 816250.00 0.00004 845850.00 816250.00 0.00004
845900.00 816250.00 0.00004 845950.00 816250.00 0.00004
1 *** ISCST3 - VERSION 02035 *** benzene at ground level ASR *** 01/28/08
*** 18:53:5

**MODELOPTS: RURAL ELEV FLGPOL GRDRIS MSGPRO PAGE €
CONC

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL **
INCLUDING SOURCE(S): SRC30 , SRC31 , SRC32 , SRC1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS **

** CONC OF OTHER IN MICROGRAMS/M**3

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
846000.00	816250.00	0.00005	846050.00	816250.00	0.00006
846100.00	816250.00	0.00007	846150.00	816250.00	0.00008
846200.00	816250.00	0.00009	846250.00	816250.00	0.00010
846300.00	816250.00	0.00010	846350.00	816250.00	0.00010
846400.00	816250.00	0.00009	846450.00	816250.00	0.00008
846500.00	816250.00	0.00022	846550.00	816250.00	0.00022
846600.00	816250.00	0.00014	846650.00	816250.00	0.00016
846700.00	816250.00	0.00016	846750.00	816250.00	0.00014
846800.00	816250.00	0.00014	846850.00	816250.00	0.00016
846900.00	816250.00	0.00016	846950.00	816250.00	0.00021
847000.00	816250.00	0.00020	847050.00	816250.00	0.00019
847100.00	816250.00	0.00018	847150.00	816250.00	0.00019
847200.00	816250.00	0.00020	847250.00	816250.00	0.00020
847300.00	816250.00	0.00020	847350.00	816250.00	0.00019
847400.00	816250.00	0.00020	847450.00	816250.00	0.00004
845500.00	816300.00	0.00005	845550.00	816300.00	0.00005
845600.00	816300.00	0.00004	845650.00	816300.00	0.00004
845700.00	816300.00	0.00004	845750.00	816300.00	0.00004
845800.00	816300.00	0.00004	845850.00	816300.00	0.00004
845900.00	816300.00	0.00004	845950.00	816300.00	0.00004
846000.00	816300.00	0.00005	846050.00	816300.00	0.00006
846100.00	816300.00	0.00007	846150.00	816300.00	0.00008
846200.00	816300.00	0.00009	846250.00	816300.00	0.00010
846300.00	816300.00	0.00010	846350.00	816300.00	0.00010
846400.00	816300.00	0.00009	846450.00	816300.00	0.00009
846500.00	816300.00	0.00022	846550.00	816300.00	0.00022
846600.00	816300.00	0.00019	846650.00	816300.00	0.00018
846700.00	816300.00	0.00016	846750.00	816300.00	0.00017
846800.00	816300.00	0.00017	846850.00	816300.00	0.00018
846900.00	816300.00	0.00020	846950.00	816300.00	0.00020
847000.00	816300.00	0.00020	847050.00	816300.00	0.00019
847100.00	816300.00	0.00017	847150.00	816300.00	0.00019
847200.00	816300.00	0.00019	847250.00	816300.00	0.00020
847300.00	816300.00	0.00019	847350.00	816300.00	0.00019
847400.00	816300.00	0.00019	847450.00	816300.00	0.00004
845500.00	816350.00	0.00004	845550.00	816350.00	0.00004
845600.00	816350.00	0.00004	845650.00	816350.00	0.00004
845700.00	816350.00	0.00004	845750.00	816350.00	0.00004
845800.00	816350.00	0.00004	845850.00	816350.00	0.00004
845900.00	816350.00	0.00004	845950.00	816350.00	0.00004

1 *** ISCST3 - VERSION 02035 *** benzene at ground level ASR *** 01/28/08
*** 18:53:5

**MODELOPTS: RURAL ELEV FLGPOL GRDRIS MSGPRO PAGE €
CONC

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL **
INCLUDING SOURCE(S): SRC30 , SRC31 , SRC32 , SRC1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS **

** CONC OF OTHER IN MICROGRAMS/M**3

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
846000.00	816350.00	0.00005	846050.00	816350.00	0.00006
846100.00	816350.00	0.00007	846150.00	816350.00	0.00008
846200.00	816350.00	0.00009	846250.00	816350.00	0.00010
846300.00	816350.00	0.00010	846350.00	816350.00	0.00010
846400.00	816350.00	0.00009	846450.00	816350.00	0.00010
846500.00	816350.00	0.00022	846550.00	816350.00	0.00022
846600.00	816350.00	0.00020	846650.00	816350.00	0.00017
846700.00	816350.00	0.00015	846750.00	816350.00	0.00021
846800.00	816350.00	0.00018	846850.00	816350.00	0.00020
846900.00	816350.00	0.00020	846950.00	816350.00	0.00019
847000.00	816350.00	0.00019	847050.00	816350.00	0.00017
847100.00	816350.00	0.00018	847150.00	816350.00	0.00018
847200.00	816350.00	0.00019	847250.00	816350.00	0.00018
847300.00	816350.00	0.00019	847350.00	816350.00	0.00018
847400.00	816350.00	0.00016	847450.00	816350.00	0.00004
845500.00	816400.00	0.00004	845550.00	816400.00	0.00004
845600.00	816400.00	0.00004	845650.00	816400.00	0.00004
845700.00	816400.00	0.00004	845750.00	816400.00	0.00004
845800.00	816400.00	0.00004	845850.00	816400.00	0.00004
845900.00	816400.00	0.00004	845950.00	816400.00	0.00004
846000.00	816400.00	0.00005	846050.00	816400.00	0.00006
846100.00	816400.00	0.00007	846150.00	816400.00	0.00008
846200.00	816400.00	0.00009	846250.00	816400.00	0.00010
846300.00	816400.00	0.00010	846350.00	816400.00	0.00009
846400.00	816400.00	0.00010	846450.00	816400.00	0.00014
846500.00	816400.00	0.00022	846550.00	816400.00	0.00023
846600.00	816400.00	0.00021	846650.00	816400.00	0.00019

846700.00	816400.00	0.00016	846750.00	816400.00	0.00014
846800.00	816400.00	0.00014	846850.00	816400.00	0.00014
846900.00	816400.00	0.00012	846950.00	816400.00	0.00020
847000.00	816400.00	0.00017	847050.00	816400.00	0.00017
847100.00	816400.00	0.00017	847150.00	816400.00	0.00018
847200.00	816400.00	0.00018	847250.00	816400.00	0.00018
847300.00	816400.00	0.00019	847350.00	816400.00	0.00016
847400.00	816400.00	0.00014	847450.00	816400.00	0.00004
845500.00	816450.00	0.00004	845550.00	816450.00	0.00004
845600.00	816450.00	0.00004	845650.00	816450.00	0.00004
845700.00	816450.00	0.00004	845750.00	816450.00	0.00004
845800.00	816450.00	0.00004	845850.00	816450.00	0.00004
845900.00	816450.00	0.00004	845950.00	816450.00	0.00004

1 *** ICSCT3 - VERSION 02035 *** benzene at ground level ASR *** 01/28/06
 *** 18:53:5

**MODELOPTS: PAGE €
 CONC RURAL ELEV FLGPOL GRDRIS MSGPRO

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL **
 INCLUDING SOURCE(S): SRC30 , SRC31 , SRC32 , SRC1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS **

** CONC OF OTHER IN MICROGRAMS/M**3

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
846000.00	816450.00	0.00005	846050.00	816450.00	0.00006
846100.00	816450.00	0.00007	846150.00	816450.00	0.00008
846200.00	816450.00	0.00009	846250.00	816450.00	0.00010
846300.00	816450.00	0.00010	846350.00	816450.00	0.00009
846400.00	816450.00	0.00008	846450.00	816450.00	0.00009
846500.00	816450.00	0.00013	846550.00	816450.00	0.00019
846600.00	816450.00	0.00019	846650.00	816450.00	0.00019
846700.00	816450.00	0.00019	846750.00	816450.00	0.00019
846800.00	816450.00	0.00019	846850.00	816450.00	0.00017
846900.00	816450.00	0.00016	846950.00	816450.00	0.00015
847000.00	816450.00	0.00016	847050.00	816450.00	0.00016
847100.00	816450.00	0.00018	847150.00	816450.00	0.00017
847200.00	816450.00	0.00018	847250.00	816450.00	0.00017
847300.00	816450.00	0.00017	847350.00	816450.00	0.00016
847400.00	816450.00	0.00012	847450.00	816450.00	0.00004
845500.00	816500.00	0.00004	845550.00	816500.00	0.00004
845600.00	816500.00	0.00004	845650.00	816500.00	0.00003
845700.00	816500.00	0.00003	845750.00	816500.00	0.00003
845800.00	816500.00	0.00003	845850.00	816500.00	0.00003
845900.00	816500.00	0.00004	845950.00	816500.00	0.00004
846000.00	816500.00	0.00005	846050.00	816500.00	0.00005
846100.00	816500.00	0.00006	846150.00	816500.00	0.00007
846200.00	816500.00	0.00008	846250.00	816500.00	0.00008
846300.00	816500.00	0.00008	846350.00	816500.00	0.00007
846400.00	816500.00	0.00006	846450.00	816500.00	0.00006
846500.00	816500.00	0.00005	846550.00	816500.00	0.00012
846600.00	816500.00	0.00015	846650.00	816500.00	0.00016
846700.00	816500.00	0.00016	846750.00	816500.00	0.00019
846800.00	816500.00	0.00021	846850.00	816500.00	0.00018
846900.00	816500.00	0.00018	846950.00	816500.00	0.00018
847000.00	816500.00	0.00017	847050.00	816500.00	0.00017
847100.00	816500.00	0.00017	847150.00	816500.00	0.00018
847200.00	816500.00	0.00017	847250.00	816500.00	0.00017
847300.00	816500.00	0.00017	847350.00	816500.00	0.00014
847400.00	816500.00	0.00011	847450.00	816500.00	0.00003
846571.12	814578.88	0.00054	846365.00	814517.00	0.00025
846457.94	814553.94	0.00131	846550.88	814590.81	0.00166
846579.00	814602.00	0.00129	846620.81	814692.88	0.00050
846625.00	814702.00	0.00038	846526.06	814687.31	0.02819
846427.19	814672.62	0.00060	846328.25	814658.00	0.00014

1 *** ICSCT3 - VERSION 02035 *** benzene at ground level ASR *** 01/28/06
 *** 18:53:5

**MODELOPTS: PAGE €
 CONC RURAL ELEV FLGPOL GRDRIS MSGPRO

*** THE ANNUAL (1 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL **
 INCLUDING SOURCE(S): SRC30 , SRC31 , SRC32 , SRC1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS **

** CONC OF OTHER IN MICROGRAMS/M**3

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
846315.00	814656.00	0.00013	846348.88	814561.88	0.00025

1 *** ICSCT3 - VERSION 02035 *** benzene at ground level ASR *** 01/28/06
 *** 18:53:5

**MODELOPTS: PAGE €
 CONC RURAL ELEV FLGPOL GRDRIS MSGPRO

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL **
 INCLUDING SOURCE(S): SRC30 , SRC31 , SRC32 , SRC1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS **

** CONC OF OTHER IN MICROGRAMS/M**3

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
846116.00	814823.00	0.00250	(06042509)	846500.00	814560.00	0.00277	(06122112)
846511.00	814339.00	0.00285	(06122813)	846220.00	815380.00	0.00212	(06092511)
846077.00	815374.00	0.00212	(06092501)	846210.50	815485.00	0.00198	(06071910)

846090.69	815717.94	0.00179	(06071910)	846139.44	815840.12	0.00187	(06081107)
846324.62	815907.00	0.00182	(06051218)	846373.00	816033.19	0.00180	(06052120)
846116.00	814823.00	0.00253	(06042509)	846500.00	814560.00	0.00719	(06051711)
846511.00	814339.00	0.00299	(06051809)	846220.00	815380.00	0.00214	(06092511)
846077.00	815374.00	0.00227	(06080924)	846210.50	815485.00	0.00200	(06071910)
846090.69	815717.94	0.00179	(06071910)	846139.44	815840.12	0.00191	(06081107)
846324.62	815907.00	0.00188	(06051218)	846373.00	816033.19	0.00184	(06052120)
846116.00	814823.00	0.00309	(06052113)	846500.00	814560.00	0.03756	(06051712)
846511.00	814339.00	0.00540	(06051715)	846220.00	815380.00	0.00236	(06081104)
846077.00	815374.00	0.00272	(06080924)	846210.50	815485.00	0.00209	(06092322)
846090.69	815717.94	0.00212	(06052124)	846139.44	815840.12	0.00227	(06062907)
846324.62	815907.00	0.00232	(06070424)	846373.00	816033.19	0.00232	(06070503)
846116.00	814823.00	0.00608	(06042017)	846500.00	814560.00	0.08755	(06022822)
846511.00	814339.00	0.01071	(06051713)	846220.00	815380.00	0.00551	(06052123)
846077.00	815374.00	0.00552	(06110803)	846210.50	815485.00	0.00569	(06092322)
846090.69	815717.94	0.00521	(06052124)	846139.44	815840.12	0.00510	(06040323)
845881.00	815902.62	0.00495	(06102602)	845648.94	816016.62	0.00492	(06081402)
846324.62	815907.00	0.00523	(06071110)	846373.00	816033.19	0.00502	(06100718)
845500.00	813500.00	0.00293	(06110504)	845550.00	813500.00	0.00296	(06092006)
845600.00	813500.00	0.00295	(06120901)	845650.00	813500.00	0.00294	(06032905)
845700.00	813500.00	0.00297	(06081305)	845750.00	813500.00	0.00299	(06092206)
845800.00	813500.00	0.00297	(06102706)	845850.00	813500.00	0.00298	(06092907)
845900.00	813500.00	0.00294	(06100207)	845950.00	813500.00	0.00295	(06110906)
846000.00	813500.00	0.00298	(06091624)	846050.00	813500.00	0.00300	(06091802)
846100.00	813500.00	0.00302	(06110606)	846150.00	813500.00	0.00307	(06111310)
846200.00	813500.00	0.00308	(06042910)	846250.00	813500.00	0.00305	(06091607)
846300.00	813500.00	0.00313	(06041311)	846350.00	813500.00	0.00310	(06112307)
846400.00	813500.00	0.00308	(06120107)	846450.00	813500.00	0.00318	(06041310)
846500.00	813500.00	0.00310	(06112321)	846550.00	813500.00	0.00312	(06112123)
846600.00	813500.00	0.00308	(06022607)	846650.00	813500.00	0.00309	(06121108)
846700.00	813500.00	0.00307	(06041403)	846750.00	813500.00	0.00280	(06012904)
846800.00	813500.00	0.00265	(06112219)	846850.00	813500.00	0.00211	(06112219)
846900.00	813500.00	0.00311	(06041405)	846950.00	813500.00	0.00288	(06060916)
847000.00	813500.00	0.00301	(06071322)	847050.00	813500.00	0.00314	(06090703)
847100.00	813500.00	0.00309	(06081905)	847150.00	813500.00	0.00300	(06071406)
847200.00	813500.00	0.00276	(06082004)	847250.00	813500.00	0.00303	(06061002)
847300.00	813500.00	0.00314	(06081806)	847350.00	813500.00	0.00306	(06091519)

1 *** ISCST3 - VERSION 02035 *** *** benzene at ground level ASR *** 01/28/0*

*** 18:53:5

**MODELOPTs: PAGE 6
 CONC RURAL ELEV FLGPOL GRDRIS MSGPRO

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL **
 INCLUDING SOURCE(S): SRC30 , SRC31 , SRC32 , SRC1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS **

** CONC OF OTHER IN MICROGRAMS/M**3

X-COORD (M)	Y-COORD (M)	CONC	(YMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YMMDDHH)
847400.00	813500.00	0.00312	(06060912)	847450.00	813500.00	0.00292	(06031703)
845500.00	813550.00	0.00295	(06081306)	845550.00	813550.00	0.00289	(06102802)
845600.00	813550.00	0.00297	(06092006)	845650.00	813550.00	0.00285	(06120901)
845700.00	813550.00	0.00293	(06032905)	845750.00	813550.00	0.00295	(06111206)
845800.00	813550.00	0.00292	(06042822)	845850.00	813550.00	0.00292	(06091805)
845900.00	813550.00	0.00295	(06092907)	845950.00	813550.00	0.00294	(06111203)
846000.00	813550.00	0.00297	(06091724)	846050.00	813550.00	0.00301	(06111201)
846100.00	813550.00	0.00306	(06091807)	846150.00	813550.00	0.00303	(06120907)
846200.00	813550.00	0.00301	(06051506)	846250.00	813550.00	0.00304	(06021823)
846300.00	813550.00	0.00303	(06120102)	846350.00	813550.00	0.00313	(06112307)
846400.00	813550.00	0.00305	(06112403)	846450.00	813550.00	0.00319	(06041310)
846500.00	813550.00	0.00307	(06112321)	846550.00	813550.00	0.00309	(06112123)
846600.00	813550.00	0.00311	(06022607)	846650.00	813550.00	0.00303	(06121108)
846700.00	813550.00	0.00289	(06041403)	846750.00	813550.00	0.00306	(06061006)
846800.00	813550.00	0.00275	(06112219)	846850.00	813550.00	0.00226	(06112802)
846900.00	813550.00	0.00295	(06041405)	846950.00	813550.00	0.00314	(06060916)
847000.00	813550.00	0.00323	(06071322)	847050.00	813550.00	0.00296	(06081905)
847100.00	813550.00	0.00295	(06022004)	847150.00	813550.00	0.00312	(06071406)
847200.00	813550.00	0.00286	(06082004)	847250.00	813550.00	0.00311	(06061009)
847300.00	813550.00	0.00314	(06091519)	847350.00	813550.00	0.00308	(06060912)
847400.00	813550.00	0.00277	(06031703)	847450.00	813550.00	0.00308	(06090605)
845500.00	813600.00	0.00288	(06122020)	845550.00	813600.00	0.00293	(06051520)
845600.00	813600.00	0.00292	(06102802)	845650.00	813600.00	0.00293	(06092006)
845700.00	813600.00	0.00290	(06012008)	845750.00	813600.00	0.00294	(06081305)
845800.00	813600.00	0.00290	(06091619)	845850.00	813600.00	0.00291	(06091704)
845900.00	813600.00	0.00296	(06091805)	845950.00	813600.00	0.00296	(06102907)
846000.00	813600.00	0.00292	(06102707)	846050.00	813600.00	0.00302	(06091601)
846100.00	813600.00	0.00306	(06091802)	846150.00	813600.00	0.00300	(06120919)
846200.00	813600.00	0.00300	(06031304)	846250.00	813600.00	0.00306	(06091304)
846300.00	813600.00	0.00307	(06120102)	846350.00	813600.00	0.00304	(06112307)
846400.00	813600.00	0.00312	(06112806)	846450.00	813600.00	0.00317	(06041310)
846500.00	813600.00	0.00303	(06112321)	846550.00	813600.00	0.00306	(06112123)
846600.00	813600.00	0.00311	(06022607)	846650.00	813600.00	0.00308	(06031219)
846700.00	813600.00	0.00276	(06082014)	846750.00	813600.00	0.00319	(06061006)
846800.00	813600.00	0.00264	(06112219)	846850.00	813600.00	0.00275	(06041405)
846900.00	813600.00	0.00241	(06041405)	846950.00	813600.00	0.00288	(06060916)
847000.00	813600.00	0.00317	(06090703)	847050.00	813600.00	0.00306	(06081905)
847100.00	813600.00	0.00309	(06071406)	847150.00	813600.00	0.00278	(06082004)
847200.00	813600.00	0.00303	(06061009)	847250.00	813600.00	0.00305	(06081806)
847300.00	813600.00	0.00303	(06051105)	847350.00	813600.00	0.00280	(06060912)

1 *** ISCST3 - VERSION 02035 *** *** benzene at ground level ASR *** 01/28/0*

*** 18:53:5

**MODELOPTs: PAGE 6
 CONC RURAL ELEV FLGPOL GRDRIS MSGPRO

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL **
 INCLUDING SOURCE(S): SRC30 , SRC31 , SRC32 , SRC1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS **

** CONC OF OTHER IN MICROGRAMS/M**3

X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)
847400.00	813600.00	0.00304 (06090605)	847450.00	813600.00	0.00309 (06090914)
845500.00	813650.00	0.00283 (06030803)	845550.00	813650.00	0.00288 (06092205)
845600.00	813650.00	0.00290 (06051520)	845650.00	813650.00	0.00291 (06102802)
845700.00	813650.00	0.00291 (06091718)	845750.00	813650.00	0.00286 (06012008)
845800.00	813650.00	0.00294 (06103120)	845850.00	813650.00	0.00299 (06091619)
845900.00	813650.00	0.00295 (06102706)	845950.00	813650.00	0.00297 (06103105)
846000.00	813650.00	0.00295 (06051505)	846050.00	813650.00	0.00300 (06091724)
846100.00	813650.00	0.00304 (06111201)	846150.00	813650.00	0.00299 (06091707)
846200.00	813650.00	0.00306 (06111310)	846250.00	813650.00	0.00305 (06091304)
846300.00	813650.00	0.00308 (06091607)	846350.00	813650.00	0.00311 (06112810)
846400.00	813650.00	0.00313 (06112806)	846450.00	813650.00	0.00312 (06041310)
846500.00	813650.00	0.00303 (06031407)	846550.00	813650.00	0.00302 (06112123)
846600.00	813650.00	0.00308 (06022607)	846650.00	813650.00	0.00316 (06031219)
846700.00	813650.00	0.00257 (06082014)	846750.00	813650.00	0.00309 (06061006)
846800.00	813650.00	0.00230 (06112219)	846850.00	813650.00	0.00303 (06041405)
846900.00	813650.00	0.00294 (06060916)	846950.00	813650.00	0.00324 (06071322)
847000.00	813650.00	0.00286 (06081905)	847050.00	813650.00	0.00286 (06022004)
847100.00	813650.00	0.00304 (06071406)	847150.00	813650.00	0.00288 (06061002)
847200.00	813650.00	0.00307 (06081806)	847250.00	813650.00	0.00298 (06051105)
847300.00	813650.00	0.00298 (06060912)	847350.00	813650.00	0.00292 (06090605)
847400.00	813650.00	0.00308 (06090914)	847450.00	813650.00	0.00301 (06090915)
845500.00	813700.00	0.00288 (06031121)	845550.00	813700.00	0.00281 (06123103)
845600.00	813700.00	0.00289 (06092205)	845650.00	813700.00	0.00284 (06051520)
845700.00	813700.00	0.00287 (06102802)	845750.00	813700.00	0.00296 (06091718)
845800.00	813700.00	0.00287 (06120305)	845850.00	813700.00	0.00290 (06091705)
845900.00	813700.00	0.00296 (06091704)	845950.00	813700.00	0.00298 (06091523)
846000.00	813700.00	0.00298 (06103107)	846050.00	813700.00	0.00291 (06102707)
846100.00	813700.00	0.00306 (06091622)	846150.00	813700.00	0.00300 (06091707)
846200.00	813700.00	0.00301 (06121407)	846250.00	813700.00	0.00308 (06051506)
846300.00	813700.00	0.00305 (06091607)	846350.00	813700.00	0.00305 (06112810)
846400.00	813700.00	0.00304 (06112806)	846450.00	813700.00	0.00310 (06112807)
846500.00	813700.00	0.00309 (06051404)	846550.00	813700.00	0.00296 (06112123)
846600.00	813700.00	0.00301 (06022607)	846650.00	813700.00	0.00315 (06031219)
846700.00	813700.00	0.00244 (06012904)	846750.00	813700.00	0.00274 (06061006)
846800.00	813700.00	0.00235 (06051803)	846850.00	813700.00	0.00287 (06041405)
846900.00	813700.00	0.00302 (06060916)	846950.00	813700.00	0.00313 (06090703)
847000.00	813700.00	0.00301 (06081905)	847050.00	813700.00	0.00315 (06071406)
847100.00	813700.00	0.00273 (06082004)	847150.00	813700.00	0.00308 (06061009)
847200.00	813700.00	0.00311 (06091519)	847250.00	813700.00	0.00306 (06060912)
847300.00	813700.00	0.00274 (06090605)	847350.00	813700.00	0.00303 (06090914)

1 *** ISCS T3 - VERSION 02035 *** benzene at ground level ASR *** 01/28/06
 *** 18:53:5

**MODELOPTS: PAGE 6
 CONC RURAL ELEV FLGPOL GRDRIS MSGPRO

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL **
 INCLUDING SOURCE(S): SRC30 , SRC31 , SRC32 , SRC1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS **

** CONC OF OTHER IN MICROGRAMS/M**3

X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)
847400.00	813700.00	0.00301 (06081919)	847450.00	813700.00	0.00306 (06090917)
845500.00	813750.00	0.00282 (06110302)	845550.00	813750.00	0.00285 (06031121)
845600.00	813750.00	0.00280 (06123103)	845650.00	813750.00	0.00290 (06092205)
845700.00	813750.00	0.00282 (06011904)	845750.00	813750.00	0.00281 (06112022)
845800.00	813750.00	0.00292 (06091718)	845850.00	813750.00	0.00285 (06120305)
845900.00	813750.00	0.00288 (06091705)	845950.00	813750.00	0.00291 (06103007)
846000.00	813750.00	0.00297 (06103105)	846050.00	813750.00	0.00295 (06051505)
846100.00	813750.00	0.00302 (06103106)	846150.00	813750.00	0.00295 (06091303)
846200.00	813750.00	0.00302 (06091201)	846250.00	813750.00	0.00304 (06113005)
846300.00	813750.00	0.00305 (06012101)	846350.00	813750.00	0.00310 (06041311)
846400.00	813750.00	0.00302 (06041521)	846450.00	813750.00	0.00314 (06112807)
846500.00	813750.00	0.00314 (06051404)	846550.00	813750.00	0.00290 (06112123)
846600.00	813750.00	0.00290 (06022607)	846650.00	813750.00	0.00309 (06041403)
846700.00	813750.00	0.00267 (06061006)	846750.00	813750.00	0.00253 (06051718)
846800.00	813750.00	0.00251 (06041405)	846850.00	813750.00	0.00245 (06060916)
846900.00	813750.00	0.00310 (06071322)	846950.00	813750.00	0.00279 (06090703)
847000.00	813750.00	0.00274 (06022004)	847050.00	813750.00	0.00287 (06071406)
847100.00	813750.00	0.00290 (06061009)	847150.00	813750.00	0.00301 (06091519)
847200.00	813750.00	0.00298 (06060912)	847250.00	813750.00	0.00262 (06031703)
847300.00	813750.00	0.00302 (06090605)	847350.00	813750.00	0.00301 (06081919)
847400.00	813750.00	0.00303 (06090917)	847450.00	813750.00	0.00295 (06071305)
845500.00	813800.00	0.00282 (06032702)	845550.00	813800.00	0.00285 (06051603)
845600.00	813800.00	0.00280 (06020221)	845650.00	813800.00	0.00278 (06020523)
845700.00	813800.00	0.00289 (06092205)	845750.00	813800.00	0.00284 (06011904)
845800.00	813800.00	0.00285 (06111305)	845850.00	813800.00	0.00285 (06120504)
845900.00	813800.00	0.00287 (06041516)	845950.00	813800.00	0.00295 (06091619)
846000.00	813800.00	0.00288 (06091523)	846050.00	813800.00	0.00298 (06103107)
846100.00	813800.00	0.00290 (06091116)	846150.00	813800.00	0.00301 (06091622)
846200.00	813800.00	0.00306 (06090920)	846250.00	813800.00	0.00506 (06111310)
846300.00	813800.00	0.00513 (06091304)	846350.00	813800.00	0.00303 (06012122)
846400.00	813800.00	0.00300 (06041605)	846450.00	813800.00	0.00893 (06041420)
846500.00	813800.00	0.01430 (06041416)	846550.00	813800.00	0.01484 (06112304)
846600.00	813800.00	0.01327 (06110604)	846650.00	813800.00	0.00308 (06041403)
846700.00	813800.00	0.00298 (06061006)	846750.00	813800.00	0.00265 (06051718)
846800.00	813800.00	0.00287 (06041405)	846850.00	813800.00	0.00291 (06060916)
846900.00	813800.00	0.00314 (06071322)	846950.00	813800.00	0.00292 (06081905)
847000.00	813800.00	0.00315 (06071406)	847050.00	813800.00	0.00263 (06061002)
847100.00	813800.00	0.00295 (06081806)	847150.00	813800.00	0.00286 (06051105)
847200.00	813800.00	0.00262 (06060912)	847250.00	813800.00	0.00307 (06090605)

847300.00 813800.00 0.00298 (06081919) 847350.00 813800.00 0.00299 (06090917)
 1 *** ISCS T3 - VERSION 02035 *** benzene at ground level ASR *** 01/28/06

*** 18:53:5
 **MODELOPTS: PAGE 7
 CONC RURAL ELEV FLGPOL GRDRIS MSGPRO

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL **
 INCLUDING SOURCE(S): SRC30 , SRC31 , SRC32 , SRC1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS **

** CONC OF OTHER IN MICROGRAMS/M**3

X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)
847400.00	813800.00	0.00291 (06071305)	847450.00	813800.00	0.00281 (06081922)
845500.00	813850.00	0.00285 (06092605)	845550.00	813850.00	0.00275 (06032702)
845600.00	813850.00	0.00286 (06051603)	845650.00	813850.00	0.00279 (06020221)
845700.00	813850.00	0.00277 (06020523)	845750.00	813850.00	0.00287 (06092205)
845800.00	813850.00	0.00284 (06011904)	845850.00	813850.00	0.00283 (06111305)
845900.00	813850.00	0.00283 (06120104)	845950.00	813850.00	0.00289 (06091705)
846000.00	813850.00	0.00296 (06091703)	846050.00	813850.00	0.00289 (06110206)
846100.00	813850.00	0.00292 (06051505)	846150.00	813850.00	0.00300 (06103106)
846200.00	813850.00	0.00300 (06091303)	846250.00	813850.00	0.00502 (06121501)
846300.00	813850.00	0.00514 (06051506)	846350.00	813850.00	0.00510 (06012123)
846400.00	813850.00	0.01273 (06112306)	846450.00	813850.00	0.01743 (06091604)
846500.00	813850.00	0.01629 (06041416)	846550.00	813850.00	0.01720 (06112304)
846600.00	813850.00	0.01506 (06110604)	846650.00	813850.00	0.00291 (06041403)
846700.00	813850.00	0.00304 (06061006)	846750.00	813850.00	0.00286 (06051803)
846800.00	813850.00	0.00281 (06051719)	846850.00	813850.00	0.00275 (06071322)
846900.00	813850.00	0.00284 (06090703)	846950.00	813850.00	0.00261 (06051808)
847000.00	813850.00	0.00260 (06071406)	847050.00	813850.00	0.00299 (06061009)
847100.00	813850.00	0.00307 (06041309)	847150.00	813850.00	0.00283 (06060912)
847200.00	813850.00	0.00304 (06090605)	847250.00	813850.00	0.00293 (06081919)
847300.00	813850.00	0.00294 (06090917)	847350.00	813850.00	0.00287 (06071305)
847400.00	813850.00	0.00286 (06081922)	847450.00	813850.00	0.00301 (06081804)
845500.00	813900.00	0.00274 (06032906)	845550.00	813900.00	0.00282 (06092605)
845600.00	813900.00	0.00281 (06092604)	845650.00	813900.00	0.00284 (06051603)
845700.00	813900.00	0.00276 (06020221)	845750.00	813900.00	0.00275 (06121619)
845800.00	813900.00	0.00284 (06092205)	845850.00	813900.00	0.00279 (06011904)
845900.00	813900.00	0.00285 (06091718)	845950.00	813900.00	0.00285 (06122101)
846000.00	813900.00	0.00289 (06091705)	846050.00	813900.00	0.00289 (06103007)
846100.00	813900.00	0.00297 (06091101)	846150.00	813900.00	0.00292 (06041524)
846200.00	813900.00	0.00499 (06111201)	846250.00	813900.00	0.00511 (06091201)
846300.00	813900.00	0.00510 (06113005)	846350.00	813900.00	0.00528 (06121406)
846400.00	813900.00	0.00528 (06112810)	846450.00	813900.00	0.00532 (06012406)
846500.00	813900.00	0.00635 (06051404)	846550.00	813900.00	0.01186 (06112304)
846600.00	813900.00	0.01134 (06110604)	846650.00	813900.00	0.00362 (06041403)
846700.00	813900.00	0.00305 (06051718)	846750.00	813900.00	0.00304 (06051803)
846800.00	813900.00	0.00268 (06051719)	846850.00	813900.00	0.00317 (06071322)
846900.00	813900.00	0.00280 (06081905)	846950.00	813900.00	0.00308 (06071406)
847000.00	813900.00	0.00264 (06061009)	847050.00	813900.00	0.00304 (06041309)
847100.00	813900.00	0.00289 (06060912)	847150.00	813900.00	0.00291 (06090605)
847200.00	813900.00	0.00283 (06081919)	847250.00	813900.00	0.00287 (06090917)
847300.00	813900.00	0.00282 (06071305)	847350.00	813900.00	0.00290 (06081922)

1 *** ISCS T3 - VERSION 02035 *** benzene at ground level ASR *** 01/28/06

*** 18:53:5
 **MODELOPTS: PAGE 7
 CONC RURAL ELEV FLGPOL GRDRIS MSGPRO

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL **
 INCLUDING SOURCE(S): SRC30 , SRC31 , SRC32 , SRC1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS **

** CONC OF OTHER IN MICROGRAMS/M**3

X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)
847400.00	813900.00	0.00298 (06081804)	847450.00	813900.00	0.00290 (06071407)
845500.00	813950.00	0.00274 (06010419)	845550.00	813950.00	0.00279 (06032906)
845600.00	813950.00	0.00271 (06053102)	845650.00	813950.00	0.00283 (06092604)
845700.00	813950.00	0.00280 (06051603)	845750.00	813950.00	0.00274 (06102704)
845800.00	813950.00	0.00274 (06122004)	845850.00	813950.00	0.00278 (06092205)
845900.00	813950.00	0.00283 (06111202)	845950.00	813950.00	0.00286 (06091718)
846000.00	813950.00	0.00280 (06120201)	846050.00	813950.00	0.00292 (06091121)
846100.00	813950.00	0.00287 (06030124)	846150.00	813950.00	0.00293 (06120202)
846200.00	813950.00	0.00505 (06103106)	846250.00	813950.00	0.00520 (06090920)
846300.00	813950.00	0.00522 (06112803)	846350.00	813950.00	0.00528 (06012101)
846400.00	813950.00	0.00549 (06112810)	846450.00	813950.00	0.00536 (06012406)
846500.00	813950.00	0.00566 (06051404)	846550.00	813950.00	0.00499 (06012015)
846600.00	813950.00	0.00506 (06031219)	846650.00	813950.00	0.00403 (06082014)
846700.00	813950.00	0.00338 (06051718)	846750.00	813950.00	0.00332 (06051719)
846800.00	813950.00	0.00274 (06060916)	846850.00	813950.00	0.00284 (06090703)
846900.00	813950.00	0.00299 (06051808)	846950.00	813950.00	0.00252 (06051808)
847000.00	813950.00	0.00277 (06051720)	847050.00	813950.00	0.00273 (06060912)
847100.00	813950.00	0.00266 (06090605)	847150.00	813950.00	0.00278 (06090914)
847200.00	813950.00	0.00278 (06090917)	847250.00	813950.00	0.00277 (06071305)
847300.00	813950.00	0.00293 (06081922)	847350.00	813950.00	0.00292 (06081804)
847400.00	813950.00	0.00276 (06090916)	847450.00	813950.00	0.00290 (06052816)
845500.00	814000.00	0.00279 (06112514)	845550.00	814000.00	0.00279 (06042521)
845600.00	814000.00	0.00271 (06032906)	845650.00	814000.00	0.00271 (06053102)
845700.00	814000.00	0.00279 (06092604)	845750.00	814000.00	0.00272 (06051603)
845800.00	814000.00	0.00272 (06102704)	845850.00	814000.00	0.00273 (06122004)
845900.00	814000.00	0.00269 (06092205)	845950.00	814000.00	0.00283 (06121620)
846000.00	814000.00	0.00278 (06120104)	846050.00	814000.00	0.00284 (06110119)
846100.00	814000.00	0.00295 (06110123)	846150.00	814000.00	0.00490 (06110206)
846200.00	814000.00	0.00499 (06041524)	846250.00	814000.00	0.00509 (06120405)
846300.00	814000.00	0.00529 (06121407)	846350.00	814000.00	0.00546 (06022224)

846400.00	814000.00	0.00559	(06022301)	846450.00	814000.00	0.00554	(06112806)
846500.00	814000.00	0.00576	(06051404)	846550.00	814000.00	0.00525	(06012015)
846600.00	814000.00	0.00561	(06031219)	846650.00	814000.00	0.00455	(06061006)
846700.00	814000.00	0.00420	(06051718)	846750.00	814000.00	0.00344	(06051719)
846800.00	814000.00	0.00300	(06071322)	846850.00	814000.00	0.00506	(06081905)
846900.00	814000.00	0.00310	(06051808)	846950.00	814000.00	0.00299	(06051720)
847000.00	814000.00	0.00296	(06041309)	847050.00	814000.00	0.00265	(06051722)
847100.00	814000.00	0.00272	(06090914)	847150.00	814000.00	0.00271	(06090915)
847200.00	814000.00	0.00270	(06071305)	847250.00	814000.00	0.00293	(06081922)
847300.00	814000.00	0.00288	(06071407)	847350.00	814000.00	0.00281	(06052816)

1 *** ISCS T3 - VERSION 02035 *** benzene at ground level ASR *** 01/28/06

 **MODELOPTs: PAGE 7
 CONC RURAL ELEV FLGPOL GRDRIS MSGPRO

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL **
 INCLUDING SOURCE(S): SRC30 , SRC31 , SRC32 , SRC1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS **

** CONC OF OTHER IN MICROGRAMS/M**3

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
847400.00	814000.00	0.00291	(06051102)	847450.00	814000.00	0.00285	(06081904)
845500.00	814050.00	0.00272	(06020224)	845550.00	814050.00	0.00273	(06031106)
845600.00	814050.00	0.00273	(06112514)	845650.00	814050.00	0.00276	(06040105)
845700.00	814050.00	0.00268	(06020222)	845750.00	814050.00	0.00270	(06011204)
845800.00	814050.00	0.00273	(06121622)	845850.00	814050.00	0.00268	(06102704)
845900.00	814050.00	0.00272	(06122104)	845950.00	814050.00	0.00266	(06122201)
846000.00	814050.00	0.00285	(06051318)	846050.00	814050.00	0.00288	(06091205)
846100.00	814050.00	0.00312	(06110119)	846150.00	814050.00	0.00483	(06103007)
846200.00	814050.00	0.00507	(06120202)	846250.00	814050.00	0.00528	(06091104)
846300.00	814050.00	0.00538	(06051407)	846350.00	814050.00	0.00528	(06012124)
846400.00	814050.00	0.00552	(06022822)	846450.00	814050.00	0.00565	(06041603)
846500.00	814050.00	0.00583	(06051404)	846550.00	814050.00	0.00550	(06012015)
846600.00	814050.00	0.00593	(06031219)	846650.00	814050.00	0.00525	(06061006)
846700.00	814050.00	0.00474	(06051803)	846750.00	814050.00	0.00316	(06051719)
846800.00	814050.00	0.00274	(06090703)	846850.00	814050.00	0.00398	(06071406)
846900.00	814050.00	0.00303	(06051720)	846950.00	814050.00	0.00306	(06051720)
847000.00	814050.00	0.00299	(06051722)	847050.00	814050.00	0.00279	(06090605)
847100.00	814050.00	0.00265	(06090915)	847150.00	814050.00	0.00262	(06071305)
847200.00	814050.00	0.00291	(06081922)	847250.00	814050.00	0.00288	(06071407)
847300.00	814050.00	0.00290	(06052816)	847350.00	814050.00	0.00281	(06051102)
847400.00	814050.00	0.00289	(06081904)	847450.00	814050.00	0.00288	(06071405)
845500.00	814100.00	0.00273	(06033106)	845550.00	814100.00	0.00273	(06030520)
845600.00	814100.00	0.00272	(06020224)	845650.00	814100.00	0.00274	(06033107)
845700.00	814100.00	0.00274	(06031123)	845750.00	814100.00	0.00273	(06020222)
845800.00	814100.00	0.00267	(06011204)	845850.00	814100.00	0.00271	(06121622)
845900.00	814100.00	0.00263	(06102704)	845950.00	814100.00	0.00274	(06122104)
846000.00	814100.00	0.00278	(06121612)	846050.00	814100.00	0.00307	(06051318)
846100.00	814100.00	0.00483	(06122101)	846150.00	814100.00	0.00504	(06091121)
846200.00	814100.00	0.00523	(06110206)	846250.00	814100.00	0.00516	(06041524)
846300.00	814100.00	0.00541	(06030107)	846350.00	814100.00	0.00571	(06091123)
846400.00	814100.00	0.00555	(06121406)	846450.00	814100.00	0.00543	(06041603)
846500.00	814100.00	0.00594	(06051404)	846550.00	814100.00	0.00572	(06012015)
846600.00	814100.00	0.00589	(06031219)	846650.00	814100.00	0.00522	(06061006)
846700.00	814100.00	0.00522	(06051719)	846750.00	814100.00	0.00268	(06070911)
846800.00	814100.00	0.00327	(06051808)	846850.00	814100.00	0.00338	(06051808)
846900.00	814100.00	0.00356	(06051720)	846950.00	814100.00	0.00334	(06051722)
847000.00	814100.00	0.00279	(06090605)	847050.00	814100.00	0.00257	(06090915)
847100.00	814100.00	0.00254	(06071305)	847150.00	814100.00	0.00287	(06081922)
847200.00	814100.00	0.00282	(06071407)	847250.00	814100.00	0.00287	(06052816)
847300.00	814100.00	0.00261	(06081904)	847350.00	814100.00	0.00272	(06081904)

1 *** ISCS T3 - VERSION 02035 *** benzene at ground level ASR *** 01/28/06

 **MODELOPTs: PAGE 7
 CONC RURAL ELEV FLGPOL GRDRIS MSGPRO

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL **
 INCLUDING SOURCE(S): SRC30 , SRC31 , SRC32 , SRC1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS **

** CONC OF OTHER IN MICROGRAMS/M**3

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
847400.00	814100.00	0.00294	(06071405)	847450.00	814100.00	0.00281	(06081924)
845500.00	814150.00	0.00269	(06051206)	845550.00	814150.00	0.00272	(06011910)
845600.00	814150.00	0.00274	(06033106)	845650.00	814150.00	0.00268	(06030520)
845700.00	814150.00	0.00263	(06031106)	845750.00	814150.00	0.00270	(06031123)
845800.00	814150.00	0.00274	(06040105)	845850.00	814150.00	0.00254	(06011204)
845900.00	814150.00	0.00275	(06091307)	845950.00	814150.00	0.00277	(06121411)
846000.00	814150.00	0.00293	(06121609)	846050.00	814150.00	0.00320	(06121612)
846100.00	814150.00	0.00480	(06122106)	846150.00	814150.00	0.00494	(06120201)
846200.00	814150.00	0.00492	(06032807)	846250.00	814150.00	0.00523	(06120202)
846300.00	814150.00	0.00560	(06091001)	846350.00	814150.00	0.00551	(06051617)
846400.00	814150.00	0.00603	(06072416)	846450.00	814150.00	0.00570	(06041605)
846500.00	814150.00	0.00603	(06051404)	846550.00	814150.00	0.00625	(06051717)
846600.00	814150.00	0.00537	(06031219)	846650.00	814150.00	0.00606	(06051718)
846700.00	814150.00	0.00549	(06051719)	846750.00	814150.00	0.00538	(06071322)
846800.00	814150.00	0.00692	(06071406)	846850.00	814150.00	0.00390	(06051720)
846900.00	814150.00	0.00365	(06051722)	846950.00	814150.00	0.00306	(06051722)
847000.00	814150.00	0.00251	(06060913)	847050.00	814150.00	0.00246	(06071305)
847100.00	814150.00	0.00281	(06081922)	847150.00	814150.00	0.00269	(06071407)
847200.00	814150.00	0.00272	(06052816)	847250.00	814150.00	0.00275	(06081904)
847300.00	814150.00	0.00288	(06071405)	847350.00	814150.00	0.00272	(06061007)
847400.00	814150.00	0.00286	(06061003)	847450.00	814150.00	0.00283	(06083103)

845500.00	814200.00	0.00275	(06042520)	845550.00	814200.00	0.00268	(06030604)
845600.00	814200.00	0.00264	(06011704)	845650.00	814200.00	0.00273	(06011910)
845700.00	814200.00	0.00269	(06010319)	845750.00	814200.00	0.00274	(06013007)
845800.00	814200.00	0.00274	(06033107)	845850.00	814200.00	0.00274	(06040105)
845900.00	814200.00	0.00254	(06020222)	845950.00	814200.00	0.00291	(06091307)
846000.00	814200.00	0.00292	(06121411)	846050.00	814200.00	0.00475	(06122104)
846100.00	814200.00	0.00465	(06011904)	846150.00	814200.00	0.00501	(06122106)
846200.00	814200.00	0.00511	(06091705)	846250.00	814200.00	0.00542	(06110206)
846300.00	814200.00	0.00563	(06091022)	846350.00	814200.00	0.00605	(06091105)
846400.00	814200.00	0.00648	(06072416)	846450.00	814200.00	0.00602	(06051716)
846500.00	814200.00	0.00651	(06051713)	846550.00	814200.00	0.00712	(06051717)
846600.00	814200.00	0.00487	(06041403)	846650.00	814200.00	0.00678	(06051803)
846700.00	814200.00	0.01177	(06060916)	846750.00	814200.00	0.02061	(06022004)
846800.00	814200.00	0.01899	(06061002)	846850.00	814200.00	0.00394	(06051721)
846900.00	814200.00	0.00368	(06051722)	846950.00	814200.00	0.00251	(06060913)
847000.00	814200.00	0.00236	(06071305)	847050.00	814200.00	0.00271	(06081922)
847100.00	814200.00	0.00252	(06052816)	847150.00	814200.00	0.00260	(06051102)
847200.00	814200.00	0.00267	(06081904)	847250.00	814200.00	0.00294	(06071405)
847300.00	814200.00	0.00267	(06061003)	847350.00	814200.00	0.00278	(06061003)

1 *** ISCST3 - VERSION 02035 *** *** benzene at ground level ASR *** 01/28/0*

*** 18:53:5

**MODELOPTS: PAGE 7

CONC RURAL ELEV FLGPOL GRDRIS MSGPRO

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL **
INCLUDING SOURCE(S): SRC30 ,SRC31 ,SRC32 ,SRC1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS **

** CONC OF OTHER IN MICROGRAMS/M**3

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
847400.00	814200.00	0.00293	(06071402)	847450.00	814200.00	0.00241	(06071402)
845500.00	814250.00	0.00259	(06010201)	845550.00	814250.00	0.00271	(06010101)
845600.00	814250.00	0.00273	(06042520)	845650.00	814250.00	0.00268	(06030604)
845700.00	814250.00	0.00257	(06032205)	845750.00	814250.00	0.00273	(06032324)
845800.00	814250.00	0.00263	(06030520)	845850.00	814250.00	0.00263	(06013007)
845900.00	814250.00	0.00267	(06031123)	845950.00	814250.00	0.00267	(06032422)
846000.00	814250.00	0.00458	(06092604)	846050.00	814250.00	0.00455	(06051603)
846100.00	814250.00	0.00492	(06122104)	846150.00	814250.00	0.00480	(06121620)
846200.00	814250.00	0.00511	(06110121)	846250.00	814250.00	0.00551	(06110119)
846300.00	814250.00	0.00602	(06110117)	846350.00	814250.00	0.00662	(06110109)
846400.00	814250.00	0.00718	(06051709)	846450.00	814250.00	0.00743	(06051712)
846500.00	814250.00	0.00785	(06051713)	846550.00	814250.00	0.00811	(06051717)
846600.00	814250.00	0.00570	(06051718)	846650.00	814250.00	0.00742	(06051803)
846700.00	814250.00	0.03211	(06060915)	846750.00	814250.00	0.04076	(06031005)
846800.00	814250.00	0.03309	(06081923)	846850.00	814250.00	0.01598	(06090605)
846900.00	814250.00	0.00246	(06060913)	846950.00	814250.00	0.00226	(06071305)
847000.00	814250.00	0.00256	(06081922)	847050.00	814250.00	0.00263	(06052816)
847100.00	814250.00	0.00244	(06081904)	847150.00	814250.00	0.00282	(06071405)
847200.00	814250.00	0.00252	(06061007)	847250.00	814250.00	0.00286	(06061003)
847300.00	814250.00	0.00290	(06071402)	847350.00	814250.00	0.00248	(06071402)
847400.00	814250.00	0.00285	(06071324)	847450.00	814250.00	0.00267	(06071324)
845500.00	814300.00	0.00263	(06050503)	845550.00	814300.00	0.00263	(06050503)
845600.00	814300.00	0.00253	(06012003)	845650.00	814300.00	0.00266	(06010101)
845700.00	814300.00	0.00268	(06042520)	845750.00	814300.00	0.00265	(06030604)
845800.00	814300.00	0.00251	(06032205)	845850.00	814300.00	0.00271	(06010319)
845900.00	814300.00	0.00285	(06032401)	845950.00	814300.00	0.00279	(06032401)
846000.00	814300.00	0.00487	(06040105)	846050.00	814300.00	0.00453	(06011204)
846100.00	814300.00	0.00460	(06051603)	846150.00	814300.00	0.00511	(06122104)
846200.00	814300.00	0.00523	(06121620)	846250.00	814300.00	0.00570	(06091205)
846300.00	814300.00	0.00633	(06110123)	846350.00	814300.00	0.00708	(06051706)
846400.00	814300.00	0.00798	(06051707)	846450.00	814300.00	0.00862	(06051712)
846500.00	814300.00	0.00948	(06051713)	846550.00	814300.00	0.00920	(06051717)
846600.00	814300.00	0.00814	(06051718)	846650.00	814300.00	0.03128	(06060916)
846700.00	814300.00	0.04566	(06081920)	846750.00	814300.00	0.04348	(06052819)
846800.00	814300.00	0.03959	(06072405)	846850.00	814300.00	0.03022	(06052319)
846900.00	814300.00	0.01206	(06071305)	846950.00	814300.00	0.00236	(06081804)
847000.00	814300.00	0.00259	(06052816)	847050.00	814300.00	0.00253	(06081904)
847100.00	814300.00	0.00289	(06071405)	847150.00	814300.00	0.00278	(06061003)
847200.00	814300.00	0.00280	(06071402)	847250.00	814300.00	0.00253	(06071402)
847300.00	814300.00	0.00284	(06060914)	847350.00	814300.00	0.00257	(06071403)

1 *** ISCST3 - VERSION 02035 *** *** benzene at ground level ASR *** 01/28/0*

*** 18:53:5

**MODELOPTS: PAGE 7

CONC RURAL ELEV FLGPOL GRDRIS MSGPRO

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL **
INCLUDING SOURCE(S): SRC30 ,SRC31 ,SRC32 ,SRC1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS **

** CONC OF OTHER IN MICROGRAMS/M**3

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
847400.00	814300.00	0.00272	(06071403)	847450.00	814300.00	0.00258	(06083102)
845500.00	814350.00	0.00272	(06042520)	845550.00	814350.00	0.00266	(06030524)
845600.00	814350.00	0.00252	(06030524)	845650.00	814350.00	0.00271	(06020108)
845700.00	814350.00	0.00250	(06020108)	845750.00	814350.00	0.00255	(06032911)
845800.00	814350.00	0.00260	(06042520)	845850.00	814350.00	0.00263	(06030604)
845900.00	814350.00	0.00254	(06032324)	845950.00	814350.00	0.00481	(06010319)
846000.00	814350.00	0.00488	(06013007)	846050.00	814350.00	0.00482	(06031123)
846100.00	814350.00	0.00449	(06020222)	846150.00	814350.00	0.00476	(06121622)
846200.00	814350.00	0.00561	(06091308)	846250.00	814350.00	0.00577	(06051318)
846300.00	814350.00	0.00649	(06091205)	846350.00	814350.00	0.00708	(06091218)
846400.00	814350.00	0.00867	(06051705)	846450.00	814350.00	0.01008	(06051710)
846500.00	814350.00	0.01137	(06051713)	846550.00	814350.00	0.01023	(06051717)

846600.00	814350.00	0.01027	(06051718)	846650.00	814350.00	0.04154	(06022003)
846700.00	814350.00	0.05027	(06110607)	846750.00	814350.00	0.04658	(06031703)
846800.00	814350.00	0.03805	(06052319)	846850.00	814350.00	0.03810	(06051104)
846900.00	814350.00	0.01888	(06081904)	846950.00	814350.00	0.00230	(06052816)
847000.00	814350.00	0.00269	(06071405)	847050.00	814350.00	0.00242	(06061003)
847100.00	814350.00	0.00260	(06071402)	847150.00	814350.00	0.00259	(06071402)

Annex A7-1

Detailed Model Results for
Odour & no. of Instances
having Exceedance (Part
A - Predicted 5-second
Odour Results)

Annex A7-1 - Detailed Model Results & No. of Instances having Exceedance

PART A --- PREDICTED 5-SECOND ODOUR RESULTS

Source Height at 10m above ground

ASR	Name	Approx. Maximum Height of Building (m)	Worst Case 1								Worst Case 2								Worst Case 3							
			Maximum 5-second Odour Levels at ASRs								Maximum 5-second Odour Levels								Maximum 5-second Odour Levels							
			1.5m	10m	20m	30m	50m	70m	90m	Highest	1.5m	10m	20m	30m	50m	70m	90m	Highest	1.5m	10m	20m	30m	50m	70m	90m	Highest
A1-1	Proposed C&DM Handling Facility	30	6.1	3.9	1.6	0.9	-	-	-	6.1	6.3	4.1	1.1	0.7	-	-	-	6.3	3.2	2.6	1.3	0.5	-	-	-	3.2
A1-2 (1)	Planned Industrial Uses in TKO 137 (south of Extension) - 1	30	8.9	4.2	1.8	1.5	-	-	-	8.9	2.0	2.3	1.6	0.5	-	-	-	2.3	1.9	2.3	1.8	0.6	-	-	-	2.3
A1-2 (2)	Planned Industrial Uses in TKO 137 (south of Extension) - 2 (outside 200m HKPSG buffer distance)	30	2.7	2.0	0.8	0.6	-	-	-	2.7	1.9	1.7	1.1	0.6	-	-	-	1.9	1.3	1.2	0.9	0.5	-	-	-	1.3
A1-3 (1)	Planned Industrial Uses in TKO 137 (south of TVB City) - 1	30	2.4	2.0	1.3	0.6	-	-	-	2.4	5.5	3.7	1.1	0.7	-	-	-	5.5	23.2	5.1	2.6	1.9	-	-	-	23.2
A1-3 (2)	Planned Industrial Uses in TKO 137 (south of TVB City) - 2 (outside 200m HKPSG buffer distance)	30	1.7	1.5	1.0	0.5	-	-	-	1.7	5.1	3.7	1.4	0.7	-	-	-	5.1	11.4	6.9	2.1	1.2	-	-	-	11.4
A2	TVB City	30	1.9	1.7	1.1	0.6	-	-	-	1.9	4.1	3.1	1.3	0.6	-	-	-	4.1	12.5	5.8	1.5	1.2	-	-	-	12.5
A3	HAESL	30	1.1	1.0	0.7	0.5	-	-	-	1.1	1.9	1.7	1.1	0.5	-	-	-	1.9	3.3	2.5	1.2	0.6	-	-	-	3.3
A4	HAECO Component Overhaul Building	30	1.1	1.0	0.8	0.5	-	-	-	1.1	1.8	1.6	1.1	0.6	-	-	-	1.8	2.4	2.0	1.1	0.5	-	-	-	2.4
A5	Exhibition Services & Logistics Centre	30	0.9	0.8	0.7	0.5	-	-	-	0.9	1.2	1.1	0.8	0.5	-	-	-	1.2	1.7	1.5	1.0	0.5	-	-	-	1.7
A6	Gammon Skanska	30	0.6	0.6	0.5	0.4	-	-	-	0.6	1.0	0.9	0.7	0.5	-	-	-	1.0	1.2	1.1	0.8	0.5	-	-	-	1.2
A7	Yan Hing Machinery Industrial Building	30	1.0	0.9	0.7	0.5	-	-	-	1.0	1.6	1.4	1.0	0.6	-	-	-	1.6	2.7	2.3	1.3	0.5	-	-	-	2.7
A8	Apple Daily	30	0.9	0.8	0.7	0.5	-	-	-	0.9	1.2	1.1	0.8	0.5	-	-	-	1.2	1.9	1.6	1.1	0.5	-	-	-	1.9
A9	Mei Ah Industrial Building	30	1.0	0.9	0.7	0.5	-	-	-	1.0	1.5	1.4	1.0	0.6	-	-	-	1.5	2.4	2.1	1.3	0.6	-	-	-	2.4
A10	Asia Netcom	30	0.9	0.9	0.7	0.5	-	-	-	0.9	1.5	1.3	1.0	0.6	-	-	-	1.5	1.8	1.6	1.0	0.5	-	-	-	1.8
A11	Wellcome Storage	30	1.0	0.9	0.8	0.5	-	-	-	1.0	1.5	1.3	1.0	0.6	-	-	-	1.5	1.9	1.7	1.1	0.6	-	-	-	1.9
A12	Avery Dennison Machinery	30	0.8	0.7	0.6	0.4	-	-	-	0.8	1.0	0.9	0.7	0.5	-	-	-	1.0	1.5	1.4	1.0	0.5	-	-	-	1.5
A13	Hitachi	30	0.7	0.7	0.6	0.4	-	-	-	0.7	1.0	0.9	0.7	0.5	-	-	-	1.0	1.4	1.3	0.9	0.5	-	-	-	1.4
A14	Next Media Co. Ltd	30	0.7	0.6	0.5	0.4	-	-	-	0.7	0.8	0.8	0.6	0.4	-	-	-	0.8	1.2	1.1	0.8	0.5	-	-	-	1.2
A15	Varitronix	30	0.6	0.6	0.5	0.4	-	-	-	0.6	0.8	0.7	0.6	0.4	-	-	-	0.8	0.9	0.9	0.7	0.4	-	-	-	0.9
A16	Four Seas Food Processing Co. Ltd	30	0.5	0.5	0.4	0.3	-	-	-	0.5	0.7	0.6	0.5	0.4	-	-	-	0.7	0.9	0.8	0.6	0.5	-	-	-	0.9
A17	Committed HSBC Office	30	0.6	0.5	0.5	0.4	-	-	-	0.6	0.7	0.6	0.5	0.4	-	-	-	0.7	0.8	0.8	0.6	0.4	-	-	-	0.8
A18	Eastern Pacific Electronics	30	0.5	0.4	0.4	0.3	-	-	-	0.5	0.6	0.5	0.5	0.4	-	-	-	0.6	0.7	0.7	0.5	0.4	-	-	-	0.7
A19	Committed Tung Wah Group of Hospital Aided Primary & Secondary School	30	0.4	0.4	0.3	0.3	-	-	-	0.4	0.5	0.5	0.4	0.3	-	-	-	0.5	0.6	0.5	0.5	0.4	-	-	-	0.6
A20	Committed Dream City	200	0.3	0.3	0.3	0.2	0.1	0.1	0.0	0.3	0.4	0.4	0.4	0.3	0.2	0.1	0.0	0.4	0.5	0.4	0.4	0.3	0.2	0.1	0.0	0.5
A21	Chiaphua-Shinko Centre	30	0.3	0.3	0.3	0.2	-	-	-	0.3	0.4	0.4	0.3	0.3	-	-	-	0.4	0.4	0.4	0.4	0.3	-	-	-	0.4
A22	Shaw Film Studios	30	0.3	0.3	0.2	0.2	-	-	-	0.3	0.3	0.3	0.3	0.2	-	-	-	0.3	0.4	0.4	0.3	0.3	-	-	-	0.4
A23	Oscar by the Sea	170	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.2
A24	Tseung Kwan O Sport Ground	1.5	0.2	-	-	-	-	-	-	0.2	0.2	-	-	-	-	-	-	0.2	0.2	-	-	-	-	-	-	0.2
A25	Tseung Kwan O Town Park	1.5	0.1	-	-	-	-	-	-	0.1	0.2	-	-	-	-	-	-	0.2	0.1	-	-	-	-	-	-	0.1
A26	Leung Sing Tak Primary School	20	0.2	0.1	0.1	-	-	-	-	0.2	0.2	0.2	0.2	-	-	-	-	0.2	0.2	0.2	0.2	-	-	-	-	0.2
A27	Nan Fung Plaza	130	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.2
A28	St Andrew's Church	20	0.2	0.1	0.1	-	-	-	-	0.2	0.2	0.2	0.1	-	-	-	-	0.2	0.2	0.2	0.1	-	-	-	-	0.2
A29	Fung Ching Memorial Primary School	20	0.1	0.1	0.1	-	-	-	-	0.1	0.2	0.2	0.1	-	-	-	-	0.2	0.2	0.2	0.2	-	-	-	-	0.2
A30	On Ning Garden	120	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.2
A31	Sheung Ning Playground	1.5	0.1	-	-	-	-	-	-	0.1	0.1	-	-	-	-	-	-	0.1	0.1	-	-	-	-	-	-	0.1
A32	Tseung Kwan O Swimming Pool	1.5	0.1	-	-	-	-	-	-	0.1	0.1	-	-	-	-	-	-	0.1	0.1	-	-	-	-	-	-	0.1
A33	La Cite Noble	140	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.2
A34	Yuk Ming Court	110	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.2
A35	Ming Tak Estate	110	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.2
A36	Tin Ha Wan Village	10	0.2	0.2	-	-	-	-	-	0.2	0.2	0.2	-	-	-	-	-	0.2	0.2	0.2	-	-	-	-	-	0.2
A37	Tseung Kwan O Hospital	25	0.1	0.1	0.1	0.1	-	-	-	0.1	0.2	0.2	0.1	0.1	-	-	-	0.2	0.2	0.2	0.2	0.2	-	-	-	0.2
A38	Ocean Shore Phase I	160	0.2	0.2	0.1	0.1	0.1	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.2
A39	Choi Ming Estate, Choi Yiu Court	155	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.2	0.2	0.1	0.1	0.1	0.0	0.0	0.2
A40	Park Central Block 1	185	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.0	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.0	0.2
A41	Bauhinia Garden Block 5	165	0.2	0.2	0.1	0.1	0.1	0.0	0.0	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.2
A42	Heng Fa Chuen, Block 50	70	0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.3	0.2	0.2	0.2	0.1	0.1	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.1	0.0	0.0	0.2
A43	Island Resort, Block 7	165	0.5	0.4	0.4	0.3	0.2	0.1	0.1	0.5	0.4	0.3	0.3	0.3	0.1	0.1	0.0	0.4	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.2

Source Height at 30m above ground

ASR	Name	Approx. Maximum Height of Building (m)	Worst Case 1								Worst Case 2								Worst Case 3							
			Maximum 5-second Odour Levels at ASRs								Maximum 5-second Odour Levels								Maximum 5-second Odour Levels							
			1.5m	10m	20m	30m	50m	70m	90m	Highest	1.5m	10m	20m	30m	50m	70m	90m	Highest	1.5m	10m	20m	30m	50m	70m	90m	Highest
A1-1	Proposed C&DM Handling Facility	30	6.3	4.0	1.4	1.0	-	-	-	6.3	4.1	3.0	1.1	0.7	-	-	-	4.1	2.2	1.8	1.1	0.4	-	-	-	2.2
A1-2 (1)	Planned Industrial Uses in TKO 137 (south of Extension) - 1	30	7.0	4.6	1.7	1.3	-	-	-	7.0	2.6	2.9	1.9	0.5	-	-	-	2.9	1.9	2.4	1.3	0.6	-	-	-	2.4
A1-2 (2)	Planned Industrial Uses in TKO 137 (south of Extension) - 2 (outside 200m HKPSG buffer distance)	30	3.3	2.6	1.3	0.7	-	-	-	3.3	2.1	1.9	1.3	0.6	-	-	-	2.1	1.6	1.5	1.1	0.6	-	-	-	1.6
A1-3 (1)	Planned Industrial Uses in TKO 137 (south of TVB City) - 1	30	2.2	1.9	1.2	0.5	-	-	-	2.2	6.4	4.1	1.2	0.8	-	-	-	6.4	14.4	4.7	2.2	1.6	-	-	-	14.4
A1-3 (2)	Planned Industrial Uses in TKO 137 (south of TVB City) - 2 (outside 200m HKPSG buffer distance)	30	2.0	1.7	1.0	0.5	-	-	-	2.0	6.4	4.8	2.0	0.5	-	-	-	6.4	7.3	4.6	1.2	0.7	-	-	-	7.3
A2	TVB City	30	1.8	1.6	1.1	0.5	-	-	-	1.8	3.9	2.9	1.1	0.6	-	-	-	3.9	13.1	5.9	2.0	1.2	-	-	-	13.1
A3	HAESL	30	1.2	1.1	0.9	0.5	-	-	-	1.2	1.9	1.6	1.0	0.5	-	-	-	1.9	4.2	3.2	1.4	0.6	-	-	-	4.2
A4	HAECO Component Overhaul Building	30	1.1	1.1	0.8	0.5	-	-	-	1.1	1.6	1.4	0.9	0.5	-	-	-	1.6	2.8	2.2	1.1	0.5	-	-	-	2.8
A5	Exhibition Services & Logistics Centre	30	0.8	0.8	0.6	0.4	-	-	-	0.8	1.2	1.1	0.8	0.5	-	-	-	1.2	1.8	1.6	1.1	0.5	-	-	-	1.8
A6	Gammon Skanska	30	0.6	0.6	0.5	0.4	-	-	-	0.6	1.0	0.9	0.7	0.5	-	-	-	1.0	1.6	1.5	1.1	0.7	-	-	-	1.6
A7	Yan Hing Machinery Industrial Building	30	1.2	1.1	0.9	0.6	-	-	-	1.2	1.9	1.7	1.1	0.6	-	-	-	1.9	3.3	2.7	1.4	0.5	-	-	-	3.3
A8	Apple Daily	30	1.0	0.9	0.7	0.5	-	-	-	1.0	1.5	1.3	1.0	0.6	-	-	-	1.5	2.4	2.0	1.3	0.6	-	-	-	2.4
A9	Mei Ah Industrial Building	30	1.1	1.0	0.8	0.5	-	-	-	1.1	1.6	1.5	1.0	0.6	-	-	-	1.6	2.2	1.9	1.1	0.4	-	-	-	2.2
A10	Asia Netcom	30	1.0	0.9	0.7	0.5	-	-	-	1.0	1.3	1.1	0.8	0.5	-	-	-	1.3	1.7	1.5	0.9	0.4	-	-	-	1.7
A11	Wellcome Storage	30	1.0	0.9	0.7	0.5	-	-	-	1.0	1.4	1.3	0.9	0.6	-	-	-	1.4	2.2	1.9	1.2	0.6	-	-	-	2.2
A12	Avery Dennison Machinery	30	0.8	0.8	0.7	0.5	-	-	-	0.8	1.2	1.1	0.8	0.5	-	-	-	1.2	1.7	1.5	1.0	0.5	-	-	-	1.7
A13	Hitachi	30	0.8	0.8	0.6	0.5	-	-	-	0.8	1.1	1.0	0.8	0.5	-	-	-	1.1	1.7	1.5	1.1	0.6	-	-	-	1.7
A14	Next Media Co. Ltd	30	0.7	0.7	0.6	0.4	-	-	-	0.7	1.0	0.9	0.7	0.5	-	-	-	1.0	1.3	1.2	0.9	0.5	-	-	-	1.3
A15	Varitronix	30	0.7	0.6	0.5	0.4	-	-	-	0.7	0.9	0.8	0.7	0.5	-	-	-	0.9	1.2	1.1	0.8	0.5	-	-	-	1.2
A16	Four Seas Food Processing Co. Ltd	30	0.5	0.5	0.5	0.4	-	-	-	0.5	0.7	0.7	0.6	0.4	-	-	-	0.7	0.9	0.8	0.7	0.5	-	-	-	0.9
A17	Committed HSBC Office	30	0.6	0.5	0.5	0.4	-	-	-	0.6	0.7	0.7	0.6	0.4	-	-	-	0.7	1.0	0.9	0.7	0.5	-	-	-	1.0
A18	Eastern Pacific Electronics	30	0.5	0.5	0.4	0.3	-	-	-	0.5	0.6	0.6	0.5	0.4	-	-	-	0.6	0.7	0.7	0.6	0.4	-	-	-	0.7
A19	Committed Tung Wah Group of Hospital Aided Primary & Secondary School	30	0.5	0.4	0.4	0.3	-	-	-	0.5	0.6	0.5	0.5	0.4	-	-	-	0.6	0.7	0.7	0.6	0.4	-	-	-	0.7
A20	Committed Dream City	200	0.4	0.3	0.3	0.3	0.1	0.1	0.0	0.4	0.4	0.4	0.3	0.3	0.1	0.1	0.0	0.4	0.4	0.4	0.3	0.3	0.1	0.1	0.1	0.4
A21	Chiaphua-Shinko Centre	30	0.3	0.3	0.3	0.2	-	-	-	0.3	0.4	0.4	0.3	0.3	-	-	-	0.4	0.4	0.4	0.4	0.3	-	-	-	0.4
A22	Shaw Film Studios	30	0.3	0.3	0.3	0.2	-	-	-	0.3	0.4	0.3	0.3	0.3	-	-	-	0.4	0.4	0.4	0.4	0.3	-	-	-	0.4
A23	Oscar by the Sea	170	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.2
A24	Tseung Kwan O Sport Ground	1.5	0.2	-	-	-	-	-	-	0.2	0.2	-	-	-	-	-	-	0.2	0.2	-	-	-	-	-	-	0.2
A25	Tseung Kwan O Town Park	1.5	0.1	-	-	-	-	-	-	0.1	0.1	-	-	-	-	-	-	0.1	0.2	-	-	-	-	-	-	0.2
A26	Leung Sing Tak Primary School	20	0.2	0.2	0.1	-	-	-	-	0.2	0.2	0.2	0.2	-	-	-	-	0.2	0.2	0.2	0.2	-	-	-	-	0.2
A27	Nan Fung Plaza	130	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.2
A28	St Andrew's Church	20	0.1	0.1	0.1	-	-	-	-	0.1	0.1	0.1	0.1	-	-	-	-	0.1	0.1	0.1	0.1	-	-	-	-	0.1
A29	Fung Ching Memorial Primary School	20	0.2	0.1	0.1	-	-	-	-	0.2	0.2	0.2	0.1	-	-	-	-	0.2	0.2	0.2	0.1	-	-	-	-	0.2
A30	On Ning Garden	120	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1
A31	Sheung Ning Playground	1.5	0.1	-	-	-	-	-	-	0.1	0.1	-	-	-	-	-	-	0.1	0.1	-	-	-	-	-	-	0.1
A32	Tseung Kwan O Swimming Pool	1.5	0.1	-	-	-	-	-	-	0.1	0.1	-	-	-	-	-	-	0.1	0.1	-	-	-	-	-	-	0.1
A33	La Cite Noble	140	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.2
A34	Yuk Ming Court	110	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.2
A35	Ming Tak Estate	110	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.2
A36	Tin Ha Wan Village	10	0.2	0.2	-	-	-	-	-	0.2	0.2	0.2	-	-	-	-	-	0.2	0.2	0.2	-	-	-	-	-	0.2
A37	Tseung Kwan O Hospital	25	0.2	0.2	0.2	0.2	-	-	-	0.2	0.2	0.2	0.2	0.2	-	-	-	0.2	0.2	0.2	0.2	0.2	-	-	-	0.2
A38	Ocean Shore Phase I	160	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.2
A39	Choi Ming Estate, Choi Yiu Court	155	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.2
A40	Park Central Block 1	185	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.2	0.2	0.1	0.1	0.1	0.0	0.0	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.0	0.2
A41	Bauhinia Garden Block 5	165	0.2	0.2	0.1	0.1	0.1	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.2
A42	Heng Fa Chuen, Block 50	70	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.2
A43	Island Resort, Block 7	165	0.4	0.4	0.3	0.3	0.2	0.1	0.1	0.4	0.3	0.3	0.3	0.2	0.1	0.1	0.0	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2

Source Height at 50m above ground

ASR	Name	Approx. Maximum Height of Building (m)	Worst Case 1								Worst Case 2								Worst Case 3							
			Maximum 5-second Odour Levels at ASRs								Maximum 5-second Odour Levels								Maximum 5-second Odour Levels							
			1.5m	10m	20m	30m	50m	70m	90m	Highest	1.5m	10m	20m	30m	50m	70m	90m	Highest	1.5m	10m	20m	30m	50m	70m	90m	Highest
A1-1	Proposed C&DM Handling Facility	30	5.9	4.0	1.4	0.2	-	-	-	5.9	3.2	2.5	1.2	0.6	-	-	-	3.2	1.7	1.5	1.1	0.5	-	-	-	1.7
A1-2 (1)	Planned Industrial Uses in TKO 137 (south of Extension) - 1	30	6.0	4.6	1.7	0.3	-	-	-	6.0	2.4	2.8	1.4	0.6	-	-	-	2.8	1.3	1.9	1.3	0.4	-	-	-	1.9
A1-2 (2)	Planned Industrial Uses in TKO 137 (south of Extension) - 2 (outside 200m HKPSG buffer distance)	30	3.1	2.6	1.3	0.2	-	-	-	3.1	1.8	1.6	1.1	0.6	-	-	-	1.8	1.1	1.1	1.1	0.4	-	-	-	1.1
A1-3 (1)	Planned Industrial Uses in TKO 137 (south of TVB City) - 1	30	2.2	1.9	1.2	0.7	-	-	-	2.2	7.0	4.7	1.5	0.7	-	-	-	7.0	11.2	6.5	2.2	1.1	-	-	-	11.2
A1-3 (2)	Planned Industrial Uses in TKO 137 (south of TVB City) - 2 (outside 200m HKPSG buffer distance)	30	2.2	1.7	1.0	0.4	-	-	-	2.2	3.9	2.9	1.2	0.8	-	-	-	3.9	6.9	5.1	1.2	0.8	-	-	-	6.9
A2	TVB City	30	1.9	1.6	1.1	0.6	-	-	-	1.9	4.6	3.4	1.3	0.6	-	-	-	4.6	14.0	8.0	2.0	1.3	-	-	-	14.0
A3	HAESL	30	1.2	1.1	0.9	0.3	-	-	-	1.2	2.1	1.8	1.1	0.5	-	-	-	2.1	5.2	4.1	1.4	0.6	-	-	-	5.2
A4	HAECO Component Overhaul Building	30	1.0	1.1	0.8	0.3	-	-	-	1.1	1.4	1.2	0.8	0.4	-	-	-	1.4	3.5	2.8	1.1	0.6	-	-	-	3.5
A5	Exhibition Services & Logistics Centre	30	0.8	0.8	0.6	0.2	-	-	-	0.8	1.3	1.2	0.9	0.5	-	-	-	1.3	3.0	2.7	1.1	0.9	-	-	-	3.0
A6	Gammon Skanska	30	0.8	0.6	0.5	0.2	-	-	-	0.8	1.0	0.9	0.7	0.5	-	-	-	1.0	1.7	1.5	1.1	0.7	-	-	-	1.7
A7	Yan Hing Machinery Industrial Building	30	1.3	1.1	0.9	0.3	-	-	-	1.3	2.0	1.7	1.2	0.6	-	-	-	2.0	3.4	2.7	1.4	0.5	-	-	-	3.4
A8	Apple Daily	30	1.1	0.9	0.7	0.2	-	-	-	1.1	1.6	1.5	1.1	0.6	-	-	-	1.6	2.7	2.2	1.3	0.5	-	-	-	2.7
A9	Mei Ah Industrial Building	30	1.1	1.0	0.8	0.3	-	-	-	1.1	1.4	1.3	0.9	0.5	-	-	-	1.4	2.4	2.0	1.1	0.5	-	-	-	2.4
A10	Asia Netcom	30	0.9	0.9	0.7	0.3	-	-	-	0.9	1.4	1.2	0.9	0.5	-	-	-	1.4	2.4	2.0	0.9	0.5	-	-	-	2.4
A11	Wellcome Storage	30	1.0	0.9	0.7	0.2	-	-	-	1.0	1.5	1.3	1.0	0.6	-	-	-	1.5	2.1	1.8	1.2	0.5	-	-	-	2.1
A12	Avery Dennison Machinery	30	0.9	0.8	0.7	0.2	-	-	-	0.9	1.3	1.2	0.9	0.6	-	-	-	1.3	2.1	1.8	1.0	0.6	-	-	-	2.1
A13	Hitachi	30	1.0	0.8	0.6	0.2	-	-	-	1.0	1.2	1.1	0.9	0.6	-	-	-	1.2	1.8	1.6	1.1	0.6	-	-	-	1.8
A14	Next Media Co. Ltd	30	0.8	0.7	0.6	0.2	-	-	-	0.8	1.1	1.0	0.8	0.5	-	-	-	1.1	1.5	1.4	0.9	0.6	-	-	-	1.5
A15	Varitronix	30	0.7	0.6	0.5	0.2	-	-	-	0.7	0.9	0.9	0.7	0.5	-	-	-	0.9	1.3	1.2	0.8	0.5	-	-	-	1.3
A16	Four Seas Food Processing Co. Ltd	30	0.6	0.5	0.5	0.2	-	-	-	0.6	0.8	0.8	0.7	0.5	-	-	-	0.8	1.1	1.0	0.7	0.5	-	-	-	1.1
A17	Committed HSBC Office	30	0.6	0.5	0.5	0.2	-	-	-	0.6	0.8	0.7	0.6	0.4	-	-	-	0.8	1.0	0.9	0.7	0.5	-	-	-	1.0
A18	Eastern Pacific Electronics	30	0.5	0.5	0.4	0.2	-	-	-	0.5	0.7	0.7	0.6	0.4	-	-	-	0.7	0.9	0.9	0.6	0.5	-	-	-	0.9
A19	Committed Tung Wah Group of Hospital Aided Primary & Secondary School	30	0.5	0.4	0.4	0.2	-	-	-	0.5	0.6	0.6	0.5	0.4	-	-	-	0.6	0.7	0.6	0.6	0.4	-	-	-	0.7
A20	Committed Dream City	200	0.3	0.3	0.3	0.1	0.1	0.07	0.06	0.3	0.3	0.3	0.3	0.2	0.1	0.1	0.1	0.3	0.4	0.4	0.3	0.3	0.1	0.1	0.06	0.4
A21	Chiaphua-Shinko Centre	30	0.3	0.3	0.3	0.2	-	-	-	0.3	0.4	0.4	0.4	0.3	-	-	-	0.4	0.6	0.5	0.4	0.4	-	-	-	0.6
A22	Shaw Film Studios	30	0.3	0.3	0.3	0.2	-	-	-	0.3	0.4	0.4	0.3	0.3	-	-	-	0.4	0.4	0.4	0.4	0.3	-	-	-	0.4
A23	Oscar by the Sea	170	0.2	0.2	0.2	0.1	0.1	0.05	0.03	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.03	0.2
A24	Tseung Kwan O Sport Ground	1.5	0.2	-	-	-	-	-	-	0.2	0.2	-	-	-	-	-	-	0.2	0.2	0.2	-	0.1	-	-	-	0.2
A25	Tseung Kwan O Town Park	1.5	0.1	-	-	-	-	-	-	0.1	0.1	-	-	-	-	-	-	0.1	0.2	0.1	-	0.1	-	-	-	0.2
A26	Leung Sing Tak Primary School	20	0.2	0.2	0.1	-	-	-	-	0.2	0.2	0.2	0.2	-	-	-	-	0.2	0.2	0.1	0.1	0.1	-	-	-	0.2
A27	Nan Fung Plaza	130	0.2	0.2	0.1	0.1	0.1	0.05	0.03	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.2	0.1	0.1	0.1	0.1	0.1	0.05	0.03	0.1
A28	St Andrew's Church	20	0.1	0.1	0.1	-	-	-	-	0.1	0.1	0.1	0.1	-	-	-	-	0.1	0.1	0.1	0.1	0.1	-	-	-	0.1
A29	Fung Ching Memorial Primary School	20	0.1	0.1	0.1	-	-	-	-	0.1	0.1	0.1	0.1	-	-	-	-	0.1	0.1	0.1	0.1	0.1	-	-	-	0.1
A30	On Ning Garden	120	0.1	0.1	0.1	0.1	0.1	0.05	0.03	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.05	0.03	0.1
A31	Sheung Ning Playground	1.5	0.1	-	-	-	-	-	-	0.1	0.1	-	-	-	-	-	-	0.1	0.1	0.1	-	0.1	-	-	-	0.1
A32	Tseung Kwan O Swimming Pool	1.5	0.1	-	-	-	-	-	-	0.1	0.1	-	-	-	-	-	-	0.1	0.1	0.1	-	0.1	-	-	-	0.1
A33	La Cite Noble	140	0.2	0.2	0.1	0.1	0.1	0.06	0.03	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.03	0.2
A34	Yuk Ming Court	110	0.2	0.2	0.1	0.1	0.1	0.06	0.03	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.03	0.2
A35	Ming Tak Estate	110	0.2	0.2	0.2	0.1	0.1	0.06	0.03	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.03	0.2
A36	Tin Ha Wan Village	10	0.2	0.2	-	-	-	-	-	0.2	0.2	0.2	-	-	-	-	-	0.2	0.2	0.2	-	0.2	-	-	-	0.2
A37	Tseung Kwan O Hospital	25	0.2	0.2	0.2	0.1	-	-	-	0.2	0.2	0.2	0.2	0.1	-	-	-	0.2	0.2	0.2	0.2	0.2	-	-	-	0.2
A38	Ocean Shore Phase I	160	0.2	0.2	0.2	0.1	0.1	0.06	0.04	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.04	0.2
A39	Choi Ming Estate, Choi Yiu Court	155	0.1	0.1	0.1	0.1	0.1	0.05	0.03	0.1	0.2	0.2	0.1	0.1	0.1	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.03	0.2
A40	Park Central Block 1	185	0.1	0.1	0.1	0.1	0.1	0.05	0.03	0.1	0.2	0.2	0.1	0.1	0.1	0.0	0.0	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.03	0.2
A41	Bauhinia Garden Block 5	165	0.2	0.2	0.1	0.1	0.1	0.06	0.03	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.03	0.2
A42	Heng Fa Chuen, Block 50	70	0.2	0.2	0.2	0.1	0.1	0.06	0.03	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.03	0.2
A43	Island Resort, Block 7	165	0.3	0.4	0.3	0.1	0.1	0.06	0.05	0.4	0.3	0.3	0.3	0.2	0.1	0.1	0.0	0.3	0.2	0.1	0.2	0.1	0.1	0.1	0.05	0.2

Source Height at 70m above ground

ASR	Name	Approx. Maximum Height of Building (m)	Worst Case 1								Worst Case 2								Worst Case 3							
			Maximum 5-second Odour Levels at ASRs								Maximum 5-second Odour Levels								Maximum 5-second Odour Levels							
			1.5m	10m	20m	30m	50m	70m	90m	Highest	1.5m	10m	20m	30m	50m	70m	90m	Highest	1.5m	10m	20m	30m	50m	70m	90m	Highest
A1-1	Proposed C&DM Handling Facility	30	5.0	3.8	1.6	0.9	-	-	-	5.0	2.3	1.9	1.0	0.7	-	-	-	2.3	1.4	1.3	0.9	0.5	-	-	-	1.4
A1-2 (1)	Planned Industrial Uses in TKO 137 (south of Extension) - 1	30	5.7	4.7	2.1	0.9	-	-	-	5.7	2.6	3.0	2.0	0.6	-	-	-	3.0	1.5	2.1	1.7	0.6	-	-	-	2.1
A1-2 (2)	Planned Industrial Uses in TKO 137 (south of Extension) - 2 (outside 200m HKPSG buffer distance)	30	3.0	2.6	1.6	0.6	-	-	-	3.0	1.8	1.7	1.3	0.7	-	-	-	1.8	1.2	1.2	1.0	0.6	-	-	-	1.2
A1-3 (1)	Planned Industrial Uses in TKO 137 (south of TVB City) - 1	30	2.9	2.4	1.2	0.6	-	-	-	2.9	6.2	4.2	1.3	0.9	-	-	-	6.2	6.4	4.4	1.4	0.8	-	-	-	6.4
A1-3 (2)	Planned Industrial Uses in TKO 137 (south of TVB City) - 2 (outside 200m HKPSG buffer distance)	30	2.1	1.8	1.1	0.6	-	-	-	2.1	2.8	2.2	1.0	0.6	-	-	-	2.8	3.3	2.6	1.3	0.8	-	-	-	3.3
A2	TVB City	30	2.0	1.7	1.0	0.4	-	-	-	2.0	4.6	3.5	1.5	0.7	-	-	-	4.6	6.5	4.2	1.2	0.7	-	-	-	6.5
A3	HAESL	30	1.2	1.1	0.8	0.5	-	-	-	1.2	2.2	1.9	1.2	0.5	-	-	-	2.2	3.1	2.4	1.1	0.7	-	-	-	3.1
A4	HAECO Component Overhaul Building	30	1.2	1.1	0.8	0.5	-	-	-	1.2	1.6	1.4	0.9	0.5	-	-	-	1.6	4.4	3.6	1.9	0.6	-	-	-	4.4
A5	Exhibition Services & Logistics Centre	30	0.9	0.8	0.6	0.4	-	-	-	0.9	1.3	1.2	0.9	0.5	-	-	-	1.3	1.9	1.6	1.1	0.6	-	-	-	1.9
A6	Gammon Skanska	30	0.8	0.7	0.6	0.4	-	-	-	0.8	0.8	0.7	0.6	0.4	-	-	-	0.8	1.1	1.0	0.8	0.5	-	-	-	1.1
A7	Yan Hing Machinery Industrial Building	30	1.3	1.2	0.9	0.6	-	-	-	1.3	1.9	1.7	1.1	0.6	-	-	-	1.9	3.5	2.7	1.2	0.5	-	-	-	3.5
A8	Apple Daily	30	1.2	1.1	0.9	0.6	-	-	-	1.2	1.6	1.4	1.0	0.6	-	-	-	1.6	2.6	2.1	1.2	0.5	-	-	-	2.6
A9	Mei Ah Industrial Building	30	1.0	0.9	0.7	0.4	-	-	-	1.0	1.3	1.2	0.8	0.4	-	-	-	1.3	3.0	2.5	1.3	0.6	-	-	-	3.0
A10	Asia Netcom	30	1.1	1.0	0.8	0.5	-	-	-	1.1	1.3	1.1	0.8	0.5	-	-	-	1.3	2.5	2.1	1.2	0.5	-	-	-	2.5
A11	Wellcome Storage	30	1.1	1.0	0.8	0.5	-	-	-	1.1	1.2	1.1	0.8	0.5	-	-	-	1.2	2.1	1.7	1.0	0.4	-	-	-	2.1
A12	Avery Dennison Machinery	30	1.1	1.0	0.8	0.5	-	-	-	1.1	1.4	1.3	1.0	0.6	-	-	-	1.4	2.3	1.9	1.2	0.6	-	-	-	2.3
A13	Hitachi	30	0.9	0.8	0.7	0.5	-	-	-	0.9	1.2	1.1	0.8	0.5	-	-	-	1.2	1.5	1.4	0.9	0.5	-	-	-	1.5
A14	Next Media Co. Ltd	30	0.8	0.8	0.6	0.5	-	-	-	0.8	1.2	1.1	0.9	0.6	-	-	-	1.2	1.6	1.4	1.0	0.5	-	-	-	1.6
A15	Varitronix	30	0.7	0.7	0.6	0.4	-	-	-	0.7	1.1	1.0	0.8	0.5	-	-	-	1.1	1.3	1.2	0.9	0.5	-	-	-	1.3
A16	Four Seas Food Processing Co. Ltd	30	0.7	0.7	0.6	0.4	-	-	-	0.7	0.8	0.8	0.6	0.5	-	-	-	0.8	1.0	0.9	0.7	0.5	-	-	-	1.0
A17	Committed HSBC Office	30	0.6	0.6	0.5	0.4	-	-	-	0.6	0.9	0.8	0.7	0.5	-	-	-	0.9	1.2	1.1	0.8	0.5	-	-	-	1.2
A18	Eastern Pacific Electronics	30	0.6	0.6	0.5	0.4	-	-	-	0.6	0.7	0.7	0.6	0.4	-	-	-	0.7	0.8	0.8	0.6	0.4	-	-	-	0.8
A19	Committed Tung Wah Group of Hospital Aided Primary & Secondary School	30	0.5	0.5	0.4	0.3	-	-	-	0.5	0.5	0.5	0.4	0.3	-	-	-	0.5	0.7	0.6	0.5	0.4	-	-	-	0.7
A20	Committed Dream City	200	0.3	0.3	0.3	0.2	0.1	0.1	0.0	0.3	0.3	0.3	0.3	0.2	0.1	0.1	0.1	0.3	0.5	0.5	0.4	0.3	0.2	0.1	0.1	0.5
A21	Chiaphua-Shinko Centre	30	0.4	0.4	0.4	0.3	-	-	-	0.4	0.5	0.5	0.4	0.3	-	-	-	0.5	0.5	0.5	0.4	0.4	-	-	-	0.5
A22	Shaw Film Studios	30	0.3	0.3	0.3	0.3	-	-	-	0.3	0.4	0.3	0.3	0.3	-	-	-	0.4	0.4	0.4	0.3	0.3	-	-	-	0.4
A23	Oscar by the Sea	170	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.2	0.2	0.2	0.2	0.2	0.1	0.0	0.0	0.2
A24	Tseung Kwan O Sport Ground	1.5	0.2	-	-	-	-	-	-	0.2	0.1	-	-	-	-	-	-	0.1	0.2	-	-	-	-	-	-	0.2
A25	Tseung Kwan O Town Park	1.5	0.1	-	-	-	-	-	-	0.1	0.1	-	-	-	-	-	-	0.1	0.1	-	-	-	-	-	-	0.1
A26	Leung Sing Tak Primary School	20	0.2	0.2	0.1	-	-	-	-	0.2	0.1	0.1	0.1	-	-	-	-	0.1	0.2	0.1	0.1	-	-	-	-	0.2
A27	Nan Fung Plaza	130	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.2
A28	St Andrew's Church	20	0.1	0.1	0.1	-	-	-	-	0.1	0.1	0.1	0.1	-	-	-	-	0.1	0.1	0.1	0.1	-	-	-	-	0.1
A29	Fung Ching Memorial Primary School	20	0.1	0.1	0.1	-	-	-	-	0.1	0.1	0.1	0.1	-	-	-	-	0.1	0.1	0.1	0.1	0.1	-	-	-	0.1
A30	On Ning Garden	120	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1
A31	Sheung Ning Playground	1.5	0.1	-	-	-	-	-	-	0.1	0.1	-	-	-	-	-	-	0.1	0.1	-	-	-	-	-	-	0.1
A32	Tseung Kwan O Swimming Pool	1.5	0.1	-	-	-	-	-	-	0.1	0.1	-	-	-	-	-	-	0.1	0.2	-	-	-	-	-	-	0.2
A33	La Cite Noble	140	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.2
A34	Yuk Ming Court	110	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.2
A35	Ming Tak Estate	110	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.2
A36	Tin Ha Wan Village	10	0.2	0.2	-	-	-	-	-	0.2	0.2	0.2	-	-	-	-	-	0.2	0.2	0.2	-	-	-	-	-	0.2
A37	Tseung Kwan O Hospital	25	0.2	0.2	0.2	0.2	-	-	-	0.2	0.2	0.2	0.2	0.2	-	-	-	0.2	0.2	0.2	0.2	0.2	-	-	-	0.2
A38	Ocean Shore Phase I	160	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.2
A39	Choi Ming Estate, Choi Yiu Court	155	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.0	0.2
A40	Park Central Block 1	185	0.2	0.2	0.1	0.1	0.1	0.0	0.0	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.0	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.0	0.2
A41	Bauhinia Garden Block 5	165	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.2
A42	Heng Fa Chuen, Block 50	70	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.2
A43	Island Resort, Block 7	165	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.3	0.3	0.3	0.2	0.1	0.1	0.0	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

Source Height at 100m above ground

ASR	Name	Approx. Maximum Height of Building (m)	Worst Case 1								Worst Case 2								Worst Case 3							
			Maximum 5-second Odour Levels at ASRs								Maximum 5-second Odour Levels								Maximum 5-second Odour Levels							
			1.5m	10m	20m	30m	50m	70m	90m	Highest	1.5m	10m	20m	30m	50m	70m	90m	Highest	1.5m	10m	20m	30m	50m	70m	90m	Highest
A1-1	Proposed C&DM Handling Facility	30	1.5	1.2	0.7	0.6	-	-	-	1.5	1.5	1.3	0.8	0.4	-	-	-	1.5	1.2	1.1	0.8	0.5	-	-	-	1.2
A1-2 (1)	Planned Industrial Uses in TKO 137 (south of Extension) - 1	30	2.7	2.5	1.5	0.6	-	-	-	2.7	1.4	1.9	1.3	0.4	-	-	-	1.9	1.2	1.7	1.2	0.4	-	-	-	1.7
A1-2 (2)	Planned Industrial Uses in TKO 137 (south of Extension) - 2 (outside 200m HKPSG buffer distance)	30	1.5	1.3	0.9	0.5	-	-	-	1.5	0.9	0.9	0.7	0.4	-	-	-	0.9	0.7	0.7	0.5	0.3	-	-	-	0.7
A1-3 (1)	Planned Industrial Uses in TKO 137 (south of TVB City) - 1	30	3.6	2.9	1.4	0.7	-	-	-	3.6	3.8	2.8	1.2	0.8	-	-	-	3.8	2.9	2.3	1.1	0.7	-	-	-	2.9
A1-3 (2)	Planned Industrial Uses in TKO 137 (south of TVB City) - 2 (outside 200m HKPSG buffer distance)	30	2.2	1.8	1.1	0.6	-	-	-	2.2	2.6	2.1	1.1	0.6	-	-	-	2.6	2.6	2.2	1.3	0.6	-	-	-	2.6
A2	TVB City	30	3.8	3.2	1.8	0.7	-	-	-	3.8	3.3	2.5	1.1	0.7	-	-	-	3.3	5.4	4.2	2.0	0.8	-	-	-	5.4
A3	HAESL	30	1.7	1.5	1.0	0.5	-	-	-	1.7	2.6	2.2	1.4	0.6	-	-	-	2.6	3.8	3.2	1.9	0.8	-	-	-	3.8
A4	HAECO Component Overhaul Building	30	1.5	1.3	0.9	0.5	-	-	-	1.5	1.9	1.6	1.0	0.5	-	-	-	1.9	2.3	1.9	1.1	0.6	-	-	-	2.3
A5	Exhibition Services & Logistics Centre	30	1.1	1.0	0.8	0.5	-	-	-	1.1	2.2	1.9	1.4	0.8	-	-	-	2.2	1.1	1.0	0.7	0.4	-	-	-	1.1
A6	Gammon Skanska	30	0.7	0.7	0.5	0.4	-	-	-	0.7	1.1	1.0	0.8	0.5	-	-	-	1.1	0.8	0.8	0.6	0.4	-	-	-	0.8
A7	Yan Hing Machinery Industrial Building	30	1.5	1.3	0.9	0.5	-	-	-	1.5	2.1	1.8	1.1	0.4	-	-	-	2.1	3.7	2.9	1.4	0.6	-	-	-	3.7
A8	Apple Daily	30	1.2	1.1	0.8	0.5	-	-	-	1.2	1.6	1.6	1.0	0.5	-	-	-	1.6	2.8	2.2	1.2	0.6	-	-	-	2.8
A9	Mei Ah Industrial Building	30	1.1	1.0	0.7	0.4	-	-	-	1.1	1.9	1.6	1.1	0.5	-	-	-	1.9	3.8	3.2	1.8	0.7	-	-	-	3.8
A10	Asia Netcom	30	1.0	0.9	0.7	0.4	-	-	-	1.0	1.8	1.5	1.1	0.5	-	-	-	1.8	2.7	2.3	1.4	0.7	-	-	-	2.7
A11	Wellcome Storage	30	1.1	1.0	0.7	0.5	-	-	-	1.1	1.5	1.3	0.9	0.5	-	-	-	1.5	2.3	1.9	1.2	0.5	-	-	-	2.3
A12	Avery Dennison Machinery	30	1.1	1.0	0.8	0.5	-	-	-	1.1	1.5	1.4	1.0	0.5	-	-	-	1.5	1.8	1.5	0.9	0.4	-	-	-	1.8
A13	Hitachi	30	0.8	0.8	0.6	0.4	-	-	-	0.8	1.1	1.1	0.8	0.5	-	-	-	1.1	1.6	1.4	0.9	0.5	-	-	-	1.6
A14	Next Media Co. Ltd	30	0.9	0.9	0.7	0.5	-	-	-	0.9	1.3	1.1	0.9	0.5	-	-	-	1.3	1.6	1.4	0.9	0.5	-	-	-	1.6
A15	Varitronix	30	0.8	0.8	0.6	0.4	-	-	-	0.8	1.1	1.0	0.8	0.5	-	-	-	1.1	1.2	1.1	0.8	0.5	-	-	-	1.2
A16	Four Seas Food Processing Co. Ltd	30	0.7	0.6	0.5	0.4	-	-	-	0.7	0.8	0.8	0.6	0.4	-	-	-	0.8	0.9	0.8	0.6	0.4	-	-	-	0.9
A17	Committed HSBC Office	30	0.7	0.7	0.5	0.4	-	-	-	0.7	0.9	0.8	0.7	0.5	-	-	-	0.9	1.1	1.0	0.8	0.5	-	-	-	1.1
A18	Eastern Pacific Electronics	30	0.6	0.5	0.5	0.4	-	-	-	0.6	0.7	0.7	0.5	0.4	-	-	-	0.7	0.7	0.6	0.5	0.4	-	-	-	0.7
A19	Committed Tung Wah Group of Hospital Aided Primary & Secondary School	30	0.5	0.5	0.4	0.3	-	-	-	0.5	0.6	0.5	0.5	0.4	-	-	-	0.6	0.6	0.5	0.4	0.3	-	-	-	0.6
A20	Committed Dream City	200	0.4	0.4	0.3	0.3	0.1	0.1	0.0	0.4	0.3	0.4	0.4	0.3	0.1	0.1	0.0	0.4	0.4	0.4	0.3	0.3	0.1	0.1	0.0	0.4
A21	Chiaphua-Shinko Centre	30	0.4	0.4	0.3	0.3	-	-	-	0.4	0.4	0.4	0.4	0.3	-	-	-	0.4	0.5	0.5	0.4	0.3	-	-	-	0.5
A22	Shaw Film Studios	30	0.3	0.3	0.3	0.2	-	-	-	0.3	0.3	0.3	0.3	0.2	-	-	-	0.3	0.4	0.4	0.3	0.3	-	-	-	0.4
A23	Oscar by the Sea	170	0.2	0.2	0.2	0.1	0.1	0.0	0.0	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.2
A24	Tseung Kwan O Sport Ground	1.5	0.1	-	-	-	-	-	-	0.1	0.2	-	-	-	-	-	-	0.2	0.2	-	-	-	-	-	-	0.2
A25	Tseung Kwan O Town Park	1.5	0.1	-	-	-	-	-	-	0.1	0.1	-	-	-	-	-	-	0.1	0.2	-	-	-	-	-	-	0.2
A26	Leung Sing Tak Primary School	20	0.1	0.1	0.1	-	-	-	-	0.1	0.1	0.1	0.1	-	-	-	-	0.1	0.1	0.1	0.1	-	-	-	-	0.1
A27	Nan Fung Plaza	130	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.2	0.2	0.1	0.1	0.1	0.0	0.0	0.2
A28	St Andrew's Church	20	0.1	0.1	0.1	-	-	-	-	0.1	0.1	0.1	0.1	-	-	-	-	0.1	0.2	0.2	0.2	0.2	-	-	-	0.2
A29	Fung Ching Memorial Primary School	20	0.1	0.1	0.1	-	-	-	-	0.1	0.1	0.1	0.1	-	-	-	-	0.1	0.1	0.1	0.1	0.1	-	-	-	0.1
A30	On Ning Garden	120	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.2	0.2	0.1	0.1	0.1	0.0	0.0	0.2
A31	Sheung Ning Playground	1.5	0.1	-	-	-	-	-	-	0.1	0.1	-	-	-	-	-	-	0.1	0.2	-	-	-	-	-	-	0.2
A32	Tseung Kwan O Swimming Pool	1.5	0.1	-	-	-	-	-	-	0.1	0.1	-	-	-	-	-	-	0.1	0.2	-	-	-	-	-	-	0.2
A33	La Cite Noble	140	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.2
A34	Yuk Ming Court	110	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.2
A35	Ming Tak Estate	110	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.2
A36	Tin Ha Wan Village	10	0.2	0.2	-	-	-	-	-	0.2	0.2	0.2	-	-	-	-	-	0.2	0.2	0.2	-	-	-	-	-	0.2
A37	Tseung Kwan O Hospital	25	0.2	0.2	0.2	0.2	-	-	-	0.2	0.2	0.2	0.2	0.2	-	-	-	0.2	0.2	0.2	0.2	0.2	-	-	-	0.2
A38	Ocean Shore Phase I	160	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.2
A39	Choi Ming Estate, Choi Yiu Court	155	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.2
A40	Park Central Block 1	185	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.2
A41	Bauhinia Garden Block 5	165	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.0	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.0	0.2
A42	Heng Fa Chuen, Block 50	70	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.2
A43	Island Resort, Block 7	165	0.3	0.3	0.3	0.2	0.1	0.1	0.0	0.3	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

Source Height at 130m above ground

ASR	Name	Approx. Maximum Height of Building (m)	Worst Case 1								Worst Case 2							
			Maximum 5-second Odour Levels at ASRs								Maximum 5-second Odour Levels							
			1.5m	10m	20m	30m	50m	70m	90m	Highest	1.5m	10m	20m	30m	50m	70m	90m	Highest
A1-1	Proposed C&DM Handling Facility	30	2.0	1.8	1.2	0.6	-	-	-	2.0	1.3	1.1	0.8	0.5	-	-	-	1.3
A1-2 (1)	Planned Industrial Uses in TKO 137 (south of Extension) - 1	30	1.9	1.8	1.2	0.6	-	-	-	1.9	1.3	1.4	1.1	0.5	-	-	-	1.4
A1-2 (2)	Planned Industrial Uses in TKO 137 (south of Extension) - 2 (outside 200m HKPSG buffer distance)	30	1.0	0.9	0.7	0.5	-	-	-	1.0	0.7	0.7	0.5	0.4	-	-	-	0.7
A1-3 (1)	Planned Industrial Uses in TKO 137 (south of TVB City) - 1	30	3.4	2.8	1.4	0.7	-	-	-	3.4	2.2	1.8	1.0	0.6	-	-	-	2.2
A1-3 (2)	Planned Industrial Uses in TKO 137 (south of TVB City) - 2 (outside 200m HKPSG buffer distance)	30	2.0	1.7	1.0	0.6	-	-	-	2.0	2.4	2.1	1.4	0.7	-	-	-	2.4
A2	TVB City	30	2.3	1.9	1.0	0.7	-	-	-	2.3	3.2	2.6	1.5	0.5	-	-	-	3.2
A3	HAESL	30	1.9	1.7	1.1	0.5	-	-	-	1.9	2.3	2.0	1.3	0.6	-	-	-	2.3
A4	HAECO Component Overhaul Building	30	2.4	2.1	1.4	0.5	-	-	-	2.4	1.8	1.6	1.0	0.5	-	-	-	1.8
A5	Exhibition Services & Logistics Centre	30	1.3	1.2	0.9	0.5	-	-	-	1.3	0.9	0.8	0.6	0.4	-	-	-	0.9
A6	Gammon Skanska	30	0.9	0.8	0.6	0.4	-	-	-	0.9	0.7	0.7	0.5	0.4	-	-	-	0.7
A7	Yan Hing Machinery Industrial Building	30	2.1	1.8	1.2	0.5	-	-	-	2.1	4.1	3.4	1.9	0.7	-	-	-	4.1
A8	Apple Daily	30	1.5	1.3	0.9	0.5	-	-	-	1.5	2.5	2.1	1.2	0.5	-	-	-	2.5
A9	Mei Ah Industrial Building	30	1.6	1.4	1.0	0.4	-	-	-	1.6	2.4	2.1	1.3	0.6	-	-	-	2.4
A10	Asia Netcom	30	1.4	1.2	0.9	0.4	-	-	-	1.4	1.7	1.5	1.0	0.5	-	-	-	1.7
A11	Wellcome Storage	30	1.5	1.3	1.0	0.5	-	-	-	1.5	1.7	1.4	1.0	0.5	-	-	-	1.7
A12	Avery Dennison Machinery	30	1.4	1.2	0.9	0.5	-	-	-	1.4	1.7	1.5	1.0	0.5	-	-	-	1.7
A13	Hitachi	30	1.0	0.9	0.7	0.4	-	-	-	1.0	1.6	1.4	1.0	0.5	-	-	-	1.6
A14	Next Media Co. Ltd	30	1.0	0.9	0.7	0.5	-	-	-	1.0	1.2	1.1	0.7	0.4	-	-	-	1.2
A15	Varitronix	30	0.8	0.8	0.6	0.4	-	-	-	0.8	1.2	1.1	0.8	0.5	-	-	-	1.2
A16	Four Seas Food Processing Co. Ltd	30	0.7	0.6	0.5	0.4	-	-	-	0.7	1.0	0.9	0.7	0.5	-	-	-	1.0
A17	Committed HSBC Office	30	0.8	0.7	0.6	0.4	-	-	-	0.8	0.9	0.9	0.7	0.4	-	-	-	0.9
A18	Eastern Pacific Electronics	30	0.5	0.5	0.4	0.4	-	-	-	0.5	0.8	0.7	0.6	0.4	-	-	-	0.8
A19	Committed Tung Wah Group of Hospital Aided Primary & Secondary School	30	0.4	0.4	0.4	0.3	-	-	-	0.4	0.6	0.6	0.5	0.4	-	-	-	0.6
A20	Committed Dream City	200	0.3	0.3	0.3	0.3	0.3	0.1	0.0	0.3	0.4	0.4	0.3	0.3	0.1	0.1	0.0	0.4
A21	Chiaphua-Shinko Centre	30	0.4	0.4	0.3	0.3	-	-	-	0.4	0.4	0.4	0.4	0.3	-	-	-	0.4
A22	Shaw Film Studios	30	0.3	0.3	0.3	0.2	-	-	-	0.3	0.3	0.3	0.3	0.2	-	-	-	0.3
A23	Oscar by the Sea	170	0.2	0.2	0.2	0.1	0.1	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.2
A24	Tseung Kwan O Sport Ground	1.5	0.1	-	-	-	-	-	-	0.1	0.2	-	-	-	-	-	-	0.2
A25	Tseung Kwan O Town Park	1.5	0.2	-	-	-	-	-	-	0.2	0.2	-	-	-	-	-	-	0.2
A26	Leung Sing Tak Primary School	20	0.1	0.1	0.1	-	-	-	-	0.1	0.2	0.2	0.2	-	-	-	-	0.2
A27	Nan Fung Plaza	130	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.2
A28	St Andrew's Church	20	0.1	0.1	0.1	-	-	-	-	0.1	0.2	0.2	0.2	-	-	-	-	0.2
A29	Fung Ching Memorial Primary School	20	0.1	0.1	0.1	-	-	-	-	0.1	0.2	0.2	0.1	-	-	-	-	0.2
A30	On Ning Garden	120	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.2
A31	Sheung Ning Playground	1.5	0.2	-	-	-	-	-	-	0.2	0.2	-	-	-	-	-	-	0.2
A32	Tseung Kwan O Swimming Pool	1.5	0.2	-	-	-	-	-	-	0.2	0.2	-	-	-	-	-	-	0.2
A33	La Cite Noble	140	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.0	0.2
A34	Yuk Ming Court	110	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.2
A35	Ming Tak Estate	110	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.2
A36	Tin Ha Wan Village	10	0.2	0.2	-	-	-	-	-	0.2	0.2	0.2	-	-	-	-	-	0.2
A37	Tseung Kwan O Hospital	25	0.2	0.2	0.1	0.1	-	-	-	0.2	0.2	0.2	0.2	0.2	-	-	-	0.2
A38	Ocean Shore Phase I	160	0.2	0.2	0.2	0.2	0.2	0.1	0.0	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.2
A39	Choi Ming Estate, Choi Yiu Court	155	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.2
A40	Park Central Block 1	185	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.2
A41	Bauhinia Garden Block 5	165	0.2	0.2	0.2	0.2	0.2	0.1	0.0	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.2
A42	Heng Fa Chuen, Block 50	70	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.2
A43	Island Resort, Block 7	165	0.2	0.2	0.2	0.2	0.2	0.1	0.0	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.2

Annex A7-2

Detailed Model Results for
Odour & no. of Instances
having Exceedance (Part B –
No. of Instances having
Exceedance)

Annex A7-2 - Detailed Model Results & No. of Instances having Exceedance

PART B --- NO. OF INSTANCES HAVING EXCEEDANCE

Source Height at 10m above ground

ASR	Name	Approx. Maximum Height of Building (m)	No. of Instances having Exceedance			
			Worst Case 1	Worst Case 2	Worst Case 3	
			Elevation of ASRs			
			1.5m	1.5m	1.5m	10m
A1-1	Proposed C&DM Handling Facility	30	4	4	-	-
A1-2 (1)	Planned Industrial Uses in TKO 137 (south of Extension) - 1	30	2	-	-	-
A1-2 (2)	Planned Industrial Uses in TKO 137 (south of Extension) - 2 (outside 200m HKPSG buffer distance)	30	-	-	-	-
A1-3 (1)	Planned Industrial Uses in TKO 137 (south of TVB City) - 1	30	-	1	71	2
A1-3 (2)	Planned Industrial Uses in TKO 137 (south of TVB City) - 2 (outside 200m HKPSG buffer distance)	30	-	1	4	1
A2	TVB City	30	-	-	26	1
A3	HAESL	30	-	-	-	-

Source Height at 30m above ground

ASR	Name	Approx. Maximum Height of Building (m)	No. of Instances having Exceedance			
			Worst Case 1	Worst Case 2	Worst Case 3	
			Elevation of ASRs			
			1.5m	1.5m	1.5m	10m
A1-1	Proposed C&DM Handling Facility	30	2	-	-	-
A1-2 (1)	Planned Industrial Uses in TKO 137 (south of Extension) - 1	30	2	-	-	-
A1-2 (2)	Planned Industrial Uses in TKO 137 (south of Extension) - 2 (outside 200m HKPSG buffer distance)	30	-	-	-	-
A1-3 (1)	Planned Industrial Uses in TKO 137 (south of TVB City) - 1	30	-	3	26	-
A1-3 (2)	Planned Industrial Uses in TKO 137 (south of TVB City) - 2 (outside 200m HKPSG buffer distance)	30	-	1	2	-
A2	TVB City	30	-	-	21	1
A3	HAESL	30	-	-	-	-

Source Height at 50m above ground

ASR	Name	Approx. Maximum Height of Building (m)	No. of Instances having Exceedance			
			Worst Case 1	Worst Case 2	Worst Case 3	
			Elevation of ASRs			
			1.5m	1.5m	1.5m	10m
A1-1	Proposed C&DM Handling Facility	30	2	-	-	-
A1-2 (1)	Planned Industrial Uses in TKO 137 (south of Extension) - 1	30	1	-	-	-
A1-2 (2)	Planned Industrial Uses in TKO 137 (south of Extension) - 2 (outside 200m HKPSG buffer distance)	30	-	-	-	-
A1-3 (1)	Planned Industrial Uses in TKO 137 (south of TVB City) - 1	30	-	6	5	1
A1-3 (2)	Planned Industrial Uses in TKO 137 (south of TVB City) - 2 (outside 200m HKPSG buffer distance)	30	-	-	1	1
A2	TVB City	30	-	-	10	1
A3	HAESL	30	-	-	1	-

Source Height at 70m above ground

ASR	Name	Approx. Maximum Height of Building (m)	No. of Instances having Exceedance		
			Worst Case 1	Worst Case 2	Worst Case 3
			Elevation of ASRs		
			1.5m	1.5m	1.5m
A1-1	Proposed C&DM Handling Facility	30	-	-	-
A1-2 (1)	Planned Industrial Uses in TKO 137 (south of Extension) - 1	30	1	-	-
A1-2 (2)	Planned Industrial Uses in TKO 137 (south of Extension) - 2 (outside 200m HKPSG buffer distance)	30	-	-	-
A1-3 (1)	Planned Industrial Uses in TKO 137 (south of TVB City) - 1	30	-	1	2
A1-3 (2)	Planned Industrial Uses in TKO 137 (south of TVB City) - 2 (outside 200m HKPSG buffer distance)	30	-	-	-
A2	TVB City	30	-	-	4
A3	HAESL	30	-	-	-

Source Height at 100m above ground

ASR	Name	Approx. Maximum Height of Building (m)	No. of Instances having Exceedance
			Worst Case 3
			Elevation of ASRs
			1.5m
A1-1	Proposed C&DM Handling Facility	30	-
A1-2 (1)	Planned Industrial Uses in TKO 137 (south of Extension) - 1	30	-
A1-2 (2)	Planned Industrial Uses in TKO 137 (south of Extension) - 2 (outside 200m HKPSG buffer distance)	30	-
A1-3 (1)	Planned Industrial Uses in TKO 137 (south of TVB City) - 1	30	-
A1-3 (2)	Planned Industrial Uses in TKO 137 (south of TVB City) - 2 (outside 200m HKPSG buffer distance)	30	-
A2	TVB City	30	1
A3	HAESL	30	-

Annex A8

Example of AUSPLUME Model File

Annex A8 - Example of AUSPLUME Input File

6.0 version

* WARNING - WARNING - WARNING - WARNING - WARNING - WARNING *

*

* This is a generated file. Please do not edit it manually. *

* If editing is required, under any circumstances do not *

* edit information enclosed in curly braces. Corruption of *

* this information or changed order of data blocks enclosed *

* in curly braces may render the file unusable. *

*

Simulation Title

{0036286 - sensitivity test (case1@1.5m), emission @ 30oC}

Concentration(1)/Deposition(0), Emission rate units, Concentration/Deposition units, Background Concentration, Variable Background flag, Variable Emission Flag
{True OUV/second Odour_Units 0 False True }

Terrain influence tag, 0-ignore, 1 - include

{2}

Egan coefficients

{0.5 0.5 0.5 0.5 0.7 0.7 }

Number of source groups

{7}

Total number of sources (Stack + Area + Volume sources)

{5}

Source Group information

Total Number of Sources in Group 1

{5}

Sources in Source Group 1

{n-sbr1 n-sbr2 n-int n-wet n-spe }

Total Number of Sources in Group 2

{3}

Sources in Source Group 2

{n-wet n-int n-spe }

Total Number of Sources in Group 3

{2}

Sources in Source Group 3

{n-int n-wet }

Total Number of Sources in Group 4

{1}

Sources in Source Group 4

{n-int }

Total Number of Sources in Group 5

{1}

Sources in Source Group 5

{n-wet }

Total Number of Sources in Group 6

{1}

Sources in Source Group 6

{n-spe }

Total Number of Sources in Group 7

{2}

Sources in Source Group 7

{n-sbr1 n-sbr2 }

BPIP Run (1-True, 0-False)

{0 }

Total number of buildings

{0 }

Source Information

Source ID, Source Type (1 - stack, 2 - area, 3- volume) and X, Y, Z coordinates

{n-sbr1 1 846488 814623 5.5 }

Stack height and diameter

{5 30 }

Stack temperature, Velocity, Cross, Height

{273 0 0 0 }

Emission type (1-constant, 2-monthly, 3-hours of the day, 4-wind and stability, 5-hour and season, 6-temperature), Number of particle fractions

{1 0 }

Constant emission rate

{1}

Source ID, Source Type (1 - stack, 2 - area, 3- volume) and X, Y, Z coordinates

{n-sbr2 1 846507 814622 5.5 }

Stack height and diameter

{5 30 }

Stack temperature, Velocity, Cross, Height

{273 0 0 0 }

Emission type (1-constant, 2-monthly, 3-hours of the day, 4-wind and stability, 5-hour and season, 6-temperature), Number of particle fractions

{1 0 }

Constant emission rate

{1}

Source ID, Source Type (1 - stack, 2 - area, 3- volume) and X, Y, Z coordinates

{n-int 2 0 0 10 }

Source height

{0.1 0 }

Source Shape

{4 }

Side length, Effective Radius

{0 0 }

Emission type (1-constant, 2-monthly, 3-hours of the day, 4-wind and stability, 5-hour and season, 6-temperature), Position in Array, Number of particle fractions

{1 0 }

Constant emission rate

{1}

SigmaZ,XSide,YSide,Angle,Radius,Number of Vertices

{0 30 20 0 0 20 0 }

Base shape point coordinates

{846360 814745 }

Source ID, Source Type (1 - stack, 2 - area, 3- volume) and X, Y, Z coordinates

{n-wet 2 0 0 10 }

Source height

{0.1 0 }

Source Shape

{4 }

Side length, Effective Radius

{0 0 }

Emission type (1-constant, 2-monthly, 3-hours of the day, 4-wind and stability, 5-hour and season, 6-temperature), Position in Array, Number of particle fractions

{1 0 }

Constant emission rate

{1}

SigmaZ,XSide,YSide,Angle,Radius,Number of Vertices

{0 30 20 0 0 20 0 }

Base shape point coordinates

{846360 814725 }

Source ID, Source Type (1 - stack, 2 - area, 3- volume) and X, Y, Z coordinates

{n-spe 2 0 0 10 }

Source height

{0.1 0 }

Source Shape

{4 }

Side length, Effective Radius

{0 0 }

Emission type (1-constant, 2-monthly, 3-hours of the day, 4-wind and stability, 5-hour and season, 6-temperature), Position in Array, Number of particle fractions

{1 0 }

Constant emission rate

{1}

SigmaZ,XSide,YSide,Angle,Radius,Number of Vertices

{0 6 2.5 0 0 20 0 }

Base shape point coordinates

{846440 814745 }

Receptor information

Discrete receptors

Receptor coordinates type (1-Cartesian,0-Polar),Number of Receptors

{1 47 }

X, Y coordinates and Elevation
{846116 814823 2 }
X, Y coordinates and Elevation
{846500 814560 2 }
X, Y coordinates and Elevation
{846511 814339 2 }
X, Y coordinates and Elevation
{846220 815380 2 }
X, Y coordinates and Elevation
{846077 815374 2 }
X, Y coordinates and Elevation
{846210 815485 2 }
X, Y coordinates and Elevation
{846091 815718 2 }
X, Y coordinates and Elevation
{846139 815840 2 }
X, Y coordinates and Elevation
{845881 815903 2 }
X, Y coordinates and Elevation
{845649 816017 2 }
X, Y coordinates and Elevation
{846325 815907 2 }
X, Y coordinates and Elevation
{846373 816033 2 }
X, Y coordinates and Elevation
{846180 815941 2 }
X, Y coordinates and Elevation
{846111 815967 2 }
X, Y coordinates and Elevation
{846228 816048 2 }
X, Y coordinates and Elevation
{846393 816163 2 }
X, Y coordinates and Elevation
{846304 816227 2 }
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{846399 816323 2 }
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{846301 816628 2 }
X, Y coordinates and Elevation
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{845800 817255 2 }
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{846088 817869 2 }
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{845548 818591 2 }
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{845319 819190 2 }
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X, Y coordinates and Elevation
{845295 819404 2 }
X, Y coordinates and Elevation
{845235 819432 2 }
X, Y coordinates and Elevation
{845154 819499 2 }
X, Y coordinates and Elevation
{845214 819566 2 }
X, Y coordinates and Elevation
{845138 819606 2 }
X, Y coordinates and Elevation
{845071 819557 2 }
X, Y coordinates and Elevation

{0 0.02 0.02 0.02 0.02 0.02 0.02 0.035 0.035 0.035 0.035 0.035 0.035 }

Dispersion curves (1-Pasquill Gifford, 2- Briggs rural, 3-Sigma theta) horizontal < 100 m, ditto vertical < 100 m, ditto horizontal > 100 m, ditto vertical > 100 m

{1 1 2 2 }

Adjust PG curves for roughness - Horizontal, Vertical (1-yes,0-no)

{1 1 }

Enhance plume for buoyancy - Horizontal, Vertical (1-yes,0-no)

{1 1 }

Adjust for wind direction shear

{0}

Shear rates

{0.005 0.01 0.015 0.02 0.025 0.035 }

Wind Speed categories

{1.54 3.09 5.14 8.23 10.8 }

Output file

{'H:\WPFILES\Katie Moroney\Odour 20071121\Case 1\30oC_10m_terrain (case1) (1.5m).txt'}

Meteorological file

{'H:\WPFILES\Katie Moroney\SENT2006_20071121.met'}

Receptor file

{'H:\WPFILES\Katie Moroney\terrain data\PHASE_1B_10m(1.5).ter'}

Source Emission file

{'H:\WPFILES\Katie Moroney\SEF\20071010\Source emission file_20071010 (@30oC).src'}

Concentration file

{'H:\WPFILES\Katie Moroney\Odour 20071121\Case 1\30oC_10m_terrain (case1) (1.5m).dat'}

Frequency File

{'H:\WPFILES\Katie Moroney\Odour 20071121\Case 1\30oC_10m_terrain (case1) (1.5m).frq'}

Concentration file

{'H:\WPFILES\Katie Moroney\Odour 20070830\case1\30oC_10m_terrain (case1) (1.5m).dat'}

Frequency File

{'H:\WPFILES\Katie Moroney\Odour 20070830\case1\30oC_10m_terrain (case1) (1.5m).frq'}

Annex A9-1

ISCST Model Results for Gaseous Emission during Aftercare Phase

Annex A9-1 - ISCST3 Model Results for Gaseous Emissions during Aftercare Phase

Nitrogen Dioxide (NO2)

General Background NO2 concentration 66 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
A1-2 (1)	Planned Industrial Uses in TKO 137 (South of Extension) - 1	30	68	68	68	129	129
A1-2 (2)	Planned Industrial Uses in TKO 137 (South of extension) - 2 (outside 200m HKSG buffer distance)	30	69	69	70	73	73
A1-3 (1)	Planned Industrial Uses in TKO 137 - (South of TVB City) 1	30	67	68	68	68	68
A1-3 (2)	Planned Industrial Uses in TKO 137 - (South of TVB City) - 2 (outside 200m HKPSG buffer distance)	30	68	68	68	68	68
A2	TVB City	30	67	67	68	68	68
A3	HAESL	30	67	67	67	68	68
A4	Building	30	67	68	70	75	75
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 66 ug/m3

ASR	Name	Approx. Maximum Height of Building (m)	GD	10m	20m	30m	Highest
A1-1	Proposed C&DM Handling Facility	30	66.5	66.5	66.5	66.5	66.5
A1-2 (1)	Planned Industrial Uses in TKO 137 (South of Extension) - 1	30	66.2	66.2	66.3	85.7	85.7
A1-2 (2)	Planned Industrial Uses in TKO 137 (South of extension) - 2 (outside 200m HKSG buffer distance)	30	66.4	66.4	66.5	67.2	67.2
A1-3 (1)	Planned Industrial Uses in TKO 137 - (South of TVB City) 1	30	66.3	66.3	66.3	66.4	66.4
A1-3 (2)	Planned Industrial Uses in TKO 137 - (South of TVB City) - 2 (outside 200m HKPSG buffer distance)	30	66.4	66.4	66.5	66.7	66.7
A2	TVB City	30	66.3	66.3	66.3	66.4	66.4
A3	HAESL	30	66.3	66.3	66.5	66.7	66.7
A4	HAECO Component Overhaul Building	30	66.2	66.2	66.4	67.0	67.0
A7	Yan Hing Machinery Industrial Building	30	66.3	66.4	66.5	66.7	66.7
A8	Apple Daily	30	67.1	67.1	67.2	67.3	67.3
Daily NO2 Criterion			150	150	150	150	150

Annual Average

General Background NO2 concentration 66 ug/m3

ASR	Name	Approx. Maximum Height of Building (m)	GD	10m	20m	30m	Highest
A1-1	Proposed C&DM Handling Facility	30	66.03	66.03	66.04	66.06	66.1
A1-2 (1)	Planned Industrial Uses in TKO 137 (South of Extension) - 1	30	66.00	66.00	66.02	66.96	67.0
A1-2 (2)	Planned Industrial Uses in TKO 137 (South of extension) - 2 (outside 200m HKSG buffer distance)	30	66.02	66.02	66.04	66.08	66.1
A1-3 (1)	Planned Industrial Uses in TKO 137 - (South of TVB City) 1	30	66.04	66.04	66.04	66.05	66.1
A1-3 (2)	Planned Industrial Uses in TKO 137 - (South of TVB City) - 2 (outside 200m HKPSG buffer distance)	30	66.03	66.04	66.04	66.06	66.1
A2	TVB City	30	66.04	66.04	66.04	66.05	66.0
A3	HAESL	30	66.08	66.09	66.13	66.22	66.2
A4	HAECO Component Overhaul Building	30	66.05	66.05	66.07	66.13	66.1
A7	Yan Hing Machinery Industrial Building	30	66.04	66.05	66.06	66.09	66.1
A8	Apple Daily	30	66.06	66.06	66.08	66.11	66.1
Annual NO2 Criterion			80	80	80	80	80

Carbon Monoxide (CO)

General Background CO concentration 1294 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	1319	1319	1323	1350	1350
A1-2 (1)	Planned Industrial Uses in TKO 137 (South of Extension) - 1	30	1308	1308	1330	2273	2273
A1-2 (2)	Planned Industrial Uses in TKO 137 (South of extension) - 2 (outside 200m HKSG buffer distance)	30	1324	1324	1329	1395	1395
A1-3 (1)	Planned Industrial Uses in TKO 137 - (South of TVB City) 1	30	1317	1318	1318	1328	1328
A1-3 (2)	Planned Industrial Uses in TKO 137 - (South of TVB City) - 2 (outside 200m HKPSG buffer distance)	30	1317	1317	1319	1326	1326
A2	TVB City	30	1316	1316	1318	1325	1325
A3	HAESL	30	1314	1314	1315	1325	1325
A4	HAECO Component Overhaul Building	30	1311	1311	1314	1326	1326
A7	Yan Hing Machinery Industrial Building	30	1312	1313	1315	1326	1326
A8	Apple Daily	30	1318	1318	1319	1326	1326
Hourly CO Criterion			30000	30000	30000	30000	30000

8-hour Averaging

General Background CO concentration 1294 ug/m3

ASR	Name	Approx. Maximum Height of Building (m)	GD	10m	20m	30m	Highest
A1-1	Proposed C&DM Handling Facility	30	1308	1309	1311	1315	1315
A1-2 (1)	Planned Industrial Uses in TKO 137 (South of Extension) - 1	30	1296	1296	1306	1764	1764
A1-2 (2)	Planned Industrial Uses in TKO 137 (South of extension) - 2 (outside 200m HKSG buffer distance)	30	1308	1310	1315	1342	1342
A1-3 (1)	Planned Industrial Uses in TKO 137 - (South of TVB City) 1	30	1306	1306	1306	1306	1306
A1-3 (2)	Planned Industrial Uses in TKO 137 - (South of TVB City) - 2 (outside 200m HKPSG buffer distance)	30	1304	1305	1308	1311	1311
A2	TVB City	30	1306	1306	1306	1306	1306
A3	HAESL	30	1302	1302	1302	1302	1302
A4	HAECO Component Overhaul Building	30	1302	1302	1302	1302	1302
A7	Yan Hing Machinery Industrial Building	30	1302	1302	1302	1308	1308
A8	Apple Daily	30	1301	1301	1302	1309	1309
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	20.6	20.6	20.9	23.7	24
A1-2 (1)	Planned Industrial Uses in TKO 137 (South of Extension) - 1	30	18.2	18.2	21.6	118.1	118
A1-2 (2)	Planned Industrial Uses in TKO 137 (South of extension) - 2 (outside 200m HKSG buffer distance)	30	20.9	20.9	21.6	28.1	28
A1-3 (1)	Planned Industrial Uses in TKO 137 - (South of TVB City) 1	30	20.4	20.4	20.5	21.5	21
A1-3 (2)	Planned Industrial Uses in TKO 137 - (South of TVB City) - 2 (outside 200m HKPSG buffer distance)	30	20.3	20.4	20.5	21.3	21
A2	TVB City	30	20.3	20.3	20.4	21.2	21
A3	HAESL	30	20.0	20.1	20.2	21.1	21
A4	HAECO Component Overhaul Building	30	19.7	19.7	20.0	21.2	21
A7	Yan Hing Machinery Industrial Building	30	19.8	19.9	20.1	21.2	21
A8	Apple Daily	30	19.8	19.8	20.0	21.2	21
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	18.54	18.56	18.62	18.79	18.8
A1-2 (1)	Planned Industrial Uses in TKO 137 (South of Extension) - 1	30	18.01	18.01	18.39	49.50	49.5
A1-2 (2)	Planned Industrial Uses in TKO 137 (South of extension) - 2 (outside 200m HKSG buffer distance)	30	18.46	18.53	18.71	19.62	19.6
A1-3 (1)	Planned Industrial Uses in TKO 137 - (South of TVB City) 1	30	18.49	18.50	18.53	18.58	18.6
A1-3 (2)	Planned Industrial Uses in TKO 137 - (South of TVB City) - 2 (outside 200m HKPSG buffer distance)	30	18.62	18.67	18.81	19.10	19.1
A2	TVB City	30	18.44	18.45	18.47	18.51	18.5
A3	HAESL	30	18.33	18.34	18.36	18.39	18.4
A4	HAECO Component Overhaul Building	30	18.29	18.30	18.35	18.44	18.4
A7	Yan Hing Machinery Industrial Building	30	18.48	18.51	18.66	19.00	19.0
A8	Apple Daily	30	18.39	18.42	18.52	18.79	18.8
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	18.039	18.041	18.050	18.077	18.08
A1-2 (1)	Planned Industrial Uses in TKO 137 (South of Extension) - 1	30	18.001	18.003	18.023	19.476	19.48
A1-2 (2)	Planned Industrial Uses in TKO 137 (South of extension) - 2 (outside 200m HKSG buffer distance)	30	18.022	18.028	18.050	18.104	18.10
A1-3 (1)	Planned Industrial Uses in TKO 137 - (South of TVB City) 1	30	18.051	18.052	18.056	18.068	18.07
A1-3 (2)	Planned Industrial Uses in TKO 137 - (South of TVB City) - 2 (outside 200m HKPSG buffer distance)	30	18.044	18.045	18.053	18.075	18.07
A2	TVB City	30	18.048	18.049	18.053	18.063	18.06
A3	HAESL	30	18.038	18.040	18.048	18.063	18.06
A4	HAECO Component Overhaul Building	30	18.037	18.038	18.044	18.058	18.06
A7	Yan Hing Machinery Industrial Building	30	18.047	18.050	18.062	18.091	18.09
A8	Apple Daily	30	18.044	18.047	18.059	18.085	18.09
Annual SO₂ Criterion			80	80	80	80	80

Benzene

Background concentration

2.1 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	2.10124	2.10124	2.10145	2.10271	2.103
A1-2 (1)	Planned Industrial Uses in TKO 137 (South of Extension) - 1	30	2.10004	2.1001	2.10179	2.14678	2.147
A1-2 (2)	Planned Industrial Uses in TKO 137 (South of extension) - 2 (outside 200m HKSG buffer distance)	30	2.10151	2.10156	2.10183	2.10509	2.105
A1-3 (1)	Planned Industrial Uses in TKO 137 - (South of TVB City) 1	30	2.10112	2.10113	2.10117	2.10163	2.102
A1-3 (2)	Planned Industrial Uses in TKO 137 - (South of TVB City) - 2 (outside 200m HKPSG buffer distance)	30	2.1011	2.10111	2.10118	2.10153	2.102
A2	TVB City	30	2.10106	2.10107	2.10115	2.10153	2.102
A3	HAESL	30	2.10096	2.10097	2.10103	2.10158	2.102
A4	HAECO Component Overhaul Building	30	2.10081	2.10082	2.10094	2.10163	2.102
A7	Yan Hing Machinery Industrial Building	30	2.10086	2.10089	2.101	2.10163	2.102
A8	Apple Daily	30	2.10084	2.10087	2.10095	2.10164	2.102
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
A1-2 (1)	Planned Industrial Uses in TKO 137 (South of Extension) - 1	30	2.100	2.100	2.100	2.101	2.101
A1-2 (2)	Planned Industrial Uses in TKO 137 (South of extension) - 2 (outside 200m HKSG buffer distance)	30	2.100	2.100	2.100	2.100	2.100
A1-3 (1)	Planned Industrial Uses in TKO 137 - (South of TVB City) 1	30	2.100	2.100	2.100	2.100	2.100
A1-3 (2)	Planned Industrial Uses in TKO 137 - (South of TVB City) - 2 (outside 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
A4	HAECO Component Overhaul Building	30	2.100	2.100	2.100	2.100	2.100
A7	Yan Hing Machinery Industrial 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 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	5.100	5.100	5.100	5.100	5.100
A1-2 (1)	Planned Industrial Uses in TKO 137 (South of Extension) - 1	30	5.100	5.100	5.100	5.104	5.104
A1-2 (2)	Planned Industrial Uses in TKO 137 (South of extension) - 2 (outside 200m HKSG buffer distance)	30	5.101	5.101	5.101	5.102	5.102
A1-3 (1)	Planned Industrial Uses in TKO 137 - (South of TVB City) 1	30	5.100	5.100	5.100	5.100	5.100
A1-3 (2)	Planned Industrial Uses in TKO 137 - (South of TVB City) - 2 (outside 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
A4	HAECO Component Overhaul Building	30	5.100	5.100	5.100	5.100	5.100
A7	Yan Hing Machinery Industrial 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
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
A1-1	Proposed C&DM Handling Facility	30	5.10	5.10	5.10	5.10	5.100
A1-2 (1)	Planned Industrial Uses in TKO 137 (South of Extension) - 1	30	5.10	5.10	5.10	5.10	5.100
A1-2 (2)	Planned Industrial Uses in TKO 137 (South of extension) - 2 (outside 200m HKSG buffer distance)	30	5.10	5.10	5.10	5.10	5.100
A1-3 (1)	Planned Industrial Uses in TKO 137 - (South of TVB City) 1	30	5.10	5.10	5.10	5.10	5.100
A1-3 (2)	Planned Industrial Uses in TKO 137 - (South of TVB City) - 2 (outside 200m HKPSG buffer distance)	30	5.10	5.10	5.10	5.10	5.100
A2	TVB City	30	5.10	5.10	5.10	5.10	5.100
A3	HAESL	30	5.10	5.10	5.10	5.10	5.100
A4	HAECO Component Overhaul Building	30	5.10	5.10	5.10	5.10	5.100
A7	Yan Hing Machinery Industrial Building	30	5.10	5.10	5.10	5.10	5.100
A8	Apple Daily	30	5.10	5.10	5.10	5.10	5.100
Chronic Reference Concentration			100	100	100	100	100

Annex A9-2

Health Risk Assessment for Benzene & Vinyl Chloride during Aftercare Phase

Annex A9-2 - Health Risk Assessment for Benzene & Vinyl Chloride during Aftercare Phase

Benzene

Unit Risk Factor

7.80E-06

ASR	Name	Approx. Maximum Height of Building (m)	Annual Concentration ($\mu\text{g}/\text{m}^3$)				Health Risk Level				
			GD	10m	20m	30m	GD	10m	20m	30m	Highest
A1-1	Proposed C&DM Handling Facility	30	0.00002	0.00002	0.00003	0.00004	1.6E-10	1.6E-10	2.3E-10	3.1E-10	3.1E-10
A1-2 (1)	Planned Industrial Uses in TKO 137 (South of Extension) - 1	30	0	0	0.00002	0.00075	0.0E+00	0.0E+00	1.6E-10	5.9E-09	5.9E-09
A1-2 (2)	Planned Industrial Uses in TKO 137 (South of extension) - 2 (outside 200m HKSG buffer distance)	30	0.00001	0.00002	0.00003	0.00006	7.8E-11	1.6E-10	2.3E-10	4.7E-10	4.7E-10
A1-3 (1)	Planned Industrial Uses in TKO 137 - (South of TVB City) 1	30	0.00003	0.00003	0.00003	0.00003	2.3E-10	2.3E-10	2.3E-10	2.3E-10	2.3E-10
A1-3 (2)	Planned Industrial Uses in TKO 137 - (South of TVB City) - 2 (outside 200m HKPSG buffer distance)	30	0.00002	0.00002	0.00003	0.00004	1.6E-10	1.6E-10	2.3E-10	3.1E-10	3.1E-10
A2	TVB City	30	0.00003	0.00003	0.00003	0.00003	2.3E-10	2.3E-10	2.3E-10	2.3E-10	2.3E-10
A3	HAESL	30	0.00002	0.00002	0.00002	0.00003	1.6E-10	1.6E-10	1.6E-10	2.3E-10	2.3E-10
A4	HAECO Component Overhaul Building	30	0.00002	0.00002	0.00002	0.00003	1.6E-10	1.6E-10	1.6E-10	2.3E-10	2.3E-10
A7	Yan Hing Machinery Industrial Building	30	0.00003	0.00003	0.00004	0.00005	2.3E-10	2.3E-10	3.1E-10	3.9E-10	3.9E-10
A8	Apple Daily	30	0.00003	0.00003	0.00003	0.00005	2.3E-10	2.3E-10	2.3E-10	3.9E-10	3.9E-10

Vinyl Chloride

Unit Risk Factor

8.80E-06

ASR	Name	Approx. Maximum Height of Building (m)	Annual Concentration ($\mu\text{g}/\text{m}^3$)				Health Risk Level				
			GD	10m	20m	30m	GD	10m	20m	30m	Highest
A1-1	Proposed C&DM Handling Facility	30	0	0	0	0.00001	0.0E+00	0.0E+00	0.0E+00	8.8E-11	8.8E-11
A1-2 (1)	Planned Industrial Uses in TKO 137 (South of Extension) - 1	30	0	0	0.00001	0.0001	0.0E+00	0.0E+00	8.8E-11	8.8E-10	8.8E-10
A1-2 (2)	Planned Industrial Uses in TKO 137 (South of extension) - 2 (outside 200m HKSG buffer distance)	30	0	0	0.00001	0.00001	0.0E+00	0.0E+00	8.8E-11	8.8E-11	8.8E-11
A1-3 (1)	Planned Industrial Uses in TKO 137 - (South of TVB City) 1	30	0.00001	0.00001	0.00001	0.00001	8.8E-11	8.8E-11	8.8E-11	8.8E-11	8.8E-11
A1-3 (2)	Planned Industrial Uses in TKO 137 - (South of TVB City) - 2 (outside 200m HKPSG buffer distance)	30	0	0	0.00001	0.00001	0.0E+00	0.0E+00	8.8E-11	8.8E-11	8.8E-11
A2	TVB City	30	0.00001	0.00001	0.00001	0.00001	8.8E-11	8.8E-11	8.8E-11	8.8E-11	8.8E-11
A3	HAESL	30	0	0	0	0.00001	0.0E+00	0.0E+00	0.0E+00	8.8E-11	8.8E-11
A4	HAECO Component Overhaul Building	30	0	0	0.00001	0.00001	0.0E+00	0.0E+00	8.8E-11	8.8E-11	8.8E-11
A7	Yan Hing Machinery Industrial Building	30	0.00001	0.00001	0.00001	0.00001	8.8E-11	8.8E-11	8.8E-11	8.8E-11	8.8E-11
A8	Apple Daily	30	0.00001	0.00001	0.00001	0.00001	8.8E-11	8.8E-11	8.8E-11	8.8E-11	8.8E-11

Total Risk

ASR	Name	Approx. Maximum Height of Building (m)	Total Health Risk Level				
			GD	10m	20m	30m	Highest
A1-1	Proposed C&DM Handling Facility	30	1.6E-10	1.6E-10	2.3E-10	4.0E-10	4.0E-10
A1-2 (1)	Planned Industrial Uses in TKO 137 (South of Extension) - 1	30	0.0E+00	0.0E+00	2.4E-10	6.7E-09	6.7E-09
A1-2 (2)	Planned Industrial Uses in TKO 137 (South of extension) - 2 (outside 200m HKSG buffer distance)	30	7.8E-11	1.6E-10	3.2E-10	5.6E-10	5.6E-10
A1-3 (1)	Planned Industrial Uses in TKO 137 - (South of TVB City) 1	30	3.2E-10	3.2E-10	3.2E-10	3.2E-10	3.2E-10
A1-3 (2)	Planned Industrial Uses in TKO 137 - (South of TVB City) - 2 (outside 200m HKPSG buffer distance)	30	1.6E-10	1.6E-10	3.2E-10	4.0E-10	4.0E-10
A2	TVB City	30	3.2E-10	3.2E-10	3.2E-10	3.2E-10	3.2E-10
A3	HAESL	30	1.6E-10	1.6E-10	1.6E-10	3.2E-10	3.2E-10
A4	HAECO Component Overhaul Building	30	1.6E-10	1.6E-10	2.4E-10	3.2E-10	3.2E-10
A7	Yan Hing Machinery Industrial Building	30	3.2E-10	3.2E-10	4.0E-10	4.8E-10	4.8E-10
A8	Apple Daily	30	3.2E-10	3.2E-10	3.2E-10	4.8E-10	4.8E-10

Annex A10

5-sec Odour Concentration
exceeded Criterion and No.
of Exceedance of A2 under
Worst Case 3 (TVB City)

Annex A10 - 5-sec Odour Concentration exceeded Criterion and No. of Exceedance of A2 (1.5m above ground) under Worst Case 3 (TVB City)

NOTE: Those highlighted are eliminated after rephasing (ie, avoiding waste tipping between July and November)

Phase 1

Year	Month	Day	Hour	Temp	Wind Speed	Wind Direction	Stability Class	Results	After re-phasing (no disposal at northern sector between July & November)
06	8	12	19	30	0.5	145	F	12.5	
06	1	28	22	16	0.7	147	F	8.9	No. of exceedance eliminated
06	8	13	20	29	0.7	145	F	8.9	Total no. of exceedance
06	1	13	19	19	0.7	144	F	8.4	% reduction
06	8	13	22	29	0.7	144	F	8.4	
06	10	27	20	26	0.7	144	F	8.4	
06	8	8	19	30	0.5	141	F	8.0	
06	10	8	20	26	0.8	146	F	8.0	
06	6	21	20	29	0.6	150	F	7.9	
06	10	10	22	26	0.6	142	F	7.9	
06	8	13	19	29	0.8	147	F	7.8	
06	6	12	20	26	0.8	145	F	7.8	
06	10	23	18	27	0.7	149	F	7.7	
06	11	18	23	24	0.8	144	F	7.4	
06	9	28	21	26	0.9	145	F	6.9	
06	5	27	22	27	0.9	144	F	6.6	
06	10	27	18	27	0.9	144	F	6.6	
06	12	22	23	16	0.9	149	F	6.0	
06	3	20	20	0	1	144	F	5.9	
06	10	17	20	27	1.1	146	F	5.8	
06	1	16	21	20	0.6	152	F	5.5	
06	10	7	23	25	0.6	152	F	5.5	
06	12	4	18	21	1	149	F	5.4	
06	6	2	20	27	1.2	147	F	5.2	
06	6	26	20	30	0.5	139	F	5.1	
06	10	31	19	26	0.8	151	F	5.0	

Phase 2

Year	Month	Day	Hour	Temp	Wind Speed	Wind Direction	Stability Class	Results	After re-phasing (no disposal at northern sector between July & November)
06	11	18	19	24	0.5	122	F	13.1	
06	9	20	18	28	0.6	121	F	10.4	No. of exceedance eliminated
06	7	2	20	30	0.6	125	F	10.3	Total no. of exceedance
06	11	27	14	26	0.5	127	F	9.9	% reduction
06	3	21	20	0	0.7	123	F	9.5	
06	11	20	19	24	0.8	123	F	8.3	
06	4	8	22	23	0.5	128	F	8.2	
06	9	19	19	27	0.7	126	F	8.0	
06	4	3	20	24	0.5	129	F	6.7	
06	10	20	20	27	0.8	127	F	6.1	
06	10	16	23	26	1.1	123	F	6.1	
06	9	20	19	27	1.1	122	F	6.0	
06	10	21	20	27	1.1	122	F	6.0	
06	7	3	19	30	0.6	117	F	5.9	
06	1	10	19	16	0.9	127	F	5.4	
06	10	12	20	27	1.2	121	F	5.2	
06	6	26	23	30	0.8	128	F	5.2	
06	10	28	22	26	1.2	125	F	5.1	
06	11	16	22	24	1.2	125	F	5.1	
06	4	7	20	22	1.1	126	F	5.1	
06	8	27	22	29	1	119	B	5.0	

Phase 3

Year	Month	Day	Hour	Temp	Wind Speed	Wind Direction	Stability Class	Results	After re-phasing (no disposal at northern sector between July & November)
06	11	27	13	28	0.5	100	F	14.0	
06	6	19	20	28	0.5	97	F	8.6	No. of exceedance eliminated
06	3	6	23	0	0.7	100	F	7.2	Total no. of exceedance
06	11	27	15	27	1.2	98	F	6.1	% reduction
06	3	12	8	0	0.8	98	F	5.9	
06	11	18	18	25	0.8	98	F	5.9	
06	12	8	18	23	0.8	97	F	5.4	
06	11	25	22	24	0.9	98	F	5.2	
06	6	19	19	29	0.8	103	F	5.1	
06	9	13	22	22	0.8	103	F	5.1	

Phase 4

Year	Month	Day	Hour	Temp	Wind Speed	Wind Direction	Stability Class	Results	After re-phasing (no disposal at northern sector between July & November)
06	3	17	23	0	0.5	89	F	6.5	
06	3	26	9	19	0.8	84	F	5.9	No. of exceedance eliminated
06	11	15	15	20	1	85	F	5.2	Total no. of exceedance
06	11	16	19	24	0.5	83	F	5.0	% reduction

Phase 5

Year	Month	Day	Hour	Temp	Wind Speed	Wind Direction	Stability Class	Results	After re-phasing (no disposal at northern sector between July & November)
06	6	28	14	26	0.6	79	F	5.40	
									No. of exceedance eliminated
									Total no. of exceedance
									% reduction

Annex A11-1

Detailed Model Results for
Odour & No. of Instances
having Exceedance (Part
A - Predicted 5-second
Odour Results) (After
Rephasing)

**Annex A11-1 - Detailed Model Results & No. of Instances having Exceedance
(After Rephasing)**

PART A --- PREDICTED 5-SECOND ODOUR RESULTS

Source Height at 10m above ground

ASR	Name	Approx. Maximum Height of Building (m)	Worst Case 3	
			Maximum 5-second Odour Levels	
			1.5m above ground	
			w/o rephasing	w/ rephasing
A1-1	Proposed C&DM Handling Facility	30	3.2	3.2
A1-2 (1)	Planned Industrial Uses in TKO 137 (south of Extension) - 1	30	1.9	1.2
A1-2 (2)	Planned Industrial Uses in TKO 137 (south of Extension) - 2 (outside 200m HKPSG buffer distance)	30	1.3	1.3
A1-3 (1)	Planned Industrial Uses in TKO 137 (south of TVB City) - 1	30	23.2	19.3
A1-3 (2)	Planned Industrial Uses in TKO 137 (south of TVB City) - 2 (outside 200m HKPSG buffer distance)	30	11.4	5.6
A2	TVB City	30	12.5	8.9
A3	HAESL	30	3.3	3.3
A4	HAECO Component Overhaul Building	30	2.4	2.4
A5	Exhibition Services & Logistics Centre	30	1.7	1.3
A6	Gammon Skanska	30	1.2	1.2
A7	Yan Hing Machinery Industrial Building	30	2.7	2.7
A8	Apple Daily	30	1.9	1.9
A9	Mei Ah Industrial Building	30	2.4	2.4
A10	Asia Netcom	30	1.8	1.8
A11	Wellcome Storage	30	1.9	1.9
A12	Avery Dennison Machinery	30	1.5	1.5
A13	Hitachi	30	1.4	1.4
A14	Next Media Co. Ltd	30	1.2	1.2
A15	Varitronix	30	0.9	0.9
A16	Four Seas Food Processing Co. Ltd	30	0.9	0.9
A17	Committed HSBC Office	30	0.8	0.8
A18	Eastern Pacific Electronics	30	0.7	0.7
A19	Committed Tung Wah Group of Hospital Aided Primary & Secondary School	30	0.6	0.6
A20	LOHAS Park	200	0.5	0.5
A21	Chiaphua-Shinko Centre	30	0.4	0.4
A22	Shaw Film Studios	30	0.4	0.4
A23	Oscar by the Sea	170	0.2	0.2
A24	Tseung Kwan O Sport Ground	1.5	0.2	0.2
A25	Tseung Kwan O Town Park	1.5	0.1	0.1
A26	Leung Sing Tak Primary School	20	0.2	0.2
A27	Nan Fung Plaza	130	0.2	0.2
A28	St Andrew's Church	20	0.2	0.2
A29	Fung Ching Memorial Primary School	20	0.2	0.2
A30	On Ning Garden	120	0.2	0.2
A31	Sheung Ning Playground	1.5	0.1	0.1
A32	Tseung Kwan O Swimming Pool	1.5	0.1	0.1
A33	La Cite Noble	140	0.2	0.2
A34	Yuk Ming Court	110	0.2	0.2
A35	Ming Tak Estate	110	0.2	0.2
A36	Tin Ha Wan Village	10	0.2	0.2
A37	Tseung Kwan O Hospital	25	0.2	0.2
A38	Ocean Shore Phase I	160	0.2	0.2
A39	Choi Ming Estate, Choi Yiu Court	155	0.2	0.1
A40	Park Central Block 1	185	0.2	0.2
A41	Bauhinia Garden Block 5	165	0.2	0.2
A42	Heng Fa Chuen, Block 50	70	0.2	0.2
A43	Island Resort, Block 7	160	0.2	0.2

Source Height at 30m above ground

ASR	Name	Approx. Maximum Height of Building (m)	Worst Case 3		
			Maximum 5-second Odour Levels		
			1.5m above ground		
			w/o rephasing	w/ rephasing	
A1-1	Proposed C&DM Handling Facility	30		2.2	2.2
A1-2 (1)	Planned Industrial Uses in TKO 137 (south of Extension) - 1	30		1.9	1.9
A1-2 (2)	Planned Industrial Uses in TKO 137 (south of Extension) - 2 (outside 200m HKPSG buffer distance)	30		1.6	1.6
A1-3 (1)	Planned Industrial Uses in TKO 137 (south of TVB City) - 1	30		14.4	14.4
A1-3 (2)	Planned Industrial Uses in TKO 137 (south of TVB City) - 2 (outside 200m HKPSG buffer distance)	30		7.3	7.3
A2	TVB City	30		13.1	9.5
A3	HAESL	30		4.2	4.2
A4	HAECO Component Overhaul Building	30		2.8	2.8
A5	Exhibition Services & Logistics Centre	30		1.8	1.8
A6	Gammon Skanska	30		1.6	1.1
A7	Yan Hing Machinery Industrial Building	30		3.3	3.3
A8	Apple Daily	30		2.4	2.4
A9	Mei Ah Industrial Building	30		2.1	2.1
A10	Asia Netcom	30		1.7	1.7
A11	Wellcome Storage	30		2.2	2.2
A12	Avery Dennison Machinery	30		1.7	1.7
A13	Hitachi	30		1.7	1.7
A14	Next Media Co. Ltd	30		1.3	1.3
A15	Varitronix	30		1.2	1.2
A16	Four Seas Food Processing Co. Ltd	30		0.9	0.9
A17	Committed HSBC Office	30		1.0	1.0
A18	Eastern Pacific Electronics	30		0.7	0.7
A19	Committed Tung Wah Group of Hospital Aided Primary & Secondary School	30		0.7	0.7
A20	LOHAS Park	200		0.4	0.4
A21	Chiaphua-Shinko Centre	30		0.4	0.4
A22	Shaw Film Studios	30		0.4	0.4
A23	Oscar by the Sea	170		0.2	0.2
A24	Tseung Kwan O Sport Ground	1.5		0.2	0.2
A25	Tseung Kwan O Town Park	1.5		0.2	0.2
A26	Leung Sing Tak Primary School	20		0.2	0.2
A27	Nan Fung Plaza	130		0.2	0.2
A28	St Andrew's Church	20		0.1	0.1
A29	Fung Ching Memorial Primary School	20		0.2	0.2
A30	On Ning Garden	120		0.1	0.1
A31	Sheung Ning Playground	1.5		0.1	0.1
A32	Tseung Kwan O Swimming Pool	1.5		0.1	0.1
A33	La Cite Noble	140		0.2	0.2
A34	Yuk Ming Court	110		0.2	0.2
A35	Ming Tak Estate	110		0.2	0.2
A36	Tin Ha Wan Village	10		0.2	0.2
A37	Tseung Kwan O Hospital	25		0.2	0.2
A38	Ocean Shore Phase I	160		0.2	0.2
A39	Choi Ming Estate, Choi Yiu Court	155		0.2	0.1
A40	Park Central Block 1	185		0.2	0.2
A41	Bauhinia Garden Block 5	165		0.2	0.2
A42	Heng Fa Chuen, Block 50	70		0.2	0.2
A43	Island Resort, Block 7	160		0.2	0.2

Source Height at 50m above ground

ASR	Name	Approx. Maximum Height of Building (m)	Worst Case 3	
			Maximum 5-second Odour Levels	
			1.5m above ground	
			w/o rephasing	w/ rephasing
A1-1	Proposed C&DM Handling Facility	30	1.7	1.7
A1-2 (1)	Planned Industrial Uses in TKO 137 (south of Extension) - 1	30	1.3	1.3
A1-2 (2)	Planned Industrial Uses in TKO 137 (south of Extension) - 2 (outside 200m HKPSG buffer distance)	30	1.1	1.1
A1-3 (1)	Planned Industrial Uses in TKO 137 (south of TVB City) - 1	30	11.2	11.2
A1-3 (2)	Planned Industrial Uses in TKO 137 (south of TVB City) - 2 (outside 200m HKPSG buffer distance)	30	6.9	6.9
A2	TVB City	30	14.0	8.6
A3	HAESL	30	5.2	4.0
A4	HAECO Component Overhaul Building	30	3.5	3.1
A5	Exhibition Services & Logistics Centre	30	3.0	1.9
A6	Gammon Skanska	30	1.7	1.0
A7	Yan Hing Machinery Industrial Building	30	3.4	3.4
A8	Apple Daily	30	2.7	2.7
A9	Mei Ah Industrial Building	30	2.4	2.4
A10	Asia Netcom	30	2.4	1.8
A11	Wellcome Storage	30	1.9	1.9
A12	Avery Dennison Machinery	30	2.1	2.1
A13	Hitachi	30	1.8	1.8
A14	Next Media Co. Ltd	30	1.5	1.5
A15	Varitronix	30	1.3	1.3
A16	Four Seas Food Processing Co. Ltd	30	1.1	1.1
A17	Committed HSBC Office	30	1.0	1.0
A18	Eastern Pacific Electronics	30	0.9	0.9
A19	Committed Tung Wah Group of Hospital Aided Primary & Secondary School	30	0.7	0.7
A20	LOHAS Park	200	0.4	0.4
A21	Chiaphua-Shinko Centre	30	0.6	0.6
A22	Shaw Film Studios	30	0.4	0.4
A23	Oscar by the Sea	170	0.2	0.2
A24	Tseung Kwan O Sport Ground	1.5	0.2	0.2
A25	Tseung Kwan O Town Park	1.5	0.2	0.2
A26	Leung Sing Tak Primary School	20	0.2	0.2
A27	Nan Fung Plaza	130	0.1	0.1
A28	St Andrew's Church	20	0.1	0.1
A29	Fung Ching Memorial Primary School	20	0.1	0.1
A30	On Ning Garden	120	0.1	0.1
A31	Sheung Ning Playground	1.5	0.1	0.1
A32	Tseung Kwan O Swimming Pool	1.5	0.1	0.1
A33	La Cite Noble	140	0.2	0.2
A34	Yuk Ming Court	110	0.2	0.2
A35	Ming Tak Estate	110	0.2	0.2
A36	Tin Ha Wan Village	10	0.2	0.2
A37	Tseung Kwan O Hospital	25	0.2	0.2
A38	Ocean Shore Phase I	160	0.2	0.2
A39	Choi Ming Estate, Choi Yiu Court	155	0.2	0.1
A40	Park Central Block 1	185	0.2	0.2
A41	Bauhinia Garden Block 5	165	0.2	0.2
A42	Heng Fa Chuen, Block 50	70	0.2	0.2
A43	Island Resort, Block 7	160	0.2	0.1

Source Height at 70m above ground

ASR	Name	Approx. Maximum Height of Building (m)	Worst Case 3	
			Maximum 5-second Odour Levels	
			1.5m above ground	
			w/o rephasing	w/ rephasing
A1-1	Proposed C&DM Handling Facility	30	1.4	1.5
A1-2 (1)	Planned Industrial Uses in TKO 137 (south of Extension) - 1	30	1.5	1.2
A1-2 (2)	Planned Industrial Uses in TKO 137 (south of Extension) - 2 (outside 200m HKPSG buffer distance)	30	1.2	0.8
A1-3 (1)	Planned Industrial Uses in TKO 137 (south of TVB City) - 1	30	6.4	6.4
A1-3 (2)	Planned Industrial Uses in TKO 137 (south of TVB City) - 2 (outside 200m HKPSG buffer distance)	30	3.3	3.3
A2	TVB City	30	6.5	6.5
A3	HAESL	30	3.1	1.8
A4	HAECO Component Overhaul Building	30	4.4	3.1
A5	Exhibition Services & Logistics Centre	30	1.9	1.3
A6	Gammon Skanska	30	1.1	0.7
A7	Yan Hing Machinery Industrial Building	30	3.5	3.5
A8	Apple Daily	30	2.6	2.6
A9	Mei Ah Industrial Building	30	3.0	2.6
A10	Asia Netcom	30	2.5	2.5
A11	Wellcome Storage	30	2.1	2.1
A12	Avery Dennison Machinery	30	2.3	2.2
A13	Hitachi	30	1.5	1.6
A14	Next Media Co. Ltd	30	1.6	1.6
A15	Varitronix	30	1.3	1.3
A16	Four Seas Food Processing Co. Ltd	30	1.0	1.0
A17	Committed HSBC Office	30	1.2	1.2
A18	Eastern Pacific Electronics	30	0.8	0.8
A19	Committed Tung Wah Group of Hospital Aided Primary & Secondary School	30	0.7	0.6
A20	LOHAS Park	200	0.4	0.4
A21	Chiaphua-Shinko Centre	30	0.5	0.5
A22	Shaw Film Studios	30	0.4	0.4
A23	Oscar by the Sea	170	0.2	0.2
A24	Tseung Kwan O Sport Ground	1.5	0.1	0.2
A25	Tseung Kwan O Town Park	1.5	0.1	0.1
A26	Leung Sing Tak Primary School	20	0.2	0.2
A27	Nan Fung Plaza	130	0.2	0.2
A28	St Andrew's Church	20	0.1	0.1
A29	Fung Ching Memorial Primary School	20	0.1	0.1
A30	On Ning Garden	120	0.1	0.1
A31	Sheung Ning Playground	1.5	0.1	0.1
A32	Tseung Kwan O Swimming Pool	1.5	0.1	0.1
A33	La Cite Noble	140	0.2	0.2
A34	Yuk Ming Court	110	0.2	0.2
A35	Ming Tak Estate	110	0.2	0.2
A36	Tin Ha Wan Village	10	0.2	0.2
A37	Tseung Kwan O Hospital	25	0.2	0.2
A38	Ocean Shore Phase I	160	0.2	0.2
A39	Choi Ming Estate, Choi Yiu Court	155	0.2	0.1
A40	Park Central Block 1	185	0.2	0.2
A41	Bauhinia Garden Block 5	165	0.2	0.2
A42	Heng Fa Chuen, Block 50	70	0.2	0.2
A43	Island Resort, Block 7	160	0.1	0.1

Source Height at 100m above ground

ASR	Name	Approx. Maximum Height of Building (m)	Worst Case 3	
			Maximum 5-second Odour Levels	
			1.5m above ground	
			w/o rephasing	w/ rephasing
A1-1	Proposed C&DM Handling Facility	30	1.2	1.2
A1-2 (1)	Planned Industrial Uses in TKO 137 (south of Extension) - 1	30	1.2	1.0
A1-2 (2)	Planned Industrial Uses in TKO 137 (south of Extension) - 2 (outside 200m HKPSG buffer distance)	30	0.7	0.7
A1-3 (1)	Planned Industrial Uses in TKO 137 (south of TVB City) - 1	30	2.9	2.6
A1-3 (2)	Planned Industrial Uses in TKO 137 (south of TVB City) - 2 (outside 200m HKPSG buffer distance)	30	2.6	2.6
A2	TVB City	30	5.4	5.4
A3	HAESL	30	3.8	1.8
A4	HAECO Component Overhaul Building	30	2.3	1.4
A5	Exhibition Services & Logistics Centre	30	1.1	1.1
A6	Gammon Skanska	30	0.8	0.7
A7	Yan Hing Machinery Industrial Building	30	3.7	2.6
A8	Apple Daily	30	2.8	2.3
A9	Mei Ah Industrial Building	30	3.8	2.6
A10	Asia Netcom	30	2.7	1.8
A11	Wellcome Storage	30	2.3	2.3
A12	Avery Dennison Machinery	30	1.8	1.8
A13	Hitachi	30	1.6	1.6
A14	Next Media Co. Ltd	30	1.4	1.4
A15	Varitronix	30	1.2	1.2
A16	Four Seas Food Processing Co. Ltd	30	0.9	0.9
A17	Committed HSBC Office	30	1.1	1.1
A18	Eastern Pacific Electronics	30	0.7	0.7
A19	Committed Tung Wah Group of Hospital Aided Primary & Secondary School	30	0.6	0.6
A20	LOHAS Park	200	0.4	0.4
A21	Chiaphua-Shinko Centre	30	0.5	0.5
A22	Shaw Film Studios	30	0.4	0.4
A23	Oscar by the Sea	170	0.2	0.2
A24	Tseung Kwan O Sport Ground	1.5	0.1	0.1
A25	Tseung Kwan O Town Park	1.5	0.1	0.2
A26	Leung Sing Tak Primary School	20	0.1	0.1
A27	Nan Fung Plaza	130	0.1	0.1
A28	St Andrew's Church	20	0.1	0.1
A29	Fung Ching Memorial Primary School	20	0.1	0.1
A30	On Ning Garden	120	0.1	0.1
A31	Sheung Ning Playground	1.5	0.1	0.1
A32	Tseung Kwan O Swimming Pool	1.5	0.1	0.1
A33	La Cite Noble	140	0.2	0.2
A34	Yuk Ming Court	110	0.2	0.2
A35	Ming Tak Estate	110	0.2	0.2
A36	Tin Ha Wan Village	10	0.2	0.2
A37	Tseung Kwan O Hospital	25	0.2	0.2
A38	Ocean Shore Phase I	160	0.2	0.2
A39	Choi Ming Estate, Choi Yiu Court	155	0.2	0.2
A40	Park Central Block 1	185	0.2	0.1
A41	Bauhinia Garden Block 5	165	0.2	0.2
A42	Heng Fa Chuen, Block 50	70	0.2	0.2
A43	Island Resort, Block 7	160	0.1	0.1

Annex A11-2

Detailed Model Results for
Odour & No. of Instances
having Exceedance (Part B –
No. of Instances having
Exceedance) (After
Rephasing)

Annex A11-2 - Detailed Model Results & No. of Instances having Exceedance (After Rephasing)

PART B --- NO. OF INSTANCES HAVING EXCEEDANCE

Source Height at 10m above ground

ASR	Name	Approx. Maximum Height of Building (m)	No. of Instances having Exceedance		
			Worst Case 3		
			1.5m above ground		
			w/o rephasing	w/ rephasing	% reduction
A1-1	Proposed C&DM Handling Facility	30	-	-	-
A1-2 (1)	Planned Industrial Uses in TKO 137 (south of Extension) - 1	30	-	-	-
A1-2 (2)	Planned Industrial Uses in TKO 137 (south of Extension) - 2 (outside 200m HKPSG buffer distance)	30	-	-	-
A1-3 (1)	Planned Industrial Uses in TKO 137 (south of TVB City) - 1	30	71	21	70
A1-3 (2)	Planned Industrial Uses in TKO 137 (south of TVB City) - 2 (outside 200m HKPSG buffer distance)	30	4	1	75
A2	TVB City	30	26	11	58
A3	HAESL	30	-	-	-

Source Height at 30m above ground

ASR	Name	Approx. Maximum Height of Building (m)	No. of Instances having Exceedance		
			Worst Case 3		
			1.5m above ground		
			w/o rephasing	w/ rephasing	% reduction
A1-1	Proposed C&DM Handling Facility	30	-	-	-
A1-2 (1)	Planned Industrial Uses in TKO 137 (south of Extension) - 1	30	-	-	-
A1-2 (2)	Planned Industrial Uses in TKO 137 (south of Extension) - 2 (outside 200m HKPSG buffer distance)	30	-	-	-
A1-3 (1)	Planned Industrial Uses in TKO 137 (south of TVB City) - 1	30	26	19	27
A1-3 (2)	Planned Industrial Uses in TKO 137 (south of TVB City) - 2 (outside 200m HKPSG buffer distance)	30	2	2	0
A2	TVB City	30	21	6	71
A3	HAESL	30	-	-	-

Source Height at 50m above ground

ASR	Name	Approx. Maximum Height of Building (m)	No. of Instances having Exceedance		
			Worst Case 3		
			1.5m above ground		
			w/o rephasing	w/ rephasing	% reduction
A1-1	Proposed C&DM Handling Facility	30	-	-	-
A1-2 (1)	Planned Industrial Uses in TKO 137 (south of Extension) - 1	30	-	-	-
A1-2 (2)	Planned Industrial Uses in TKO 137 (south of Extension) - 2 (outside 200m HKPSG buffer distance)	30	-	-	-
A1-3 (1)	Planned Industrial Uses in TKO 137 (south of TVB City) - 1	30	5	5	-
A1-3 (2)	Planned Industrial Uses in TKO 137 (south of TVB City) - 2 (outside 200m HKPSG buffer distance)	30	1	1	-
A2	TVB City	30	10	5	50
A3	HAESL	30	1	-	100

Source Height at 70m above ground

ASR	Name	Approx. Maximum Height of Building (m)	No. of Instances having Exceedance		
			Worst Case 3		
			1.5m above ground		
			w/o rephasing	w/ rephasing	% reduction
A1-1	Proposed C&DM Handling Facility	30	-	-	-
A1-2 (1)	Planned Industrial Uses in TKO 137 (south of Extension) - 1	30	-	-	-
A1-2 (2)	Planned Industrial Uses in TKO 137 (south of Extension) - 2 (outside 200m HKPSG buffer distance)	30	-	-	-
A1-3 (1)	Planned Industrial Uses in TKO 137 (south of TVB City) - 1	30	2	1	50
A1-3 (2)	Planned Industrial Uses in TKO 137 (south of TVB City) - 2 (outside 200m HKPSG buffer distance)	30	-	-	-
A2	TVB City	30	4	2	50
A3	HAESL	30	-	-	-

Source Height at 100m above ground

ASR	Name	Approx. Maximum Height of Building (m)	No. of Instances having Exceedance		
			Worst Case 3		
			1.5m above ground		
			w/o rephasing	w/ rephasing	% reduction
A1-1	Proposed C&DM Handling Facility	30	-	-	-
A1-2 (1)	Planned Industrial Uses in TKO 137 (south of Extension) - 1	30	-	-	-
A1-2 (2)	Planned Industrial Uses in TKO 137 (south of Extension) - 2 (outside 200m HKPSG buffer distance)	30	-	-	-
A1-3 (1)	Planned Industrial Uses in TKO 137 (south of TVB City) - 1	30	-	-	-
A1-3 (2)	Planned Industrial Uses in TKO 137 (south of TVB City) - 2 (outside 200m HKPSG buffer distance)	30	-	-	-
A2	TVB City	30	1	1	0
A3	HAESL	30	-	-	-

Annex A12

Comparison of International Odour Assessment Criteria/Guideline Values

A review of the odour impact assessment criteria adopted by other countries indicates that those more commonly used include a percentile component (varies from 99.5 percentile to 99.9 percentile). This contrasts with the 100% compliance criteria used in Hong Kong. In addition, most of these criteria stipulate an averaging time of 3-minute or 1-hour, contrary to the 5 second average used in Hong Kong. One of the reasons for other countries adopting the percentile values is that odour nuisance will only happen when odour exceedances are frequent enough to trigger complaints. As a reference to the evaluation of the residual odour impacts at the TKO Area 137 and TVB City, a selection of odour impact assessment criteria adopted in other countries are presented in *Table A12.1a*. It should be noted that the assessment of the residual odour impacts to the representative assessment points at TVB City and TKO Area 137 as presented in *Table 4.9a* is based on the 5OU over a 5-second averaging time criterion stipulated in Annex 4 of the EIAO-TM.

In order to review the predicted results for the Extension based on the percentile approach, the highest odour concentrations predicted at the representative assessment points of TVB City (A2) and TKO Area 137 (A1-3) are presented in 3-minutes and 1-hour averages and compared with the odour impact assessment criteria adopted by the overseas countries. The results are presented in *Annex A12-2* and summarised in *Table A12.1a*. As can be seen, the predicted odour concentrations at TVB City and TKO Area 137 comply with most of the odour assessment criteria adopted by these countries except the odour criteria adopted by US for A1-3 (1).

Table A12.1a Comparison of Predicted Odour Concentrations at TVB City and TKO Area 137 with Overseas Odour Assessment Criteria or Guideline Values

Countries	Odour Concentration (OU m ⁻³)	% Time Compliance	Averaging Time	Critical Receptor Location	Predicted Highest 3-min Average Odour Concentration at (g) (i)		Predicted Highest 15-min/1-hour Average Odour Concentration at (g) (i) (j)		Remarks
					TKO Area 137	TVB City	TKO Area 137	TVB City	
New South Wales, Australia (a)	2 (Stringent; Large population/ close to sensitive receiver)	99.9%	3-min	Residential	3.86	1.90	-	-	For A1-3 (1), there are 7 no. of exceedance of odour assessment criterion, which is 0.07% of time over a year which complies with the 99.9% tile criteria. The predicted 3-min average odour concentrations at TVB City are 100% compliance with the criterion.
Queensland, Australia (b)	10	99.5%	1 hour	Residential near piggery	-	-	2.95	1.45	The predicted 1-hr average odour concentrations at TVB City and TKO Area 137 are 100% compliance with the criterion.
South Australia (c)	4	99.9%	3-min	No. of people >350 but < 2,000	3.86	1.90	-	-	The predicted 3-min average odour concentrations at TVB City and TKO Area 137 are 100% compliance with the criterion.
New Zealand (d)	2	99.5% to 99.9%	1-hour	High sensitivity of the receiving environment (worst-case impacts during neutral to stable conditions)	-	-	2.95	1.45	For A1-3 (1), there are 7 no. of exceedance of odour assessment criterion, which is 0.07% of time over a year which complies with the 99.9% tile criteria. The predicted 1-hour average odour concentrations at TVB City are 100% compliance with the criterion.
UK (e)	1.5	98.0%	1-hour	Residential	-	-	2.95	1.45	For A1-3 (1), there are 7 no. of exceedance of odour assessment criterion, which is 0.07% of time

Countries	Odour Concentration (OU m ⁻³)	% Time Compliance	Averaging Time	Critical Receptor Location	Predicted Highest 3-min Average Odour Concentration at (g) (f)		Predicted Highest 15-min/1-hour Average Odour Concentration at (g) (f) (i)		Remarks
					TKO Area 137	TVB City	TKO Area 137	TVB City	
									over a year which complies with the 98% tile criterion.
US State of Oregon (f)	1 to 2	Highest	15-min	Plant Boundary	-	-	2.95	1.45	For A1-3 (1), there are 3 no. of exceedance of odour assessment criterion (2 OU), which is 0.034% of time over a year.
US, California (g)	20	<100 hours/year non-compliance	-	Residential with highway	-	-	-	-	The predicted highest 5-second average odour concentrations at TKO Area 137 and TVB City comply with the 20 OU m ⁻³ criterion.
City of Calgary, Canada (g)	20	<100 hours/year non-compliance	-	Rural with growing residential	-	-	-	-	The predicted highest 5-second average odour concentrations at TKO Area 137 and TVB City comply with the 20 OU m ⁻³ criterion.
Netherland (g)	3	98.0%	1-hour	Residential area or other sensitive receptors	-	-	2.95	1.45	The predicted 1-hour average odour concentrations at TVB City and TKO Area 137 are 100% compliance with the criterion.

Notes:

- (a) EPA 373/07 guideline (Odour assessment using odour source modelling) - <http://www.odournet.com/legislation-.html>
- (b) <http://www.odournet.com/legislation.html>
- (c) EPA Guidelines on Odour Assessment using Odour Source Modelling, Updated Apr 2007
- (d) <http://www.mfe.govt.nz/publications/air/odour-tr-aug02.pdf>
- (e) [A. P. Van Harreveld; www.env.go.jp/en/air/odor/measure/02_1_3.pdf](http://www.env.go.jp/en/air/odor/measure/02_1_3.pdf)
- (f) Mahin; http://www.env.go.jp/en/air/odor/measure/02_1_4.pdf
- (g) Final Report on Odour Management in British Columbia: Review and Recommendations, RWDI Air Inc, March 2005.
- (h) See *Annex A12* for detailed calculations.

Countries	Odour Concentration (OU m ⁻³)	% Time Compliance	Averaging Time	Critical Receptor Location	Predicted Highest 3-min Average Odour Concentration at (g) (i)		Predicted Highest 15-min/1-hour Average Odour Concentration at (g) (i) (j)		Remarks
					TKO Area 137	TVB City	TKO Area 137	TVB City	

- (i) The modeling results will be representative for period between 1 hour to 15-minute averaging time.
- (j) The predicted highest 3-min average and 15-min/1-hour average odour concentrations at TKO Area 137 and TVB City were estimated based on the highest results predicted during Phase 1 for TKO Area 137 and during Phase 2 for TVB City.

Annex A12-2 - Estimation of 3-min and 15min/1-hour Odour Levels for A1-3(1) and A2

- (a) The highest 5-sec odour levels were predicted under stability class F at A1-3 (1) & A2. (Reference to Annex A11-1)
- (b) For converting 5-sec odour level to 3-minute odour level, a factor of 5 was used (reference to Warren Spring Laboratory, "Odour Control - A Concise Guide", 1980)
- (c) For converting 5-second odour level to 15-min/1hour odour level, a factor of 6.9 and 6.55 for stability class D & F, respectively, was used (reference to RA Duffee, "Odour Modelling - Why and How")

A1-3 (1) --- After Rephasing

Year	Month	Day	Hour	Temp	Wind Speed	Wind Direction	Stability Class	Phase 1		
								5-sec	3-min	15min/1-hr
06	4	8	22	23	0.5	128	F	19.3	3.86	2.95
06	3	21	20	0	0.7	123	F	17.2	3.44	2.63
06	4	3	20	24	0.5	129	F	16.9	3.38	2.58
06	6	26	23	30	0.8	128	F	12.1	2.42	1.85
06	1	11	22	19	0.6	130	F	12.0	2.40	1.83
06	1	10	19	16	0.9	127	F	11.9	2.38	1.82
06	4	7	20	22	1.1	126	F	10.5	2.10	1.60
06	3	17	20	0	0.8	130	F	9.0	1.80	1.37
06	12	5	18	22	1	129	F	8.5	1.69	1.29
06	6	20	20	29	1.1	119	F	8.0	1.60	1.22
06	6	28	18	26	0.5	122	D	7.3	1.47	1.06
06	4	25	22	24	1.6	122	F	7.2	1.45	1.11
06	12	22	18	19	0.9	131	F	6.6	1.32	1.01
06	6	20	19	29	1.1	130	F	6.6	1.31	1.00
06	4	3	19	24	1	117	F	6.5	1.30	0.99
06	3	3	19	0	1.2	118	F	6.4	1.28	0.97
06	2	23	22	17	1.5	119	F	5.9	1.17	0.90
06	6	22	8	30	0.6	129	D	5.4	1.09	0.79
06	4	7	19	22	1.8	128	F	5.4	1.07	0.82
06	2	8	20	17	0.6	133	E	5.4	1.07	0.82
06	4	29	18	25	0.7	123	D	5.3	1.06	0.77

A2 (TVB City) --- After Rephasing

Year	Month	Day	Hour	Temp	Wind Speed	Wind Direction	Stability Class	Phase 1		
								5-sec	3-min	15min/1-hr
06	1	28	22	16	0.7	147	F	8.9	1.79	1.36
06	1	13	19	19	0.7	144	F	8.4	1.69	1.29
06	6	21	20	29	0.6	150	F	7.9	1.58	1.21
06	6	12	20	26	0.8	145	F	7.8	1.56	1.19
06	5	27	22	27	0.9	144	F	6.6	1.31	1.00
06	12	22	23	16	0.9	149	F	6.0	1.20	0.92
06	3	20	20	0	1	144	F	5.9	1.18	0.90
06	1	16	21	20	0.6	152	F	5.5	1.09	0.83
06	12	4	18	21	1	149	F	5.4	1.08	0.83
06	6	2	20	27	1.2	147	F	5.2	1.04	0.80
06	6	26	20	30	0.5	139	F	5.1	1.03	0.78

Year	Month	Day	Hour	Temp	Wind Speed	Wind Direction	Stability Class	Phase 2		
								5-sec	3-min	15min/1-hr
06	3	21	20	0	0.7	123	F	9.5	1.90	1.45
06	4	8	22	23	0.5	128	F	8.2	1.65	1.26
06	4	3	20	24	0.5	129	F	6.7	1.33	1.02
06	1	10	19	16	0.9	127	F	5.4	1.09	0.83
06	6	26	23	30	0.8	128	F	5.2	1.03	0.79
06	4	7	20	22	1.1	126	F	5.1	1.02	0.78

Annex B

Supporting Information for Noise Assessment

Annex B1

Construction & Operation Programme and PME Plant Inventory

Anticipated PME Plant Inventory during Construction Phase

No.	Activities	Sub-activities	Plant	CNP/BS 5228 ref.	No. of PME	Unit SWL, dB(A)	SWL, dB(A)	SWL for each Sub-activities, dB(A)
Construction of Waste Reception and Treatment Facilities								
1a	Foundation	Excavation	Excavator/loader, wheeled/tracked	CNP 081	2	112	115	118
			Lorry, gross vehicle weight > 38 tonne	CNP 141	2	112	115	
1b	Formwork and reinforcement	Formwork and reinforcement	Crane, mobile/barge mounted (diesel)	CNP 048	1	112	112	112
			Bar bender and cutter (electric)	CNP 021	2	90	93	
1c	Concreting	Concreting	Concrete mixer (petrol)	CNP 046	2	96	99	119
			Poker, vibratory, hand-held	CNP 170	2	113	116	
			Lorry, gross vehicle weight > 38 tonne	CNP 141	2	112	115	
			Air Compressor, air flow > 10m3/min and < 30m3/min	CNP 002	2	102	105	
2a	Structures	Formwork and reinforcement	Crane, mobile/barge mounted (diesel)	CNP 048	1	112	112	112
			Bar bender and cutter (electric)	CNP 021	2	90	93	
2b	Concreting	Concreting	Concrete mixer (petrol)	CNP 046	2	96	99	119
			Poker, vibratory, hand-held	CNP 170	2	113	116	
			Lorry, gross vehicle weight > 38 tonne	CNP 141	2	112	115	
			Air Compressor, air flow > 10m3/min and < 30m3/min	CNP 002	2	102	105	
3a	Demolition	Demolition	Breaker, excavator mounted (hydraulic)	CNP 028	2	122	125	125
			Lorry, gross vehicle weight > 38 tonne	CNP 141	2	112	115	
3b	Crushing of concrete	Crushing of concrete	Concrete crusher, excavator mounted	note ⁽¹⁾	1	103	103	103
Construction of Monitoring Wells								
3e	Construction of Monitoring Wells	Construction of Monitoring Wells	Drilling rig	BS C10 2	1	112	112	112
Site Formation and Lining								
4a	Site Formation	Site formation	Hydraulic excavator	CNP 081	2	112	115	123
			Roller, vibratory	CNP 186	1	108	108	
			Lorry, gross vehicle weight > 38 tonne	CNP 141	1	112	112	
			Bulldozer	CNP 030	1	115	115	
			Dump truck, gross vehicle weight > 38 tonne	CNP 067	2	117	120	
			Loader	CNP 081	1	112	112	
			Forklift	BS C7 93	1	104	104	
4b	Installation of liner	Installation of liner	Lorry, gross vehicle weight > 38 tonne	CNP 141	1	112	112	117
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	112	
			Generator, silenced, 75dB(A) at 7m	CNP 102	1	100	100	
			Air Compressor, air flow > 10m3/min and < 30m3/min	CNP 002	1	102	102	
			Loader	CNP 081	1	112	112	
			Forklift	BS C7 93	1	104	104	
4c	Provision of leachate and landfill gas collection system	Provision of leachate and landfill gas collection system	Lorry, gross vehicle weight > 38 tonne	CNP 141	1	112	112	118
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	112	
			Generator, silenced, 75dB(A) at 7m	CNP 102	1	100	100	
			Air Compressor, air flow > 10m3/min and < 30m3/min	CNP 002	1	102	102	
			Loader	CNP 081	1	112	112	
			Forklift	BS C7 93	1	104	104	
			Hydraulic excavator	CNP 081	1	112	112	
4d	Construction of drainage channels and sumps	Construction of drainage channels and sumps	Concrete mixer (petrol)	CNP 046	1	96	96	116
			Bar bender and cutter (electric)	CNP 021	1	90	90	
			Poker, vibratory, hand-held	CNP 170	1	113	113	
			Lorry, gross vehicle weight > 38 tonne	CNP 141	1	112	112	
			Air Compressor, air flow > 10m3/min and < 30m3/min	CNP 002	1	102	102	
			Forklift	BS C7 93	1	104	104	
4e	Construction of drainage tunnel	Construction of drainage tunnel	Hoist, passenger/material (electric)	CNP 122	1	95	95	119
			Ventilation fan	CNP 241	1	108	108	
			Conveyor belt	CNP 041	1	90	90	
			Dump truck, gross vehicle weight > 38 tonne	CNP 067	1	117	117	
			Air Compressor, air flow > 30m3/min	CNP 003	1	104	104	
			Excavator/loader, wheeled/tracked	CNP 081	1	112	112	
4f	Road construction	Road construction	Grader	CNP 104	1	113	113	123
			Asphalt paver	CNP 004	1	109	109	
			Road roller	CNP 185	1	108	108	
			Dump truck, gross vehicle weight > 38 tonne	CNP 067	2	117	120	
			Bulldozer	CNP 030	1	115	115	
			Loader	CNP 081	1	112	112	
Construction Works during Operation - Phases 1 to 6								
5d	Construction of drainage channels and sumps	Construction of drainage channels and sumps	Concrete mixer (petrol)	CNP 046	1	96	96	116
			Bar bender and cutter (electric)	CNP 021	1	90	90	
			Poker, vibratory, hand-held	CNP 170	1	113	113	
			Lorry, gross vehicle weight > 38 tonne	CNP 141	1	112	112	
			Air Compressor, air flow > 10m3/min and < 30m3/min	CNP 002	1	102	102	
			Forklift	BS C7 93	1	104	104	
5f	Road construction	Road construction	Grader	CNP 104	1	113	113	122
			Road roller	CNP 185	1	108	108	
			Dump truck, gross vehicle weight > 38 tonne	CNP 067	2	117	120	
			Bulldozer	CNP 030	1	115	115	
			Loader	BS C3 3	1	102	102	
5g	Installation of liner and	Installation of liner and	Lorry, gross vehicle weight > 38 tonne	CNP 141	1	112	112	116

Anticipated PME Plant Inventory during Construction Phase

No.	Activities	Sub-activities	Plant	CNP/BS 5228 ref.	No. of PME	Unit SWL, dB(A)	SWL, dB(A)	SWL for each Sub-activities, dB(A)
		modification of existing gas well	Crane, mobile/barge mounted (diesel)	CNP 048	1	112	112	
			Generator, standard	CNP 101	1	108	108	
			Air Compressor, air flow > 10m ³ /min and < 30m ³ /min	CNP 002	1	102	102	
			Loader	BS C3 3	1	102	102	
			Forklift	BS C7 93	1	104	104	
			Small excavator	note ⁽¹⁾	1	94	94	
6d		Capping	Excavator/loader, wheeled/tracked	CNP 081	1	112	112	118
			Bulldozer	CNP 030	1	115	115	
			Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne	note ⁽¹⁾	1	105	105	
			Roller, vibratory	CNP 186	1	108	108	
			Loader	BS C3 3	1	102	102	
6e		Landscaping	Excavator/loader, wheeled/tracked	CNP 081	1	112	112	115
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne	note ⁽¹⁾	1	105	105	
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	112	
6f		Construction of permanent gas wells	Drilling rig	note ⁽¹⁾	1	110	110	114
			Crane, mobile/barge mounted (diesel)	CNP 048	1	112	112	
			Small excavator	note ⁽¹⁾	1	94	94	
<u>Common Plant Items</u>								
7a	All over construction, operation & restoration	Site housekeeping	Road sweeper	note ⁽¹⁾	1	107	107	109
			Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne	note ⁽¹⁾	1	105	105	
7b		Vehicle maintenance	Air Compressor, air flow > 10m ³ /min and < 30m ³ /min	CNP 002	1	102	102	102
			Hand-held drill	note ⁽¹⁾	1	89	89	

Note (1) SWL refer to the document prepared by the Noise Control Authority (http://www.epd.gov.hk/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf)

Programme for Construction of Landfill Extension

Activity	No.	Activity Description	2011				2012				2013				2014				2015				2016				2017				2018				2019			
			Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Foundation	1a	Excavation	Y																																			
	1b	Formwork and reinforcement	Y																																			
	1c	Concreting	Y																																			
Structures	2a	Formwork and reinforcement		Y	Y	Y																																
	2b	Concreting		Y	Y	Y																																
Demolition	3a	Demolition					Y																															
	3b	Crushing of concrete					Y																															
Construction of Monitoring Wells	3e	Construction of Monitoring Wells	Y																																			
Site Formation	4a	Site formation		Y	Y	Y	Y	Y	Y	Y																												
	4d	Construction of drainage channels and sumps		Y	Y	Y	Y	Y	Y																													
	4e	Construction of drainage tunnel - southern portal		Y																																		
	4e	Construction of drainage tunnel - northern portal					Y																															
Phase 1	5d	Construction of drainage channels and sumps							Y																													
	5f	Road construction							Y																													
	5g	Installation of liner and modification of existing gas well							Y																													
	6d	Capping											Y	Y																								
	6e	Landscaping											Y	Y																								
	6f	Construction of permanent gas wells											Y	Y																								
Phase 2	5d	Construction of drainage channels and sumps											Y																									
	5f	Road construction											Y																									
	5g	Installation of liner and modification of existing gas well											Y																									
	6d	Capping															Y	Y																				
	6e	Landscaping															Y	Y																				
	6f	Construction of permanent gas wells															Y	Y																				
Phase 3	5d	Construction of drainage channels and sumps															Y																					
	5f	Road construction															Y																					
	5g	Installation of liner and modification of existing gas well															Y																					
	6d	Capping																			Y	Y																
	6e	Landscaping																			Y	Y																
	6f	Construction of permanent gas wells																			Y	Y																
Phase 4	5d	Construction of drainage channels and sumps																			Y																	
	5f	Road construction																			Y																	
	5g	Installation of liner and modification of existing gas well																			Y																	
	6d	Capping																						Y	Y													
	6e	Landscaping																					Y	Y														
	6f	Construction of permanent gas wells																					Y	Y														
Phase 5	5d	Construction of drainage channels and sumps																					Y															
	5f	Road construction																					Y															
	5g	Installation of liner and modification of existing gas well																					Y															
	6d	Capping																																				
	6e	Landscaping																																				
	6f	Construction of permanent gas wells																																				
Phase 6	5d	Construction of drainage channels and sumps																									Y											
	5f	Road construction																																				
	5g	Installation of liner and modification of existing gas well																																				
	6d	Capping																																				
	6e	Landscaping																																				
	6f	Construction of permanent gas wells																																				
All over construction, operation & restoration	7a	Site housekeeping	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y			
	7b	Vehicle maintenance	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		

Annex B2

Traffic Forecast provided by the Traffic Consultant

Annex B2-1 Traffic Data at Year 2006

Flow no.	Road Name	2006 AM Peak				2006 PM Peak				2006SENT Peak			
		With Existing SENT Landfill		Without Existing SENT Landfill		With Existing SENT Landfill		Without Existing SENT Landfill		With Existing SENT Landfill		Without Existing SENT Landfill	
		Veh/hr	%HGV	Veh/hr	%HGV	Veh/hr	%HGV	Veh/hr	%HGV	Veh/hr	%HGV	Veh/hr	%HGV
1	Access road to SENT Landfill Extension	-	-	-	-	-	-	-	-	-	-	-	
2	Access road to Fill Bank	242	70%	242	70%	165	64%	165	64%	369	83%	369	83%
3	Wan Po Road - south of Chun Wang Street	242	70%	242	70%	165	64%	165	64%	369	83%	369	83%
4	Chun Wan Street	188	47%	188	47%	77	59%	77	59%	238	59%	238	59%
5	Wan Po Road - south of access road to SENT	348	49%	348	49%	160	63%	160	63%	501	71%	501	71%
6	Access road to SENT Landfill	210	88%	0	0%	220	88%	0	0%	220	88%	0	0%
7	Wan Po Road - south of Chun Yat St	558	100%	348	100%	380	92%	160	92%	721	90%	501	90%
8	Chun Yat Street	675	40%	675	40%	677	31%	677	31%	855	31%	855	31%
9	Wan Po Road - south of Wan O Rd	1,238	38%	1,028	38%	1,058	29%	838	29%	1,559	56%	1,339	56%
10	Wan O Road	69	73%	69	73%	49	74%	49	74%	96	74%	96	74%
11	Wan Po Road - south of Shek Kok Rd	1,287	71%	1,077	71%	1,097	48%	877	48%	1,634	67%	1,414	67%
12	Shek Kok Road	61	71%	61	71%	9	60%	9	60%	79	60%	79	60%
13	Wan Po Road - south of Road D10	1,301	69%	1,091	69%	1,107	71%	887	71%	1,686	72%	1,466	72%
15	Wan Po Road - south of Pak Shing Kok Rd	1,301	63%	1,091	63%	516	81%	406	81%	1,686	81%	1,466	81%
16	Wan Po Road - south of Fung Loi Ave	1,332	40%	1,122	40%	1,127	78%	907	78%	1,750	66%	1,530	66%
17	Fung Loi Ave	201	42%	201	42%	126	71%	126	71%	242	71%	242	71%
18	Wan Po Road - south of roundabout	1,385	44%	1,175	44%	1,239	70%	1,019	70%	1,828	66%	1,608	66%
19	Wan Po Road NB	400	44%	295	44%	352	70%	242	70%	487	66%	377	66%
20	Wan Po Road SB	1,036	44%	931	44%	641	70%	531	70%	1,265	66%	1,155	66%
21	Chui Shun Road EB	474	43%	474	43%	604	43%	604	43%	614	48%	614	48%
22	Chui Shun Road WB	449	42%	449	42%	340	48%	340	48%	533	49%	533	49%
23	Wan Po Road Flyover	860	44%	650	44%	619	70%	399	70%	1,017	66%	797	66%
24	Wan Po Road RA - south bound	280	44%	280	44%	228	70%	228	70%	357	66%	357	66%
25	Wan Po Road RA - north bound	245	44%	245	44%	391	70%	391	70%	454	66%	454	66%

Annex B2-2 Traffic Forecast at Year 2018 - Without Cross Bay Link in operation

Flow no. Road Name		2018 AM Peak				2018 PM Peak				2018 SENT Peak				
		Total (With the Extension)		Ref (Without the Extension)		Total (With the Extension)		Ref (Without the Extension)		Total (With the Extension)		Ref (Without the Extension)		
		Veh/hr	%HGV	Veh/hr	%HGV	Veh/hr	%HGV	Veh/hr	%HGV	Veh/hr	%HGV	Veh/hr	%HGV	
1	Access road to SENT Landfill Extension	272	70%	-	-	286	64%	-	-	286	83%	-	-	
2	Access road to Fill Bank	1,557	70%	1,285	70%	1,237	64%	951	64%	1,969	83%	1,683	83%	
3	Wan Po Road - south of Chun Wang Street	1,557	70%	1,285	70%	1,237	64%	951	64%	1,969	83%	1,683	83%	
4	Chun Wan Street	217	47%	217	47%	89	59%	89	59%	274	59%	274	59%	
5	Wan Po Road - south of access road to SENT	1,679	49%	1,407	49%	1,232	63%	946	63%	2,121	71%	1,835	71%	
7	Wan Po Road - south of Chun Yat St	1,679	100%	1,407	100%	1,232	92%	946	92%	2,121	90%	1,835	90%	
8	Chun Yat Street	1,582	40%	1,582	40%	1,584	31%	1,584	31%	1,991	31%	1,991	31%	
9	Wan Po Road - south of Wan O Rd	3,267	38%	2,995	38%	2,817	29%	2,531	29%	4,092	56%	3,806	56%	
10	Wan O Road	884	73%	884	73%	700	74%	700	74%	914	74%	914	74%	
11	Wan Po Road - south of Shek Kok Rd	4,127	71%	3,855	71%	3,505	48%	3,219	48%	4,982	67%	4,696	67%	
12	Shek Kok Road	1,638	71%	1,638	71%	1,512	60%	1,512	60%	1,665	60%	1,665	60%	
13	Wan Po Road - south of Road D10	Note [a]	6,403	69%	6,131	69%	5,711	71%	5,425	71%	7,481	72%	7,195	72%
15	Wan Po Road - south of Pak Shing Kok Rd	Note [a]	7,652	63%	7,380	63%	6,155	81%	5,869	81%	8,730	81%	8,444	81%
16	Wan Po Road - south of Fung Loi Ave	Note [a]	7,688	40%	7,416	40%	6,733	78%	6,447	78%	8,805	66%	8,519	66%
17	Fung Loi Ave		239	42%	239	42%	153	71%	153	71%	288	71%	288	71%
18	Wan Po Road - south of roundabout	Note [a]	7,757	44%	7,485	44%	6,870	70%	6,584	70%	8,904	66%	8,618	66%
19	Wan Po Road NB		4,430	44%	4,303	44%	4,083	70%	3,949	70%	4,891	66%	4,758	66%
20	Wan Po Road SB		3,390	44%	3,240	44%	2,508	70%	2,351	70%	3,930	66%	3,773	66%
21	Chui Shun Road EB		551	43%	547	43%	702	43%	697	43%	714	48%	709	48%
22	Chui Shun Road WB		523	42%	518	42%	397	48%	392	48%	620	49%	615	49%
23	Wan Po Road Flyover	Note [a]	7,137	44%	6,879	44%	6,141	70%	5,869	70%	7,953	66%	7,681	66%
24	Wan Po Road RA - south bound		323	44%	323	44%	264	70%	264	70%	412	66%	412	66%
25	Wan Po Road RA - north bound		296	44%	283	44%	465	70%	451	70%	538	66%	524	66%

Note:

[a] As advised by the Traffic Consultant, the full capacity of Wan Po Road is 6,000 vehicles per hour. The full capacity has been employed in the traffic noise assessment for sections with forecast exceeding the capacity.

Annex B2-3 Traffic Forecast at Year 2018 - With Cross Bay Link in operation

Flow no. Road Name	2018 AM Peak				2018 PM Peak				2018 SENT Peak				
	Total (With the Extension)		Ref (Without the Extension)		Total (With the Extension)		Ref (Without the Extension)		Total (With the Extension)		Ref (Without the Extension)		
	Veh/hr	%HGV	Veh/hr	%HGV	Veh/hr	%HGV	Veh/hr	%HGV	Veh/hr	%HGV	Veh/hr	%HGV	
1 Access road to SENT Landfill Extension	272	70%	-	-	286	64%	-	-	286	83%	-	-	
2 Access road to Fill Bank	1,469	70%	1,197	70%	1,099	64%	813	64%	1,862	83%	1,576	83%	
3 Wan Po Road - south of Chun Wang Street	1,469	70%	1,197	70%	1,099	64%	813	64%	1,862	83%	1,576	83%	
4 Chun Wan Street	217	47%	217	47%	89	59%	89	59%	274	59%	274	59%	
5 Wan Po Road - south of access road to SENT	1,591	49%	1,319	49%	1,094	63%	808	63%	2,014	71%	1,728	71%	
6 Access road to SENT Landfill	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	
7 Wan Po Road - south of Chun Yat St	1,591	100%	1,319	100%	1,094	92%	808	92%	2,014	90%	1,728	90%	
8 Chun Yat Street	1,582	40%	1,582	40%	1,650	31%	1,650	31%	1,878	31%	1,878	31%	
9 Wan Po Road - south of Wan O Rd	2,686	38%	2,404	38%	2,374	29%	2,078	29%	3,254	56%	2,958	56%	
10 Wan O Road	1,693	52%	1,576	52%	1,326	52%	1,203	52%	1,928	52%	1,805	52%	
11 Wan Po Road - south of Shek Kok Rd	3,049	71%	2,894	71%	2,620	48%	2,457	48%	3,518	67%	3,355	67%	
12 Shek Kok Road	1,638	71%	1,638	71%	1,512	60%	1,512	60%	1,658	60%	1,658	60%	
13 Wan Po Road - south of Road D10	5,324	69%	5,169	69%	4,826	71%	4,663	71%	5,838	72%	5,675	72%	
15 Wan Po Road - south of Pak Shing Kok Rd	Note [a]	6,574	63%	6,419	63%	5,478	81%	5,315	81%	7,088	81%	6,925	81%
16 Wan Po Road - south of Fung Loi Ave	Note [a]	6,610	40%	6,455	40%	5,848	78%	5,685	78%	7,162	66%	6,999	66%
17 Fung Loi Ave		166	42%	166	42%	86	71%	86	71%	195	71%	195	71%
18 Wan Po Road - south of roundabout	Note [a]	6,605	44%	6,450	44%	5,918	70%	5,755	70%	7,168	66%	7,005	66%
19 Wan Po Road NB		4,109	44%	4,073	44%	3,628	70%	3,590	70%	4,324	66%	4,287	66%
20 Wan Po Road SB		2,576	44%	2,436	44%	2,030	70%	1,882	70%	2,778	66%	2,631	66%
21 Chui Shun Road EB		568	43%	547	43%	719	43%	697	43%	731	48%	709	48%
22 Chui Shun Road WB		447	42%	426	42%	415	48%	394	48%	522	49%	500	49%
23 Wan Po Road Flyover	Note [a]	6,099	44%	6,006	44%	5,137	70%	5,040	70%	6,375	66%	6,277	66%
24 Wan Po Road RA - south bound		162	44%	162	44%	265	70%	265	70%	207	66%	207	66%
25 Wan Po Road RA - north bound		345	44%	283	44%	515	70%	449	70%	586	66%	521	66%

Note:

[a] As advised by the Traffic Consultant, the full capacity of Wan Po Road is 6,000 vehicles per hour. The full capacity has been employed in the traffic noise assessment for sections with forecast exceeding the capacity.

Annex B3

Construction Noise Impact Assessment

Summary of Predicted Construction Noise Levels

	NSR Location	Predicted Construction Noise Level By Quarter (dB(A))																				Max. CNL dB(A)														
		2011				2012				2013				2014				2015					2016				2017				2018		2019			
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2				
A86R1	Planned Residential Development in Area 86	53	52	57	56	56	59	55	57	41	41	41	54	51	51	41	54	51	51	41	54	51	51	41	55	51	51	41	41	52	52	59				
IR1	Island Resort, Siu Sai Wan	49	47	53	52	52	55	51	54	37	37	37	51	48	48	37	51	48	48	37	51	48	48	37	50	48	48	37	50	47	47	37	37	47	47	55

Noise Assessment for Construction of Landfill Extension

NSR: A86R1 Planned Residential Development in Area 86

Activity	No.	Activity Description	SWL dB(A)	Distance from source to NSP,m	Corr. For Distance dB(A)	Corr. For façade dB(A)	Predicted Construction Noise Level By Quarter (dB(A))																												Max. CNL dB(A)						
							2011				2012				2013				2014				2015				2016				2017					2018				2019	
							Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		Q1	Q2				
Fixed plants	1a	Excavation	118	1600	-72	3	49																																		
	1b	Formwork and reinforcement	112	1600	-72	3	43																																		
	1c	Concreting	119	1600	-72	3	50																																		
Structures	2a	Formwork and reinforcement	112	1600	-72	3		43	43	43																															
	2b	Concreting	119	1600	-72	3		50	50	50																															
Demolition	3a	Demolition	125	1600	-72	3																																			
	3b	Crushing of concrete	103	1600	-72	3					56																														
Construction of Monitoring	3e	Construction of Monitoring Wells	112	1600	-72	3		43																																	
Site Formation	4a	Site formation	123	1600	-72	3			54	54	54	54	54	54																											
	4d	Construction of drainage channels and sumps	116	1600	-72	3			47	47	47	47	47																												
Phase 1	4e	Construction of drainage tunnel - southern portal	119	2200	-75	3			47					48																											
	4e	Construction of drainage tunnel - northern portal	119	2050	-74	3					48																														
Phase 2	5d	Construction of drainage channels and sumps	116	1850	-73	3																																			
	5f	Road construction	122	1850	-73	3																																			
	5g	Installation of liner and modification of existing gas well	116	1850	-73	3																																			
	6d	Capping	118	1850	-73	3																																			
	6e	Landscaping	115	1850	-73	3																																			
	6f	Construction of permanent gas wells	114	1850	-73	3																																			
Phase 3	5d	Construction of drainage channels and sumps	116	1850	-73	3																																			
	5f	Road construction	122	1850	-73	3																																			
	5g	Installation of liner and modification of existing gas well	116	1850	-73	3																																			
	6d	Capping	118	1850	-73	3																																			
	6e	Landscaping	115	1850	-73	3																																			
	6f	Construction of permanent gas wells	114	1850	-73	3																																			
Phase 4	5d	Construction of drainage channels and sumps	116	1850	-73	3																																			
	5f	Road construction	122	1850	-73	3																																			
	5g	Installation of liner and modification of existing gas well	116	1850	-73	3																																			
	6d	Capping	118	1850	-73	3																																			
	6e	Landscaping	115	1850	-73	3																																			
	6f	Construction of permanent gas wells	114	1850	-73	3																																			
Phase 5	5d	Construction of drainage channels and sumps	116	1800	-73	3																																			
	5f	Road construction	122	1800	-73	3																																			
	5g	Installation of liner and modification of existing gas well	116	1800	-73	3																																			
	6d	Capping	118	1800	-73	3																																			
	6e	Landscaping	115	1800	-73	3																																			
	6f	Construction of permanent gas wells	114	1800	-73	3																																			
Phase 6	5d	Construction of drainage channels and sumps	116	1650	-72	3																																			
	5f	Road construction	122	1650	-72	3																																			
	5g	Installation of liner and modification of existing gas well	116	1650	-72	3																																			
	6d	Capping	118	1650	-72	3																																			
	6e	Landscaping	115	1650	-72	3																																			
	6f	Construction of permanent gas wells	114	1650	-72	3																																			
All over construction, operation & restoration	7a	Site housekeeping	109	1600	-72	3	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40							
	7b	Vehicle maintenance	102	1600	-72	3	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33							
Predicted Noise Levels, dB(A)							53	52	57	56	56	59	55	57	41	41	41	54	51	51	41	54	51	51	41	54	51	51	41	55	51	51	41	41	52	52			59		

Note:
Distance Correction for PMEs = $10 \cdot \log(2 \cdot \text{PI} \cdot r^2)$

Annex B4

Noise Sources during Operation and Programme

Anticipated PME Plant Inventory during Operational Phase - Landfilling Operation

No.	Activities	Sub-activities	Plant	CNP/BS 5228 ref.	No. of PME	Unit SWL, dB(A)	SWL, dB(A)	SWL for each Sub-activities, dB(A)
<u>Operation - Phases 1 to 6</u>								
6a	Deposition and compaction of waste		Bulldozer	CNP 030	1	115	115	117
			Dump truck, 5.5 tonne < gross vehicle weight < 38 tonne	note (1)	1	105	105	
			Lorry, 5.5 tonne < gross vehicle weight < 38 tonne	note (1)	1	105	105	
			Compactor, vibratory	CNP 050	3	105	110	
6b	Placement of intermediate cover		Excavator/loader, wheeled/tracked	CNP 081	1	112	112	118
			Bulldozer	CNP 030	1	115	115	
			Dump truck, 5.5 tonne < gross vehicle weight < 38 tonne	note (1)	1	105	105	
			Roller, vibratory	CNP 186	1	108	108	
			Loader	BS C3 3	1	102	102	
6c	Removal of intermediate cover		Excavator/loader, wheeled/tracked	CNP 081	1	112	112	117
			Dump truck, 5.5 tonne < gross vehicle weight < 38 tonne	note (1)	1	105	105	
			Bulldozer	CNP 030	1	115	115	
<u>Common Plant Items</u>								
7a	All over construction, operation & restoration	Site housekeeping	Road sweeper	note (1)	1	107	107	109
			Lorry, 5.5 tonne < gross vehicle weight < 38 tonne	note (1)	1	105	105	
7b	Vehicle maintenance		Air Compressor, air flow > 10m ³ /min and < 30m ³ /min	CNP 002	1	102	102	102
			Hand-held drill	note (1)	1	89	89	
<u>Operation after 2300 hours</u>								
8	Placement of daily cover after 2300 hours		Bulldozer	CNP 030	1	115	115	116
			Compactor, vibratory	CNP 050	2	105	108	
			Dump truck, 5.5 tonne < gross vehicle weight < 38 tonne	note (1)	1	105	105	

Note (1) SWL refer to the document prepared by the Noise Control Authority (http://www.epd.gov.hk/epd/english/application_for_licences/guidance/files/OtherSWL.pdf)

Programme for Construction, Operation and Restoration of Landfill Extension

Activity	No.	Activity Description	2012				2013				2014				2015				2016				2017				2018				2019			
			Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Phase 1	6a	Deposition and compaction of waste																																
	6b	Placement of intermediate cover																																
	6c	Removal of intermediate cover																																
Phase 2	6a	Deposition and compaction of waste																																
	6b	Placement of intermediate cover																																
	6c	Removal of intermediate cover																																
Phase 3	6a	Deposition and compaction of waste																																
	6b	Placement of intermediate cover																																
	6c	Removal of intermediate cover																																
Phase 4	6a	Deposition and compaction of waste																																
	6b	Placement of intermediate cover																																
	6c	Removal of intermediate cover																																
Phase 5	6a	Deposition and compaction of waste																																
	6b	Placement of intermediate cover																																
	6c	Removal of intermediate cover																																
Phase 6	6a	Deposition and compaction of waste																																
	6b	Placement of intermediate cover																																
	6c	Removal of intermediate cover																																
All over construction, operation & restoration	7a	Site housekeeping																																
	7b	Vehicle maintenance																																
Phase 1	8	Placement of daily cover after 2300 hours																																
Phase 2	8	Placement of daily cover after 2300 hours																																
Phase 3	8	Placement of daily cover after 2300 hours																																
Phase 4	8	Placement of daily cover after 2300 hours																																
Phase 5	8	Placement of daily cover after 2300 hours																																
Phase 6	8	Placement of daily cover after 2300 hours																																

Annex B4-3

Sound Data provided by EPD's Landfill Contractor for the Existing SENT Landfill

Activity	Activity Description	Sound Pressure Level (SPL), dB(A) ^[1]	from source (d1),m	Sound Power Level (SWL), dB(A) ^[2]	Quantity
Fixed plants	Landfill Gas Power Plant Room - Engines	-	-	88.0	2 ^[3]
	Blower Room No. 1 - Blowers	-	-	101.0	5 ^[4]
	Blower Room No. 1 - Compressors	73	3	90.5	2
	Blower Room No. 2 - Blowers	-	-	101.0	4 ^[5]
	Blower Room No. 2 - Compressor	65	3	82.5	1
	Air Compressors	65	3	82.5	2

Notes:

- [1] Sound Pressure Level and Sound Power Levels for the fixed plant items are provided by EPD's landfill contractor for the existing SENT Landfill.
- [2] Sound Power Level for air compressor = $SPL + 10 \cdot \log(2p(d1)^2)$.
- [3] Only one of the two engines of the landfill gas power plant will be operated at any one time.
- [4] There will have a total of 5 blowers inside Blower Room No. 1, only 3 of them will be operated at any one time, the other 2 will be for standby purpose.
- [5] There will have a total of 4 blowers inside Blower Room No. 2, only 2 of them will be operated at any one time, the other 2 will be for standby purpose.

Annex B5

Operational Noise Impact Assessment

Annex B5-1

**Summary of Predicted Noise Levels during Operation Phase
Daytime (0700 to 2300 hours)**

	NSR Location	Predicted Construction Noise Level By Quarter (dB(A))																				Max. CNL dB(A)										
		2012				2013				2014				2015				2016					2017				2018				2019	
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
A86R1 IR1	Planned Residential Development in Area 86 Island Resort, Siu Sai Wan				41	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	53	53	53	53	41	41	53
					44	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	49	49	49	49	49	49	49	49	44	44	50

Annex B5-2

Summary of Predicted Noise Levels during Operation Phase
Night-time (2300 to 0700 hours)

	NSR Location	Predicted Construction Noise Level By Quarter (dB(A))																								Max. CNL dB(A)									
		2012				2013				2014				2015				2016				2017					2018				2019				
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		Q1	Q2	Q3	Q4	Q1	Q2			
A86R1	Planned Residential Development in Area 86 Island Resort, Siu Sai Wan				33	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	47	47	47	47	33	33	47			
IR1					43	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	45	45	45	45	43	43

Annex B6

Results of Road Traffic Noise Impact Assessment

Annex B6-1 Results of Road Traffic Noise Impact Assessment - Without Cross Bay Link in Operation

NSR	Floor	Predicted Facade Noise Level ⁽¹⁾ , dB(A) L _{10,1 hr}					
		2006 AM Peak			2018 AM Peak		
		With Existing SENT Landfill	Without Existing SENT Landfill	Noise Contribution due to Existing SENT Landfill	With the Extension	Without the Extension	Noise Contribution due to the Extension
NFP1	1/F	55.4	54.7	0.7	62.1	62.1	0.0
	6/F	57.6	56.8	0.8	64.7	64.7	0.0
	11/F	57.8	57.1	0.7	64.7	64.7	0.0
	16/F	57.8	57.1	0.7	64.6	64.5	0.1
	21/F	57.7	57.0	0.7	64.5	64.4	0.1
	26/F	57.6	56.9	0.7	64.5	64.4	0.1
	31/F	57.9	57.2	0.7	64.8	64.7	0.1
	36/F	58.0	57.3	0.7	65.0	64.9	0.1
	41/F	58.1	57.4	0.7	65.2	65.1	0.1
	46/F	58.1	57.4	0.7	65.2	65.1	0.1
LCN1	1/F	54.7	54.2	0.5	60.5	60.5	0.0
	6/F	59.1	58.7	0.4	64.1	64.1	0.0
	11/F	60.3	59.9	0.4	65.7	65.7	0.0
	16/F	60.9	60.5	0.4	66.4	66.4	0.0
	21/F	61.0	60.6	0.4	66.7	66.7	0.0
	26/F	61.1	60.6	0.5	66.9	66.9	0.0
	31/F	61.1	60.6	0.5	67.1	67.1	0.0
	36/F	61.2	60.7	0.5	67.3	67.3	0.0
	41/F	61.4	60.8	0.6	67.6	67.6	0.0
	46/F	61.5	60.9	0.6	67.9	67.9	0.0
YUKMC1	1/F	68.1	68.1	0.0	68.7	68.7	0.0
	6/F	67.6	67.6	0.0	68.2	68.2	0.0
	11/F	66.7	66.7	0.0	67.4	67.3	0.1
	16/F	65.7	65.7	0.0	66.4	66.3	0.1
	21/F	64.9	64.9	0.0	65.5	65.5	0.0
	26/F	64.1	64.1	0.0	64.8	64.7	0.1
	31/F	63.5	63.5	0.0	64.1	64.1	0.0
	36/F	62.9	62.9	0.0	63.5	63.5	0.0
IHWV1	G/F	58.1	58.1	0.0	58.8	58.7	0.1
	1/F	62.3	62.3	0.0	63.0	62.9	0.1
	2/F	67.9	67.9	0.0	68.6	68.5	0.1
MTE1	1/F	67.1	67.1	0.0	68.0	67.9	0.1
	6/F	67.0	67.0	0.0	68.1	68.1	0.0
	11/F	66.4	66.4	0.0	67.6	67.6	0.0
	16/F	65.8	65.7	0.1	67.0	67.0	0.0
	21/F	65.1	65.0	0.1	66.5	66.4	0.1
	26/F	64.5	64.4	0.1	66.0	66.0	0.0
	31/F	63.9	63.9	0.0	65.6	65.6	0.0
	36/F	63.5	63.4	0.1	65.3	65.2	0.1
OS1	1/F	44.3	43.6	0.7	50.6	50.6	0.0
	6/F	53.8	53.1	0.7	60.5	60.5	0.0
	11/F	54.8	54.1	0.7	61.3	61.3	0.0
	16/F	55.4	54.7	0.7	61.8	61.8	0.0
	21/F	56.1	55.4	0.7	62.4	62.4	0.0
	26/F	58.0	57.4	0.6	63.9	63.9	0.0
	31/F	61.1	60.6	0.5	66.6	66.6	0.0
	36/F	61.9	61.3	0.6	67.7	67.7	0.0
	41/F	62.3	61.6	0.7	68.5	68.5	0.0
	46/F	62.3	61.6	0.7	68.6	68.6	0.0
A86R1 ⁽²⁾	1/F	-	-	-	72.2	71.9	0.3
	6/F	-	-	-	75.8	75.5	0.3
	11/F	-	-	-	74.8	74.5	0.3
	16/F	-	-	-	74.0	73.7	0.3
	21/F	-	-	-	73.2	72.9	0.3
	26/F	-	-	-	72.6	72.3	0.3
	31/F	-	-	-	72.0	71.7	0.3
	36/F	-	-	-	71.5	71.2	0.3
	41/F	-	-	-	71.0	70.7	0.3
	46/F	-	-	-	70.8	70.5	0.3

denotes maximum noise levels at the floor level of the NSR

Notes:

(1) The noise levels are predicted for the purpose of assessing the road traffic noise impact due to the Extension, and therefore, the predicted noise levels are for indicative uses only. Detailed road traffic noise impact assessments should be referred to co

(2) Planned NSRs not yet occupied in year 2006

Annex B6-1 Results of Road Traffic Noise Impact Assessment - Without Cross Bay Link in Operation

NSR	Floor	Predicted Facade Noise Level ⁽¹⁾ , dB(A) L _{10,1 hr}					
		2006 PM Peak			2018 PM Peak		
		With Existing SENT Landfill	Without Existing SENT Landfill	Noise Contribution due to Existing SENT Landfill	With the Extension	Without the Extension	Noise Contribution due to the Extension
NFP1	1/F	56.7	55.8	0.9	63.9	63.9	0.0
	6/F	58.9	58.0	0.9	66.5	66.4	0.1
	11/F	59.2	58.3	0.9	66.5	66.4	0.1
	16/F	59.0	58.2	0.8	66.3	66.2	0.1
	21/F	58.9	58.0	0.9	66.1	66.0	0.1
	26/F	58.8	57.9	0.9	66.1	66.0	0.1
	31/F	58.9	58.0	0.9	66.3	66.2	0.1
	36/F	59.0	58.1	0.9	66.6	66.5	0.1
	41/F	59.1	58.2	0.9	66.7	66.6	0.1
LCN1	1/F	55.9	55.4	0.5	62.2	62.1	0.1
	6/F	60.4	60.0	0.4	65.8	65.7	0.1
	11/F	61.9	61.4	0.5	67.5	67.4	0.1
	16/F	62.5	62.1	0.4	68.2	68.1	0.1
	21/F	62.6	62.1	0.5	68.5	68.4	0.1
	26/F	62.6	62.1	0.5	68.7	68.6	0.1
	31/F	62.6	62.1	0.5	68.9	68.8	0.1
	36/F	62.6	62.0	0.6	69.0	68.9	0.1
	41/F	62.7	62.1	0.6	69.4	69.3	0.1
YUKMC1	1/F	68.4	68.4	0.0	69.1	69.0	0.1
	6/F	67.9	67.9	0.0	68.6	68.5	0.1
	11/F	67.0	67.0	0.0	67.7	67.6	0.1
	16/F	66.0	66.0	0.0	66.7	66.6	0.1
	21/F	65.2	65.2	0.0	65.9	65.8	0.1
	26/F	64.4	64.4	0.0	65.1	65.0	0.1
	31/F	63.7	63.7	0.0	64.4	64.3	0.1
	36/F	63.1	63.1	0.0	63.8	63.7	0.1
	IHWV1	G/F	58.2	58.2	0.0	59.0	58.9
1/F		62.5	62.5	0.0	63.2	63.1	0.1
2/F		68.2	68.2	0.0	68.9	68.8	0.1
MTE1	1/F	67.5	67.5	0.0	68.4	68.4	0.0
	6/F	67.3	67.3	0.0	68.7	68.6	0.1
	11/F	66.7	66.7	0.0	68.2	68.1	0.1
	16/F	66.0	66.0	0.0	67.7	67.6	0.1
	21/F	65.3	65.3	0.0	67.2	67.1	0.1
	26/F	64.8	64.7	0.1	66.8	66.7	0.1
	31/F	64.2	64.1	0.1	66.4	66.3	0.1
	36/F	63.8	63.6	0.2	66.1	66.0	0.1
OS1	1/F	45.5	44.6	0.9	52.3	52.3	0.0
	6/F	55.3	54.5	0.8	62.2	62.2	0.0
	11/F	56.2	55.3	0.9	63.0	63.0	0.0
	16/F	56.7	55.8	0.9	63.5	63.5	0.0
	21/F	57.3	56.4	0.9	64.1	64.1	0.0
	26/F	58.8	58.0	0.8	65.6	65.6	0.0
	31/F	61.6	60.7	0.9	68.3	68.3	0.0
	36/F	62.6	61.8	0.8	69.4	69.4	0.0
	41/F	63.3	62.5	0.8	70.2	70.2	0.0
A86R1 ⁽²⁾	1/F	-	-	-	69.9	69.6	0.3
	6/F	-	-	-	73.5	73.2	0.3
	11/F	-	-	-	72.5	72.2	0.3
	16/F	-	-	-	71.7	71.4	0.3
	21/F	-	-	-	70.9	70.6	0.3
	26/F	-	-	-	70.3	70.0	0.3
	31/F	-	-	-	69.7	69.4	0.3
	36/F	-	-	-	69.2	68.9	0.3
	41/F	-	-	-	68.8	68.5	0.3
46/F	-	-	-	68.8	68.5	0.3	

denotes maximum noise levels at the floor level of the NSR

Notes:

(1) The noise levels are predicted for the purpose of assessing the road traffic noise impact due to the Extension, and therefore, the predicted noise levels are for indicative uses only. Detailed road traffic noise impact assessments should be referred to co

(2) Planned NSRs not yet occupied in year 2006

Annex B6-1 Results of Road Traffic Noise Impact Assessment - Without Cross Bay Link in Operation

NSR	Floor	Predicted Facade Noise Level ⁽¹⁾ , dB(A) L _{10,1 hr}					
		2006 SENT Peak			2018 SENT Peak		
		With Existing SENT Landfill	Without Existing SENT Landfill	Noise Contribution due to Existing SENT Landfill	With the Extension	Without the Extension	Noise Contribution due to the Extension
NFP1	1/F	58.2	57.7	0.5	63.8	63.8	0.0
	6/F	60.4	59.8	0.6	66.4	66.4	0.0
	11/F	60.6	60.1	0.5	66.5	66.4	0.1
	16/F	60.6	60.0	0.6	66.4	66.3	0.1
	21/F	60.5	59.9	0.6	66.3	66.2	0.1
	26/F	60.4	59.8	0.6	66.3	66.2	0.1
	31/F	60.6	60.0	0.6	66.6	66.5	0.1
	36/F	60.7	60.1	0.6	66.8	66.8	0.0
	41/F	60.8	60.2	0.6	67.0	67.0	0.0
	LCN1	1/F	57.4	57.0	0.4	62.3	62.3
6/F		61.8	61.5	0.3	66.0	66.0	0.0
11/F		63.1	62.8	0.3	67.6	67.6	0.0
16/F		63.8	63.4	0.4	68.4	68.3	0.1
21/F		63.9	63.5	0.4	68.6	68.6	0.0
26/F		63.9	63.5	0.4	68.8	68.8	0.0
31/F		64.0	63.5	0.5	69.0	68.9	0.1
36/F		64.0	63.6	0.4	69.1	69.1	0.0
41/F		64.1	63.7	0.4	69.4	69.4	0.0
46/F		64.3	63.8	0.5	69.7	69.7	0.0
YUKMC1	1/F	69.5	69.5	0.0	70.1	70.1	0.0
	6/F	69.0	69.0	0.0	69.6	69.6	0.0
	11/F	68.1	68.1	0.0	68.7	68.7	0.0
	16/F	67.2	67.2	0.0	67.8	67.8	0.0
	21/F	66.3	66.3	0.0	66.9	66.9	0.0
	26/F	65.5	65.5	0.0	66.1	66.1	0.0
	31/F	64.9	64.9	0.0	65.5	65.5	0.0
	36/F	64.3	64.3	0.0	64.9	64.9	0.0
IHWV1	G/F	59.5	59.5	0.0	60.1	60.1	0.0
	1/F	63.7	63.7	0.0	64.3	64.3	0.0
	2/F	69.3	69.3	0.0	69.9	69.9	0.0
MTE1	1/F	68.6	68.6	0.0	69.3	69.3	0.0
	6/F	68.5	68.5	0.0	69.5	69.5	0.0
	11/F	67.9	67.9	0.0	69.0	69.0	0.0
	16/F	67.2	67.2	0.0	68.4	68.4	0.0
	21/F	66.6	66.5	0.1	67.9	67.9	0.0
	26/F	66.0	65.9	0.1	67.4	67.4	0.0
	31/F	65.5	65.4	0.1	67.0	67.0	0.0
	36/F	65.0	64.9	0.1	66.7	66.7	0.0
OS1	1/F	47.0	46.4	0.6	52.1	52.1	0.0
	6/F	56.6	56.0	0.6	62.0	62.0	0.0
	11/F	57.5	56.9	0.6	62.8	62.8	0.0
	16/F	58.1	57.5	0.6	63.3	63.3	0.0
	21/F	58.8	58.2	0.6	63.9	63.9	0.0
	26/F	60.6	60.1	0.5	65.4	65.4	0.0
	31/F	63.7	63.2	0.5	68.1	68.1	0.0
	36/F	64.5	64.0	0.5	69.2	69.2	0.0
	41/F	65.0	64.4	0.6	70.0	70.0	0.0
	46/F	65.0	64.4	0.6	70.1	70.1	0.0
A86R1 ⁽²⁾	1/F	-	-	-	72.8	72.5	0.3
	6/F	-	-	-	76.4	76.1	0.3
	11/F	-	-	-	75.4	75.1	0.3
	16/F	-	-	-	74.6	74.3	0.3
	21/F	-	-	-	73.8	73.5	0.3
	26/F	-	-	-	73.2	72.9	0.3
	31/F	-	-	-	72.6	72.3	0.3
	36/F	-	-	-	72.1	71.8	0.3
	41/F	-	-	-	71.6	71.3	0.3
	46/F	-	-	-	71.4	71.1	0.3

denotes maximum noise levels at the floor level of the NSR

Notes:

(1) The noise levels are predicted for the purpose of assessing the road traffic noise impact due to the Extension, and therefore, the predicted noise levels are for indicative uses only. Detailed road traffic noise impact assessments should be referred to co

(2) Planned NSRs not yet occupied in year 2006

Annex B6-2 Results of Road Traffic Noise Impact Assessment - With Cross Bay Link in Operation

NSR	Floor	Predicted Facade Noise Level ⁽¹⁾ , dB(A) L _{10,1hr}					
		2006 AM Peak			2018 AM Peak		
		With Existing SENT Landfill	Without Existing SENT Landfill	Noise Contribution due to Existing SENT Landfill	With the Extension	Without the Extension	Noise Contribution due to the Extension
NFP1	1/F	55.4	54.7	0.7	62.1	62.0	0.1
	6/F	57.6	56.8	0.8	64.7	64.7	0.0
	11/F	57.8	57.1	0.7	64.6	64.6	0.0
	16/F	57.8	57.1	0.7	64.4	64.4	0.0
	21/F	57.7	57.0	0.7	64.3	64.2	0.1
	26/F	57.6	56.9	0.7	64.3	64.2	0.1
	31/F	57.9	57.2	0.7	64.5	64.5	0.0
	36/F	58.0	57.3	0.7	64.8	64.7	0.1
	41/F	58.1	57.4	0.7	64.9	64.8	0.1
LCN1	1/F	54.7	54.2	0.5	60.3	60.2	0.1
	6/F	59.1	58.7	0.4	63.9	63.8	0.1
	11/F	60.3	59.9	0.4	65.5	65.4	0.1
	16/F	60.9	60.5	0.4	66.3	66.2	0.1
	21/F	61.0	60.6	0.4	66.6	66.5	0.1
	26/F	61.1	60.6	0.5	66.8	66.7	0.1
	31/F	61.1	60.6	0.5	67.0	66.9	0.1
	36/F	61.2	60.7	0.5	67.2	67.1	0.1
	41/F	61.4	60.8	0.6	67.5	67.4	0.1
46/F	61.5	60.9	0.6	67.8	67.8	0.0	
YUKMCI	1/F	68.1	68.1	0.0	68.5	68.4	0.1
	6/F	67.6	67.6	0.0	68.0	67.9	0.1
	11/F	66.7	66.7	0.0	67.1	67.0	0.1
	16/F	65.7	65.7	0.0	66.2	66.0	0.2
	21/F	64.9	64.9	0.0	65.3	65.1	0.2
	26/F	64.1	64.1	0.0	64.5	64.4	0.1
	31/F	63.5	63.5	0.0	63.9	63.7	0.2
	36/F	62.9	62.9	0.0	63.3	63.1	0.2
THWV1	G/F	58.1	58.1	0.0	58.5	58.3	0.2
	1/F	62.3	62.3	0.0	62.7	62.5	0.2
	2/F	67.9	67.9	0.0	68.3	68.2	0.1
MTE1	1/F	67.1	67.1	0.0	67.7	67.6	0.1
	6/F	67.0	67.0	0.0	67.9	67.8	0.1
	11/F	66.4	66.4	0.0	67.4	67.3	0.1
	16/F	65.8	65.7	0.1	66.8	66.7	0.1
	21/F	65.1	65.0	0.1	66.3	66.1	0.2
	26/F	64.5	64.4	0.1	65.8	65.7	0.1
	31/F	63.9	63.9	0.0	65.4	65.3	0.1
	36/F	63.5	63.4	0.1	65.1	65.0	0.1
OS1	1/F	44.3	43.6	0.7	50.6	50.6	0.0
	6/F	53.8	53.1	0.7	60.5	60.5	0.0
	11/F	54.8	54.1	0.7	61.3	61.3	0.0
	16/F	55.4	54.7	0.7	61.8	61.8	0.0
	21/F	56.1	55.4	0.7	62.4	62.4	0.0
	26/F	58.0	57.4	0.6	63.9	63.9	0.0
	31/F	61.1	60.6	0.5	66.6	66.6	0.0
	36/F	61.9	61.3	0.6	67.7	67.7	0.0
	41/F	62.3	61.6	0.7	68.5	68.5	0.0
46/F	62.3	61.6	0.7	68.6	68.6	0.0	
A86R1 ⁽²⁾	1/F	-	-	-	70.8	70.6	0.2
	6/F	-	-	-	74.4	74.2	0.2
	11/F	-	-	-	73.4	73.2	0.2
	16/F	-	-	-	72.6	72.4	0.2
	21/F	-	-	-	71.8	71.6	0.2
	26/F	-	-	-	71.2	71.0	0.2
	31/F	-	-	-	70.6	70.4	0.2
	36/F	-	-	-	70.1	69.9	0.2
	41/F	-	-	-	69.6	69.4	0.2
46/F	-	-	-	69.5	69.3	0.2	
A86R2 ⁽²⁾	1/F	-	-	-	45.3	45.0	0.3
	6/F	-	-	-	54.4	54.3	0.1
	11/F	-	-	-	58.8	58.7	0.1
	16/F	-	-	-	61.7	61.5	0.2
	21/F	-	-	-	64.6	64.3	0.3
	26/F	-	-	-	67.4	67.1	0.3
	31/F	-	-	-	69.2	68.9	0.3
	36/F	-	-	-	69.3	69.0	0.3
	41/F	-	-	-	69.2	68.9	0.3
46/F	-	-	-	68.8	68.5	0.3	

denotes maximum noise levels at the floor level of the NSR

Notes:

(1) The noise levels are predicted for the purpose of assessing the road traffic noise impact due to the Extension, and therefore, the predicted noise levels are for indicative uses only. Detailed road traffic noise impact assessments should be referred to co

(2) Planned NSRs not yet occupied in year 2006

Annex B6-2 Results of Road Traffic Noise Impact Assessment - With Cross Bay Link in Operation

NSR	Floor	Predicted Facade Noise Level ⁽¹⁾ , dB(A) L _{10,1hr}					
		2006 PM Peak			2018 PM Peak		
		With Existing SENT Landfill	Without Existing SENT Landfill	Noise Contribution due to Existing SENT Landfill	With the Extension	Without the Extension	Noise Contribution due to the Extension
NFP1	1/F	56.7	55.8	0.9	63.3	63.1	0.2
	6/F	58.9	58.0	0.9	65.9	65.8	0.1
	11/F	59.2	58.3	0.9	65.9	65.7	0.2
	16/F	59.0	58.2	0.8	65.7	65.5	0.2
	21/F	58.9	58.0	0.9	65.5	65.4	0.1
	26/F	58.8	57.9	0.9	65.5	65.3	0.2
	31/F	58.9	58.0	0.9	65.8	65.6	0.2
	36/F	59.0	58.1	0.9	66.0	65.8	0.2
	41/F	59.1	58.2	0.9	66.1	65.9	0.2
LCN1	1/F	55.9	55.4	0.5	61.7	61.5	0.2
	6/F	60.4	60.0	0.4	65.4	65.2	0.2
	11/F	61.9	61.4	0.5	67.0	66.9	0.1
	16/F	62.5	62.1	0.4	67.8	67.6	0.2
	21/F	62.6	62.1	0.5	68.1	67.9	0.2
	26/F	62.6	62.1	0.5	68.2	68.1	0.1
	31/F	62.6	62.1	0.5	68.4	68.2	0.2
	36/F	62.6	62.0	0.6	68.5	68.4	0.1
	41/F	62.7	62.1	0.6	68.8	68.7	0.1
46/F	62.8	62.1	0.7	69.1	69.0	0.1	
YUKMCI	1/F	68.4	68.4	0.0	69.3	69.1	0.2
	6/F	67.9	67.9	0.0	68.8	68.6	0.2
	11/F	67.0	67.0	0.0	67.9	67.7	0.2
	16/F	66.0	66.0	0.0	66.9	66.7	0.2
	21/F	65.2	65.2	0.0	66.0	65.8	0.2
	26/F	64.4	64.4	0.0	65.2	65.0	0.2
	31/F	63.7	63.7	0.0	64.6	64.4	0.2
	36/F	63.1	63.1	0.0	64.0	63.8	0.2
THWV1	G/F	58.2	58.2	0.0	59.1	58.9	0.2
	1/F	62.5	62.5	0.0	63.4	63.2	0.2
	2/F	68.2	68.2	0.0	69.1	68.9	0.2
MTE1	1/F	67.5	67.5	0.0	68.5	68.3	0.2
	6/F	67.3	67.3	0.0	68.7	68.5	0.2
	11/F	66.7	66.7	0.0	68.2	68.0	0.2
	16/F	66.0	66.0	0.0	67.6	67.5	0.1
	21/F	65.3	65.3	0.0	67.1	66.9	0.2
	26/F	64.8	64.7	0.1	66.7	66.5	0.2
	31/F	64.2	64.1	0.1	66.3	66.1	0.2
	36/F	63.8	63.6	0.2	65.9	65.8	0.1
OS1	1/F	45.5	44.6	0.9	51.5	51.4	0.1
	6/F	55.3	54.5	0.8	61.4	61.4	0.0
	11/F	56.2	55.3	0.9	62.2	62.2	0.0
	16/F	56.7	55.8	0.9	62.7	62.6	0.1
	21/F	57.3	56.4	0.9	63.2	63.1	0.1
	26/F	58.8	58.0	0.8	64.5	64.4	0.1
	31/F	61.6	60.7	0.9	67.0	66.9	0.1
	36/F	62.6	61.8	0.8	68.3	68.2	0.1
	41/F	63.3	62.5	0.8	69.2	69.2	0.0
46/F	63.5	62.6	0.9	69.4	69.4	0.0	
A86R1 ⁽²⁾	1/F	-	-	-	68.7	68.4	0.3
	6/F	-	-	-	72.3	72.0	0.3
	11/F	-	-	-	71.3	71.0	0.3
	16/F	-	-	-	70.5	70.2	0.3
	21/F	-	-	-	69.7	69.4	0.3
	26/F	-	-	-	69.1	68.8	0.3
	31/F	-	-	-	68.5	68.2	0.3
	36/F	-	-	-	68.0	67.7	0.3
	41/F	-	-	-	67.6	67.3	0.3
46/F	-	-	-	67.7	67.4	0.3	
A86R2 ⁽²⁾	1/F	-	-	-	44.2	43.9	0.3
	6/F	-	-	-	53.5	53.4	0.1
	11/F	-	-	-	57.9	57.7	0.2
	16/F	-	-	-	60.7	60.4	0.3
	21/F	-	-	-	63.5	63.2	0.3
	26/F	-	-	-	66.3	65.9	0.4
	31/F	-	-	-	68.1	67.7	0.4
	36/F	-	-	-	68.2	67.8	0.4
	41/F	-	-	-	68.1	67.7	0.4
46/F	-	-	-	67.7	67.4	0.3	

denotes maximum noise levels at the floor level of the NSR

Notes:

(1) The noise levels are predicted for the purpose of assessing the road traffic noise impact due to the Extension, and therefore, the predicted noise levels are for indicative uses only. Detailed road traffic noise impact assessments should be referred to co

(2) Planned NSRs not yet occupied in year 2006

Annex B6-2 Results of Road Traffic Noise Impact Assessment - With Cross Bay Link in Operation

NSR	Floor	Predicted Facade Noise Level ⁽¹⁾ , dB(A) L _{10,1hr}					
		2006 SENT Peak			2018 SENT Peak		
		With Existing SENT Landfill	Without Existing SENT Landfill	Noise Contribution due to Existing SENT Landfill	With the Extension	Without the Extension	Noise Contribution due to the Extension
NFP1	1/F	58.2	57.7	0.5	63.8	63.7	0.1
	6/F	60.4	59.8	0.6	66.4	66.3	0.1
	11/F	60.6	60.1	0.5	66.4	66.3	0.1
	16/F	60.6	60.0	0.6	66.2	66.1	0.1
	21/F	60.5	59.9	0.6	66.0	66.0	0.0
	26/F	60.4	59.8	0.6	66.0	65.9	0.1
	31/F	60.6	60.0	0.6	66.3	66.2	0.1
	36/F	60.7	60.1	0.6	66.5	66.4	0.1
	41/F	60.8	60.2	0.6	66.6	66.5	0.1
LCN1	1/F	57.4	57.0	0.4	62.0	62.0	0.0
	6/F	61.8	61.5	0.3	65.7	65.6	0.1
	11/F	63.1	62.8	0.3	67.4	67.3	0.1
	16/F	63.8	63.4	0.4	68.2	68.1	0.1
	21/F	63.9	63.5	0.4	68.5	68.4	0.1
	26/F	63.9	63.5	0.4	68.7	68.6	0.1
	31/F	64.0	63.5	0.5	68.8	68.7	0.1
	36/F	64.0	63.6	0.4	69.0	68.9	0.1
	41/F	64.1	63.7	0.4	69.3	69.2	0.1
	46/F	64.3	63.8	0.5	69.6	69.5	0.1
YUKMCI	1/F	69.5	69.5	0.0	69.9	69.8	0.1
	6/F	69.0	69.0	0.0	69.4	69.2	0.2
	11/F	68.1	68.1	0.0	68.5	68.4	0.1
	16/F	67.2	67.2	0.0	67.5	67.4	0.1
	21/F	66.3	66.3	0.0	66.7	66.5	0.2
	26/F	65.5	65.5	0.0	65.9	65.8	0.1
	31/F	64.9	64.9	0.0	65.2	65.1	0.1
	36/F	64.3	64.3	0.0	64.6	64.5	0.1
THWV1	G/F	59.5	59.5	0.0	59.8	59.7	0.1
	1/F	63.7	63.7	0.0	64.1	63.9	0.2
	2/F	69.3	69.3	0.0	69.7	69.6	0.1
MTE1	1/F	68.6	68.6	0.0	69.1	69.0	0.1
	6/F	68.5	68.5	0.0	69.3	69.2	0.1
	11/F	67.9	67.9	0.0	68.8	68.7	0.1
	16/F	67.2	67.2	0.0	68.2	68.1	0.1
	21/F	66.6	66.5	0.1	67.7	67.6	0.1
	26/F	66.0	65.9	0.1	67.2	67.1	0.1
	31/F	65.5	65.4	0.1	66.8	66.7	0.1
	36/F	65.0	64.9	0.1	66.5	66.4	0.1
OS1	1/F	47.0	46.4	0.6	52.1	52.1	0.0
	6/F	56.6	56.0	0.6	62.0	62.0	0.0
	11/F	57.5	56.9	0.6	62.8	62.8	0.0
	16/F	58.1	57.5	0.6	63.3	63.3	0.0
	21/F	58.8	58.2	0.6	63.9	63.9	0.0
	26/F	60.6	60.1	0.5	65.4	65.4	0.0
	31/F	63.7	63.2	0.5	68.1	68.1	0.0
	36/F	64.5	64.0	0.5	69.2	69.2	0.0
	41/F	65.0	64.4	0.6	70.0	70.0	0.0
	46/F	65.0	64.4	0.6	70.1	70.1	0.0
A86R1 ⁽²⁾	1/F	-	-	-	71.3	71.1	0.2
	6/F	-	-	-	74.9	74.7	0.2
	11/F	-	-	-	73.9	73.7	0.2
	16/F	-	-	-	73.1	72.9	0.2
	21/F	-	-	-	72.3	72.1	0.2
	26/F	-	-	-	71.7	71.5	0.2
	31/F	-	-	-	71.1	70.9	0.2
	36/F	-	-	-	70.6	70.4	0.2
	41/F	-	-	-	70.1	69.9	0.2
	46/F	-	-	70.0	69.8	0.2	
A86R2 ⁽²⁾	1/F	-	-	-	45.9	45.6	0.3
	6/F	-	-	-	54.6	54.5	0.1
	11/F	-	-	-	59.1	58.9	0.2
	16/F	-	-	-	62.2	61.9	0.3
	21/F	-	-	-	65.1	64.8	0.3
	26/F	-	-	-	67.9	67.6	0.3
	31/F	-	-	-	69.8	69.5	0.3
	36/F	-	-	-	69.9	69.6	0.3
	41/F	-	-	-	69.7	69.5	0.2
	46/F	-	-	69.4	69.1	0.3	

denotes maximum noise levels at the floor level of the NSR

Notes:

(1) The noise levels are predicted for the purpose of assessing the road traffic noise impact due to the Extension, and therefore, the predicted noise levels are for indicative uses only. Detailed road traffic noise impact assessments should be referred to co

(2) Planned NSRs not yet occupied in year 2006

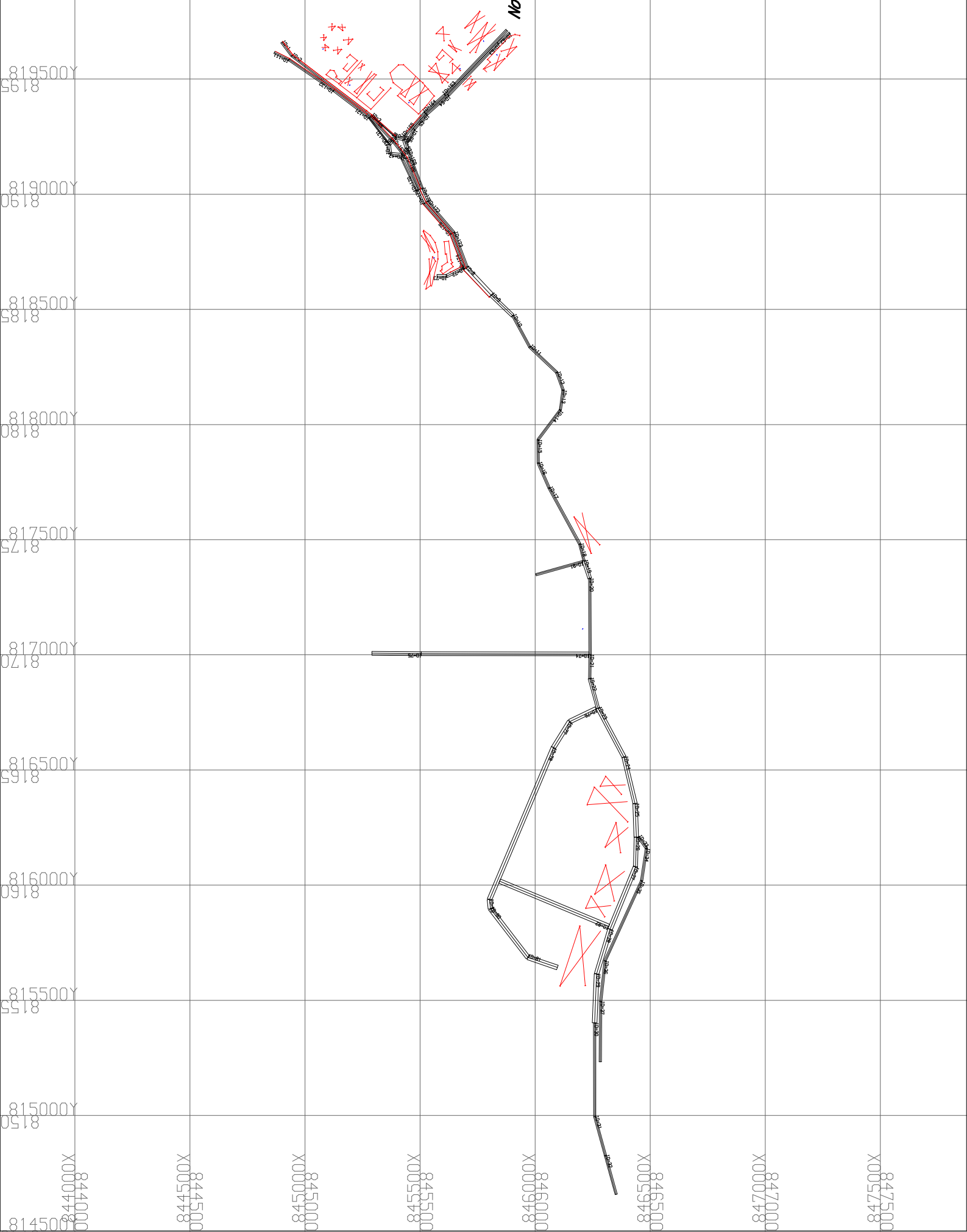
Annex B7

Computer Road Plots

Annex B7-1
2006 AM - With Existing SENT Landfill
0036286-6
Scale 1 : 20000.0 17:20:05 23/11/2007



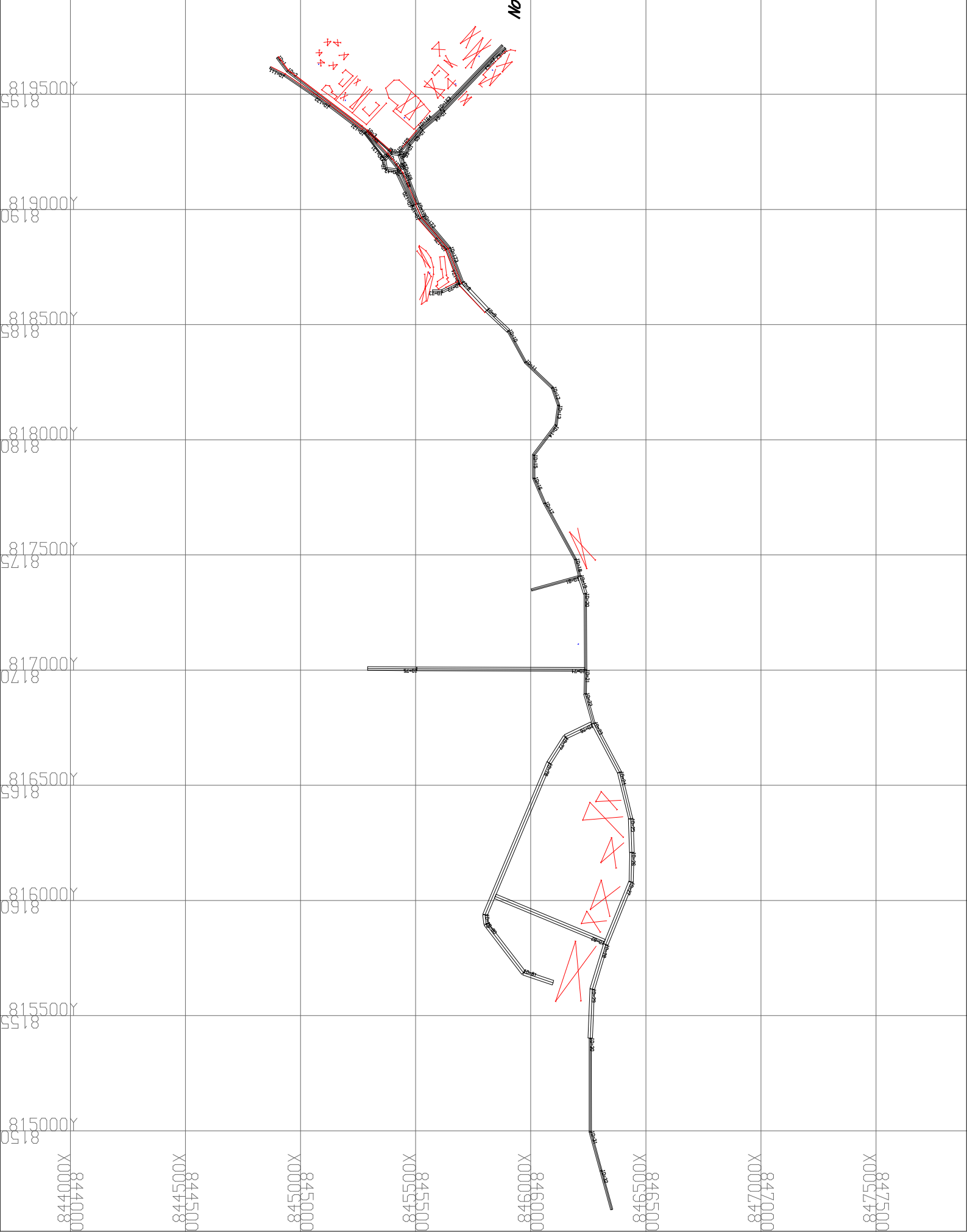
NoiseMap Enterprise



Annex B7-2
2006 AM - Without Existing SENT Landfill
0036286-7
Scale 1 : 20000.0 17:22:08 23/11/2007



Noi.seMap Enterprise



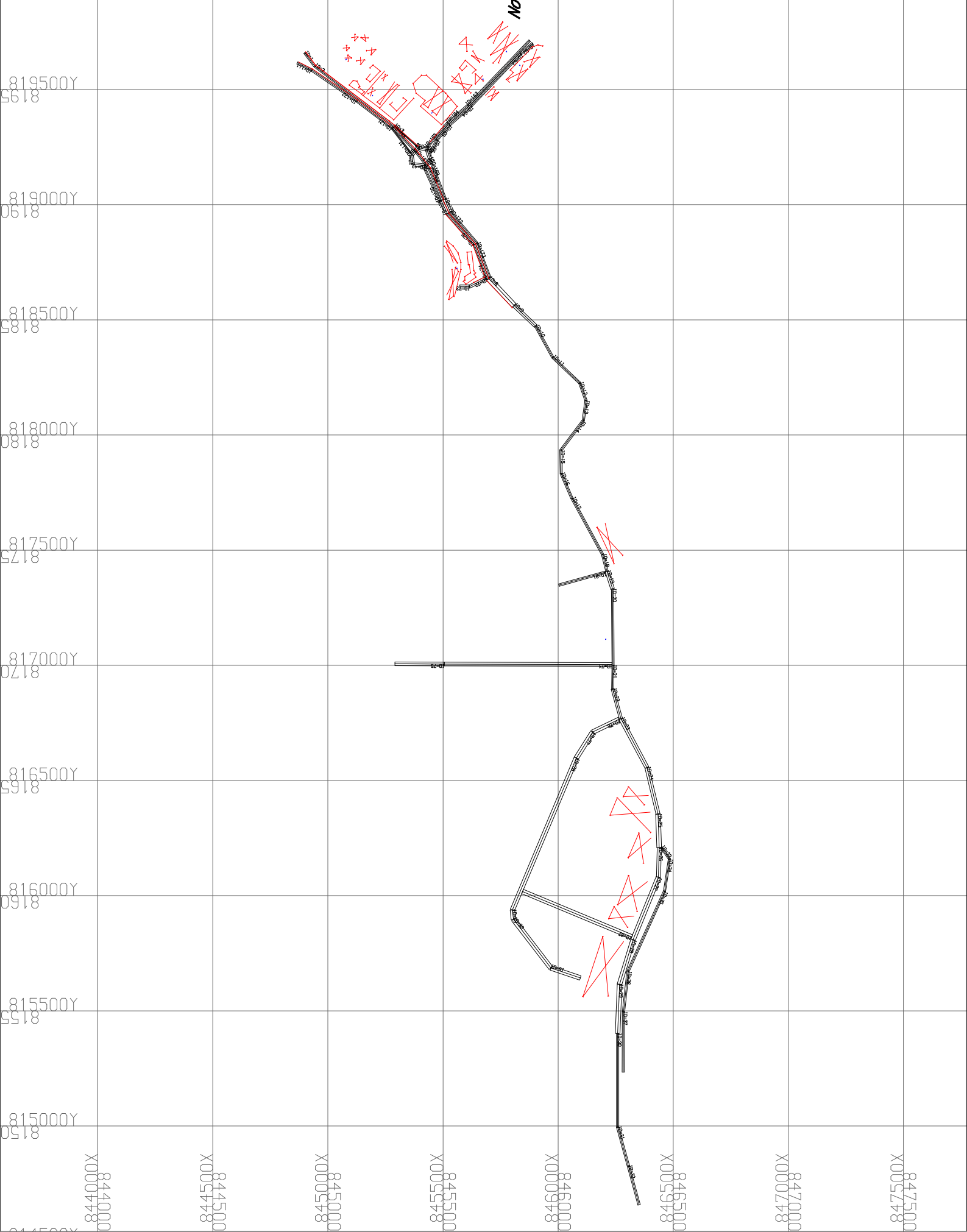
Annex B7-3
2006 PM - With Existing SENT Landfill

0036286-8

Scale 1 : 20000.0 18:28:10 23/11/2007



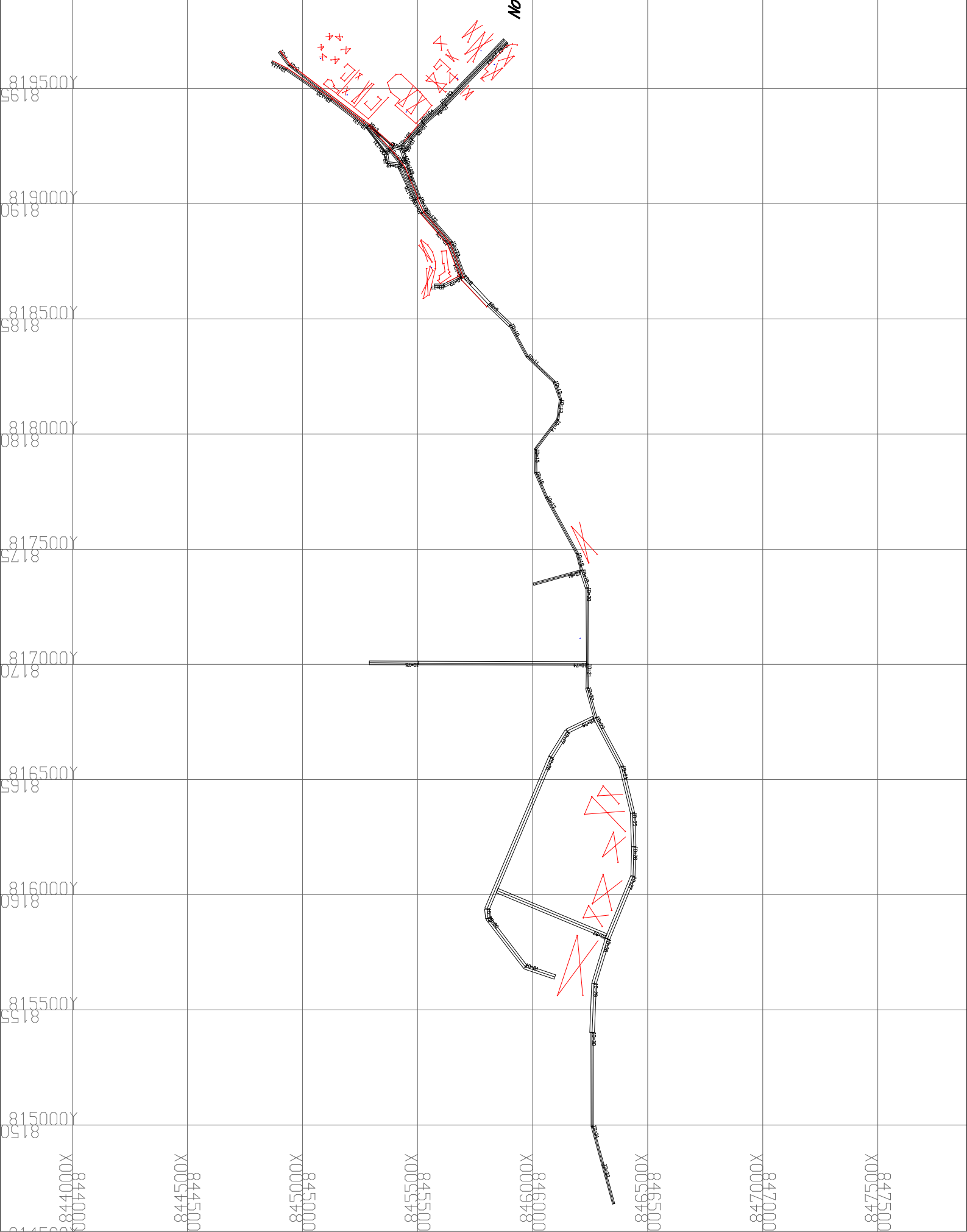
NoiseMap Enterprise



Annex B7-4
2006 PM - Without Existing SENT Landfill
0036286-9
Scale 1 : 20000.0 17:25:15 23/11/2007



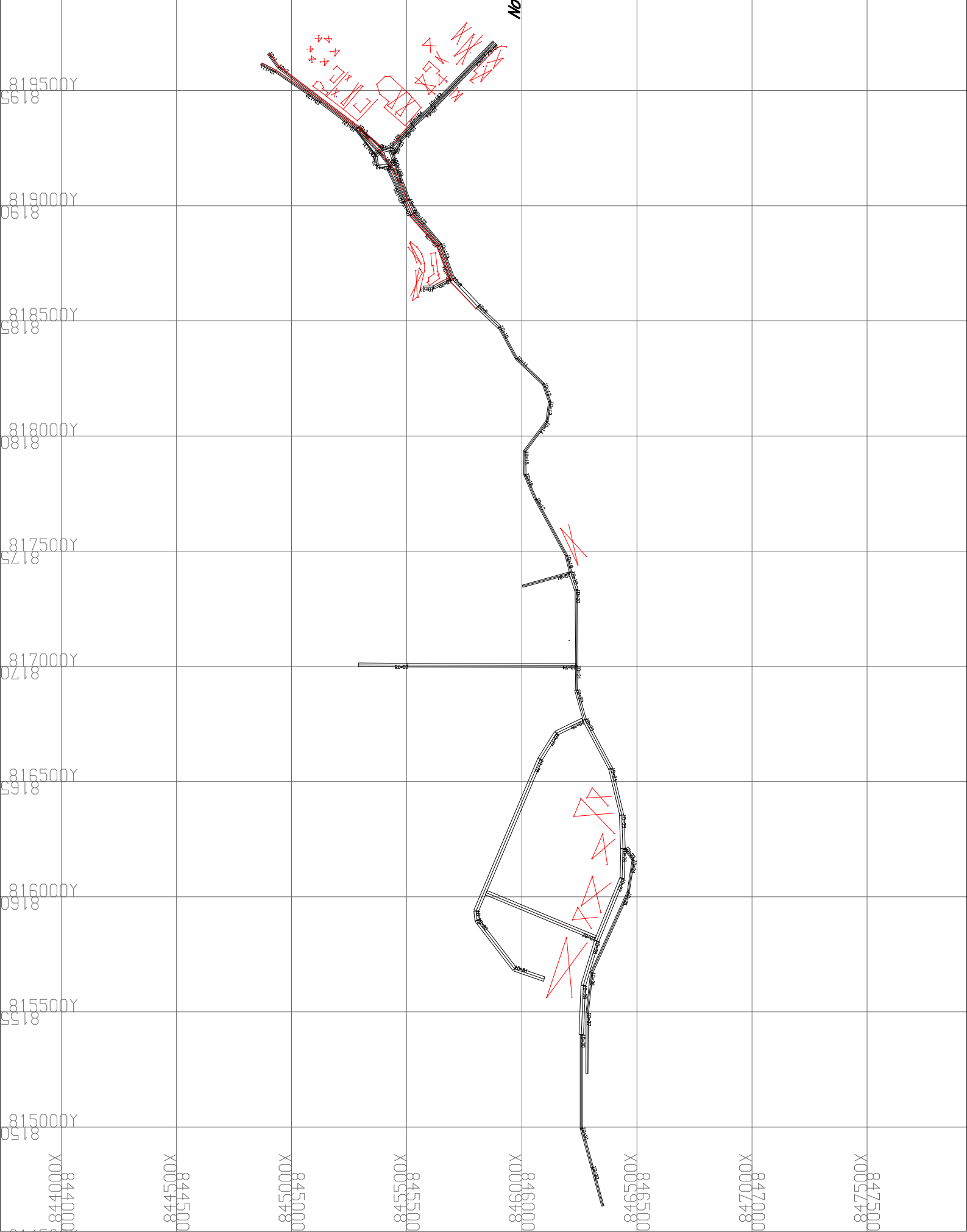
NoiseMap Enterprise

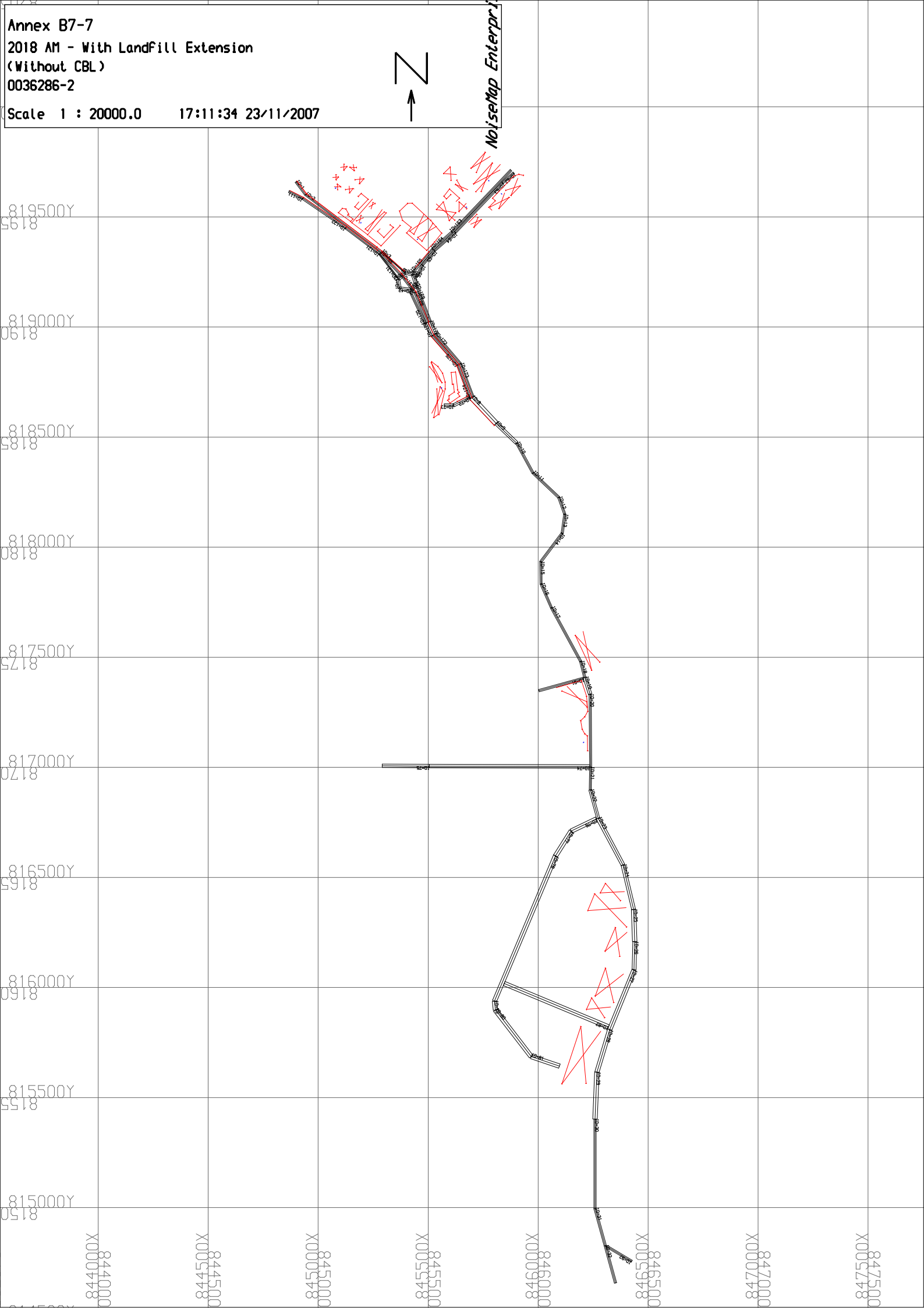


Annex B7-5
2006 SENT - With Existing SENT Landfill
0036286-12
Scale 1 : 20000.0 17:30:38 23/11/2007



NoiseMap Enterprise



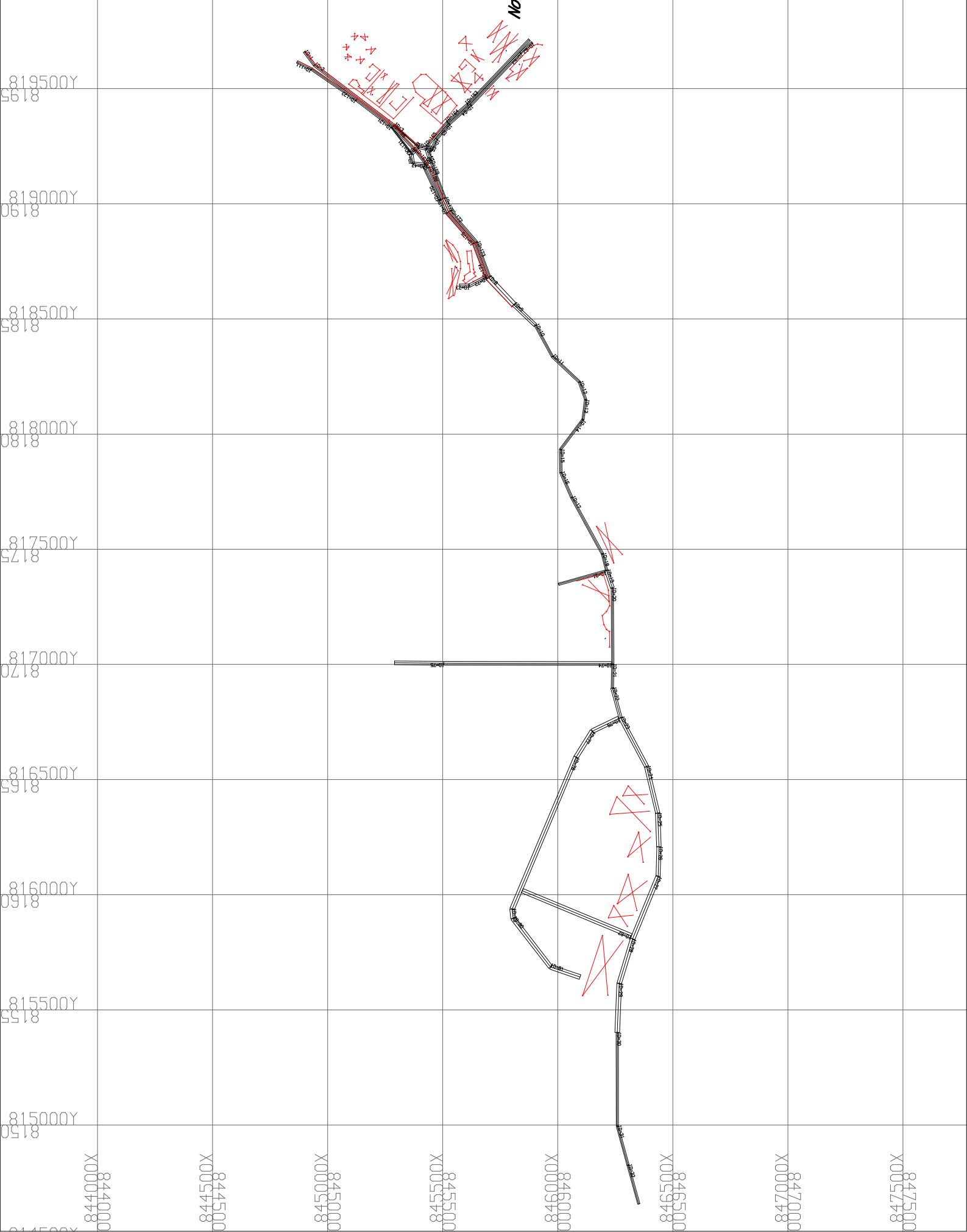


Annex B7-8
2018 AM - Without LandFill Extension
(Without CBL)
0036286-3

Scale 1 : 20000.0 17:15:14 23/11/2007



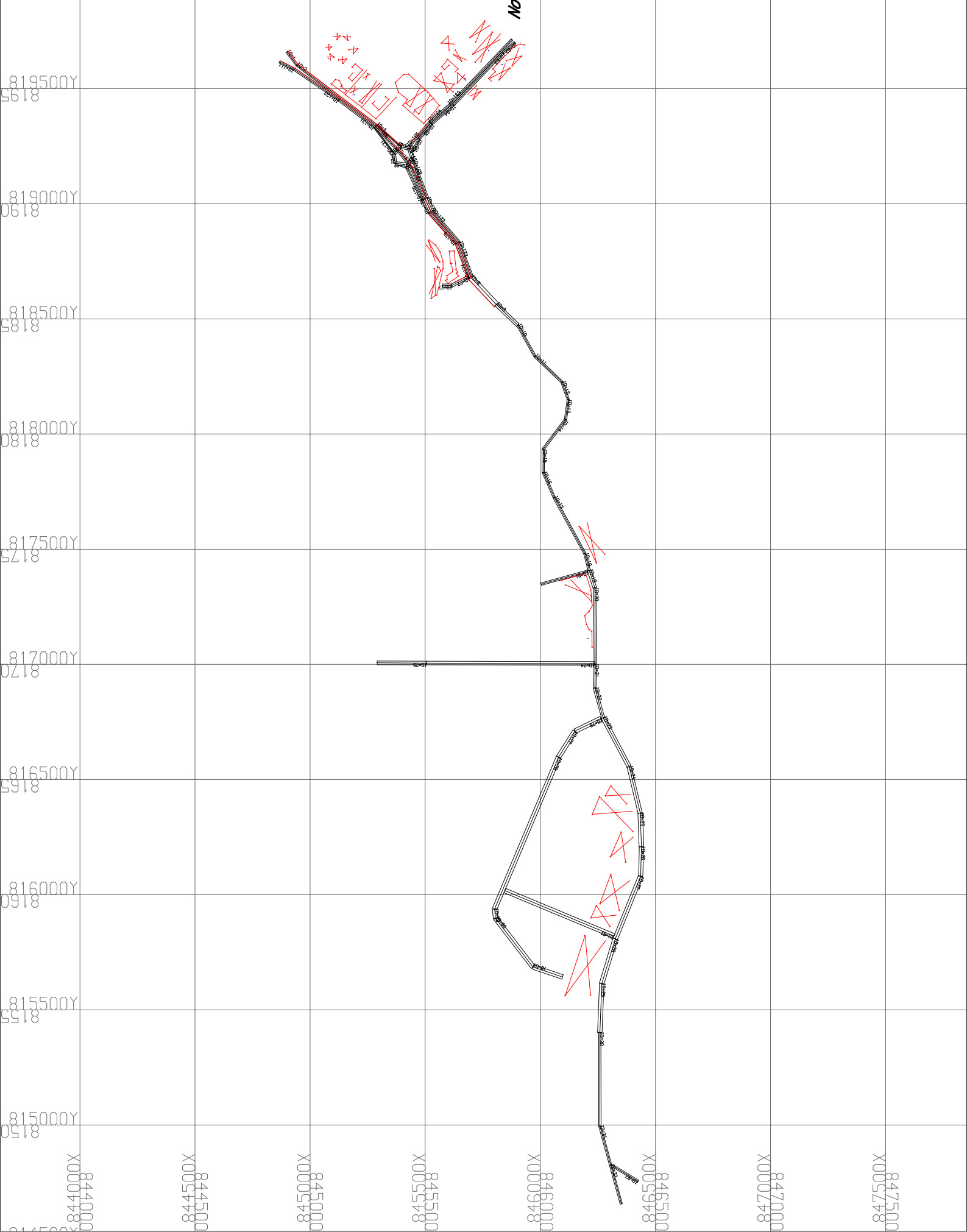
NoiseMap Enterprise



Annex B7-9
2018 PM - With LandFill Extension
(Without CBL)
0036286-4
Scale 1 : 20000.0 17:16:55 23/11/2007



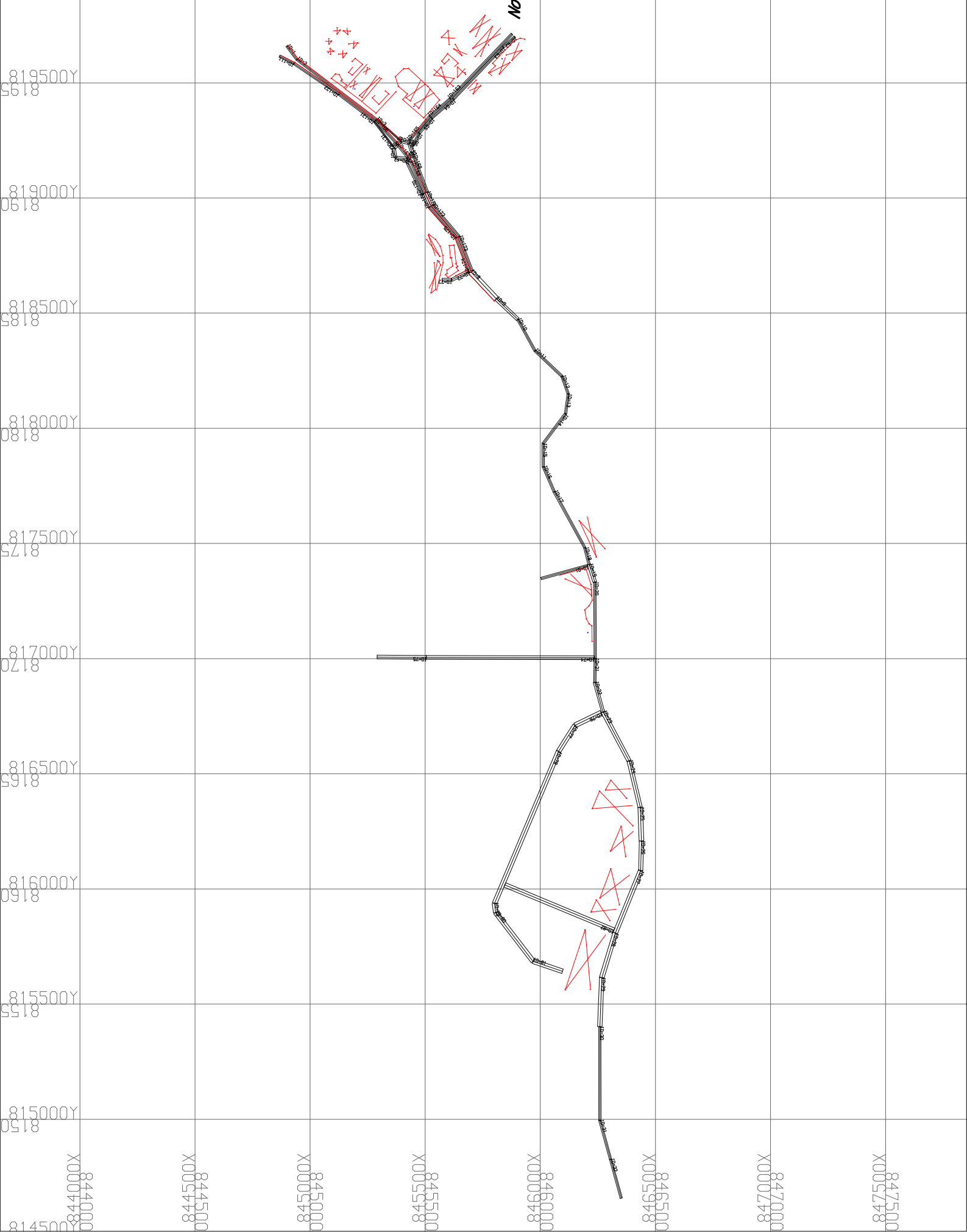
NoiseMap Enterprise



Annex B7-10
2018 PM - Without Landfill Extension
(Without CBL)
0036286-5
Scale 1 : 20000.0 17:18:32 23/11/2007



NoiseMap Enterprise

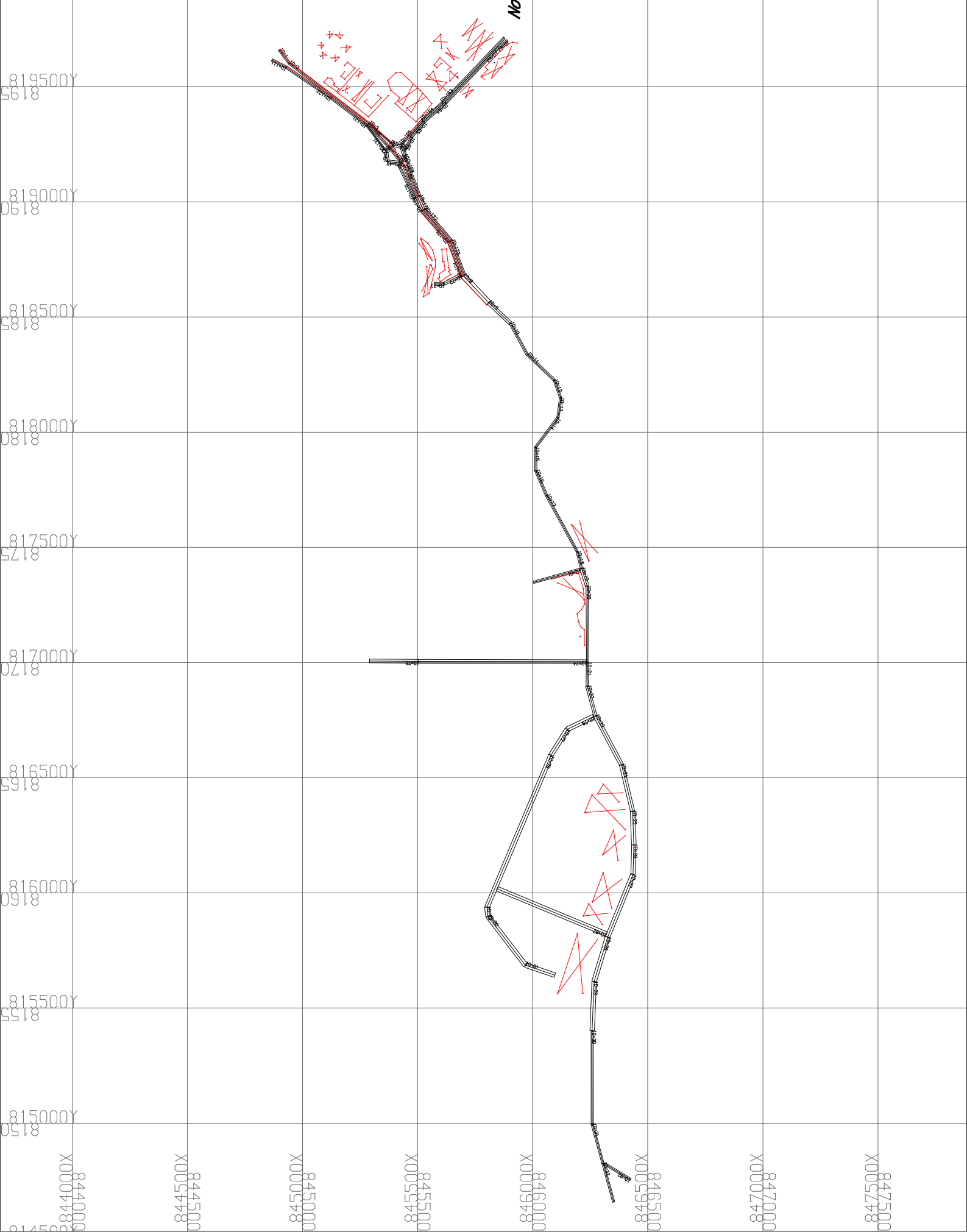


Annex B7-11
2018 SENT - With Landfill Extension
(Without CBL)
0036286-10

Scale 1 : 20000.0 17:27:18 23/11/2007



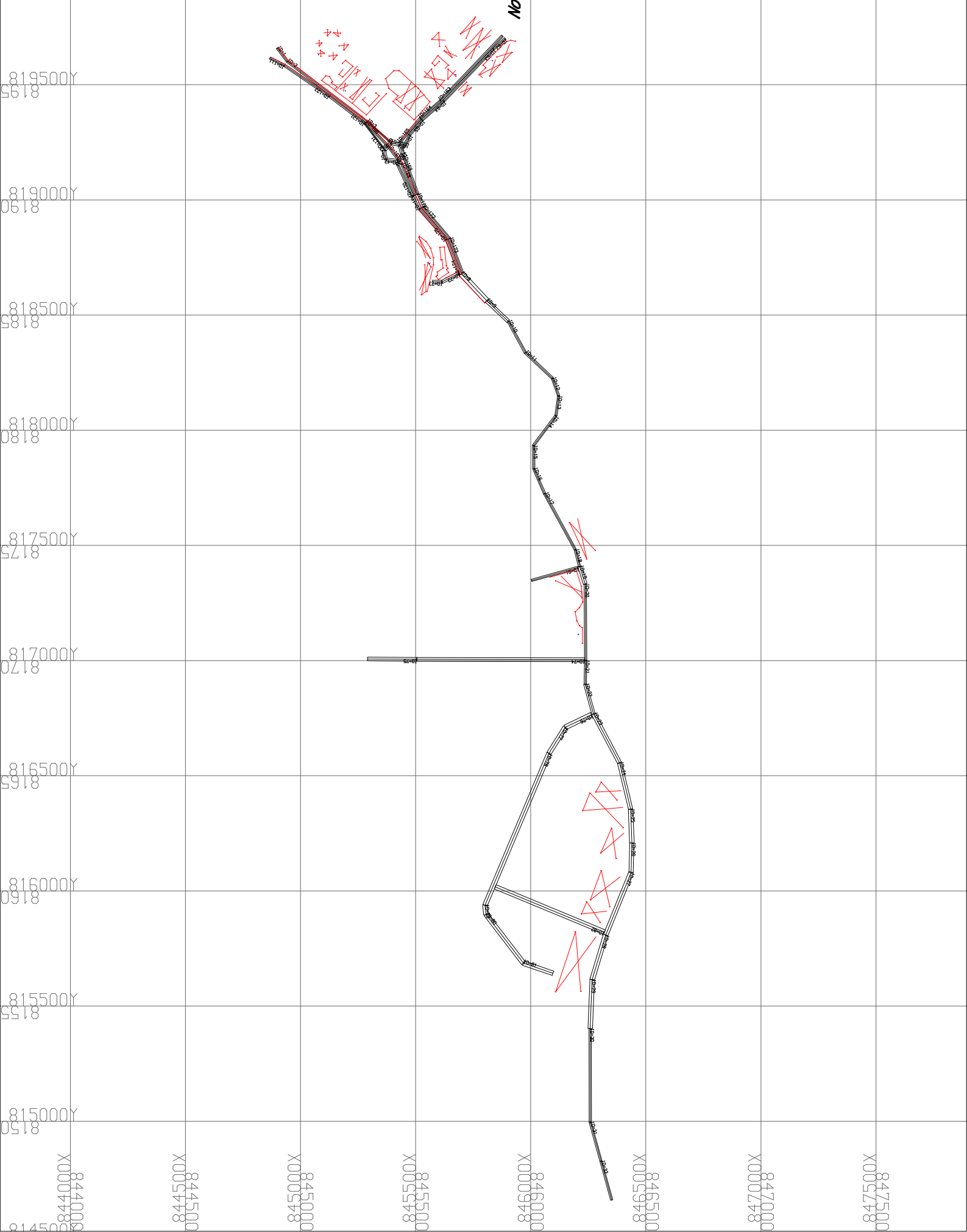
NoiSeMap Enterprise

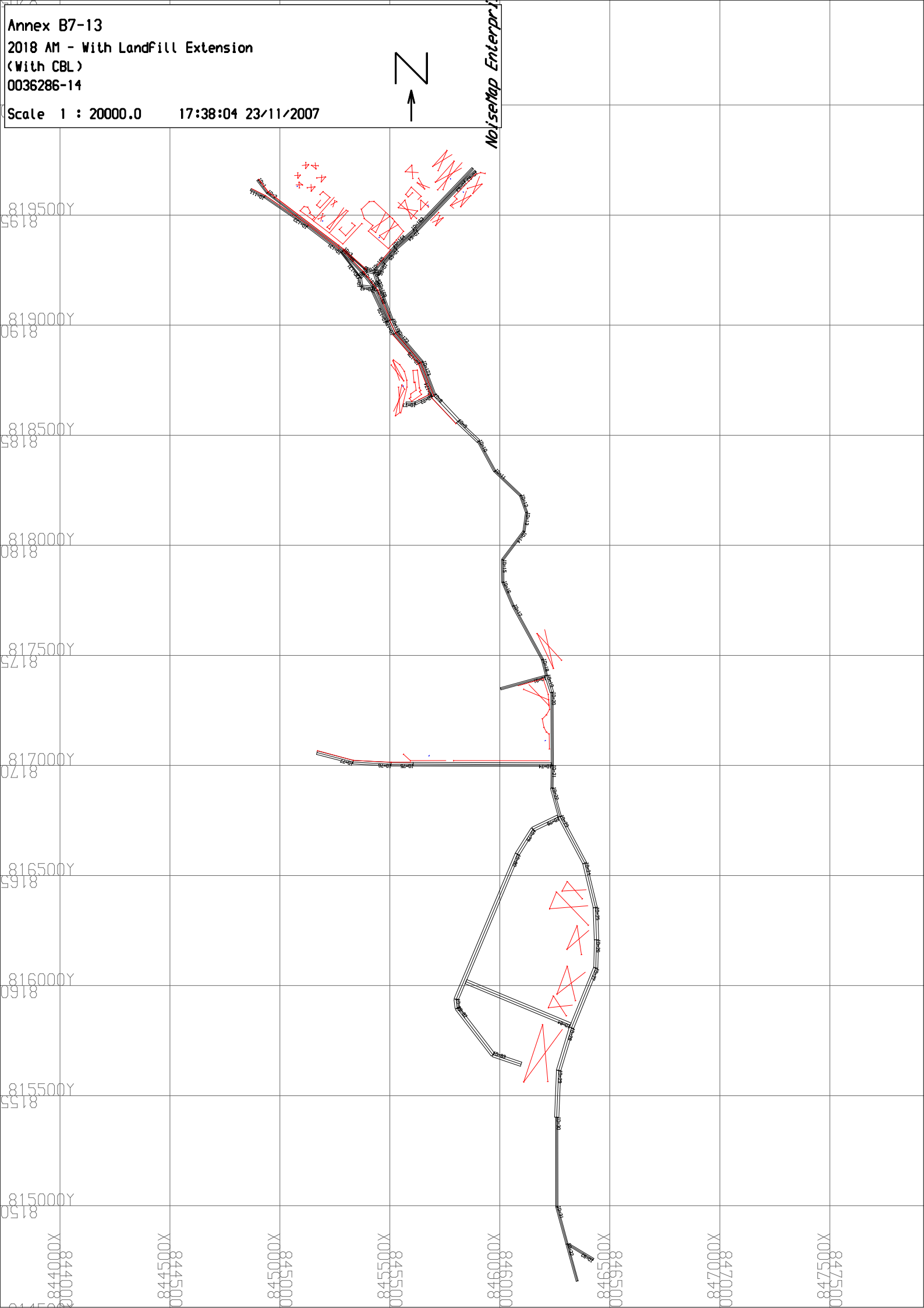


Annex B7-12
2018 SENT - Without LandFill Extension
(Without CBL)
0036286-11
Scale 1 : 20000.0 17:28:57 23/11/2007



NoiseMap Enterprise





Annex B7-13
2018 AM - With LandFill Extension
(With CBL)
0036286-14

Scale 1 : 20000.0 17:38:04 23/11/2007



NoiseMap Enterprise

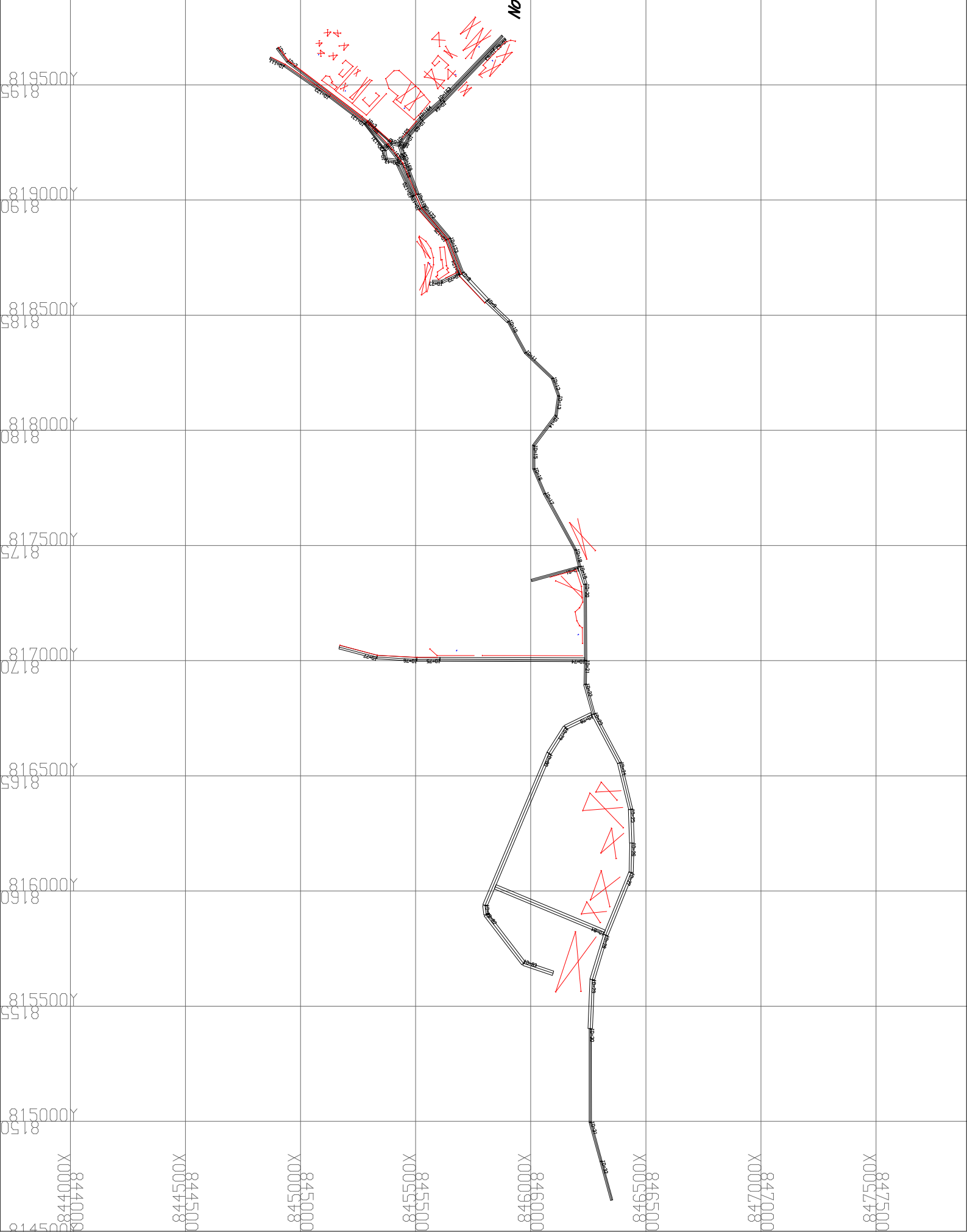
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816000Y
815500Y
815000Y

844000
844500
845000
845500
846000
846500
847000
847500

Annex B7-14
2018 AM - Without LandFill Extension
(With CBL)
0036286-15
Scale 1 : 20000.0 17:40:19 23/11/2007



NoiseMap Enterprise

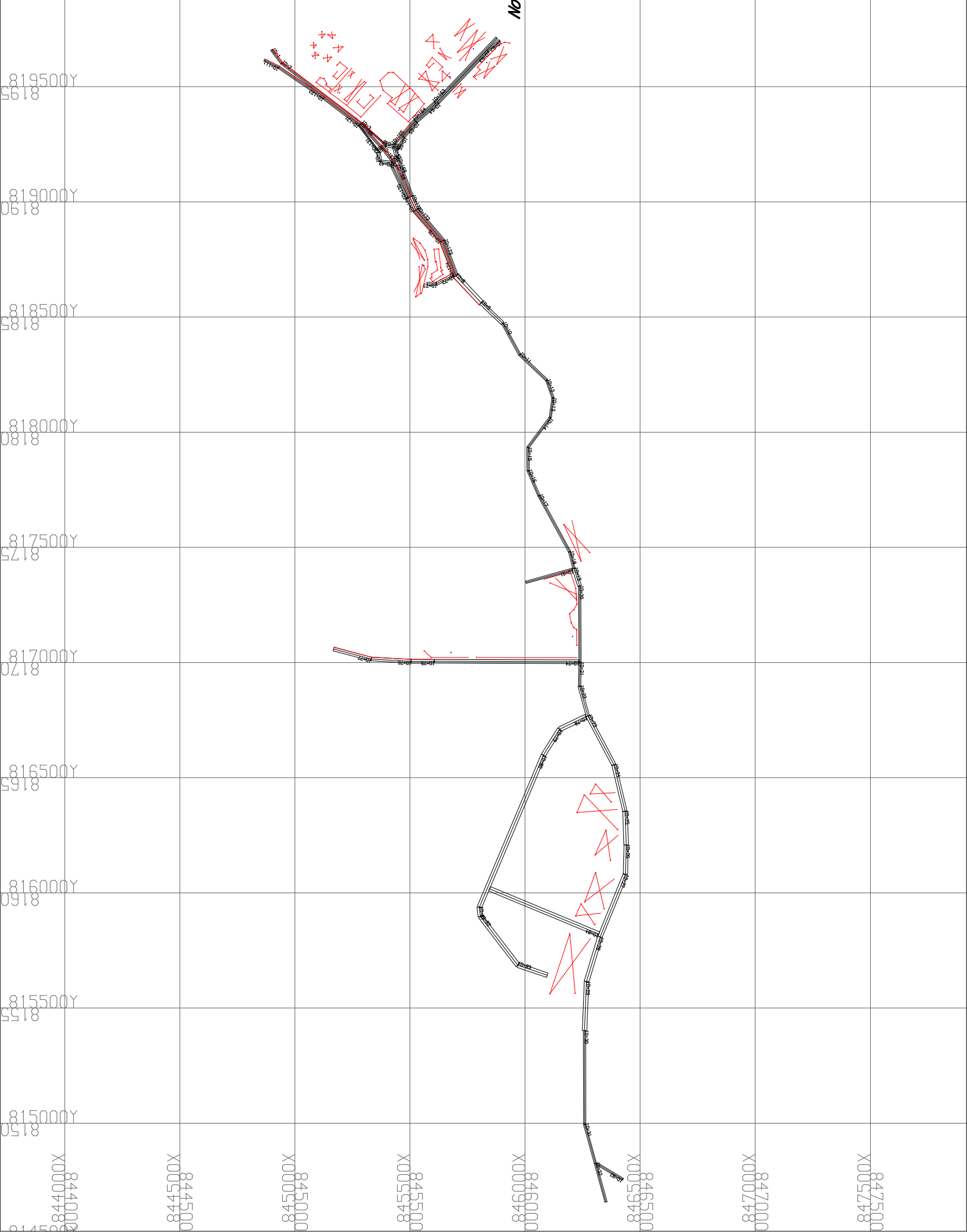


Annex B7-15
2018 PM - With LandFill Extension
(With CBL)
0036286-16

Scale 1 : 20000.0 17:43:44 23/11/2007



NoiseMap Enterprise

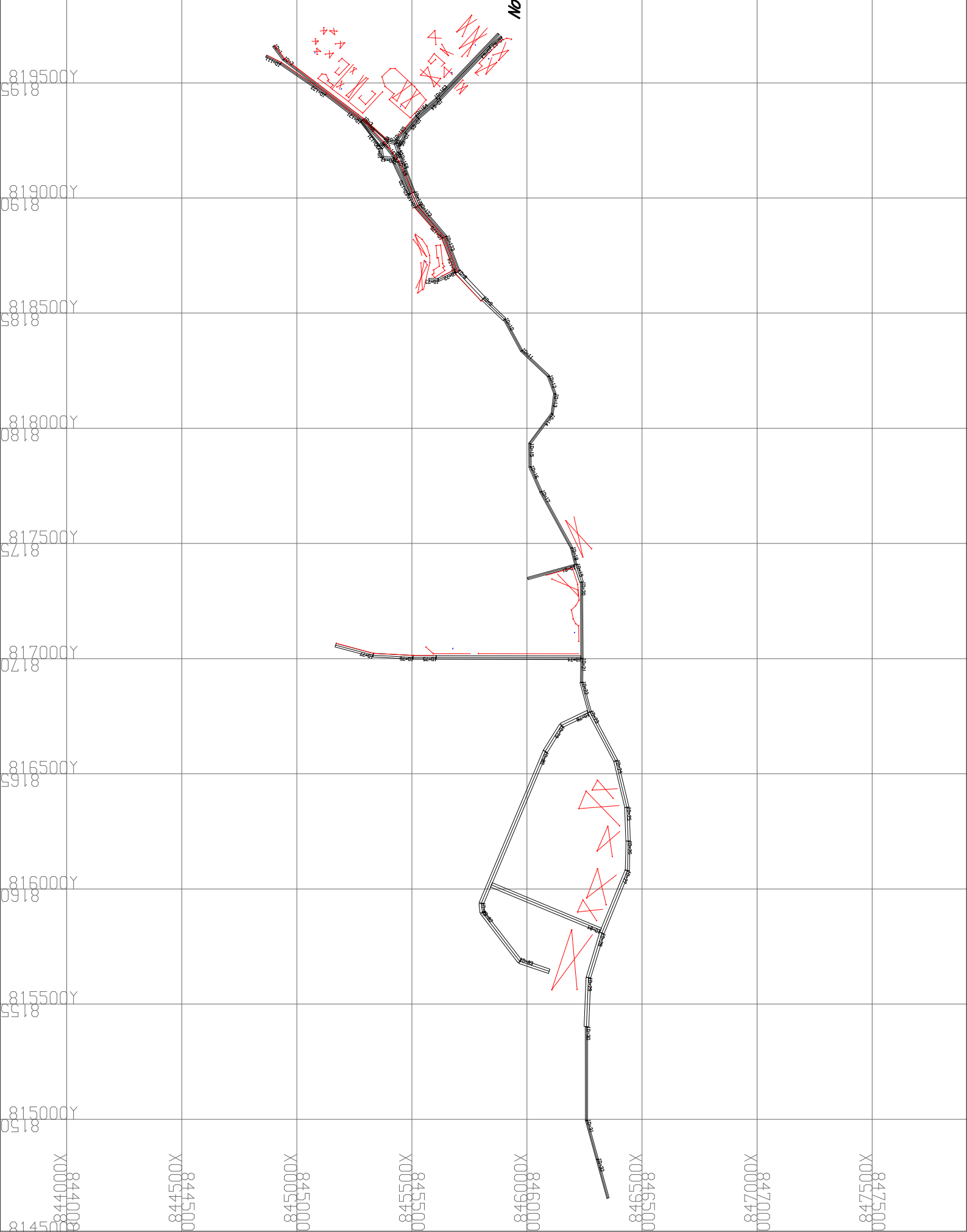


Annex B7-16
2018 PM - Without Landfill Extension
(With CBL)
0036286-17

Scale 1 : 20000.0 17:45:55 23/11/2007



NoiseMap Enterprise

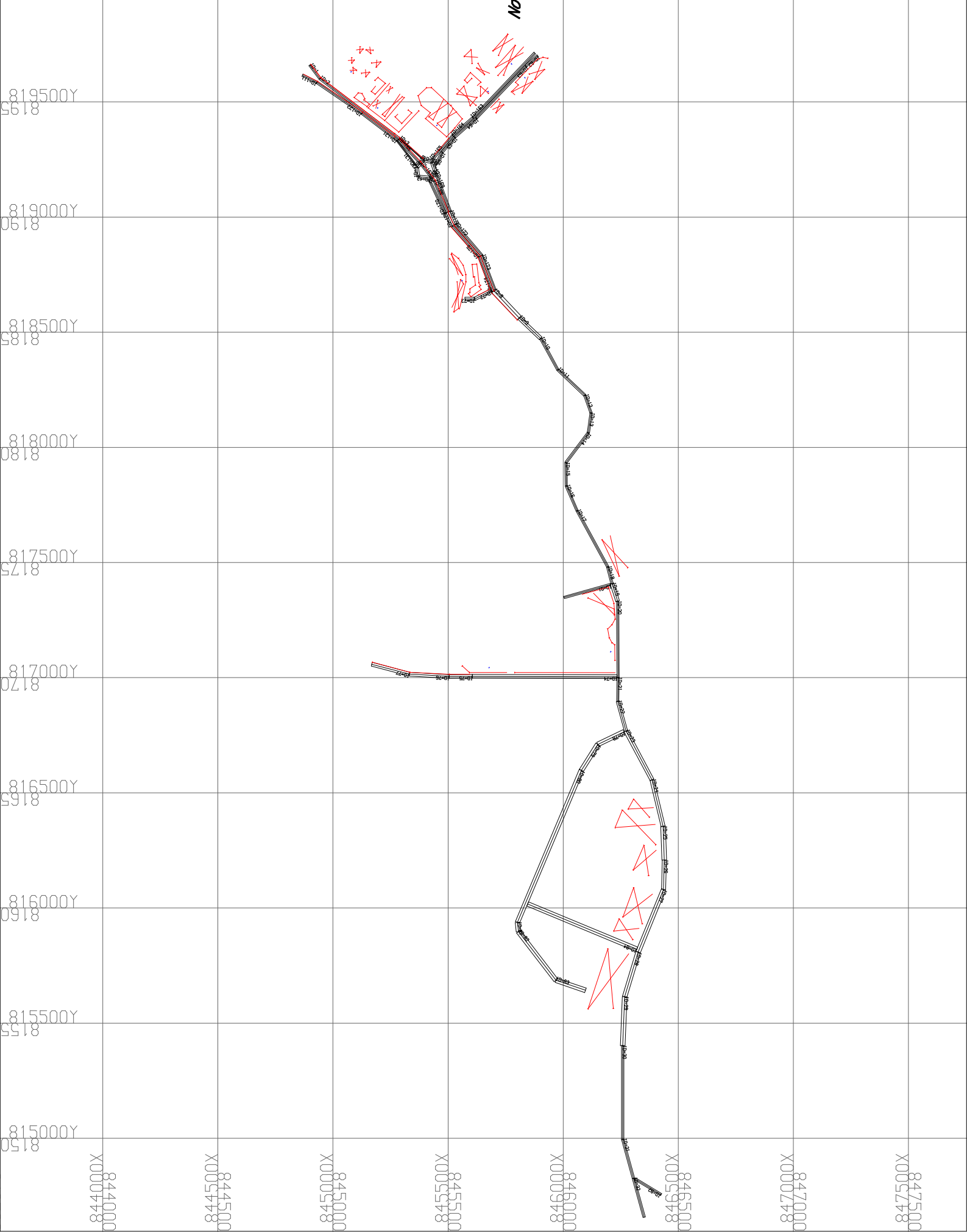


Annex B7-17
2018 SENT - With Landfill Extension
(With CBL)
0036286-18

Scale 1 : 20000.0 18:29:52 23/11/2007



NoiseMap Enterprise

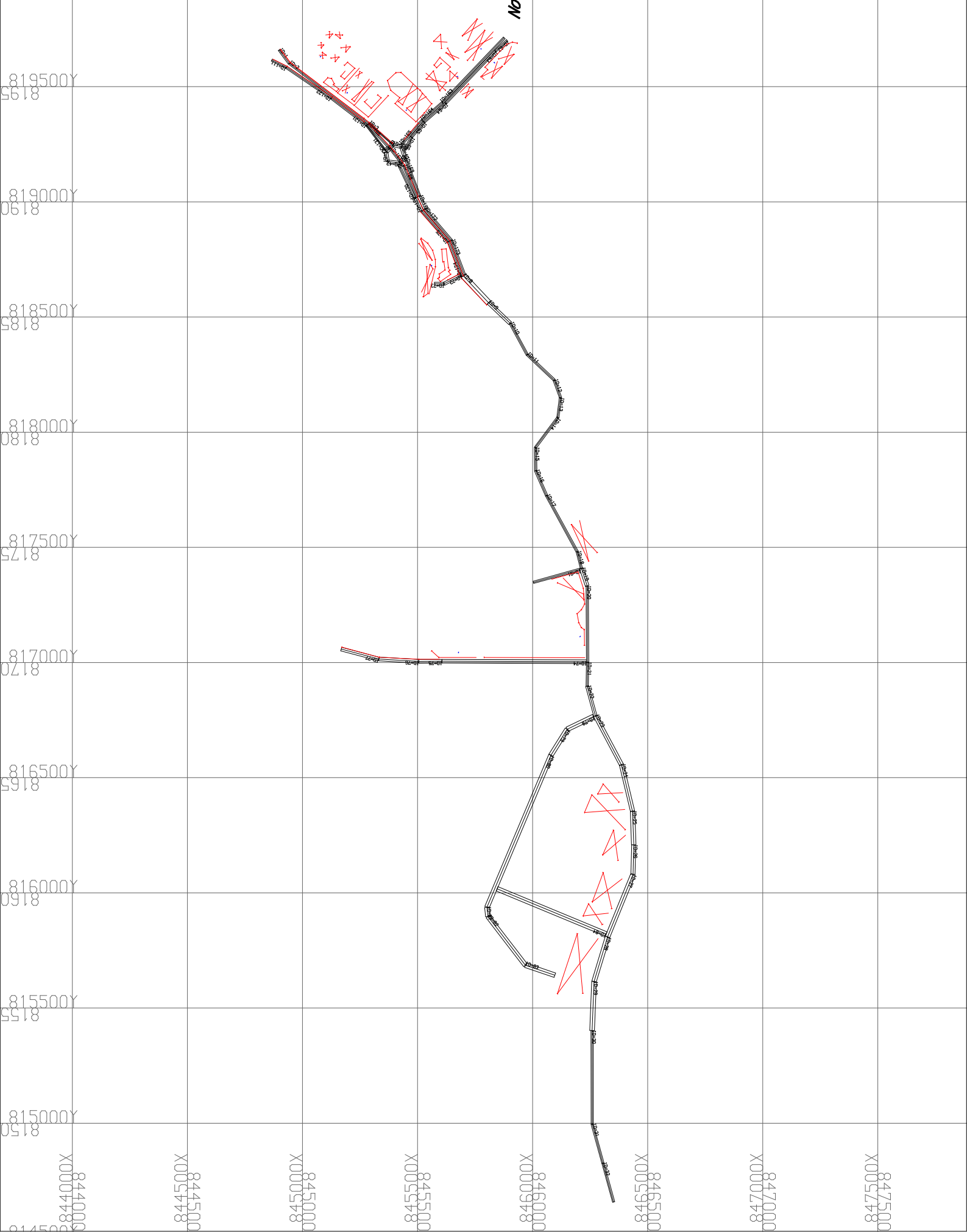


Annex B7-18
2018 SENT - Without Landfill Extension
(With CBL)
0036286-19

Scale 1 : 20000.0 17:49:39 23/11/2007



NoiseMap Enterprise



Annex B8

Input Files of the Traffic Noise Model

Annex B8-1

Sample Inputs File for Traffic Noise Model
Scenario of 2018 AM - With Landfill Extension
(Without Cross Bay Link)

TEXT
 Filename: 0036286-2.mas

TEXT
 Option to set calc method as L10
 OPT=2.0

COA= 1.0COD= 1000.0COR= 20.0

READ
 0036286-1.FLO
 READ
 0036286-1.SEG
 READ
 0036286-1.BAR

LINK
 All
 1,2,3,4,5,
 LINK
 NORTH OF AREA 86
 1,
 LINK
 AREA 86
 2,
 LINK
 SOUTH OF AREA 86
 3,
 LINK
 WAN PO RD (N of RB)
 4,
 LINK
 CHIU SHUN RD
 5,
 READ
 0036286-1.REC
 END

TEXT
 Filename: 0036286-1.flo - 2018 AM PEAK - WITH
 SENT LANDFILL EXTENSION

TIM= 18.0

TEXT
 ACCESS RD TO SENT LANDFILL EXTENSION
 FLO= -272.0PHV= 70.0SPD= 50.0BAS= 2.0FNO= 1.0

TEXT
 ROAD TO TKO A137
 FLO= -1557.0PHV= 70.0SPD= 50.0FNO= 2.0

TEXT
 WAN PO RD (south of Chun Wang Street)
 FLO= -1557.0PHV= 70.0SPD= 50.0FNO= 3.0

TEXT
 CHUN WANG STREET
 FLO= -217.0PHV= 47.0SPD= 50.0FNO= 4.0

TEXT
 WAN PO RD (south of access road to SENT)
 FLO= -1679.0PHV= 49.0SPD= 50.0FNO= 5.0

TEXT
 ACCESS RD TO EXISTING SENT
 FLO= 0.0PHV= 0.0SPD= 50.0FNO= 6.0

TEXT
 WAN PO RD (south of Chun Yat St)
 FLO= -1679.0PHV= 100.0SPD= 50.0FNO= 7.0

TEXT
 CHUN YAT STREET
 FLO= -1582.0PHV= 40.0SPD= 50.0FNO= 8.0

TEXT
 WAN PO RD (south of Wan O Rd)
 FLO= -3267.0PHV= 38.0SPD= 50.0FNO= 9.0

TEXT
 WAN O ROAD
 FLO= -884.0PHV= 73.0SPD= 50.0FNO= 10.0

TEXT
 WAN PO RD (south of Shek Kok Rd)
 FLO= -4127.0PHV= 71.0SPD= 50.0FNO= 11.0

TEXT
 SHEK KOK ROAD
 FLO= -1638.0PHV= 71.0SPD= 50.0FNO= 12.0

TEXT
 WAN PO RD (south of Road D10)
 FLO= -6000.0PHV= 69.0SPD= 50.0FNO= 13.0

TEXT
 WAN PO RD (south of Pak Shing Kok Rd)
 FLO= -6000.0PHV= 63.0SPD= 50.0FNO= 15.0

TEXT
 WAN PO RD (south of Fung Loi Ave)
 FLO= -6000.0PHV= 40.0SPD= 50.0FNO= 16.0

TEXT
 FUNG LOI AVE
 FLO= -239.0PHV= 42.0SPD= 50.0FNO= 17.0

TEXT
 WAN PO ROAD (north of Fung Loi Ave)
 FLO= -6000.0PHV= 44.0SPD= 50.0FNO= 18.0

TEXT
 WAN PO RD - NB
 FLO= -4430.0PHV= 44.0SPD= 50.0FNO= 19.0

TEXT
 WAN PO RD - SB
 FLO= -3390.0PHV= 44.0SPD= 50.0FNO= 20.0

TEXT
 CHIU SHUN RD - EB
 FLO= -551.0PHV= 43.0SPD= 50.0FNO= 21.0

TEXT
 CHIU SHUN RD - WB
 FLO= -523.0PHV= 42.0SPD= 50.0FNO= 22.0

TEXT
 WAN PO RD FLYOVER
 FLO= -6000.0PHV= 44.0SPD= 50.0FNO= 23.0

TEXT
 WAN PO RD RA - SB
 FLO= -323.0PHV= 44.0SPD= 50.0FNO= 24.0

TEXT
 WAN PO RD RA - NB
 FLO= -296.0PHV= 44.0SPD= 50.0FNO= 25.0

TEXT
 WAN PO RD - S OF RA (SB)
 FLO= -3000.0PHV= 44.0SPD= 50.0FNO= 26.0

TEXT
 WAN PO RD - S OF RA (NB)
 FLO= -3000.0PHV= 44.0SPD= 50.0FNO= 27.0

RETN 0.0

TEXT
 Filename: 0036286-1.seg

TEXT
 WAN PO ROAD (SB)

Annex B8-2

UFN= 20.0CAT= REX=845423.8REY=819169.4HCE= 5.0SEND .0
 4.0RSX=844899.1RSY=819659.7HCS= 5.0HCG= 0.0 CAT= 4.0
 SEG= 1.0NCY= 1.0WCY= 5.0DCY= 0.0HCY= REX=845370.1REY=819175.1HCE= 5.0SEND .0
 0.0 REX=845364.0REY=819215.2HCE= 5.0SEND .0
 RST= 2.0RTD= 0.8GND= 0.0NBA= -1.0RCT= TEXT
 0.0 REX=844942.6REY=819601.8HCE= 5.0SEND .0 WAN PO ROAD (NB)
 TEXT RSX=845360.3RSY=819224.9HCS= 5.0
 WAN PO ROAD SEG= 131.0NCY= 1.0WCY= 3.0
 REX=845286.9REY=819340.8HCE= 5.0SEND .0 RST= 2.0NBA= -3.0
 REX=845279.3REY=819329.9HCE= 5.0SEND .0
 TEXT
 TEXT
 UFN= 24.0RSX=845288.6RSY=819342.1HCS= 5.0 UFN= 19.0RSX=845280.3RSY=819332.4HCS= 5.0
 WCY= 3.0 SEG= 121.0WCY= 5.0
 REX=845387.6REY=819253.8HCE= 5.0SEND .0 REX=845126.0REY=819450.0HCE= 5.0SEND .0
 TEXT REX=844930.6REY=819583.5HCE= 5.0SEND .0
 SEG= 111.0
 REX=844867.2REY=819615.5HCE= 5.0SEND .0
 UFN= 16.0CAT= TEXT
 1.0RSX=845698.7RSY=818679.3HCS= 5.0 PO SHUN ROAD
 SEG= 8.0NCY= 0.0WCY= 12.0 UFN= 22.0CAT=
 REX=845808.8REY=818562.1HCE= 5.0SEND .0 5.0RSX=845889.4RSY=819700.3HCS= 5.0
 WCY= 8.0 SEG= 62.0
 REX=845902.3REY=818473.0HCE= 5.0SEND .0 NBA= -1.0
 WCY= 5.0 REX=845838.6REY=819655.3HCE= 5.0SEND .0
 REX=845976.5REY=818337.1HCE= 5.0SEND .0 TEXT
 REX=846093.9REY=818226.3HCE= 5.0SEND .0 REX=845623.2REY=819429.8HCE= 5.0SEND .0
 UFN= 15.0 RST= 0.0 REX=846109.6REY=818063.6HCE= 5.0SEND .0
 RST= 0.0 REX=846121.3REY=818149.9HCE= 5.0SEND .0
 REX=846109.6REY=818063.6HCE= 5.0SEND .0 RST= 0.0
 REX=846012.2REY=817933.8HCE= 5.0SEND .0 REX=845529.0REY=819347.3HCE= 5.0SEND .0
 REX=846013.4REY=817832.8HCE= 5.0SEND .0 REX=845474.4REY=819281.7HCE= 5.0SEND .0
 REX=846060.3REY=817725.0HCE= 5.0SEND .0 REX=845445.9REY=819226.8HCE= 5.0SEND .0
 UFN= 13.0CAT= 2.0
 RST= 2.0 TEXT
 REX=846193.5REY=817481.3HCE= 5.0SEND .0 UFN= 21.0RSX=845430.9RSY=819249.3HCS= 5.0
 REX=846212.2REY=817408.6HCE= 5.0SEND .0 SEG= 165.0
 UFN= 11.0 REX=845519.9REY=819353.8HCE= 5.0SEND .0
 WCY= 8.0 SEG= 164.0
 REX=846236.9REY=817332.4HCE= 5.0SEND .0 REX=845607.8REY=819430.7HCE= 5.0SEND .0
 WCY= 5.0 SEG= 163.0
 REX=846238.8REY=817001.3HCE= 5.0SEND .0 RST= 2.0
 UFN= 9.0CAT= 3.0 REX=845876.6REY=819712.1HCE= 5.0SEND .0
 RST= 0.0 TEXT
 REX=846237.1REY=816897.4HCE= 5.0SEND .0 FUNG LOI AVE
 WCY= 7.0 UFN= 17.0CAT=
 REX=846272.9REY=816768.4HCE= 5.0SEND .0 1.0RSX=845687.7RSY=818681.9HCS= 5.0
 UFN= 7.0 SEG= 72.0NCY= 0.0WCY= 7.0
 WCY= 9.0 RST= 0.0
 REX=846385.8REY=816556.4HCE= 5.0SEND .0 REX=845615.3REY=818644.4HCE= 5.0SEND .0
 REX=846434.1REY=816354.6HCE= 5.0SEND .0 TEXT
 WCY= 10.0 REX=845573.4REY=818644.4HCE= 5.0SEND .0
 REX=846439.4REY=816208.4HCE= 5.0SEND .0 TEXT
 UFN= 5.0 WAN O ROAD
 WCY= 9.0 UFN= 10.0CAT=
 REX=846436.1REY=816080.4HCE= 5.0SEND .0 2.0RSX=846234.1RSY=817003.9HCS= 5.0
 WCY= 10.0 REX=846267.0REY=815614.9HCE= 5.0SEND .0
 REX=846325.6REY=815808.7HCE= 5.0SEND .0 WCY= 8.0
 UFN= 3.0 REX=846258.5REY=815402.3HCE= 5.0SEND .0
 REX=846258.8REY=814995.4HCE= 5.0SEND .0 REX=845505.1REY=817005.4HCE= 5.0SEND .0
 REX=846305.3REY=814826.6HCE= 5.0SEND .0 TEXT
 TEXT REX=845291.0REY=817006.9HCE= 5.0SEND .0
 ROAD TO TKO A137
 UFN= 2.0 TEXT
 REX=846351.8REY=814657.8HCE= 5.0SEND .0 CHUN YAT STREET
 UFN= 8.0CAT=
 TEXT 3.0RSX=846264.4RSY=816765.3HCS= 5.0
 ROUNDABOUT WCY= 10.0
 UFN= 24.0CAT= REX=846150.1REY=816710.3HCE= 5.0SEND .0
 4.0RSX=845365.2RSY=819216.3HCS= 5.0 TEXT
 SEG= 38.0WCY= 7.0
 REX=845393.3REY=819247.2HCE= 5.0SEND .0 REX=846079.3REY=816597.5HCE= 5.0SEND .0
 TEXT REX=845801.5REY=815937.8HCE= 5.0SEND .0
 REX=845805.9REY=815897.3HCE= 5.0SEND .0
 REX=845968.6REY=815686.1HCE= 5.0SEND .0
 REX=846096.6REY=815642.7HCE= 5.0SEND .0
 CAT= 1.0
 REX=845429.9REY=819239.2HCE= 5.0SEND .0
 REX=845443.3REY=819198.0HCE= 5.0SEND .0
 UFN= 25.0 TEXT

Annex B8-3

CHUN WANG STREET		NBA= 113.0
UFN= 4.0RSX=846320.1RSY=815820.9HCS= 5.0		BEX=845088.6BEY=819623.2HBE= 65.0
REX=845845.6REY=816017.7HCE= 5.0SEND .0		
TEXT		TEXT
SHEK KOK ROAD		NBA= 115.0BSX=845065.8BSY=819679.6HBS= 65.0
UFN= 12.0CAT=		BEX=845092.7BEY=819681.5HBE= 65.0
2.0RSX=846206.0RSY=817404.5HCS= 5.0		NBA= 116.0
SEG= 91.0WCY= 5.0		BEX=845081.3BEY=819667.9HBE= 65.0
REX=846003.6REY=817348.1HCE= 5.0SEND .0		TEXT
TEXT		NBA= 117.0
ACCESS ROAD TO SENT LANDFILL EXTENSION		BEX=845081.3BEY=819692.2HBE= 65.0
UFN= 1.0CAT=		TEXT
3.0RSX=846425.2RSY=814755.9HCS= 5.0		NBA= 12.0BSX=845101.0BSY=819725.2HBS= 65.0
REX=846312.3REY=814823.9HCE= 5.0SEND .0		BEX=845131.0BEY=819729.1HBE= 65.0
TEXT		NBA= 13.0
WAN PO RD FLYOVER		BEX=845116.5BEY=819711.6HBE= 65.0
UFN= 23.0CAT=		TEXT
4.0RSX=845283.9RSY=819335.8HCS= 5.0HCG= 5.0		NBA= 14.0
SEG= 166.0		BEX=845117.6BEY=819739.8HBE= 65.0
REX=845381.2REY=819232.1HCE= 8.0SEND .0		TEXT
TEXT		NBA= 15.0BSX=845160.0BSY=819738.8HBS= 65.0
REX=845439.3REY=819157.5HCE= 8.0SEND .0		BEX=845164.2BEY=819709.7HBE= 65.0
CAT= 1.0		NBA= 16.0
REX=845498.3REY=819021.0HCE= 5.0SEND .0		BEX=845143.5BEY=819726.2HBE= 65.0
TEXT		TEXT
WAN PO RD RA - SB		NBA= 17.0
UFN= 24.0RSX=845446.5RSY=819190.1HCS= 5.0HCG= 0.0		BEX=845174.6BEY=819724.3HBE= 65.0
NCY= 1.0		TEXT
RST= 2.0		NBA= 18.0BSX=845190.1BSY=819682.5HBS= 65.0
REX=845509.3REY=819026.1HCE= 5.0SEND .0		BEX=845188.0BEY=819650.4HBE= 65.0
TEXT		NBA= 19.0
WAN PO RD RA - NB		BEX=845207.7BEY=819673.7HBE= 65.0
UFN= 25.0RSX=845486.7RSY=819016.1HCS= 5.0		TEXT
REX=845418.1REY=819161.4HCE= 5.0SEND .0		NBA= 20.0
TEXT		BEX=845167.3BEY=819668.9HBE= 65.0
Wan Po Road - South of RB (SB)		TEXT
UFN= 26.0RSX=845507.3RSY=819024.4HCS= 5.0		NBA= 21.0BSX=845141.4BSY=819640.7HBS= 65.0
WCY= 8.0		BEX=845142.5BEY=819608.6HBE= 65.0
REX=845531.1REY=818969.4HCE= 5.0SEND .0		NBA= 22.0
TEXT		BEX=845159.0BEY=819629.0HBE= 65.0
WCY= 5.0		NBA= 23.0
REX=845646.9REY=818833.4HCE= 5.0SEND .0		BEX=845123.8BEY=819624.2HBE= 65.0
REX=845703.4REY=818684.3HCE= 5.0SEND .0		TEXT
TEXT		MING TAK ESTATE
Wan Po Road - South of RA (NB)		NBA= 67.0BSX=845828.4BSY=819738.6HBS= 105.0
UFN= 27.0RSX=845693.9RSY=818675.6HCS= 5.0		BEX=845716.6BEY=819614.3HBE= 105.0
REX=845636.1REY=818827.6HCE= 5.0SEND .0		TEXT
TEXT		NBA= 69.0BSX=845826.3BSY=819713.4HBS= 105.0
REX=845519.6REY=818960.0HCE= 5.0SEND .0		BEX=845706.1BEY=819649.3HBE= 105.0
WCY= 8.0		NBA= 70.0
REX=845492.1REY=819017.2HCE= 5.0SEND .0		BEX=845792.1BEY=819745.4HBE= 105.0
RETN 0.0		TEXT
TEXT		NBA= 71.0
Filename: 0036286-1.bar		BEX=845741.3BEY=819615.3HBE= 105.0
TEXT		TEXT
ON NING GARDEN		YUK MING COURT
NBA= 111.0BSX=845073.0BSY=819636.8HBS= 65.0		NBA= 73.0BSX=845673.3BSY=819562.0HBS= 105.0
FOA= 0.0WBA= 0.0		BEX=845640.0BEY=819524.1HBE= 105.0
ABA= 0.0		TEXT
BEX=845103.1BEY=819636.8HBE= 65.0		NBA= 74.0
TEXT		BEX=845640.7BEY=819568.1HBE= 105.0
NBA= 112.0		TEXT
BEX=845086.5BEY=819649.5HBE= 65.0		NBA= 75.0
TEXT		

Annex B8-4

BEX=845675.3BEY=819536.8HBE= 105.0
 TEXT
 NBA= 77.0BSX=845625.8BSY=819519.9HBS= 105.0
 BEX=845595.8BEY=819483.0HBE= 105.0
 NBA= 78.0
 BEX=845568.8BEY=819568.5HBE= 105.0
 NBA= 79.0
 BEX=845537.8BEY=819533.5HBE= 105.0
 TEXT
 NBA= 80.0
 BEX=845625.8BEY=819518.9HBE= 105.0
 TEXT
 NBA= 82.0BSX=845536.8BSY=819558.7HBS= 105.0
 BEX=845621.6BEY=819484.9HBE= 105.0
 TEXT
 LA CITE NOBLE
 NBA= 83.0BSX=845538.5BSY=819457.6HBS= 105.0
 BEX=845453.1BEY=819407.0HBE= 105.0
 TEXT
 NBA= 84.0
 BEX=845472.3BEY=819389.3HBE= 105.0
 TEXT
 NBA= 85.0
 BEX=845521.3BEY=819470.8HBE= 105.0
 TEXT
 NBA= 87.0BSX=845480.8BSY=819512.3HBS= 105.0
 BEX=845435.1BEY=819421.0HBE= 105.0
 NBA= 88.0
 BEX=845416.6BEY=819435.6HBE= 105.0
 NBA= 89.0
 BEX=845498.3BEY=819492.9HBE= 105.0
 TEXT
 NAN FUNG PLAZA
 NBA= 90.0BSX=845206.0BSY=819496.6HBS= 105.0
 BEX=845173.9BEY=819482.3HBE= 105.0
 TEXT
 NBA= 91.0BSX=845185.6BSY=819471.4HBS= 105.0
 BEX=845194.9BEY=819507.4HBE= 105.0
 TEXT
 NBA= 93.0BSX=845240.6BSY=819536.3HBS= 105.0
 BEX=845249.6BEY=819566.1HBE= 105.0
 TEXT
 NBA= 92.0BSX=845230.8BSY=819545.6HBS= 105.0
 BEX=845258.6BEY=819561.3HBE= 105.0
 TEXT
 NBA= 94.0BSX=845290.7BSY=819533.8HBS= 105.0
 BEX=845225.3BEY=819436.2HBE= 105.0
 NBA= 95.0
 BEX=845214.1BEY=819445.6HBE= 105.0
 NBA= 96.0
 BEX=845301.6BEY=819522.3HBE= 105.0
 TEXT
 MING TAK COMM COMPLEX
 NBA= 142.0BSX=845782.4BSY=819775.4HBS= 15.0
 BEX=845694.4BEY=819720.9HBE= 15.0
 TEXT
 NBA= 143.0
 BEX=845759.6BEY=819793.8HBE= 15.0
 NBA= 144.0
 BEX=845719.1BEY=819701.5HBE= 15.0
 TEXT

HAVEN OF HOPE WOO PING CARE & ATTENTION HOME
 NBA= 157.0BSX=845629.1BSY=819693.1HBS= 25.0
 BEX=845569.9BEY=819697.1HBE= 25.0
 TEXT
 NBA= 158.0
 BEX=845600.1BEY=819727.1HBE= 25.0
 NBA= 159.0
 BEX=845604.2BEY=819665.9HBE= 25.0
 TEXT
 CHAN IU SENG PRI SCH
 NBA= 160.0BSX=845627.0BSY=819570.2HBS= 35.0
 BEX=845642.5BEY=819585.7HBE= 35.0
 TEXT
 NBA= 161.0
 BEX=845596.8BEY=819626.9HBE= 35.0
 NBA= 162.0
 BEX=845571.8BEY=819593.9HBE= 35.0
 NBA= 163.0
 BEX=845583.3BEY=819582.2HBE= 35.0
 NBA= 164.0
 BEX=845603.1BEY=819601.6HBE= 35.0
 TEXT
 LA CITE NOBLE PODIUM
 NBA= 165.0BSX=845561.3BSY=819426.1HBS= 25.0
 BEX=845511.4BEY=819484.4HBE= 25.0
 TEXT
 NBA= 166.0
 BEX=845427.6BEY=819562.2HBE= 20.0
 NBA= 167.0
 BEX=845405.9BEY=819561.2HBE= 20.0
 NBA= 168.0
 BEX=845369.9BEY=819526.4HBE= 20.0
 NBA= 169.0
 BEX=845383.4BEY=819484.1HBE= 20.0
 NBA= 170.0
 BEX=845422.8BEY=819452.4HBE= 20.0
 NBA= 171.0
 BEX=845402.2BEY=819426.8HBE= 25.0
 NBA= 172.0
 BEX=845493.2BEY=819348.1HBE= 25.0
 NBA= 173.0
 BEX=845529.4BEY=819386.4HBE= 25.0
 NBA= 174.0
 BEX=845562.3BEY=819426.8HBE= 25.0
 TEXT
 LEUNG SING TAK PRI SCH
 NBA= 175.0BSX=845282.1BSY=819446.3HBS= 35.0
 BEX=845269.9BEY=819434.5HBE= 35.0
 TEXT
 NBA= 176.0
 BEX=845298.9BEY=819406.4HBE= 35.0
 NBA= 177.0
 BEX=845341.7BEY=819452.4HBE= 35.0
 NBA= 178.0
 BEX=845326.6BEY=819464.5HBE= 35.0
 TEXT
 FUNG CHING MEM PRI SCH
 NBA= 179.0BSX=845185.4BSY=819568.3HBS= 35.0
 BEX=845166.6BEY=819545.1HBE= 35.0
 TEXT
 NBA= 180.0
 BEX=845183.1BEY=819533.3HBE= 35.0
 NBA= 181.0
 BEX=845227.6BEY=819580.1HBE= 35.0
 NBA= 182.0
 BEX=845195.6BEY=819606.3HBE= 35.0
 NBA= 183.0
 BEX=845182.1BEY=819592.8HBE= 35.0
 TEXT
 ST. ADNREW'S CHURCH
 NBA= 184.0BSX=845147.7BSY=819479.2HBS= 25.0
 BEX=845158.0BEY=819490.6HBE= 25.0
 TEXT

Annex B8-5

NBA= 185.0			
BEX=845134.0BEY=819508.8HBE= 25.0			
NBA= 186.0			
BEX=845138.6BEY=819513.5HBE= 25.0			
NBA= 187.0			
BEX=845126.0BEY=819536.3HBE= 25.0			
NBA= 188.0			
BEX=845109.4BEY=819538.8HBE= 25.0			
NBA= 189.0			
BEX=845091.9BEY=819519.0HBE= 25.0			
NBA= 190.0			
BEX=845147.7BEY=819479.3HBE= 25.0			
TEXT			
NAN FUNG PLAZA PODIUM			
NBA= 191.0BSX=845247.1BSY=819581.1HBS= 20.0			
BEX=845152.6BEY=819473.6HBE= 20.0			
TEXT			
NBA= 192.0			
BEX=845225.1BEY=819419.0HBE= 20.0			
NBA= 193.0			
BEX=845309.3BEY=819518.9HBE= 20.0			
TEXT			
TIN HA WAN VILLAGE			
NBA= 194.0BSX=845693.3BSY=819466.6HBS= 14.0			
BEX=845742.0BEY=819487.9HBE= 14.0			
TEXT			
NBA= 195.0			
BEX=845707.8BEY=819452.1HBE= 14.0			
TEXT			
NBA= 196.0			
BEX=845726.4BEY=819497.6HBE= 14.0			
TEXT			
NBA= 197.0BSX=845847.6BSY=819609.3HBS= 14.0			
BEX=845821.7BEY=819537.4HBE= 14.0			
NBA= 198.0			
BEX=845868.3BEY=819588.9HBE= 14.0			
TEXT			
NBA= 199.0			
BEX=845782.5BEY=819545.6HBE= 14.0			
TEXT			
NBA= 200.0BSX=845908.1BSY=819676.0HBS= 14.0			
BEX=845876.9BEY=819597.3HBE= 14.0			
NBA= 201.0			
BEX=845919.3BEY=819641.0HBE= 14.0			
NBA= 202.0			
BEX=845852.1BEY=819620.7HBE= 14.0			
TEXT			
OSCAR BY THE SEA			
NBA= 241.0BSX=845544.2BSY=818749.0HBS= 100.0			
BEX=845514.4BEY=818837.7HBE= 100.0			
TEXT			
NBA= 242.0			
BEX=845563.3BEY=818746.3HBE= 100.0			
TEXT			
NBA= 243.0			
BEX=845506.0BEY=818819.5HBE= 100.0			
TEXT			
NBA= 245.0BSX=845516.7BSY=818607.9HBS= 100.0			
BEX=845567.1BEY=818709.6HBE= 100.0			
NBA= 246.0			
BEX=845554.3BEY=818728.8HBE= 100.0			
NBA= 247.0			
BEX=845525.1BEY=818588.0HBE= 100.0			
NBA= 248.0			
BEX=845545.9BEY=818603.1HBE= 100.0			
NBA= 249.0			
BEX=845539.3BEY=818718.8HBE= 100.0			
TEXT			
NBA= 288.0BSX=846392.6BSY=816435.3HBS= 40.0			
BEX=846282.7BEY=816429.4HBE= 40.0			
TEXT			
NBA= 289.0			
BEX=846306.3BEY=816472.6HBE= 40.0			
NBA= 290.0			
BEX=846374.9BEY=816394.0HBE= 40.0			
TEXT			
NEXT MEDIA CO LTD			
NBA= 291.0BSX=846400.5BSY=816362.6HBS= 40.0			
BEX=846225.7BEY=816348.9HBE= 40.0			
TEXT			
NBA= 292.0			
BEX=846257.1BEY=816425.4HBE= 40.0			
NBA= 293.0			
BEX=846402.4BEY=816274.3HBE= 40.0			
TEXT			
AVERY DENNISON			
NBA= 294.0BSX=846404.4BSY=816250.7HBS= 40.0			
BEX=846304.3BEY=816164.3HBE= 40.0			
TEXT			
NBA= 295.0			
BEX=846351.4BEY=816272.3HBE= 40.0			
NBA= 296.0			
BEX=846371.1BEY=816140.7HBE= 40.0			
TEXT			
NEXT MEDIA APPLE DAILY			
NBA= 297.0BSX=846388.7BSY=816060.8HBS= 40.0			
BEX=846259.1BEY=815960.6HBE= 40.0			
TEXT			
NBA= 298.0			
BEX=846306.3BEY=816088.3HBE= 40.0			
NBA= 299.0			
BEX=846343.6BEY=815931.2HBE= 40.0			
TEXT			
YAN HING IND BLDG			
NBA= 300.0BSX=846329.8BSY=815911.5HBS= 40.0			
BEX=846219.8BEY=815899.8HBE= 40.0			
TEXT			
NBA= 301.0			
BEX=846243.4BEY=815952.8HBE= 40.0			
NBA= 302.0			
BEX=846302.3BEY=815862.4HBE= 40.0			
TEXT			
TVB CITY			
NBA= 303.0BSX=846284.6BSY=815801.4HBS= 40.0			
BEX=846107.9BEY=815561.8HBE= 40.0			
TEXT			
NBA= 304.0			
BEX=846194.3BEY=815823.0HBE= 40.0			
NBA= 305.0			
BEX=846217.9BEY=815563.8HBE= 40.0			
TEXT			
CHIAPHUA-SHINKO CENTRE			
NBA= 306.0BSX=846204.1BSY=817617.1HBS= 30.0			
BEX=846243.4BEY=817440.3HBE= 30.0			
TEXT			
NBA= 307.0			
BEX=846168.8BEY=817599.4HBE= 30.0			
NBA= 308.0			
BEX=846280.7BEY=817477.6HBE= 30.0			
TEXT			
WO MING COURT			
NBA= 309.0BSX=845680.7BSY=819623.4HBS= 80.0			
BEX=845623.9BEY=819647.6HBE= 80.0			
TEXT			

Annex B8-6

NBA= 310.0 BEX=845658.6BEY=819618.1HBE= 80.0	NBA= 325.0 BEX=845609.4BEY=818739.9HBE= 40.0
TEXT	NBA= 326.0BSX=845609.7BSY=818740.0HBS= 40.0 BEX=845604.8BEY=818794.0HBE= 40.0
NBA= 311.0BSX=845658.6BSY=819618.1HBS= 80.0 BEX=845630.3BEY=819667.5HBE= 80.0	TEXT VERTICAL BARRIER ON WAN PO RD FLYOVER (4m) NBA= 8.0BSX=845286.9BSY=819339.8HBS= 9.0 BEX=845380.8BEY=819240.5HBE= 12.0
TEXT INVERTED L-SHAPED BARRIER AT SB ROADSIDE (5.5m+2.5m) NBA= 1.0BSX=844902.9BSY=819664.1HBS= 30.0 BEX=844946.5BEY=819605.5HBE= 30.0	TEXT NBA= 9.0 BEX=845398.9BEY=819218.9HBE= 12.0
TEXT	TEXT Roadkerb at Flyover NBA= 10.0BSX=845398.9BSY=819218.9HBS= 9.2 BEX=845444.1BEY=819160.8HBE= 9.2
NBA= 2.0 BEX=845267.1BEY=819362.4HBE= 30.0	TEXT
TEXT	NBA= 11.0 BEX=845502.4BEY=819024.4HBE= 6.2
NBA= 3.0BSX=844903.2BSY=819663.8HBS= 13.0 BEX=844946.5BEY=819605.5HBE= 13.0	TEXT INVERTED L-SHAPED BARRIER AT CS RD (4.5m+2m) NBA= 327.0BSX=845441.9BSY=819270.3HBS= 20.0 BEX=845502.9BEY=819341.6HBE= 20.0
TEXT	TEXT FENCE WALLS OF TIN HA WAN VILLAGE (2m) NBA= 328.0BSX=845684.4BSY=819474.6HBS= 7.5 BEX=845721.5BEY=819512.1HBE= 7.5
NBA= 4.0 BEX=845267.1BEY=819362.4HBE= 13.0	TEXT
TEXT INVERTED L-SHAPED BARRIER AT CENTRAL DIVIDER (5.5m+2m) NBA= 5.0BSX=845129.4BSY=819454.0HBS= 20.0 BEX=845268.6BEY=819348.2HBE= 20.0	NBA= 329.0BSX=845790.2BSY=819530.5HBS= 7.5 BEX=845775.4BEY=819544.0HBE= 7.5
TEXT	NBA= 330.0 BEX=845805.1BEY=819573.7HBE= 7.5
VERTICAL BARRIER (4m) NBA= 6.0BSX=845267.6BSY=819361.7HBS= 9.0 BEX=845290.1BEY=819344.9HBE= 9.0	NBA= 331.0 BEX=845792.8BEY=819585.1HBE= 7.5
TEXT	NBA= 332.0 BEX=845888.5BEY=819685.1HBE= 7.5
NBA= 7.0BSX=845290.4BSY=819344.7HBS= 9.0 BEX=845391.2BEY=819255.1HBE= 9.0	NBA= 333.0 BEX=845912.9BEY=819693.4HBE= 7.5
TEXT	NBA= 334.0BSX=845912.9BSY=819693.4HBS= 7.5 BEX=845933.4BEY=819689.0HBE= 7.5
CREATIVE SECONDARY SCHOOL NBA= 312.0BSX=845603.8BSY=818793.8HBS= 40.0 BEX=845624.8BEY=818795.7HBE= 40.0	TEXT
TEXT	NBA= 335.0BSX=845228.9BSY=819415.3HBS= 7.0 BEX=845286.4BEY=819368.7HBE= 7.0
NBA= 313.0 BEX=845634.1BEY=818715.4HBE= 40.0	NBA= 336.0BSX=845286.4BSY=819368.7HBS= 7.0 BEX=845372.9BEY=819461.4HBE= 7.0
TEXT	TEXT Roadkerb NBA= 337.0BSX=845511.0BSY=818958.5HBS= 6.2 BEX=845629.8BEY=818823.1HBE= 6.2
NBA= 316.0BSX=845632.0BSY=818714.8HBS= 60.0 BEX=845640.9BEY=818702.7HBE= 60.0	TEXT
NBA= 317.0 BEX=845634.9BEY=818697.9HBE= 60.0	NBA= 338.0 BEX=845681.7BEY=818686.4HBE= 6.2
NBA= 318.0 BEX=845643.7BEY=818685.2HBE= 60.0	NBA= 339.0 BEX=845632.1BEY=818661.9HBE= 6.2
NBA= 319.0 BEX=845599.2BEY=818654.4HBE= 60.0	TEXT Roadkerb NBA= 340.0BSX=845688.1BSY=818671.4HBS= 6.2 BEX=845800.9BEY=818552.5HBE= 6.2
NBA= 320.0 BEX=845588.4BEY=818667.6HBE= 60.0	TEXT Podium of Oscar by the Sea NBA= 341.0BSX=845549.9BSY=818599.8HBS= 25.0 BEX=845577.7BEY=818718.8HBE= 25.0
TEXT	TEXT
NBA= 321.0 BEX=845595.0BEY=818672.1HBE= 60.0	NBA= 342.0 BEX=845577.2BEY=818749.9HBE= 25.0
TEXT	NBA= 343.0
NBA= 322.0BSX=845595.6BSY=818672.8HBS= 60.0 BEX=845594.6BEY=818687.6HBE= 60.0	
TEXT	
NBA= 323.0 BEX=845619.5BEY=818704.6HBE= 60.0	
TEXT	
NBA= 324.0BSX=845619.4BSY=818704.4HBS= 40.0 BEX=845614.3BEY=818740.9HBE= 40.0	

Annex B8-7

BEX=845565.5BEY=818790.4HBE= 25.0
 NBA= 344.0
 BEX=845544.5BEY=818820.7HBE= 25.0
 NBA= 345.0
 BEX=845515.3BEY=818842.6HBE= 25.0

TEXT
 Central divider
 NBA= 346.0BSX=845499.3BSY=819020.8HBS= 6.2
 BEX=845526.8BEY=818962.9HBE= 6.2

TEXT
 NBA= 347.0
 BEX=845641.1BEY=818829.8HBE= 6.2

TEXT
 NBA= 348.0BSX=845641.1BSY=818829.8HBS= 6.2
 BEX=845699.1BEY=818679.3HBE= 6.2

TEXT
 Area 86 Development
 NBA= 349.0BSX=846131.8BSY=817367.4HBS= 120.0
 BEX=846223.2BEY=817272.4HBE= 120.0

TEXT
 NBA= 350.0
 BEX=846221.4BEY=817298.2HBE= 120.0

TEXT
 NBA= 351.0BSX=846221.4BSY=817298.2HBS= 120.0
 BEX=846107.8BEY=817346.1HBE= 120.0

TEXT
 NBA= 356.0BSX=846082.3BSY=817361.6HBS= 15.0
 BEX=846197.1BEY=817393.6HBE= 15.0
 NBA= 357.0
 BEX=846220.1BEY=817322.3HBE= 15.0
 NBA= 358.0
 BEX=846225.8BEY=817254.1HBE= 15.0
 NBA= 359.0
 BEX=846211.9BEY=817229.6HBE= 15.0
 NBA= 360.0
 BEX=846193.0BEY=817211.5HBE= 15.0
 NBA= 361.0
 BEX=846200.4BEY=817172.9HBE= 15.0
 NBA= 362.0
 BEX=846211.9BEY=817151.6HBE= 15.0
 NBA= 363.0
 BEX=846224.2BEY=817142.6HBE= 15.0

NBA= 364.0BSX=846224.2BSY=817142.6HBS= 15.0
 BEX=846225.0BEY=817074.6HBE= 15.0

TEXT
 Central divider
 NBA= 365.0BSX=844871.6BSY=819620.0HBS= 6.8
 BEX=844933.8BEY=819588.6HBE= 6.8

TEXT
 NBA= 366.0BSX=844933.8BSY=819588.6HBS= 6.8
 BEX=845129.3BEY=819455.2HBE= 6.8

RETN 0.0

TEXT
 Filename: 0036286-1.rec

TEXT
 3 NFP1
 HRA= 26.5HRG=
 21.5OPX=845194.3OPY=819473.6AN1= 144.0AN2=
 250.0
 GO .0
 RPT= 8.0

TEXT

5 LCN1
 HRA= 26.5HRG=
 25.0OPX=845451.4OPY=819398.3AN1= 180.0AN2=
 280.0
 GO .0
 RPT= 9.0

TEXT
 6 YUKMC1
 HRA= 6.5HRG=
 1.5OPX=845673.4OPY=819544.6AN1= 47.0AN2= 139.0
 GO .0
 RPT= 7.0

TEXT
 8 THWV1
 HRA= 4.5OPX=845833.8OPY=819604.7AN1=
 230.0AN2= 45.0
 GO .0
 HPF= 3.0RPT= 2.0

TEXT
 9 MTE1
 HRA= 6.5OPX=845775.6OPY=819664.6AN1=
 122.0AN2= 210.0
 GO .0
 HPF= 15.0RPT= 7.0

TEXT
 10 OS1
 HRA= 26.5HRG=
 25.0OPX=845560.4OPY=818723.4AN1= 19.0AN2=
 105.0
 GO .0
 HPF= 14.0RPT= 9.0

TEXT
 15 A86R1
 HRA= 26.5HRG=
 21.5OPX=846206.5OPY=817112.9AN1= 350.0AN2=
 110.0
 GO .0
 HPF= 15.0RPT= 9.0

RETN 0.0

Annex C

Landfill Gas Monitoring Results at SENT Landfill

Annex C Landfill Gas Monitoring Results at SENT Landfill

	GP-1		GP-2 (deep)		GP2 (shallow)		GP-3 (deep)		GP-3 (shallow)		GP-4 (deep)		GP-4 (shallow)		GP-5 (deep)		GP-5 (shallow)	
	CH ₄	CO ₂	CH ₄	CO ₂	CH ₄	CO ₂	CH ₄	CO ₂	CH ₄	CO ₂	CH ₄	CO ₂	CH ₄	CO ₂	CH ₄	CO ₂	CH ₄	CO ₂
Jan-06	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Feb-06	0.0	1.3	0.0	0.4	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.2	0.0	1.9	0.0	0.0	0.0	1.0
Mar-06	0.0	0.8	0.0	1.8	0.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0
Apr-06	0.0	1.3	0.0	0.2	0.1	2.3	0.0	0.0	0.0	0.1	0.0	0.0	0.0	2.3	0.0	0.0	0.0	0.0
May-06	0.0	0.0	0.0	1.8	0.0	2.5	0.0	0.0	0.0	0.1	0.0	12.5	0.0	3.4	0.0	0.0	0.0	1.0
Jun-06	0.0	1.6	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	4.3	0.0	0.0	0.0	1.6
Jul-06	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.9	0.0	0.1	0.0	1.2
Aug-06	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.1	0.0	0.0	0.0	0.0	0.0	4.4	0.0	0.0	0.0	1.9
Sep-06	0.0	0.1	0.0	0.0	0.0	2.9	0.0	0.0	0.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8
Oct-06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Nov-06	0.0	0.0	0.0	2.2	0.0	3.5	0.0	0.0	0.0	0.0	0.0	8.1	0.0	3.1	0.0	0.0	0.0	0.0
Dec-06	0.0	0.0	0.0	2.2	0.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Jan-07	0.0	0.0	0.0	2.2	0.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0
Feb-07	0.0	1.6	0.0	2.3	0.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0
Mar-07	0.0	1.2	0.0	2.4	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0
Apr-07	0.0	2.4	0.0	2.2	0.0	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0
May-07	0.0	0.0	0.0	0.0	0.0	2.4	0.0	0.0	0.0	0.0	0.0	12.6	0.0	0.1	0.0	0.0	0.0	0.0
Jun-07	0.0	2.8	0.0	0.0	0.0	2.8	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Jul-07	0.0	3.1	0.0	0.1	0.0	3.1	0.0	0.0	0.0	0.0	0.0	0.5	0.0	5.2	0.0	0.0	0.0	1.3
Min	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Max	0.0	3.1	0.0	2.4	0.1	3.5	0.0	0.3	0.0	3.3	0.0	12.6	0.1	5.2	0.0	0.1	0.1	1.9
Average	0.0	0.9	0.0	1.0	0.0	2.2	0.0	0.0	0.0	0.2	0.0	1.8	0.0	1.6	0.0	0.0	0.0	0.5

	GP-6		GP-7		GP-8		GP-9		GP-10		GP-11		GP-15	
	CH ₄	CO ₂	CH ₄	CO ₂	CH ₄	CO ₂	CH ₄	CO ₂	CH ₄	CO ₂	CH ₄	CO ₂	CH ₄	CO ₂
Jan-06	0.0	0.5	0.0	0.1	0.0	1.1	0.0	1.4	0.0	0.0	0.0	11.5	0.0	0.0
Feb-06	0.0	0.0	0.0	0.5	0.0	2.9	0.0	9.6	0.0	9.1	0.0	13.4	0.0	0.0
Mar-06	0.0	0.0	0.0	0.2	0.0	0.0	0.0	3.6	0.1	0.0	0.1	0.4	0.0	0.0
Apr-06	0.0	1.3	0.0	0.2	0.0	1.1	0.0	0.0	0.0	0.0	0.0	8.8	0.0	0.0
May-06	0.0	1.7	0.0	0.0	0.0	2.1	0.0	1.9	0.0	10.8	0.0	3.5	0.0	0.0
Jun-06	0.0	1.0	0.0	0.0	0.0	0.0	0.0	4.9	0.0	0.0	0.0	0.4	0.0	0.0
Jul-06	0.0	0.7	0.1	0.6	0.0	0.0	0.0	0.1	0.0	16.1	0.0	15.1	0.0	0.0
Aug-06	0.0	1.8	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	16.0	0.0	0.0
Sep-06	0.0	2.3	0.0	0.0	0.0	0.0	0.0	10.9	0.0	14.9	0.0	0.5	0.0	0.0
Oct-06	0.0	1.5	0.0	0.0	0.0	5.2	0.0	0.2	0.0	21.1	0.0	0.1	0.0	0.0
Nov-06	0.0	1.7	0.0	0.0	0.0	1.9	0.0	12.3	0.0	12.0	0.0	14.2	0.0	0.0
Dec-06	0.0	2.6	0.0	0.2	0.0	2.6	0.0	3.1	0.0	9.0	0.0	13.0	0.0	0.0
Jan-07	0.0	1.2	0.0	0.3	0.0	1.9	0.0	9.6	0.0	8.3	0.0	11.6	0.0	0.0
Feb-07	0.0	0.0	0.0	0.1	0.0	2.8	0.0	10.2	0.0	3.7	0.0	0.1	0.0	0.0
Mar-07	0.0	1.3	0.0	0.6	0.0	0.7	0.0	3.6	0.0	5.7	0.0	13.4	0.0	0.0
Apr-07	0.0	1.1	0.0	0.9	0.0	1.1	0.0	10.4	0.0	6.4	0.0	11.4	0.0	0.0
May-07	0.0	1.6	0.0	0.0	0.0	0.0	0.0	1.5	0.0	2.3	0.0	11.9	0.0	0.2
Jun-07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	15.0	0.0	0.5	0.0	0.0
Jul-07	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
Min	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Max	0.0	2.6	0.1	0.9	0.0	5.2	0.0	12.3	0.1	21.1	0.1	16.0	0.0	0.2
Average	0.0	1.1	0.0	0.2	0.0	1.2	0.0	4.5	0.0	7.1	0.0	7.7	0.0	0.0

	P-1		P-2		P-3		P-4		P-5		P-6		P-7		P8		P-9	
	CH ₄	CO ₂	CH ₄	CO ₂	CH ₄	CO ₂	CH ₄	CO ₂	CH ₄	CO ₂	CH ₄	CO ₂	CH ₄	CO ₂	CH ₄	CO ₂	CH ₄	CO ₂
Jan-06	0.0	9.6	0.0	5.9	0.0	7.2	0.0	16.0	0.0	12.5	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0
Feb-06	0.0	0.1	0.0	8.3	0.0	11.6	0.0	17.7	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
Mar-06	0.1	11.7	0.1	7.6	0.0	10.9	0.0	15.8	0.0	13.8	0.0	0.3	0.1	0.0	0.0	0.0	0.0	0.0
Apr-06	0.0	10.9	0.0	7.8	0.0	9.6	0.0	12.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.1
May-06	0.0	0.0	0.0	9.0	0.0	0.0	0.0	12.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Jun-06	0.0	1.2	0.0	9.2	0.0	16.8	0.0	12.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Jul-06	0.0	15.0	0.0	2.7	0.0	9.3	0.0	16.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Aug-06	0.0	0.0	0.0	0.0	0.0	0.0	0.1	12.5	0.0	0.1	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
Sep-06	0.0	11.9	0.0	4.2	0.0	9.1	0.0	15.4	0.0	2.7	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
Oct-06	0.0	12.5	0.0	4.8	0.0	0.1	0.0	18.2	0.0	0.2	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0
Nov-06	0.0	4.3	0.0	10.2	0.0	6.1	0.0	19.2	0.0	9.7	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0
Dec-06	0.0	10.8	0.0	6.3	0.0	8.3	0.0	18.1	0.0	11.7	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
Jan-07	0.0	8.0	0.0	6.5	0.0	7.3	0.0	16.0	0.0	8.4	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0
Feb-07	0.0	9.4	0.0	0.0	0.0	7.5	0.0	16.6	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.1
Mar-07	0.0	12.5	0.0	4.0	0.0	6.4	0.0	13.4	0.0	13.4	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
Apr-07	0.0	12.4	0.0	5.1	0.0	10.0	0.0	13.3	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
May-07	0.0	13.3	0.0	6.1	0.0	8.5	0.0	15.7	0.0	9.1	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.1
Jun-07	0.0	7.5	0.0	0.3	0.0	0.9	0.0	17.6	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.1
Jul-07	0.0	0.0	0.1	0.0	0.0	0.0	0.0	6.2	0.0	0.0	0.1	0.6	0.0	0.0	0.0	0.0	0.0	0.0
Min	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Max	0.1	15.0	0.1	10.2	0.0	16.8	0.1	19.2	0.0	13.8	0.1	1.7	0.1	0.0	0.0	0.0	0.0	0.2
Average	0.0	8.0	0.0	5.2	0.0	6.8	0.0	15.0	0.0	4.3	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0

Annex D

Ecological Resources of the Study Area

Table 1 Bird Species Recorded within the Study Area and Area in the Vicinity (from Ecological Study for SENT Landfill Extension ⁽¹⁾ and Hong Kong Bird Report Year 1990-2000 ⁽²⁾)

Common Name	Scientific Name	Commonness	Status	Location
Artic Warbler	<i>Phylloscopus borealis</i>	U	PM	SENT
Asian Paradise Flycatcher	<i>Terpsiphone paradise</i>	R	PM	Clear Water Bay Peninsula*
Barn Swallow	<i>Hirundo rustica</i>	CW	SV	SENT
Black Bittern	<i>Dupetor flavicollis</i>	VR	PM	Clear Water Bay Peninsula*
Black Bird	<i>Mandarinus</i>	U	WV	Clear Water Bay Peninsula*
Black Drongo	<i>Dicrurus macrocercus</i>	CW	SV	Tseung Kwan O Industrial Estate*
Black-eared Kite	<i>Milvus lineatus</i>	CW	R, WV	SENT
Black-faced Laughing Thrush	<i>Garrulax perspicillatus</i>	CW	R	Clear Water Bay Peninsula*
Black-necked Starling	<i>Sturnus nigricollis</i>	CW	R	Clear Water Bay Peninsula*
Black-winged Stilt	<i>Himantopus himantopus</i>	R	PM, WV	Tseung Kwan O*
Bright-capped Cisticola	<i>Cisticola exilis</i>	VR	WV	Clear Water Bay Peninsula*
Chinese Bulbul	<i>Pycnonotus sinensis</i>	CW	R	Clear Water Bay Peninsula*
Chinese Francolin	<i>Francolinus pintadeanus</i>	CW	R	SENT
Common Tailorbird	<i>Orthotomus sutorius</i>	CW	R	Clear Water Bay Peninsula*
Crested Bulbul	<i>Pycnonotus jocosus</i>	CW	R	Clear Water Bay Peninsula*
Crested Myna	<i>Acridotheres cristatellus</i>	CW	R	SENT, Clear Water Bay Peninsula
Daurian Redstart	<i>Phoenicurus auroreus</i>	U	WV	Clearwater Bay
Dusky Warbler	<i>Phylloscopus fuscatus</i>	U	WV	Clearwater Bay
Eurasian Eagle Owl	<i>Bubo bubo</i>	VR	R	Tseung Kwan O
Forest Wagtail	<i>Dendronanthus indicus</i>	R	PM	Clear Water Bay Peninsula*
Greater Necklaced Laughing Thrush	<i>Garrulax pectoralis</i>	R	R	Clear Water Bay Peninsula*
Grey Heron	<i>Ardea cinerea</i>	CW	WV	Tseung Kwan O*
House Swift	<i>Apus nipalensis</i>	CW	R	SENT
Japanese White Eye	<i>Zosterops japonica</i>	CW	R	Clear Water Bay Peninsula
Jungle Crow	<i>Corvus macrorhynchus</i>	CW	R	Clear Water Bay Peninsula
Lesser Coucal	<i>Centropus bengalensis</i>	U	R	SENT
Light-vented Bulbul	<i>Pycnonotus sinensis</i>	CW	R	SENT
Long-tailed Tailorbird	<i>Orthotomus sutorius</i>	CW	R	SENT
Magpie	<i>Pica pica</i>	CW	R	Clear Water Bay Peninsula
Magpie Robin	<i>Copsychus saularis</i>	CW	R	Clear Water Bay Peninsula
Masked Laughing Thrush	<i>Garrulax chinensis</i>	CW	R	SENT
Olive-backed Pipit	<i>Anthus hodgsoni</i>	CW	PM, WV	Clear Water Bay Peninsula*
Pacific Reef Egret	<i>Egretta sacra</i>	U	R	SENT
Pacific Swift	<i>Apus pacificus</i>	CW	SV, WV	SENT
Plain Prinia	<i>Prinia inornata</i>	U	R	Clear Water Bay Peninsula
Red-vented Bulbul	<i>Pycnonotus aurigaser</i>	CW	R	Clear Water Bay Peninsula
Red-whiskered Bulbul	<i>Pycnonotus jocosus</i>	CW	R	SENT
Richard's Pipit	<i>Anthus richardi</i>	CW	R, PM, WV	SENT
Rufous-backed	<i>Lanius schach</i>	CW	R	Clear Water Bay Peninsula

(1) EPD (2005). *Ecological Study for SENT Landfill Extension - Final Report*. Prepared by Hong Kong Baptist University

(2) Hong Kong Bird Watching Society (1990 - 2000). *Hong Kong Bird Watching Annual Report*.

Common Name	Scientific Name	Commonness	Status	Location
Shrike				
Rufous-tailed Robin	<i>Luscinia sibilans</i>	R	PM, WV	Clear Water Bay Peninsula*
Sooty-headed Bulbul	<i>Pycnonotus aurigaster</i>	CW	R	SENT
Spotted Dove	<i>Streptopelia chinensis</i>	CW	R	SENT
Whiskered Tern	<i>Chlidonias hybridus</i>	R	PM	Tseung Kwan O*
White-bellied Sea Eagle	<i>Haliaeetus leucogaster</i>	U	R	SENT
White Wagtail	<i>Motacilla alba</i>	CW	WV	Clear Water Bay Peninsula*
Yellow-bellied Prinia	<i>Prinia flaviventris</i>	CW	R	SENT, Clear Water Bay Peninsula
Zitting Cisticola	<i>Cisticola juncidis</i>	U	PM, WV	Tseung Kwan O Industrial Estate*

*Sighting records reported in the Hong Kong Bird Report 1990-2000.

Commonness & Distribution: CW = common and widespread, U = uncommon and localised, R = rare and localized, VR = very rare

Main Status: R = Resident, WV = Winter Visitor, PM = Passage Migrant, SV = Summer Visitor

Table 2 Plant Species Recorded Within the Study Area

Species	Growth Form	Origin	Status	Relative Abundance				
				Plantation	Shrubland	Grassland	Seasonal Stream	Disturbed/ Developed Area
<i>Acacia auriculiformis</i>	T	E	C	F				A
<i>Acacia confusa</i>	T	E	VC	D	S			
<i>Acacia Mangium</i>	T	E	VC	F				
<i>Adiantum capillus</i>	F	N	VC					
<i>Ageratum conyzoides</i>	H	N	VC		F			
<i>Albizia lebbek</i>	T	N	C	O				O
<i>Alocasia macrorrhiza</i>	H	N	VC				F	
<i>Alpinia katsumadai</i>	H	N	C		S	S		
<i>Antirrhoea chinensis</i>	S	N	C					
<i>Aporusa dioica</i>	S	N	VC				F	
<i>Archidendron clypearis</i>	S	N	VC		F			
<i>Archidendron lucidum</i>	S	N	VC		F			
<i>Alyxia sinensis</i>	C	N	VC					
<i>Baeckea frutescens</i>	S	N	VC		F			
<i>Bauhinia blackeana</i>	T	N	VC					O
<i>Bauhinia galpinii</i>	C	N	C					
<i>Berchemia racemosa</i>	C	N	C		F			
<i>Bidens bipinnata</i>	H	N	VC	O	F	F	F	
<i>Breynia fruticosa</i>	S	N	VC	O	F	F		
<i>Bridelia tomentosa</i>	S	N	VC		F	F		
<i>Caesalpinia vernalis</i>	C	N	VC					
<i>Callicarpa cathayana</i>	S	N	C					
<i>Canthium dicoccum</i>	S	N	C					
<i>Carallia brachiata</i>	S	N	C					
<i>Carex chinensis</i>	G	N	C		F	F	S	F

Species	Growth Form	Origin	Status	Relative Abundance				
				Plantation	Shrubland	Grassland	Seasonal Stream	Disturbed/ Developed Area
<i>Cassytha filiformis</i>	C	N	VC					
<i>Casuarina equisetifolia</i>	T	E	VC	O				O
<i>Celtis sinensis</i>	T	N	C		S			
<i>Cerbera manghas</i>	T	E	C		S			
<i>Chrysanthemum indicum</i>	S	N	C		F			
<i>Cirsium japonicum</i>	H	N	C		O	O		
<i>Clerodendrum fortunatum</i>	S	N	VC		F			
<i>Clerodendrum inerme</i>	S	N	C					
<i>Cratoxylum cochinchinensis</i>	S	N	VC		A			
<i>Cyperus rotundus</i>	G	N	VC		F	O		
<i>Dalbergia benthami</i>	C	N	C		F			
<i>Dalbergia millettii</i>	C	N	VC		F			
<i>Daphniphyllum calycinum</i>	T	N	C					
<i>Delonix regia</i>	T	E	VC					O
<i>Desmos cochinchinensis</i>	C	N	VC					
<i>Dianella ensifolia</i>	H	N	VC			F		
<i>Dicranopteris linearis</i>	F	N	VC		O			
<i>Digitaria sanguinalis</i>	G	N	C			F		
<i>Dimocarpus longan</i>	T	N	C					
<i>Diospyros vaccinioides</i>	S	N	CP		F			
<i>Duranta repens</i>	S	E	C		F	O		O
<i>Embelia laeta</i>	C	N	VC		F	O		
<i>Embelia ribes</i>	C	N	C		F	O		
<i>Erigeron floribundus</i>	H	N	VC		F	F		
<i>Eurya japonica</i>	S	N	VC		F			
<i>Ficus microcapus</i>	T	N	VC	F	O			F

Species	Growth Form	Origin	Status	Relative Abundance				
				Plantation	Shrubland	Grassland	Seasonal Stream	Disturbed/ Developed Area
<i>Ficus superba</i>	T	N	VC		O			
<i>Ficus hispida</i>	T	N	VC					O
<i>Ficus variolosa</i>	S	N	VC		F			
<i>Gardenia jasminoides</i>	S	N	VC		F			
<i>Glochidion eriocarpum</i>	S	N	C		F			
<i>Glochidion zeylancium</i>	S	N	C		F	O		
<i>Gnetum montanum</i>	C	N	C		F	O		
<i>Hedyotis acutangula</i>	H	N	VC		F	O		
<i>Ilex asprella</i>	S	N	VC		F	O		
<i>Ilex pubescens</i>	S	N	C		F			
<i>Indocalamus sinicus</i>	S	N	VC			O		
<i>Ipomoea cairica</i>	C	N	VC				F	O
<i>Ischaemum aristatum</i>	G	N	VC		F	A		
<i>Itea chinensis</i>	T	N	C		F			
<i>Lagerstroemia speciosa</i>	T	E	VC					
<i>Lantana camara</i>	S	E	VC	O	F	O	F	O
<i>Leucaena leucocephala</i>	S	N	VC	F				F
<i>Ligustrum sinensis</i>	S	N	VC					
<i>Litsea cubeba</i>	T	N	C		F			
<i>Litsea glutinosa</i>	T	N	VC		F			
<i>Litsea rotundifolia</i>	S	N	VC		F			
<i>Livistona chinensis</i>	P	N	VC		O			O
<i>Lophostemon conferta</i>	T	E	VC					
<i>Lygodium dichotomum</i>	C	N	VC		F		O	
<i>Macaranga tanarius</i>	T	N	VC		F			
<i>Maesa perlarius</i>	S	N	VC					
<i>Mallotus paniculatus</i>	T	N	C		O			

Species	Growth Form	Origin	Status	Relative Abundance				
				Plantation	Shrubland	Grassland	Seasonal Stream	Disturbed/ Developed Area
<i>Melastoma candidum</i>	S	N	VC		F	F		
<i>Melia azedarach</i>	T	E	C	O				
<i>Melodinus monogynus</i>	C	N	C					
<i>Michelia alba</i>	T	E	C					
<i>Microcos paniculata</i>	S	N	C		F			
<i>Mikania micrantha</i>	C	E	VC	O	F		F	
<i>Millettia reticulata</i>	C	N	VC		F			
<i>Mimosa pudica</i>	S	N	VC	O	F	F	F	F
<i>Miscanthus sinensis</i>	G	N	VC		F	F	F	F
<i>Morus alba</i>	S	N	C					
<i>Mussaenda erosa</i>	S	N	VC					
<i>Neyraudia arundinacea</i>	G	N	VC		F	F		F
<i>Opuntia dillenii</i>	S	N	C		S			
<i>Ormosia emarginata</i>	S	N	C					
<i>Paederia scandens</i>	C	N	C				F	
<i>Panicum maximum</i>	G	N	C		O			O
<i>Paspalum conjugatum</i>	G	N	C		F			F
<i>Phoenix hanceana</i>	P	N	C		S			
<i>Phyllanthus emblica</i>	T	N	C		F			
<i>Phyllanthus cochinchinensis</i>	S	N	VC		O		F	
<i>Pinus eliottii</i>	T	E	C		S			
<i>Psychotria rubra</i>	S	N	VC		O			
<i>Psychotria serpens</i>	C	N	VC		F			
<i>Rhapis excelsa</i>	S	N	VC		F			O
<i>Rhaphiolepis indica</i>	S	N	VC		A	O		
<i>Rhodomyrtus tomentosa</i>	S	N	VC		A	O		

Species	Growth Form	Origin	Status	Relative Abundance				
				Plantation	Shrubland	Grassland	Seasonal Stream	Disturbed/ Developed Area
<i>Rhus chinensis</i>	S	N	VC		F	F		
<i>Rhus succedanea</i>	S	N	VC		F	F	F	
<i>Rhynchelytrum repens</i>	G	N	VC		F	F		
<i>Rourea microphylla</i>	C	N	C					
<i>Sapium discolor</i>	S	N	C		F			
<i>Sapium sebiferum</i>	S	N	C		F			
<i>Schefflera octophylla</i>	S	N	VC		F		O	F
<i>Scleria harlandi</i>	Se	N	VC		F			
<i>Smilax china</i>	C	N	VC		F			
<i>Solanum nigrum</i>	H	N	VC					O
<i>Sterculia lanceolata</i>	T	N	C		S			
<i>Strophanthus divaricatus</i>	C	N	VC					
<i>Tetracera asiatica</i>	C	N	VC					
<i>Thespesia populnea</i>	T	N	C					
<i>Tricalysia dubia</i>	S	N	VC					
<i>Wedelia chinensis</i>	C	N	VC		S		O	O
<i>Wikstroemia chinensis</i>	S	N	VC		F	F		
<i>Zanthoxylum avicennae</i>	S	N	VC	O	F			
<i>Zanthoxylum nitidum</i>	S	N	VC		F			
<i>Zingiber officinale</i>	H	N	C		O		O	
Total no. of Species				14	80	30	12	22

Abundance: A=Abundant; F=Frequent; O=Occasional; S=Scarce

Status: C=Common; VC=Very Common; P=Protected

Plant Form: G=Grass; Climber; H=Herb; P=Palm; S=Shrub; T=Tree, Se=Sedge

Origin: N=Native; E=Exotic

Table 3 *Mammal Species Recorded Within the Study Area in Dry Season*

Common Name	Scientific Name	Status	Study Area			
			Plantation	Shrubland	Grassland	Disturbed/ Developed Area
Japanese Pipistrelle	<i>Pipistrellus abramus</i>	Abundance		1		
Tanezumi Rat	<i>Rattus tanezumi</i>	Abundance		3		
Wild Boar	<i>Sus scrofa</i>	Common			Tracks	Tracks

Table 4 *Mammal Species Recorded Within the Study Area in Wet Season*

Common Name	Scientific Name	Status	Study Area			
			Plantation	Shrubland	Grassland	Disturbed/ Developed Area
Japanese Pipistrelle	<i>Pipistrellus abramus</i>	Abundance		1		4
Brown Noctule Bat	<i>Nyctalus noctula</i>	Common				1
Wild Boar	<i>Sus scrofa</i>	Common			Tracks	Tracks

Table 5 Bird Species Recorded within the Study Area

Common Name	Species Name	Commonness	Status in Hong Kong	Habitats Recorded in Dry Season	Habitats Recorded in Wet Season
Barn Swallow	<i>Hirudo rustica</i>	CW	SV, PM		S, G, D
Black Drongo	<i>Dicrurus macrocercus</i>	CW	SV		G
Black Kite	<i>Milvus lineatus</i>	CW	R, WV	S, P, G, D	S, P, G, D, C
Black-collared Starling	<i>Sturnus nigricollis</i>	CW	R	P, D	S, P, D
Black-crowned Night Heron	<i>Nycticorax nycticorax</i>	U	R	D	
Black-faced Bunting	<i>Emberiza spodocephala</i>	CW	Sh#, PM	WV, S	
	<i>Urocissa</i>	CW	R	P	G, D
Blue Magpie	<i>erythrorhyncha</i>				
Blue Rock Thrush	<i>Monticola solitarius</i>	U	WV, PM	G	
	<i>Myiophoneus caeruleus</i>	CW	R	S	
Blue Whistling Thrush	<i>caeruleus</i>				
Brown Hawk Owl	<i>Ninox scutulata</i>	VR	PM		S
Brown Shrike	<i>Lanius cristatus</i>	U	PM		G
Chinese Bulbul	<i>Pycnonotus sinensis</i>	C	R	S, G, P, D	S, G, P, D
	<i>Francoelinus pintadeanus</i>	CW	R		G
Chinese Francolin	<i>pintadeanus</i>				
Common Black Bird	<i>Turdus merula</i>	U	WV, PM	P, D	
Common Buzzard	<i>Buteo buteo</i>	U	WV	S, G	
Common Kestrel	<i>Falco tinnunculus</i>	U	WV, PM	G	
Common Kingfisher	<i>Alcedo atthis</i>	CW	R		C
Common Koel	<i>Eudynamis scolopacea</i>	CW	R		S
Common Magpie	<i>Pica pica</i>	CW	R	S, P, D	P, D
Common Sandpiper	<i>Actitis hypoleucos</i>	CW	WV, PM		C
Common Tailorbird	<i>Orthotomus sutorius</i>	CW	R	S, P, D	S, D
	<i>Acridotheres cristatellus</i>	CW	R	S, D	S, P, G, D
Crested Myna	<i>cristatellus</i>				
Daurian Redstart	<i>Phoenicurus aureoreus</i>	U	WV	S, P, G, D	
Dusky Warbler	<i>Phylloscopus fuscatus</i>	U	WV, PM	S, P, D	
Fork-tailed Sunbird	<i>Aethopyga christinae</i>	U	R		
Great Tit	<i>Parus major</i>	CW	R	P	
Greater Coucal	<i>Centropus sinensis</i>	CW	R	S	S
Grey Wagtail	<i>Motacilla cinerea</i>				G
Grey-backed Thrush	<i>Turdus hortulorum</i>	U	WV	P	
Hwamei	<i>Garrulax canorus</i>	U	R	G,	G
Japanese White-eye	<i>Zosterops japonicus</i>	CW	R, WV	S, P, G, D	P, G, D
Large-billed Crow	<i>Corvus macrorhynchos</i>	CW	R	S	P, G
Large Hawk Cuckoo	<i>Cuculus sparverioides</i>	U	SV		
Light-vented Bulbul	<i>Pycnonotus sinensis</i>	CW	R	S, P, G, D	S, P, G, D
Little Bunting	<i>Emberiza pusilla</i>	U	WV, PM	S	
Long-tailed Shrike	<i>Lanius schach</i>	CW	R	S, G	G
Masked Laughing Thrush	<i>Garrulax perspicillatus</i>	CW	R	S,	P
Olive-backed Pipit	<i>Anthus hodgsoni</i>	CW	WV, PM	S, D	
Oriental Magpie		CW	R	S, P	P, D
Robin	<i>Copsychus saularis</i>				
Oriental Turtle Dove	<i>Streptopelia orientalis</i>	CW	WV	P, G	
Pacific Swift	<i>Apus pacificus</i>	U	R		
Plain Prinia	<i>Prinia inornatus</i>	U	R	S, G, D	S, G, D
Plaintive Cuckoo	<i>Cacomantis merulinus</i>	U	SV		G
Red-whiskered Bulbul	<i>Pycnonotus jocosus</i>	CW	R	S, P, D	S, P, G, D
Richard's Pipit	<i>Anthus richardi</i>	CW	WV, PM	S, G	S, G
Scaly-breasted Munia	<i>Lonchura punctulata</i>	U	R	P	D
Sooty-headed Bulbul	<i>Pycnonotus aufragaster</i>	CW	R	S, G	S, G

Common Name	Species Name	Commonness	Status in Hong Kong	Habitats Recorded in Dry Season	Habitats Recorded in Wet Season
Spotted Dove	<i>Streptopelia chinensis</i>	CW	R	S, P, D	S, P, D
Tree Sparrow	<i>Passer montanus</i>	CW	R		S, P, D
White Wagtail	<i>Motacilla alba</i>	CW	WV, PM	S, P, G, D	S, P, G, D
White-bellied Sea Eagle	<i>Haliaeetus leucogaster</i>	U	R	G, D	G
White-rumped Munia	<i>Lonchura striata</i>	CW	R	S, P, G, D	S
Yellow-bellied Prinia	<i>Prinia flaviventris</i>	CW	R	S, G, D	S, P, G
Yellow-browed Warbler	<i>Phylloscopus inornatus</i>	CW	WV, PM	S, P, G,	
Zitting Cisticola	<i>Cisticola juncidis</i>	U	WV, PM	G	
Total Species				41	36

Habitats: S = Shrubland, P = Plantation, G = Grassland, D = Developed Area, C = Sandy Shore,

Commonness & Distribution: CW = common and widespread, U = uncommon and localised, R = rare and localized, VR = very rare

Main Status: R = Resident, WV = Winter Visitor, PM = Passage Migrant

Table 6 *Bird Species Recorded Quantitatively within Study Area in Dry Season*

Common Name	Species Name	Study Area			
		Plantation	Shrubland	Grassland	Disturbed/ Developed Area
Black Kite	<i>Milvus migrans</i>	5	81	17	13
Black-collared Starling	<i>Sturnus nigrocollis</i>	1	0	0	6
Black-faced Bunting	<i>Emberiza spodocephala</i>	0	6	0	0
Blue Whistling Thrush	<i>Myiophonus caeruleus</i>	0	1	0	0
Chinese Bulbul	<i>Pycnonotus sinensis</i>	8	61	11	11
Common Black Bird	<i>Turdus merula</i>	2	0	0	1
Common Buzzard	<i>Buteo buteo</i>	0	2	1	0
Common Magpie	<i>Pica pica</i>	1	1	0	3
Common Tailorbird	<i>Orthotomus sutorius</i>	4	3	0	1
Crested Myna	<i>Acridotheres cristatellus</i>	0	8	0	21
Daurian Redstart	<i>Phoenicurus auroreus</i>	1	3	2	1
Dusky Warbler	<i>Phylloscopus fuscatus</i>	2	4	0	4
Great Tit	<i>Parus major</i>	2	0	0	0
Greater Coucal	<i>Centropus sinensis</i>	0	1	0	0
Grey-backed Thrush	<i>Turdus hortulorum</i>	1	0	0	0
Hwamei	<i>Garrulax canorus</i>	0	0	2	0
Japanese White-eye	<i>Zosterops japonicus</i>	3	7	6	7
Large-billed Crow	<i>Corvus macrorhynchos</i>	0	5	0	0
Long-tailed Shrike	<i>Lanius schach</i>	0	3	1	0
Magpie Robin	<i>Copsychus saularis</i>	1	1	0	0
Masked Laughing Thrush	<i>Garrulax perspicillatus</i>	0	8	0	0
Olive-backed Pipit	<i>Anthus hodgsoni</i>	0	3	0	3
Plain Prinia	<i>Prinia inornatus</i>	0	2	5	2

Common Name	Species Name	Study Area			
		Plantation	Shrubland	Grassland	Disturbed/ Developed Area
Red-vented Bulbul	<i>Pycnonotus aufragaster</i>	0	2	3	0
Red-whiskered Bulbul	<i>Pycnonotus jocosus</i>	2	10	0	8
Richard's Pipit	<i>Anthus richardi</i>	0	1	1	0
Rufous Turtle Dove	<i>Streptopelia orientalis</i>	1	0	1	0
Scaly-breasted Munia	<i>Lonchura pun</i>	7	0	0	0
Spotted Dove	<i>Streptopelia chinensis</i>	5	3	0	1
White Wagtail	<i>Motacilla alba</i>	5	9	1	4
White-backed Munia	<i>Lonchura striata</i>	12	29	3	2
Yellow-bellied Prinia	<i>Prinia flaviventris</i>	0	14	1	2
Yellow-browed Warbler	<i>Phylloscopus inornatus</i>	2	12	2	0
	Total Species	19	26	15	17
	Total Individuals	65	280	57	90

Table 7 Bird Species Recorded Quantitatively within Study Area in Wet Season

Common Name	Species Name	Study Area			
		Plantation	Shrubland	Grassland	Disturbed/ Developed Area
Barn Swallow	<i>Hirudo rustica</i>	0	1	3	3
Black Drongo	<i>Dicrurus macrocercus</i>	0	0	1	0
Black Kite	<i>Milvus migrans</i>	9	19	31	11
Black-collared Starling	<i>Sturnus nigrocollis</i>	3	6	0	1
Blue Magpie	<i>Urocissa erythrorhyncha</i>	0	0	1	1
Brown Hawk Owl	<i>Ninox scutulata</i>	0	1	0	0
Brown Shrike	<i>Lanius cristatus</i>	0	0	1	0
Chinese Bulbul	<i>Pycnonotus sinensis</i>	5	27	15	6
Chinese Francolin	<i>Francolinus pintadeanus</i>	0	0	2	0
Common Kingfisher	<i>Alcedo atthis</i>	0	0	0	0
Common Koel	<i>Eudynamis scolopacea</i>	0	1	0	0
Common Magpie	<i>Pica pica</i>	1	0	0	2
Common Sandpiper	<i>Actitis hypoleucos</i>	0	0	0	0
Common Tailorbird	<i>Orthotomus sutorius</i>	0	6	0	1
Crested Myna	<i>Acridotheres cristatellus</i>	5	12	2	11
Greater Coucal	<i>Centropus sinensis</i>	0	2	0	0
Grey Wagtail	<i>Motacilla cinerea</i>	0	0	1	0
Hwamei	<i>Garrulax canorus</i>	0	0	7	0
Japanese White-eye	<i>Zosterops japonicus</i>	9	5	1	3
Large-billed Crow	<i>Corvus macrorhynchos</i>	1	0	1	0
Long-tailed Shrike	<i>Lanius schach</i>	0	0	5	0
Magpie Robin	<i>Copsychus saularis</i>	1	0	0	1
Masked Laughing Thrush	<i>Garrulax perspicillatus</i>	2	4	0	0

Common Name	Species Name	Study Area			
		Plantation	Shrubland	Grassland	Disturbed/ Developed Area
Pacific Swift	<i>Apus pacificus</i>				
Plain Prinia	<i>Prinia inornatus</i>	0	11	1	1
Plaintive Cuckoo	<i>Cacomantis merulinus</i>	0	0	1	0
Red-vented Bulbul	<i>Pycnonotus augrigaster</i>	0	6	16	0
Red-whiskered Bulbul	<i>Pycnonotus jocosus</i>	2	6	1	8
Richard's Pipit	<i>Anthus richardi</i>	0	1	2	0
Scaly-breasted Munia	<i>Lonchura pun</i>	0	0	0	4
Spotted Dove	<i>Streptopelia chinensis</i>	2	7	0	1
Tree Sparrow	<i>Passer montanus</i>	5	1	0	6
White Wagtail	<i>Motacilla alba</i>	2	7	2	4
White-backed Munia	<i>Lonchura striata</i>	0	5	0	0
White-bellied Sea Eagle	<i>Haliaeetus leucogaster</i>	0	0	1	0
Yellow-bellied Prinia	<i>Prinia flaviventris</i>	2	20	2	2
	Total Species	14	20	21	17
	Total Individuals	49	148	97	66

Table 8 Butterfly Species Recorded within the Study Area

Common Name	Species Name	Status	Habitat Recorded in Dry Season	Habitat Recorded in Wet Season
Blue Admiral	<i>Kaniska canace</i>	Common	D	
Blue Tiger	<i>Tirumala limniace</i>	Common	S	
Blue-spotted Crow	<i>Euploea midamus</i>	Very Common	D	G
Ceylon Blue Glassy Tiger	<i>Ideopsis similis</i>	Very Common		P, G
Common Bluebottle	<i>Graphium sarpedon</i>	Very Common	S	S
Common Dart	<i>Potanthus pseudomaesa</i>	Rare		S
Common Evening Brown	<i>Melanitis leda</i>	Common	P	
Common Grass Yellow	<i>Eurema hecabe</i>	Very Common	P, S, G, D	P, S, G
Common Mapwing	<i>Cyrestis thyodamas</i>	Common		P
Common Mime	<i>Chilasa clytia</i>	Common		P, S, G
Common Mormon	<i>Papilio polytes</i>	Very Common	S, D	P, S, G
Common Nawab	<i>Polyura athamas</i>	Uncommon	S	
Common Sailer	<i>Neptis hylas</i>	Common	P, G	G
Common Sergeant	<i>Athyma perius</i>	Common	S, G	S, G
Common Tiger	<i>Danaus genutia</i>	Very Common	S, D	
Contiguous Swift	<i>Polytremis lubricans</i>	Common		G
Dark Cerulean	<i>Jamides bochus</i>	Common	S	
Dark Grass Blue	<i>Zizeeria karsandra</i>	Rare	G, D	G
Dark-brand Bush Brown	<i>Mycalesis mineus</i>	Very Common		S, G
Grass Demon	<i>Udaspes folus</i>	Rare		G
Great Eggfly	<i>Hypolimnas bolina</i>	Common	P, S	P, D
Indian Cabbage White	<i>Pieris candida</i>	Very Common		P, G
Indian Fritillary	<i>Argyreus hyperbius</i>	Uncommon	S	S
Indian Palm Bob	<i>Suastus gremius</i>	Uncommon	S	
Large Faun	<i>Faunis eumeus</i>	Very Common		S, P
Lemon Emigrant	<i>Catopsilia pomona</i>	Common	P, G	P, S, G, D
Lesser Band Dart	<i>Potanthus trachala</i>	Rare	S, G	G
Lesser Grass Blue	<i>Zizina otis</i>	Common	G, D	
Lime Blue	<i>Chilades lajus</i>	Very Common		G
Lime Butterfly	<i>Papilio demoleus</i>	Common		S
Little Branded Swift	<i>Pelopidas agna</i>	Common	G	
Long-tailed Blue	<i>Lampides boeticus</i>	Very Common	G, D	
Mottled Emigrant	<i>Catopsilia pyranthe</i>	Common	P, S	P, S, G
Pale Grass Blue	<i>Zizeeria maha</i>	Very Common	S, D	P, G
Pale Palm Dart	<i>Telicota colon</i>	Common		G
Paris Peacock	<i>Papilio paris</i>	Very Common	S	
Peacock Pansy	<i>Junonia almana</i>	Common		P
Plum Judy	<i>Abisara echerius</i>	Very Common	S, G, D	S, G
Red Helen	<i>Papilio helenus</i>	Very Common		S, P
Red Ring Skirt	<i>Hestina assimilis</i>	Common	P	
Red-base Jazebel	<i>Delias pasithoe</i>	Very Common	P, S	
Rustic	<i>Cupha erymanthis</i>	Very Common	G	S
Slate Flash	<i>Rapala manea</i>	Common	G, D	
Small Grass Blue	<i>Famegana alsulus</i>	Uncommon	G	
Spangle	<i>Papilio protenor</i>	Very Common		P
Straight Five-ring	<i>Ypthima lisandra</i>	Common	P, S, G	S, G
Swallowtail	<i>Papilio xuthus</i>	Rare	S	
Tailed Cupid	<i>Everes lacturnus</i>	Common		G

Common Name	Species Name	Status	Habitat Recorded in Dry Season	Habitat Recorded in Wet Season
Toothed Sunbeam	<i>Caretis dentate</i>	Uncommon		S
White-edged Blue Baron	<i>Euthalia phemius</i>	Uncommon		S
Total Species			32	34

P = plantation, S = shrubland, D = developed area, G = grassland,.

Table 9 *Butterfly Species Recorded within the Study Area in Dry Season*

Common Name	Species Name	Status	Study Area			
			Plantation	Shrubland	Grassland	Disturbed/ Developed Area
Blue Admiral	<i>Kaniska canace</i>	C				1
Blue Tiger	<i>Tirumala limniace</i>	C		3		
Blue-spotted Crow	<i>Euploea midamus</i>	VC				1
Common Bluebottle	<i>Graphium sarpedon</i>	VC		1		
Common Evening Brown	<i>Melanitis leda</i>	C	1			
Common Grass Yellow	<i>Eurema hecabe</i>	VC	1	2	2	6
Common Mormon	<i>Papilio polytes</i>	VC		2		1
Common Nawab	<i>Polyura athamas</i>	UC		1		
Common Sailer	<i>Neptis hylas</i>	C	1		2	
Common Sergeant	<i>Athyma perius</i>	C		2	2	
Common Tiger	<i>Danaus genutia</i>	VC		1		1
Dark Cerulean	<i>Jamides bochus</i>	C		2		
Dark Grass Blue	<i>Zizeeria karsandra</i>	R			10	26
Great Eggfly	<i>Hypolimnas bolina</i>	C	2	1		
Indian Fritillary	<i>Argyreus hyperbius</i>	UC		3		
Indian Palm Bob	<i>Suastus gremius</i>	UC		1		
Large Faun	<i>Faunis eumeus</i>	VC		1		
Lemon Emigrant	<i>Catopsilia pomona</i>	C	1		1	
Lesser Band Dart	<i>Potanthus trachala</i>	R		1	2	
Lesser Grass Blue	<i>Zizina otis</i>	C			10	5
Little Branded Swift	<i>Pelopidas agna</i>	C			1	
Long-tailed Blue	<i>Lampides boeticus</i>	VC			31	20
Mottled Emigrant	<i>Catopsilia pyranthe</i>	C	6	1		
Pale Grass Blue	<i>Zizeeria maha</i>	VC		2		3
Paris Peacock	<i>Papilio paris</i>	VC		1		
Plum Judy	<i>Abisara echerius</i>	VC		44	24	1
Red Ring Skirt	<i>Hestina assimilis</i>	C	1			
Red-base Jazebel	<i>Delias pasithoe</i>	VC	1	1		
Rustic	<i>Cupha erymanthis</i>	VC			1	

Common Name	Species Name	Status	Study Area			
			Plantation	Shrubland	Grassland	Disturbed/ Developed Area
Slate Flash	<i>Rapala manea</i>	C			1	1
Small Grass Blue	<i>Famegana alsulus</i>	UC			2	
Straight Five-ring	<i>Ypthima lisandra</i>	C	1	4	21	
Swallowtail	<i>Papilio xuthus</i>	R		1		
Total Species			9	21	14	11
Total Individuals			15	75	110	65

P = plantation, S = shrubland, De = developed area, G= grassland

VC = Very Common, C = Common, UC = Uncommon, R = Rare

Table10 *Butterfly Species Recorded within the Study Area in Wet Season*

Common Name	Species Name	Status	Study Area			
			Plantation	Shrubland	Grassland	Disturbed/ Developed Area
Blue-spotted Crow	<i>Euploea midamus</i>	VC			1	
Ceylon Blue Glassy Tiger	<i>Ideopsis similis</i>	VC	1		1	
Common Bluebottle	<i>Graphium sarpedon</i>	VC		3		
Common Dart	<i>Potanthus pseudomaesa</i>	R		2		
Common Grass Yellow	<i>Eurema hecabe</i>	VC	5	10	8	
Common Jay	<i>Graphium doson</i>	C		1		
Common Mapwing	<i>Cyrestis thyodamas</i>	C	1			
Common Mime	<i>Chilasa clytia</i>	C	1	12	3	
Common Mormon	<i>Papilio polytes</i>	VC	2	10	8	
Common Sailer	<i>Neptis hylas</i>	C			2	
Common Sergeant	<i>Athyma perius</i>	C		3	1	
Contiguous Swift	<i>Polytremis lubricans</i>	C			2	
Dark Grass Blue	<i>Zizeeria karsandra</i>	R			6	
Dark-brand Bush Brown	<i>Mycalesis mineus</i>	VC		9	3	
Grass Demon	<i>Udaspes folus</i>	R			1	
Great Eggfly	<i>Hypolimnna bolina</i>	C	3			1
Indian Cabbage White	<i>Pieris candida</i>	VC	3		2	
Indian Fritillary	<i>Argyreus hyperbius</i>	UC		1		
Large Faun	<i>Faunis eumeus</i>	VC	1	1		
Lemon Emigrant	<i>Catopsilia pomona</i>	C	53	17	10	2
Lesser Band Dart	<i>Potanthus trachala</i>	R			1	
Lime Blue	<i>Chilades lajus</i>	VC			1	
Lime Butterfly	<i>Papilio demoleus</i>	C			1	
Mottled Emigrant	<i>Catopsilia pyranthe</i>	C	19	3	5	
Pale Grass Blue	<i>Zizeeria maha</i>	VC	5		81	

Common Name	Species Name	Status	Study Area			
			Plantation	Shrubland	Grassland	Disturbed/ Developed Area
Pale Palm Dart	<i>Telicota colon</i>	C			4	
Peacock Pansy	<i>Junonia almana</i>	C	1			
Plum Judy	<i>Abisara echerius</i>	VC		10	1	
Red Helen	<i>Papilio helenus</i>	VC	1	2		
Spangle	<i>Papilio protenor</i>	VC	2			
Straight Five-ring	<i>Ypthima lisandra</i>	C		14	15	
Tailed Cupid	<i>Everes lacturnus</i>	C			10	
Toothed Sunbeam	<i>Curetis dentate</i>	UC		1	1	
White-edged Blue Baron	<i>Euthalia phemius</i>	UC		1		
	Total Species		14	17	23	2
	Total Individuals		98	101	178	3

P = plantation, S = shrubland, D = developed area, G = grassland,
VC = Very Common, C = Common, UC = Uncommon, R = Rare

Table 11 Dragonfly Species Recorded within Study Area

Common Name	Species Name	Status	Habitat Recorded in	
			Dry Season	Wet Season
Common Bluetail	<i>Ischnura senegalensis</i>	Abundant	D	
Amber-winged Glider	<i>Hydrobasileus croceus</i>	Common	S	
Common Blue Skimmer	<i>Orthetrum glaucum</i>	Abundant	D	P
Common Red Skimmer	<i>Orthetrum pruinatum</i>	Abundant		S, G, D
Green Skimmer	<i>Orthetrum sabina</i>	Common		D
Wandering Glider	<i>Pantala flavescens</i>	Abundant	S, D	P, S, D, G
Total Species			4	4

P = plantation, S = shrubland, D = developed area, G = grassland

Table 12 Dragonfly Species Recorded within Study Area in Dry Season

Common Name	Species Name	Status	Study Area			
			Plantation	Shrubland	Grassland	Disturbed/ Developed Area
Common Bluetail	<i>Ischnura senegalensis</i>	A				1
Amber-winged Glider	<i>Hydrobasileus croceus</i>	C		1		
Common Blue Skimmer	<i>Orthetrum glaucum</i>	A				1
Wandering Glider	<i>Pantala flavescens</i>	A		31		1
Total Species				2		3
Total Individuals				31		3

A = Abundant, C = Common, UC = Uncommon.

Table 13 Dragonfly Species Recorded within Study Area in Wet Season

Common Name	Species Name	Status	Study Area			
			Plantation	Shrubland	Grassland	Disturbed/ Developed Area
Common Blue Skimmer	<i>Orthetrum glaucum</i>	A	1			
Common Red Skimmer	<i>Orthetrum pruinatum</i>	A	1	1	1	1
Green Skimmer	<i>Orthetrum sabina</i>	C				1
Wandering Glider	<i>Pantala flavescens</i>	A	15	14	35	3
Total Species			3	2	2	3
Total Individuals			17	15	36	5

A = Abundant, C = Common, UC = Uncommon

Table 14 Amphibian and Reptile Species Recorded within Study Area in Wet Season

Common Name	Species Name	Status	Habitat Recorded in Dry	Habitat Recorded in Wet
			Season	Season
Amphibians				
Asian Common Toad	<i>Bufo melanostictus</i>	A		D
Gunther's Frog	<i>Rana guentheri</i>	A		D, G, P
Paddy Frog	<i>Fejovarya limnocharis</i>	A		D, G
Brown Tree Frog	<i>Polypedates megacephalus</i>	A	D	D, G, P
Ornate Pygmy Frog	<i>Microhyla ornata</i>	A		D, G
Reptiles				
Changeable Lizard	<i>Calotes versicolor</i>	C		S
Common Rat Snake	<i>Ptyas mucosus</i>	P		S
Total Species			1	7

P = plantation, S = shrubland, D = developed area, G = grassland

A = Abundant, UC = Uncommon, P = Protected.

Table 15 Amphibian and Reptile Species Recorded within Study Area in Dry Season

Common Name	Species Name	Status	Study Area			
			Plantation	Shrubland	Disturbed/ Developed Area	Grassland
Amphibians						
Brown Tree Frog	<i>Polypedates egacephalus</i>	A			1	
Total Species					1	
Total Individuals					1	

A = Abundant, UC = Uncommon, P = Protected.

Table 16 Amphibian and Reptile Species Recorded within Study Area in Wet Season

Common Name	Species Name	Status	Study Area			
			Plantation	Shrubland	Grassland	Disturbed/ Developed Area
Amphibians						
Asian Common Toad	<i>Bufo melanostictus</i>	A				5
Gunther's Frog	<i>Rana guentheri</i>	A	2		2	3
Paddy Frog	<i>Fejovarya limnocharis</i>	A			tadpoles	3, tadpoles
Brown Tree Frog	<i>Polypedates megacephalus</i>	A	3, eggs		8, tadpoles, eggs	5, tadpoles,
Ornate Pygmy Frog	<i>Microhyla ornata</i>	A			tadpoles	tadpoles
Reptiles						
Changeable Lizard	<i>Calotes versicolor</i>	C		2		
Common Rat Snake	<i>Ptyas mucosus</i>	P		1		
Total Species			2	2	4	5
Total Individuals			5	3	10	16

A = Abundant, UC = Uncommon, P = Protected

Table 17 Results of the Qualitative Surveys

Zone	Description
A	The seabed was composed of mainly rubbles and sands with sparse boulders. Visibility was poor (~0.5m) and only a few small hard coral colonies were found e.g. <i>Coscinaraea</i> sp., <i>Goniastrea aspersa</i> , <i>Plesiastrea versipora</i> , <i>Hydnophora exesa</i> , <i>Porites</i> sp., <i>Favia favius</i> . A few small colonies of <i>Tubastrea</i> sp. and <i>Cladiella</i> sp. were also encountered.
B	The seabed was mainly composed of boulders/bedrocks with sand and rubbles in between. Very few scattering <i>Dendronephtha</i> sp. and <i>Coscinaraea</i> sp. were found.
C	The seabed was composed of boulders/bedrocks and in some parts with sand. In the shallow areas, a few small colonies of <i>Oulastrea crispate</i> and <i>Psammocora superficialis</i> were found.
D	The seabed was mainly composed of bedrocks/ boulders at the southern exposed part and gradually become rubbles and sands in the more sheltered bay. Hard coral colonies were more abundant at the sheltered area than the exposed southern and western areas.
E	The seabed was composed of boulder and sand. Visibility was fair (~1m). Coral species included <i>Psammocora superficialis</i> , <i>Favia favius</i> , <i>Favia lizardensis</i> , <i>Favia rotumana</i> , <i>Plesiastrea versipora</i> , <i>Coscinarea</i> sp. <i>Oulastrea crispate</i> and <i>Goniopora stutchburyi</i> were recorded.
Artificial Seawall	The seabed was composed of artificial boulders. Visibility was fair (~1m). A few small colonies of <i>Oulastrea crispata</i> and <i>Oulastrea crispate</i> recorded.

Table 18 Description of the Seabed Recorded along each Transect

Transect	Depth	Description
A1	-5 to -8 mPD	The seabed was composed of mainly rubbles and sands with sparse boulders. Visibility was poor (~0.5m) and along the transect, more than 70 colonies of soft corals including <i>Euplexaura</i> and <i>Echinomuricea</i> were found. The transect started at the north-eastern end.
B1	-3 to -5 mPD	The seabed was mainly composed of boulders/bedrocks with sand and rubbles in between. Visibility was fair (~1.0m) along the transect. Several encrusting form coral colonies were recorded along the transect e.g. <i>Porites</i> sp., <i>Goniopora stutchburyi</i> , <i>Plesiastrea versipora</i> plus a few branching soft coral <i>Euplaxuea</i> . The transect started from north-west to south-east direction.
C1	-4 to -6 mPD	The seabed was composed of boulders/bedrocks and in some parts with sand. Visibility was fair (~1.0m) along the transect. Seven hard coral colonies were recorded along the transect which are <i>Turbinaria peltata</i> , <i>Porites</i> sp., <i>Plesiastrea versipora</i> , <i>Favia speciosa</i> , <i>Cyphastrea serailia</i> , <i>Favites abdita</i> . The transect started from the west to the east.
D1	-3 to -5 mPD	The seabed was mainly composed of bedrocks/ boulders at the southern exposed part (at the beginning of the transect) and gradually become rubbles and sands in the more sheltered bay (at the end of transect). Visibility was fair (~1m - 1.5m) along the transect. Over ten hard coral colonies were found along the transect e.g. <i>Goniastrea aspera</i> , <i>Platygyra acuta</i> , <i>Plesiastrea versipora</i> , <i>Porites</i> sp., <i>Favia speciosa</i> , <i>Acropora solitaryensisglauca</i> , <i>Psammocora superficialis</i> , <i>Pavona decussata</i> , <i>Leptastrea purpurea</i> etc. A patch of sea anemone bed was located at 80m of the transect. The transect started from the south to north.
E1	-2.5 to -4 mPD	The seabed was composed of boulder and sand. Visibility was fair (~1m). Hard coral colonies were distributed at the beginning of the transect. Coral species included <i>Psammocora superficialis</i> , <i>Favia favus</i> , <i>Favia lizardensis</i> , <i>Favia rotumana</i> , <i>Plesiastrea versipora</i> , <i>Coscinarea</i> sp. etc. were recorded along the transect. The transect started from the south to the north.

Table 19 Seabed Attributes Along the Survey Transects

	Transect				
	A1	B1	C1	D1	E1
Seabed attributes *					
Hard substrate					
Continuous pavement					
Bedrock		3	4	3	
Rubble	3	1		3	2
Sand	2	1	1	2	2
Silt					
Boulders - large	1	2	3	2	2
Boulders - small					
Ecological attributes *					
Hard coral		1	1	2	1
Dead standing coral					
Soft coral	2	1			
Antipatharia					
Macroalgae					

Note: 1 = 1-10% Cover, 2 = 11-30% Cover, 3 = 31-50% Cover, 4 = 51-75% Cover, 5 = 76-100% Cover.

Table 20 Coral Species and Their Relative Sizes Recorded Along the Survey Transects

Transect A1

Position (m)	Species	Approx. Colony Diameter (cm)	Position (m)	Species	Approx. Colony Diameter (cm)
1.5	<i>Euplexaura</i>	30	46.2	<i>Echinomuricea</i>	20
9.7	<i>Echinomuricea</i>	30	46.3	<i>Echinomuricea</i>	30
12.8	<i>Euplexaura</i>	40	46.9	<i>Echinomuricea</i>	20
13.2	<i>Euplexaura</i>	20	47.2	<i>Echinomuricea</i>	10
14.4	<i>Echinomuricea</i>	15	47.8	<i>Echinomuricea</i>	30
15	<i>Echinomuricea</i>	15	48.1	<i>Echinomuricea</i>	15
16	<i>Euplexaura</i>	10	48.3	<i>Euplexaura</i>	20
17.4	<i>Echinomuricea</i>	30	48.4	<i>Echinomuricea</i>	30
17.5	<i>Echinomuricea</i>	20	49.1	<i>Echinomuricea</i>	20
18	<i>Echinomuricea</i>	30	49.8	<i>Echinomuricea</i>	30
20.1	<i>Euplexaura</i>	30	50	<i>Echinomuricea</i>	20
21.5	<i>Euplexaura</i>	20	51.2	<i>Euplexaura</i>	30
23.1	<i>Echinomuricea</i>	20	52	<i>Echinomuricea</i>	15
25	<i>Echinomuricea</i>	30	52.3	<i>Euplexaura</i>	10
25.1	<i>Echinomuricea</i>	20	54.5	<i>Echinomuricea</i>	30
26	<i>Echinomuricea</i>	10	54.8	<i>Echinomuricea</i>	30
27.4	<i>Echinomuricea</i>	30	55.3	<i>Echinomuricea</i>	20
27.8	<i>Echinomuricea</i>	20	56.4	<i>Echinomuricea</i>	25
28.5	<i>Euplexaura</i>	20	58	<i>Echinomuricea</i>	10
29.4	<i>Echinomuricea</i>	30	58.7	<i>Echinomuricea</i>	10
29.6	<i>Euplexaura</i>	20	58.8	<i>Echinomuricea</i>	30
30	<i>Euplexaura</i>	20	58.9	<i>Echinomuricea</i>	20
30.5	<i>Echinomuricea</i>	15	59	<i>Echinomuricea</i>	20
32	<i>Echinomuricea</i>	20	60	<i>Echinomuricea</i>	30
32.8	<i>Echinomuricea</i>	15	61.5	<i>Echinomuricea</i>	20
33	<i>Echinomuricea</i>	20	61.7	<i>Echinomuricea</i>	10
34.4	<i>Echinomuricea</i>	30	63	<i>Echinomuricea</i>	30
36.4	<i>Echinomuricea</i>	25	64	<i>Euplexaura</i>	25
37.1	<i>Echinomuricea</i>	15	65	<i>Echinomuricea</i>	15
38	<i>Euplexaura</i>	15	69.5	<i>Euplexaura</i>	20
40	<i>Echinomuricea</i>	20	72	<i>Echinomuricea</i>	30
41.8	<i>Echinomuricea</i>	10	85.4	<i>Echinomuricea</i>	20
43	<i>Echinomuricea</i>	30	90.8	<i>Echinomuricea</i>	30
43.1	<i>Echinomuricea</i>	40	92.5	<i>Euplexaura</i>	20
44.1	<i>Echinomuricea</i>	45	98.9	<i>Echinomuricea</i>	30
46.1	<i>Echinomuricea</i>	40			

Transect B1

Position (m)	Species	Approx. Colony Diameter (cm)
0.5	<i>Porites</i> sp.	50
9.7	<i>Porites</i> sp.	60
20.1	<i>Porites</i> sp.	40
22	<i>Goniopora stutchburyi</i>	20
65.4	<i>Euplexaura</i>	15
67	<i>Plesiastrea versipora</i>	40

Transect C1

Position (m)	Species	Approx. Colony Diameter (cm)
0.1	<i>Turbinaria peltata</i>	20
0.5	<i>Porites sp.</i>	35
17.4	<i>Porites sp.</i>	5
18.4	<i>Goniopora stutchburyi</i>	10
91.5	<i>Euplexaura</i>	25
92	<i>Plesiastrea versipora</i>	20
92.2	<i>Plesiastrea versipora</i>	15

Transect D1

Position (m)	Species	Approx. Colony Diameter (cm)
0.3	<i>Goniastrea aspera</i>	10
41.2	<i>Platygyra acuta</i>	30
46.8	<i>Plesiastrea versipora</i>	15
51.2	<i>Porites sp.</i>	20
54.8	<i>Favia speciosa</i>	25
91	<i>Acropora glaucasolitaryensis</i>	15
93.2	<i>Porites sp.</i>	20
94.5	<i>Psammocora superficialis</i>	25
95	<i>Pavona decussata</i>	15
100	<i>Leptastrea purpurea</i>	15

Transect E1

Position (m)	Species	Approx. Colony Diameter (cm)
0.4	<i>Psammocora superficialis</i>	10
0.8	<i>Favia fava</i>	15
1.1	<i>Psammocora superficialis</i>	15
1.3	<i>Favia lizardensis</i>	5
14.4	<i>Plesiastrea versipora</i>	25
17.4	<i>Favia rotumana</i>	15
17.6	<i>Favia speciosa</i>	20
18.1	<i>Coscinarea sp.</i>	15
28	<i>Favia speciosa</i>	10

Annex E

Implementation Schedule

Annex E

Implementation Schedule

E1 IMPLEMENTATION SCHEDULE

E1.1 INTRODUCTION

This *Annex* summarises all the mitigation measures recommended in the *EIA Study* and presents them in the form of an Implementation Schedule in accordance with the requirements of Section 3.4.10.3 of the *EIA Study Brief No. ESB-119/2004*.

The Implementation Schedule has the following column headings:

EIA Ref

This denotes the section number or reference from the EIA Report Main text.

EM&A Ref

This denotes the sequential number of each of the recommended mitigation measures specified in the Implementation Schedule.

Recommended Mitigation Measures

This denotes the recommended mitigation measures, courses of action or subsequent deliverables that are to be adopted, undertaken or delivered to avoid, reduce or ameliorate predicted environmental impacts.

Objectives of the Recommended Measure and Main Concerns to be Addressed

This denotes the objectives of the recommended mitigation measures and main concerns to address.

Location

This indicates the spatial area in which the recommended mitigation measures are to be implemented together with details of the programming or timing of their implementation.

Who to Implement the Measure

This denotes where the responsibility lies for the implementation of the recommended mitigation measures.

When to Implement the Measure

This denotes the stage at which the recommended mitigation measures are to be implemented either during the Design, Construction, Operation/Restoration or Aftercare phases.

What Requirements or Standards for the Measure to Achieve

This defines the controlling legislation that is required to be complied with.

Table E1.1a Implementation Schedule

EIA Ref.	EM&A Ref	Environmental Protection Measures	Objectives of the Recommended Measure & Main Concerns to address	Location of the Measures	Who to implement the measure?	When to implement the measure? ⁽¹⁾				What requirements or standards for the measure to achieve?
						D	C	O/R	A	
<i>Air Quality - Construction Phase</i>										
4.8.1	AQ1	<u>Blasting</u> <ul style="list-style-type: none"> The area within 30m of the blasting area will be wetted prior to blasting. Blasting will not be carried out when the strong wind signal or tropical cyclone warning signal No. 3 or higher is hoisted, unless this is with the express prior permission of the Commissioner of Mines. loose material and stones in the Site will be removed prior to the blast operation During blasting, blast nets, screens and other protective covers will be used to prevent the projection of flying fragments and material resulting from blasting 	To minimise potential dust nuisance	Blasting area and 30m of blasting area	Extension Contractor		✓			<i>Air Pollution Control (Construction Dust) Regulations</i>
4.8.1	AQ2	<u>Rock Drilling</u> <ul style="list-style-type: none"> Watering will be carried out at the rock drilling activities to avoid fugitive dust emissions. 	To minimise potential dust nuisance	Rock drilling arewa	Extension Contractor		✓			<i>Air Pollution Control (Construction Dust) Regulations</i>
4.8.1	AQ3	<u>Site Access Road</u> <ul style="list-style-type: none"> The main haul road will be kept clear of dusty materials or sprayed with water. 	To minimise potential dust nuisance	Main haul road	Extension Contractor		✓			<i>Air Pollution Control (Construction Dust) Regulations</i>

(1) D=Design; C=Construction; O/R=Operation/Restoration; A=Aftercare

EIA Ref.	EM&A Ref	Environmental Protection Measures	Objectives of the Recommended Measure & Main Concerns to address	Location of the Measures	Who to implement the measure?	When to implement the measure? ⁽¹⁾				What requirements or standards for the measure to achieve?
						D	C	O/R	A	
		<ul style="list-style-type: none"> The main haul road will be paved with aggregate or gravel. Vehicle speed will be limited to 10kph. 								<i>HKAQO and EIAO-TM Annex 4</i>
4.8.1	AQ4	<u>Stockpiling of Dusty Materials</u> <ul style="list-style-type: none"> Any stockpile of dusty materials will be covered entirely by impervious sheeting or placed in an area sheltered on the top and three sides or sprayed with water so as to ensure that the entire surface is wet. 	To minimise potential dust nuisance	All construction works area	Extension Contractor		✓			<i>Air Pollution Control (Construction Dust) Regulations</i> <i>HKAQO and EIAO-TM Annex 4</i>
4.8.1	AQ5	<u>Loading, unloading or transfer of dusty materials</u> <ul style="list-style-type: none"> All dusty materials will be sprayed with water immediately prior to any loading, unloading or transfer operation so as to maintain the dusty material wet. 	To minimise potential dust nuisance	All construction works area	Extension Contractor		✓			<i>Air Pollution Control (Construction Dust) Regulations</i> <i>HKAQO and EIAO-TM Annex 4</i>
4.8.1	AQ6	<u>Site Boundary and Entrance</u> <ul style="list-style-type: none"> Where a site boundary adjoins a road, street, service lane or other area accessible to the public, hoarding of height not less than 2.4m from ground level will be provided along the entire length of that portion of the site boundary except for the site entrance or exit. 	To minimise potential dust nuisance	Site boundary and entrance	Extension Contractor		✓			<i>Air Pollution Control (Construction Dust) Regulations</i> <i>HKAQO and EIAO-TM Annex 4</i>
4.8.1	AQ7	<u>Excavation Works</u> <ul style="list-style-type: none"> Working area of any excavation or earth moving operation will be sprayed with water immediately before, during and immediately after the operation so as to ensure that the entire surface is wet. 	To minimise potential dust nuisance	All construction works area	Extension Contractor		✓			<i>Air Pollution Control (Construction Dust) Regulations</i> <i>HKAQO and EIAO-TM Annex 4</i>

EIA Ref.	EM&A Ref	Environmental Protection Measures	Objectives of the Recommended Measure & Main Concerns to address	Location of the Measures	Who to implement the measure?	When to implement the measure? ⁽¹⁾				What requirements or standards for the measure to achieve?
						D	C	O/R	A	
4.8.1	AQ8	<u>Building Demolition</u> <ul style="list-style-type: none"> The area where the demolition works are planned to take place will be sprayed with water immediately prior to, during and immediately after the demolition activities. Any dusty materials remaining after a stockpile is removed will be wetted with water and cleared from the surface of roads or street. 	To minimise potential dust nuisance	All construction works area	Extension Contractor		✓			<i>Air Pollution Control (Construction Dust) Regulations</i> <i>HKAQO and EIAO-TM Annex 4</i>
4.8.1	AQ9	<u>Construction of the Superstructure of Building</u> <ul style="list-style-type: none"> Effective dust screens, sheeting or netting will be provided to enclose the scaffolding from the ground level up to the highest level of the scaffolding. 	To minimise potential dust nuisance	All construction works area	Extension Contractor		✓			<i>Air Pollution Control (Construction Dust) Regulations</i> <i>HKAQO and EIAO-TM Annex 4</i>
4.8.1	AQ10	Should a stone crushing plant be needed on site, the control measures recommended in the <i>Best Practicable Means Requirement for Mineral Works (Stone Crushing Plants) BPM 11/1</i> should be implemented.	To minimise potential dust nuisance	Stone crushing plant/ construction phase	Extension Contractor		✓			<i>Best Practicable Means Requirement for Mineral Works (Stone Crushing Plants) BPM 11/1</i>
4.8.1	AQ11	Good site practices such as regular maintenance and checking of the diesel powered mechanical equipment will be adopted to avoid any black smoke emissions and to minimize gaseous emissions.	To minimise potential dust nuisance	All construction works area	Extension Contractor		✓			<i>HKAQO and EIAO-TM Annex 4</i>
4.10.1	AQ12	Dust monitoring once every 6 days	Ensure the dust generated from the project meets the air quality requirement	At monitoring locations shown in <i>Figure 3.2a</i>	Extension Contractor		✓			<i>HKAQO and EIAO-TM Annex 4</i>

EIA Ref.	EM&A Ref	Environmental Protection Measures	Objectives of the Recommended Measure & Main Concerns to address	Location of the Measures	Who to implement the measure?	When to implement the measure? ⁽¹⁾				What requirements or standards for the measure to achieve?
						D	C	O/R	A	
<i>Air Quality – Operation, Restoration and Aftercare Phases</i>										
4.8.2	AQ13	<u>Odour</u> • Enclosing the weighbridge area	To minimise odour nuisance	Weighbridge area	Extension Contractor	✓	✓			<i>EIAO-TM Annex 4</i>
4.8.2	AQ14	• Providing a vehicle washing facility before the exit of the landfill and providing sufficient signage to remind RCV drivers to pass through the facility before leaving the landfill	To minimise odour nuisance	Vehicle washing facility	Extension Contractor	✓	✓			<i>EIAO-TM Annex 4</i>
4.8.2	AQ15	• Reminding the RCV drivers to empty the liquor collection sump and close the valve before leaving the tipping face	To minimise odour nuisance	Tipping face	Extension Contractor			✓		<i>EIAO-TM Annex 4</i>
4.8.2	AQ16	• Washing down the area where spillage of RCV liquor is discovered promptly	To minimise odour nuisance	Extension Site	Extension Contractor			✓		<i>EIAO-TM Annex 4</i>
4.8.2	AQ17	• Reminding operators to properly maintain their RCVs and ensure that liquor does not leak from the vehicles	To minimise odour nuisance	Extension Site	Extension Contractor			✓		<i>EIAO-TM Annex 4</i>
4.8.2	AQ18	• Installation of vertical and/or horizontal landfill gas extraction system to enhance extraction of landfill gas from the waste mass and hence minimise odour associated with fugitive landfill gas emissions	To minimise odour nuisance	Extension Site	Extension Contractor	✓	✓	✓		<i>EIAO-TM Annex 4</i>
4.8.2	AQ19	• Progressive restoration of the areas which reach the finished profile (a final capping system including an impermeable liner will be put in place) and installation of a permanent landfill gas extraction	To minimise odour nuisance	Extension Site	Extension Contractor	✓	✓	✓		<i>EIAO-TM Annex 4</i>

EIA Ref.	EM&A Ref	Environmental Protection Measures	Objectives of the Recommended Measure & Main Concerns to address	Location of the Measures	Who to implement the measure?	When to implement the measure? ⁽¹⁾				What requirements or standards for the measure to achieve?
						D	C	O/R	A	
		system								
4.8.2	AQ20	• Installing deodorizers along the site boundary adjacent to the ASRs	To minimise odour nuisance	Extension Site boundary	Extension Contractor			✓	✓	EIAO-TM Annex 4
4.8.2	AQ21	• Erecting a vertical barrier, wall or structure softened by planting rows of trees/shrubs or landscape feature along the site boundary, particularly in the areas near the ASRs	To minimise odour nuisance	Extension Site boundary	Extension Contractor	✓		✓	✓	EIAO-TM Annex 4
4.8.2	AQ22	• Maintaining the size of the active tipping face not greater than 30m × 40m, of which the size of the active tipping face for MSW + construction waste will be limited to 20 m × 30 m and the size of the active tipping face for construction waste only will be limited to 20 m × 30 m	To minimise odour nuisance	Active tipping face	Extension Contractor			✓		EIAO-TM Annex 4
4.8.2	AQ23	• Promptly covering the MSW with soil or selected inert materials to control odour emissions	To minimise odour nuisance	Active tipping face	Extension Contractor			✓		EIAO-TM Annex 4
4.8.2	AQ24	• Maintaining the size of the special waste trench not greater than 6m (l) × 2.5m (w)	To minimise odour nuisance	Special waste trench	Extension Contractor			✓		EIAO-TM Annex 4
4.8.2	AQ25	• Covering daily covered area with 300mm of soil at 11pm	To minimise odour nuisance	Daily covered area	Extension Contractor			✓		EIAO-TM Annex 4
4.8.2	AQ26	• Covering special waste trench with 600 mm of soil and an impervious liner after 5 pm	To minimise odour nuisance	Special waste trench	Extension Contractor			✓		EIAO-TM Annex 4
4.8.2	AQ27	• Covering the non-active tipping face with 600mm of soil and an impermeable liner (on top of the intermediate cover), which will not only control	To minimise odour nuisance	Intermediate cover	Extension Contractor			✓		EIAO-TM Annex 4

EIA Ref.	EM&A Ref	Environmental Protection Measures	Objectives of the Recommended Measure & Main Concerns to address	Location of the Measures	Who to implement the measure?	When to implement the measure? ⁽¹⁾				What requirements or standards for the measure to achieve?
						D	C	O/R	A	
		odour emissions from landfilled waste but also enhance landfill gas extraction by the landfill gas extraction system								
4.8.2	AQ28	<ul style="list-style-type: none"> Applying deodorizers or odour suppression agents to control odour emissions from the active tipping face and special waste trench, if any, through spraying or fogging equipment 	To minimise odour nuisance	Active tipping face and special waste trench	Extension Contractor			✓		EIAO-TM Annex 4
4.8.2	AQ29	<ul style="list-style-type: none"> Providing a mobile cover with retractable or suitable opening to cover up the opening of the special waste trench except during waste deposition and a suitable odour removal unit. The mobile cover should be equipped with powered extraction and suitable odour removal unit for purifying the trapped gas inside the trench before release into the atmosphere 	To minimise odour nuisance	Special waste trench	Extension Contractor			✓		EIAO-TM Annex 4
4.8.2	AQ30	<ul style="list-style-type: none"> Providing thermal oxidizer (one duty and one standby) for the leachate treatment plant 	To minimise odour nuisance as a result of breakdown of thermal oxidizer	Leachate treatment plant	Extension Contractor	✓	✓	✓		EIAO-TM Annex 4
4.8.2	AQ31	<ul style="list-style-type: none"> Enclosing all the leachate storage and treatment tanks (except for the Sequential Batch Reactor (SBR) tanks) and diverting the exhaust air from these tanks to a thermal oxidizer to avoid potential odour emissions from the LTP 	To minimise odour nuisance	Leachate treatment plant	Extension Contractor	✓	✓	✓		EIAO-TM Annex 4
4.8.2	AQ32	<ul style="list-style-type: none"> Rescheduling of waste filling activities on-site by avoiding waste filling activities carrying out at the northern area of the site in the summer months 	To minimise odour nuisance	Extension Site	Extension Contractor			✓		EIAO-TM Annex 4

EIA Ref.	EM&A Ref	Environmental Protection Measures	Objectives of the Recommended Measure & Main Concerns to address	Location of the Measures	Who to implement the measure?	When to implement the measure? ⁽¹⁾				What requirements or standards for the measure to achieve?
						D	C	O/R	A	
		between July to November								
4.8.2	AQ33	<u>Dust, Gaseous Emission and LFG including Volatile Organic Compounds (VOCs)</u> • Regular watering the main haul road within the Extension;	To minimise dust nuisance	Extension Site	Extension Contractor			✓		HKAQO and EIAO-TM Annex 4
4.8.2	AQ34	• Compacting the exposed daily and intermediate covered areas well to avoid fugitive dust emission;	To minimise dust nuisance	Extension Site	Extension Contractor			✓		HKAQO and EIAO-TM Annex 4
4.8.2	AQ35	• Limiting the vehicle speed within the landfill;	To minimise dust nuisance	Extension Site	Extension Contractor			✓		HKAQO and EIAO-TM Annex 4
4.8.2	AQ36	• Providing vehicle washing bay to avoid vehicles carrying dust to public roads;	To minimise dust nuisance	Extension Site	Extension Contractor			✓		HKAQO and EIAO-TM Annex 4
4.8.2	AQ37	• Switching off the engine when the diesel-driven equipment is idling;	To minimise gaseous emissions	Extension Site	Extension Contractor			✓	✓	-
4.8.2	AQ38	• Maintaining the construction equipment properly to avoid any black smoke emissions;	To minimise gaseous emissions	Extension Site	Extension Contractor			✓	✓	-
4.8.2	AQ39	Providing sufficient underground landfill gas collection system to capture the landfill gas generated as much as possible; and	To minimise gaseous emissions, including LFG and VOCs	Extension Site	Extension Contractor			✓	✓	EIAO-TM Annex 4
4.8.2	AQ40	Periodic inspections of the final cover should be undertaken to ensure that the capping layer is in good conditions at all times.	To minimise gaseous emissions, including LFG and VOCs	Extension	Extension Contractor			✓	✓	EIAO-TM Annex 4
4.10.2	AQ41	Monitoring of ambient TSP once every 6 days	Ensure the dust emission	At monitoring	Extension			✓	✓	HKAQO and EIAO-

EIA Ref.	EM&A Ref	Environmental Protection Measures	Objectives of the Recommended Measure & Main Concerns to address	Location of the Measures	Who to implement the measure?	When to implement the measure? ⁽¹⁾				What requirements or standards for the measure to achieve?
						D	C	O/R	A	
			from the project meets the dust requirement	locations shown in <i>Figure 11.3a</i>	Contractor					<i>TM Annex 4</i>
4.10.2	AQ42	Monitoring of ambient VOCs, ammonia and H ₂ S, quarterly	Ensure the gaseous emission from the project meets the air quality requirement	At monitoring locations shown in <i>Figure 11.3a</i>	Extension Contractor			✓	✓	Odour thresholds or 1% of Occupational Exposure Limit (OEL) as stipulated in the "UK Health and Safety Executive (HSE) EH 40/05 Occupational Exposure Limits", whichever is lower.
4.10.2	AQ43	Monitoring of NO ₂ , CO, SO ₂ , benzene, vinyl chloride and NMOCs for flares, thermal oxidizer and generator, monthly at the first 12 months and thereafter quarterly	Ensure the gaseous emission from the project meets the air quality requirement	At the flares and thermal oxidizer stacks when they are in operation	Extension Contractor			✓	✓ ⁽¹⁾	Emission Limits specified in Contract
4.10.2	AQ44	To confirm design assumption of ammonia, it is recommended that the ammonia concentration in the flue gas of the thermal oxidiser be monitored during the commissioning stage of the thermal oxidiser. If required, an emission standard will be set for ammonia for the thermal oxidiser based on the monitoring results. If no ammonia is detected in the flue gas during the decommissioning stage, the monitoring of ammonia in the flue gas of the thermal oxidiser could be discontinued.	Ensure the gaseous emission from the project meets the air quality requirement	At the thermal oxidizer stack during commissioning. If ammonia is detected during commissioning stage, the monitoring will continue.	Extension Contractor			✓		Emission Limits determined during commissioning stage

(1) For LFG flare and LFG generator only.

EIA Ref.	EM&A Ref	Environmental Protection Measures	Objectives of the Recommended Measure & Main Concerns to address	Location of the Measures	Who to implement the measure?	When to implement the measure? ⁽¹⁾				What requirements or standards for the measure to achieve?
						D	C	O/R	A	
4.10.2	AQ45	Odour patrol, daily	Ensure the odour emission from the project meets the odour requirement	Along Extension Site boundary	Extension Contractor			✓		EIAO-TM Annex 4
4.10.2	AQ46	Monitoring of meteorological station, continuously	Collect site specific meteorological data	At meteorological station shown in Figure 11.3a	Extension Contractor		✓	✓	✓	-
Noise - Construction Phase										
5.7.1	N1	Adopt good site practice listed below: <ul style="list-style-type: none"> • Only well-maintained plant will be operated on-site and plant should be serviced regularly during the construction program; • Silencers or mufflers on construction equipment should be utilized and will be properly maintained during the construction program; • Mobile plant, if any, will be sited as far from NSRs as possible; • Machines and plant (such as trucks) that may be in intermittent use will be shut down between work periods or should be throttled down to a minimum; • Plant known to emit noise strongly in one direction will, wherever possible, be orientated so that the noise is directed away from the nearby NSRs; and • Material stockpiles and other structures will be effectively utilised, wherever practicable, in 	To minimise potential construction noise nuisance.	All construction works area	Extension Contractor			✓		Noise Control Ordinance (NCO) and EIAO-TM Annex 5

EIA Ref.	EM&A Ref	Environmental Protection Measures	Objectives of the Recommended Measure & Main Concerns to address	Location of the Measures	Who to implement the measure?	When to implement the measure? ⁽¹⁾				What requirements or standards for the measure to achieve?
						D	C	O/R	A	
		screening noise from on-site construction activities.								
5.8	N2	Weekly noise monitoring	Ensure noise generated from the project meets the criteria	At monitoring locations shown in Figure 6.4a	Extension Contractor		✓			Noise Control Ordinance (NCO) and EIAO-TM Annex 5
Noise – Operation/Restoration Phase										
5.7.2	N3	Adopt good site practice listed below: <ul style="list-style-type: none"> Choose quieter PME; Include noise levels specification when ordering new plant items; Locate fixed plant items or noise emission points away from the NSRs as far as practicable; Locate noisy machines in completely enclosed plant rooms or buildings; and Develop and implement a regularly scheduled plant maintenance programme so that plant items are properly operated and serviced. The programme should be implemented by properly trained personnel. 	To minimise potential operational noise nuisance.	Within the Extension Site	Extension Contractor		✓			Noise Control Ordinance (NCO) and EIAO-TM Annex 5
5.8	N4	Weekly noise monitoring	Ensure noise generated from the project meets the criteria	At monitoring locations shown in Figure 6.4a	Extension Contractor		✓			Noise Control Ordinance (NCO) and EIAO-TM Annex 5
Water Quality – Construction Phase										
6.8.1	WQ1	<u>Construction Runoff</u> <ul style="list-style-type: none"> Exposed soil areas will be minimised to reduce the 	To minimise potential	All construction	Extension		✓			ProPECC PN 1/94

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						D	C	O/R	A	
		contamination of runoff and erosion.	water quality impacts arising from the construction works	works area	Contractor					EIAO-TM Annex 6
6.8.1	WQ2	<ul style="list-style-type: none"> Perimeter channels will be constructed in advance of site formation works and earthworks and intercepting channels will be provided for example along the edge of excavation. 	To minimise potential water quality impacts arising from the construction works	All construction works area	Extension Contractor	✓	✓			ProPECC PN 1/94 Water Pollution Control Ordinance (WPCO) EIAO-TM Annex 6
6.8.1	WQ3	<ul style="list-style-type: none"> Silt removal facilities, channels and manholes will be maintained and the deposited silt and grit should be removed regularly to ensure they are functioning properly at all times. 	To minimise potential water quality impacts arising from the construction works	All construction works area	Extension Contractor		✓			ProPECC PN 1/94 WPCO EIAO-TM Annex 6
6.8.1	WQ4	<ul style="list-style-type: none"> Temporary covers such as tarpaulin will also be provided to minimise the generation of high SS runoff. 	To minimise potential water quality impacts arising from the construction works	All construction works area	Extension Contractor		✓			ProPECC PN 1/94 WPCO
6.8.1	WQ5	<ul style="list-style-type: none"> The surface runoff contained any oil and grease will pass through the oil interceptors. 	To minimise potential water quality impacts arising from the construction works	All construction works area	Extension Contractor		✓			ProPECC PN 1/94 WPCO EIAO-TM Annex 6
6.8.1	WQ6	<ul style="list-style-type: none"> All sewer and drains will be sealed to prevent building debris, soil etc from entering public sewers/drains before commencing any demolition works 	To minimise potential water quality impacts arising from the demolition works	Infrastructure area at existing SENT Landfill	Extension Contractor		✓			ProPECC PN 1/94 WPCO EIAO-TM Annex 6
6.8.1	WQ7	<ul style="list-style-type: none"> During the excavation works for the twin drainage tunnels, the recycle water for cooling the cutter head of the TBM will be conveyed to the sedimentation 	To minimise potential water quality impacts arising from the tunnel	Tunnel boring sites	Extension Contractor		✓			ProPECC PN 1/94 WPCO

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		tanks for treatment and most of the treated water will be reused, where applicable and as much as possible, in the boring operations.	works							<i>EIAO-TM Annex 6</i>
6.8.1	WQ8	<ul style="list-style-type: none"> The fuel and waste lubricant oil from the on-site maintenance of machinery and equipment will be collected by a licensed chemical waste collector. 	To minimise potential water quality impacts arising from improper handling of fuel and oil	Extension Site	Extension Contractor	✓				<i>ProPECC PN 1/94</i> <i>WPCO</i> <i>Waste Disposal Ordinance (WDO)</i>
6.8.1	WQ9	<ul style="list-style-type: none"> Implementation of excavation schedules, lining and covering of excavated stockpiles 	To minimise contaminated stormwater run-off from the Extension Site	All construction works	Extension Contractor	✓				<i>ProPECC PN 1/94</i> <i>WPCO</i> <i>EIAO-TM Annex 6</i>
6.8.2	WQ10	<ul style="list-style-type: none"> Monitoring of surface water quality will be conducted on a regular basis as stated in the EM&A Manual. 	To minimise potential water quality impacts on surface water arising from the construction works	Extension Site	Extension Contractor	✓				<i>WPCO</i> <i>Water-TM</i>
6.8.2	WQ11	<p><u>Sewage Effluents</u></p> <ul style="list-style-type: none"> Sufficient chemical toilets will be provided for the construction workforce. 	To minimise potential water quality impacts arising from the sewage effluents	Extension Site	Extension Contractor	✓				<i>WPCO</i>
6.8.2	WQ12	<ul style="list-style-type: none"> Untreated sewage will not be allowed to discharge into the surrounding water body. 	To minimise potential water quality impacts arising from the sewage effluents	Extension Site	Extension Contractor	✓				<i>WPCO</i> <i>WDO</i>
6.8.2	WQ13	<ul style="list-style-type: none"> A licensed waste collector will be employed to clean the chemical toilets on a regular basis. 	To minimise potential water quality impacts arising from the sewage effluents	Extension Site	Extension Contractor	✓				<i>WPCO</i> <i>WDO</i>

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<i>Water Quality – Operation/Restoration and Aftercare Phases</i>										
6.9.1	WQ14	<u>Surface Water Management</u>								
		<ul style="list-style-type: none"> Inspections of the drainage system, sand traps, settlement ponds and surface water channels will be performed regularly to identify areas necessary for maintenance, cleaning or repair. 	To minimise potential water quality impacts on surface water arising from the landfill operations.	Extension Site	Extension Contractor			✓		WPCO <i>Technical Memorandum Standards for Effluents Discharged into Drainage and Sewerage Systems, Inland and Inshore Waters (Water-TM)</i> <i>EIAO-TM Annex 6</i>
		<ul style="list-style-type: none"> Regular maintenance and replacement, if required, of the HDPE liner will be conducted to prevent degradation from affecting the performance of the capping system. 	To minimise potential water quality impacts on surface water arising from the landfill operations.	Extension Site	Extension Contractor			✓		WPCO <i>Water-TM</i> <i>EIAO-TM Annex 6</i>
		<ul style="list-style-type: none"> Monitoring of surface water quality will be conducted on a regular basis as stated in the EM&A Manual. 	To minimise potential water quality impacts on surface water arising from the landfill operations.	Extension Site	Extension Contractor			✓	✓	WPCO <i>Water-TM</i>
6.9.2	WQ15	<u>Groundwater Management</u>								
		<ul style="list-style-type: none"> The groundwater management facilities including the groundwater monitoring wells and the collection sumps will be inspected regularly during routine groundwater monitoring programme. 	To minimise potential water quality impacts on groundwater arising from the landfill operations.	Extension Site	Extension Contractor			✓	✓	WPCO <i>Water-TM</i> <i>EIAO-TM Annex 6</i>
		<ul style="list-style-type: none"> Monitoring of groundwater water quality will be conducted on a regular basis as stated in the EM&A 	To minimise potential water quality impacts on	Extension Site	Extension Contractor			✓	✓	WPCO <i>Water-TM</i>

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						D	C	O/R	A	
		Manual.	groundwater arising from the landfill operations.							EIAO-TM Annex 6
6.9.3	WQ16	<u>Leachate Management</u>								
		<ul style="list-style-type: none"> The leachate pump houses and related ancillary equipment will be inspected regularly and repairs, if necessary. 	To minimise potential water quality impacts on surrounding water bodies arising from the landfill operations.	Leachate pump houses and related ancillary equipment	Extension Contractor		✓	✓		WPCO Water-TM EIAO-TM Annex 6
		<ul style="list-style-type: none"> For equipment such as pumps that require routine scheduled maintenance, the maintenance will be performed following manufacturer's recommended frequency. 	To minimise potential water quality impacts on surrounding water bodies arising from the landfill operations.	Leachate pumps	Extension Contractor		✓	✓		WPCO Water-TM
		<ul style="list-style-type: none"> Preventive maintenance will be implemented so that the possibility for forced shutdown during wet season will be kept to minimal. 	To minimise potential water quality impacts on surrounding water bodies arising from the landfill operations.	Leachate treatment plant	Extension Contractor		✓	✓		WPCO Water-TM EIAO-TM Annex 6
		<ul style="list-style-type: none"> Emergency procedures or a contingency plan will be established when the LTP is malfunctioned. 	To minimise potential water quality impacts on surrounding water bodies arising from the landfill operations.	Leachate treatment plant	Extension Contractor		✓	✓		WPCO Water-TM EIAO-TM Annex 6
		<ul style="list-style-type: none"> There will be sufficient redundancy in the system to handle the leachate flow even if one treatment train is down for maintenance. The leachate may be required to temporarily store within the landfill if the leachate buffer tanks are full and leachate cannot be transported to the LTP for treatment. 	To minimise potential water quality impacts on surrounding water bodies arising from the landfill operations.	Leachate treatment plant	Extension Contractor		✓	✓		WPCO Water-TM EIAO-TM Annex 6

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						D	C	O/R	A	
		<ul style="list-style-type: none"> Monitor the quality of effluent discharged from the LTP 	To ensure discharge quality comply with WPCO requirement	Leachate treatment plant discharge point	Extension Contractor			✓	✓	WPCO Water-TM
6.10.1	WQ17	<u>Potential Leakage of Leachate</u>								
		<ul style="list-style-type: none"> Regular groundwater quality monitoring will be carried out to monitor the performance of the leachate containment system. 	To minimise potential water quality impacts on surrounding water bodies arising from the landfill operations.	Extension Site	Extension Contractor			✓	✓	WPCO Water-TM
		<ul style="list-style-type: none"> Maintenance and replacement of the capping system should be carried out, if necessary, to prevent control infiltration and leachate seepage from any damaged cap. 	To minimise potential water quality impacts on surrounding water bodies arising from the leachate leakage.	Extension Site	Extension Contractor			✓	✓	WPCO Water-TM EIAO-TM Annex 6
		<ul style="list-style-type: none"> Maintaining control of the leachate level through extraction 	To minimise potential water quality impacts on surrounding water bodies arising from surface breakout of leachate.	Extension Site	Extension Contractor			✓	✓	WPCO Water-TM EIAO-TM Annex 6
Waste Management – Construction Phase										
7.6.1	WM1	All the necessary waste disposal permits are obtained prior to the commencement of construction work.	To ensure compliance with relevant statutory requirements	Before construction works commence	Extension Contractor	✓	✓			WDO
7.6.1	WM2	<u>Management of Waste Disposal</u>								
		The construction contractor will open a billing account with the EPD. Every construction waste or public fill load to be transferred to the Government waste	To ensure that adverse environmental impacts are prevented	Extension Site	Extension Contractor			✓		WDO Waste Disposal (Charges for Disposal)

EIA Ref.	EM&A Ref	Environmental Protection Measures	Objectives of the Recommended Measure & Main Concerns to address	Location of the Measures	Who to implement the measure?	When to implement the measure? ⁽¹⁾				What requirements or standards for the measure to achieve?
						D	C	O/R	A	
		disposal facilities such as public fill reception facilities, sorting facilities, landfills will required a valid "chit" which contains the information of the account holder to facilitate waste transaction recording and billing to the waste producer. A trip-ticket system will also be established to monitor the disposal of construction waste at the SENT Landfill and to control fly-tipping. The trip-ticket system will be included as one of the contractual requirements and implemented by the contractor. A recording system for the amount of waste generated, recycled and disposed of (including the disposal sites) will be established.								<i>of Construction Waste) Regulation;</i> <i>Works Bureau Technical Circular No.31/2004; and</i> <i>Annex 5 and Annex 6 of Appendix G of ETWBTC No. 19/2005)</i>
7.6.1	WM3	<u>Measures for the Reduction of Construction Waste Generation</u>								
		Inert and non-inert construction waste will be segregated and stored in different containers or skips to facilitate reuse or recycling of the inert waste and proper disposal of the non-inert construction waste. Specific areas of the work site will be designated for such segregation and storage if immediate use is not practicable.	To reduce construction waste generation	Extension Site	Extension Contractor		✓			WDO <i>EIAO-TM Annex 7</i>
7.6.1	WM4	<u>Chemical Waste</u>								
		The construction contractor will register as a chemical waste producer with the EPD. Chemical waste will be handled in accordance with the <i>Code of Practice on the Packaging, Handling and Storage of Chemical Wastes</i> .	To ensure proper handling of chemical waste	Extension Site	Extension Contractor		✓			WDO <i>Code of Practice on the Packaging, Handling and Storage of Chemical Wastes</i>

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						D	C	O/R	A	
7.6.1	WM5	<u>Sewage</u> An adequate number of portable toilets will be provided at the site to ensure that sewage from site staff is properly collected. The portable toilets will be desludged and maintained regularly by a specialist contractor.	To ensure proper handling of sewage	Extension Site	Extension Contractor	✓				WDO EIAO-TM Annex 7
7.6.1	WM6	<u>General Refuse</u> General refuse will be stored in enclosed bins separately from construction and chemical wastes. The general refuse will be delivered to the SENT Landfill, separately from construction and chemical wastes, on a daily basis to reduce odour, pest and litter impacts. Recycling bins will be provided at strategic locations to facilitate recovery of aluminium can and waste paper from the Extension Site. Materials recovered will be sold for recycling.	To ensure proper handling of general refuse	Extension Site	Extension Contractor	✓				WDO EIAO-TM Annex 7
7.6.1	WM7	<u>Staff Training</u> At the commencement of the construction works, training will be provided to workers on the concepts of site cleanliness and on appropriate waste management procedures, including waste reduction, reuse and recycling.	To ensure that adverse environmental impacts are prevented	Extension Site	Extension Contractor	✓				-
7.8	WM8	<u>Environmental Monitoring & Audit Requirements</u> Monthly audits of the waste management practices will be carried out during the construction phase to determine if wastes are being managed in accordance	To ensure that adverse environmental impacts are prevented	Extension Site	Extension Contractor	✓				WDO

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						D	C	O/R	A	
		with the good site practices described in this <i>EIA Report</i> . The audits examine all aspects of waste management including waste generation, storage, recycling, transport and disposal.								
Waste Management – Operation/Restoration Phase										
7.6.2	WM9	<u>Sludge</u> The Contractor will ensure that sludge generated from the LTP will be transported to the tipping face by enclosed containers. The sludge will be mixed with MSW and covered by construction waste immediately after tipping.	To ensure proper handling of sludge	Extension Site	Extension Contractor			✓		WDO <i>EIAO-TM Annex 7</i>
7.6.2	WM10	<u>Chemical Waste</u> The construction contractor will register as a chemical waste producer with the EPD. Chemical waste will be handled in accordance with the <i>Code of Practice on the Packaging, Handling and Storage of Chemical Wastes</i> .	To ensure proper handling of chemical waste	Extension Site	Extension Contractor			✓		WDO <i>EIAO-TM Annex 7</i> <i>Code of Practice on the Packaging, Handling and Storage of Chemical Wastes</i>
7.6.2	WM11	<u>Sewage</u> All sewage from the operation staff will be diverted to the LTP for treatment or public sewer, if available.	To ensure proper handling of sewage	Extension Site	Extension Contractor			✓		WDO <i>EIAO-TM Annex 7</i>
7.6.2	WM12	<u>General Refuse</u> General refuse will be stored in enclosed bins and	To ensure proper	Extension Site	Extension			✓		WDO

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						D	C	O/R	A	
		disposed of at the tipping area on a daily basis to reduce odour, pest and litter impacts. Recycling bins will be provided at strategic locations to facilitate recovery of aluminium can and waste paper from the Extension Site. Materials recovered will be sold for recycling.	handling of general refuse		Contractor					EIAO-TM Annex 7
Waste Management - Aftercare Phase										
7.6.3	WM13	<i>Sludge</i> The Contractor will ensure that all dewatered sludge (>30% dry solids) generated from the LTP be transported to a waste disposal facility eg other landfills or sludge treatment facility for proper disposal on a daily basis.	To ensure proper handling of sludge	Infrastructure area	Extension Contractor				✓	WDO EIAO-TM Annex 7
7.6.3	WM14	<i>Sewage</i> All sewage from the aftercare staff will be treated at the LTP or directed to the public sewer, if available.	To ensure proper handling of sewage	Infrastructure area	Extension Contractor				✓	WDO EIAO-TM Annex 7
7.6.3	WM15	<i>General Refuse</i> General refuse will be stored in enclosed bins and disposed of at a waste disposal facility eg other landfills or transfer stations on a daily basis to reduce odour, pest and litter impacts. Recycling bins will be provided at strategic locations to facilitate recovery of aluminium can and waste paper from the Extension Site. Materials recovered will be sold for recycling.	To ensure proper handling of general refuse	Extension Site	Extension Contractor				✓	WDO EIAO-TM Annex 7

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						D	C	O/R	A		
<i>Landfill Gas Hazards - Design and Construction Phase</i>											
8.6.1	LFG1	<p>The following precautionary measures have been recommended to protect workers from potential risks:</p> <ul style="list-style-type: none"> • During all works, safety procedures will be implemented to minimise the risks of fires and explosions and asphyxiation of workers (especially in confined space). • Safety officers, specifically trained with regard to landfill gas related hazards and the appropriate actions to take in adverse circumstances, will be present on all worksites throughout the works. • All personnel who work on site and all visitors to the site will be made aware of the possibility of ignition of gas in the vicinity of the works, the possible presence of contaminated water and the need to avoid physical contact with it. • Those staff who work in, or have responsibility for 'at risk' areas, including bore piling and excavation works, will receive appropriate training on working in areas susceptible to landfill gas. • Any offices/quarters set up on site will take precautions against landfill gas ingress, such as being raised off the ground. Other storage premises, e.g. shipping containers, where this is not possible will be well ventilated prior to entry. • Adequate precautions to prevent the accumulation of landfill gas under site buildings and within storage shed will be taken by raising buildings off 	To protect workers from landfill gas risk	All construction works area	Extension Contractor		✓				<p><i>Paragraphs 8.3 to 8.49 of EPD's Landfill Gas Hazards Assessment Guidance Note</i></p> <p><i>EIAO-TM Annex 7</i></p>

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						D	C	O/R	A	
		<p>the ground where appropriate and 'airing' storage containers prior to entry by personnel and ensuring adequate ventilation at all times.</p> <ul style="list-style-type: none"> Smoking and naked flames will be prohibited within confined spaces. 'No Smoking' and 'No Naked Flame' notices in Chinese and English will be posted prominently around the construction site. Safety notices should be posted warning of the potential hazards. Welding, flame-cutting or other hot works may only be carried out in confined spaces when controlled by a 'permit to work' procedure, properly authorised by the Safety Officer. The permit to work procedure will set down clearly the requirements for continuous monitoring of methane, carbon dioxide and oxygen throughout the period during which the hot works are in progress. The procedure will also require the presence of an appropriately qualified person who shall be responsible for reviewing the gas measurements as they are made, and who shall have executive responsibility for suspending the work in the event of unacceptable or hazardous conditions. Only those workers who are appropriately trained and fully aware of the potentially hazardous conditions which may arise will be permitted to carry out hot works in confined areas. During the construction works, adequate fire extinguishers and breathing apparatus sets will be made available on site and appropriate training 								

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						D	C	O/R	A	
		given in their use.								
8.6.2	LFG2	<p>Monitoring will be undertaken when construction works are carried out in confined space within the consultation zone. The monitoring requirements and procedures specified in Paragraphs 8.23 to 8.28 of EPD's <i>Guidance Note</i> will be followed.</p> <p>In the event of the trigger levels being exceeded, it is recommended that a person, such as the Safety Officer, is nominated, with deputies, to be responsible for dealing with any emergency which may occur due to landfill gas. In an emergency situation, the nominated person, or his deputies, shall have the necessary authority and shall ensure that the confined space is evacuated and the necessary works implemented for reducing the concentrations of gas. The appropriate organisations shall be contact.</p>	To protect workers from landfill gas risk	Confined space within the construction works area	Extension Contractor		✓			<p><i>Paragraphs 8.23 to 8.28 of EPD's Landfill Gas Hazards Assessment Guidance Note</i></p> <p><i>EIAO-TM Annex 7</i></p>
8.6.3	LFG3	<p>The design of the landfill gas management system and the landfill gas precautionary measures to be adopted on-site will be done by a landfill gas specialist consultant appointed by the Extension contractor, who has comprehensive knowledge on landfill characteristics, potential landfill gas hazards and appropriate precautionary measures to minimise hazards. Moreover, the landfill gas management system and landfill gas precautionary measures will be checked and certified by a qualified independent consultant.</p> <p>During the detailed design stage, a review of this preliminary qualitative risk assessment will be carried out, a detailed qualitative landfill gas risk assessment</p>	To minimise landfill gas hazards by appropriate design	Extension Site	Extension Contractor		✓			<i>EIAO-TM Annex 7</i>

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						D	C	O/R	A	
		will be prepared and the report together with the detailed design of gas protection measures will be submitted to EPD for vetting.								
8.6.3	LFG4	Implementation of engineering measures according to Contract Specification requirements. These measures will include the placement of liner and installation of landfill gas management system to contain, manage and control landfill gas.	To protect workers from landfill gas risk	Extension Site	Extension Contractor	✓	✓	✓	✓	EIAO-TM Annex 7
8.6.3	LFG5	Engineering measures to significant engineering measures will be required in the design of the Extension to protect the staff working in the infrastructure area. These measures include a combination of passive and active systems (examples are recommended in EPD's <i>Guidance Notes</i>). Landfill gas monitoring boreholes will be installed at the edge of the waste slope between the waste and the new infrastructure area to monitor the migration of landfill gas, if any.	To protect workers from landfill gas risk	Infrastructure Area	Extension Contractor	✓	✓			EPD's <i>Landfill Gas Hazards Assessment Guidance Note</i> EIAO-TM Annex 7
8.6.3	LFG6	For future developments in TKOIE and TKO Area 137 which fall into the Landfill Consultation Zone of the Extension, the project proponents should strictly follow the recommendations in the HKPSG and the <i>ProPECC PN 3/96</i> to carry out landfill gas hazard assessment for the developments and design/implement suitable precautionary and protection measures to render the development as safe as practicable. These precautionary measures may include passive gas control e.g. provision of barriers to the movement of landfill gas.	To protect workers and future site operator from landfill gas risk		Future Developers/operators of the development site within the Extension Consultation Zone in TKO Area 137	✓	✓			<i>Landfill Gas Hazards Assessment Guidance Note</i> <i>ProPECC PN 3/96</i> EIAO-TM Annex 7

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						D	C	O/R	A	
					Consultation Zone in TKO Area 137					
Landfill Gas Hazards – Operation, Restoration and Aftercare Phases										
8.6.4	LFG7	To train and ensure staff to take appropriate precautions at all times when entering enclosed spaces or plant rooms. Undertake regular monitoring of landfill gas at the perimeter boreholes to detect if there are any signs of off-site landfill gas migration. Prepare and implement emergency plan in case off-site landfill gas migration is detected. A permanent gas monitoring system with alarm will be installed and operated in all occupied on-site buildings.	To protect workers from landfill gas risk	Extension Site	Extension Contractor	✓	✓			<i>Landfill Gas Hazards Assessment Guidance Note</i>
8.7	LFG8	<u>Environmental Monitoring & Audit Requirements</u> Undertake regular monitoring of landfill gas within the Extension and the Extension boundary as required by the Contract Specification.	To protect workers from landfill gas risk	Within the Extension and the Extension boundary	Extension Contractor	✓	✓			<i>Landfill Gas Hazards Assessment Guidance Note</i>

EIA Ref.	EM&A Ref	Environmental Protection Measures	Objectives of the Recommended Measure & Main Concerns to address	Location of the Measures	Who to implement the measure?	When to implement the measure? ⁽¹⁾				What requirements or standards for the measure to achieve?
						D	C	O/R	A	
<i>Ecology - Construction Phase</i>										
9.10.2	EC1	<p>Measures to control construction runoff:</p> <ul style="list-style-type: none"> Exposed soil areas will be minimised to reduce the contamination of runoff and erosion; To prevent stormwater runoff from washing across exposed soil surfaces, perimeter channels will be constructed in advance of site formation works and earthworks and intercepting channels will be provided for example along the edge of excavation; Silt removal facilities, channels and manholes will be maintained and the deposited silt and grit will be removed regularly to ensure they are functioning properly at all times; Temporary covers such as tarpaulin will also be provided to minimise the generation of high suspended solids runoff; The surface runoff contained any oil and grease will pass through the oil interceptors; and, Control measures, including implementation of excavation schedules, lining and covering of excavated stockpiles will be implemented to minimise contaminated stormwater run-off from the Extension site. 	To minimise potential water quality impacts affecting ecological resources	All construction works area	Extension Contractor				✓	<p><i>EIAO-TM Annex 16</i></p> <p><i>ProPECC PN 1/94</i></p> <p><i>Water Pollution Control Ordinance (WPCO)</i></p> <p><i>EIAO-TM Annex 6</i></p>

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9.10.2	EC2	<u>Good Construction Practice:</u>								<i>EIAO-TM Annex 16</i>
		<ul style="list-style-type: none"> Fences along the boundary of the Extension Site will be erected before the commencement of works to prevent vehicle movements, and encroachment of personnel, onto adjacent areas. The work site boundaries will be regularly checked to ensure that they are not breached and that damage does not occur to surrounding areas. The quantity of explosive used and the dimensions and spacings of shotholes will be carefully designed to minimise air overpressure, flyrock generation and ground-borne vibration. Use of fine blast nets, screens and other protective covers to prevent the projection of flying fragments and material resulting from blasting. The loose material and stones in the site will be removed before blasting to minimise flying fragments affecting the surrounding areas and the blasting area will also be wetted prior to blasting to minimise dust. 	To minimise potential ecological impacts arising from the Project	Extension Site	Extension Contractor		✓			
<i>Ecology – Operation, Restoration and Aftercare Phases</i>										
9.10.2	EC3	<u>Measures for Controlling Leakage of Landfill Leachate</u>								
		Leachate will be contained within the Extension Site by the proposed impermeable leachate containment system and collected by the installation of drainage system to prevent potential migration of leachate to habitats in the vicinity.	To minimise potential water quality impact affecting the ecological resources	Extension Site	Extension Contractor		✓	✓		<i>EIAO-TM Annex 16</i> <i>WPCO</i> <i>Water-TM</i> <i>EIAO-TM Annex 6</i>

EIA Ref.	EM&A Ref	Environmental Protection Measures	Objectives of the Recommended Measure & Main Concerns to address	Location of the Measures	Who to implement the measure?	When to implement the measure? ⁽¹⁾				What requirements or standards for the measure to achieve?
						D	C	O/R	A	
9.10.2	EC4	<p><u>Measures for Controlling Migration of Landfill Gas</u></p> <p>Disturbance to habitat in the vicinity and associated wildlife due to migration of landfill gas will be prevented by proper management of the landfill gas generated from the Extension. Ignition fires will be prohibited to occur within the boundary of the Extension Site. Surface emission and off-site migration of landfill gas will be regularly monitored.</p>	To minimise potential landfill gas migration affecting ecological resources	Extension Site	Extension Contractor			✓	✓	<i>EIAO-TM Annex 16</i>
9.10.3	EC5	<p>The following compensation planting is recommended as the mitigation measures for the habitat affected due to the Extension:</p> <ul style="list-style-type: none"> Provision of 6 ha of mixed woodland planting to compensate the loss of shrubland. To enhance the ecological value of the encroached area within CWBCP, mixed woodland will be planted on the affected areas (approximately 6 ha, originally shrubland); and Provision of a mosaic of grassland and shrubland in the remaining areas of the Extension Site. <p>Compensatory planting and restoration of the Extension can be implemented progressively according to the filling plan of the Extension.</p>	Compensation of habitat loss due to the Project	Extension Site	Extension Contractor			✓	✓	<i>EIAO-TM Annex 16</i>
9.10.3	EC6	The mixture of grassland, shrubland and woodland habitats are recommended to diversify the habitats for supporting various wildlife in particular butterflies, birds and herpetofauna and blend into the existing undisturbed ecological environment.	To diversify habitats	Extension Site	Extension Contractor			✓	✓	<i>EIAO-TM Annex 16</i>
9.10.3	EC7	Indigenous plant species of shallow root system,	To enhance ecological	Extension Site	Extension			✓	✓	<i>EIAO-TM Annex 16</i>

EIA Ref.	EM&A Ref	Environmental Protection Measures	Objectives of the Recommended Measure & Main Concerns to address	Location of the Measures	Who to implement the measure?	When to implement the measure? ⁽¹⁾				What requirements or standards for the measure to achieve?
						D	C	O/R	A	
		softwood in nature and adaptive to sea shore habitat are recommended to be used in the restoration plan, which can establish well in coastal area with exposure to strong wind and salt spray, with sand soil base. Taking consideration of the relative poor substrate and the difficulties of establishment of some native trees in Hong Kong, it is recommended to include approximately 20% of non-native tree species in the compensatory woodland. The non-native tree species can serve as a nurse species to facilitate the establishment of the native tree species, especially the shading, and it can be replaced by established native tree species progressively. Plant species can also make reference to food plants of butterfly species (in particularly butterfly species of conservation interests recorded within the CWBCP).	value of the habitats		Contractor					
9.10.3	EC8	It is also recommended that a trial nursery for native plant species be set up to fine tune the planting matrix and management intensity of the recommended indigenous tree species for the restoration of the Extension. It should be noted that native shrubs and tree species had been used for restoration of the existing SENT Landfill, native plant species that could not successfully be established on the existing SENT Landfill should be reviewed before the preparation of the compensatory planting list. Special care and intensive management of native plant should be implemented in order to ensure proper establishment of the native plants.	To select the most suitable indigenous tree species for the Extension	Extension Site	Extension Contractor	✓	✓	✓		EIAO-TM Annex 16
9.12.1	EC9	<u>Environmental Monitoring & Audit Requirements</u> The implementation of the ecological mitigation	To ensure that adverse	Extension	Extension	✓	✓	✓		EIAO-TM Annex 16

EIA Ref.	EM&A Ref	Environmental Protection Measures	Objectives of the Recommended Measure & Main Concerns to address	Location of the Measures	Who to implement the measure?	When to implement the measure? ⁽¹⁾				What requirements or standards for the measure to achieve?
						D	C	O/R	A	
		measures should be checked as part of the environmental monitoring and audit procedures during the construction period.	ecological impacts are prevented		Contractor					
Landscape and Visual – Construction Phase										
10.6.5	LV1	CM1 - The construction area and area allowed for the contractor's office, leachate treatment plant and laboratory areas will be minimised to a practical minimum, to avoid impacts on adjacent landscape.	To minimise the landscape and visual impacts	Extension Site	Extension Contractor	✓				EIAO-TM Annex 18 and ETWBC 3/2006
10.6.5	LV2	CM2 - Topsoil, where identified, will be stripped and stored for re-use in the construction of the soft landscape works, where practical. The Contract Specification will include storage and reuse of topsoil as appropriate.	To minimise the landscape and visual impacts	All construction works area	Extension Contractor	✓				EIAO-TM Annex 18
10.6.5	LV3	CM3 - All existing trees at the edges of the landfill will be carefully protected during construction. Detailed Tree Protection Specification will be provided in the Contract Specification. Under this Specification, the Contractor will be required to submit, for approval, a detailed working method statement for the protection of trees prior to undertaking any works adjacent to all retained trees, including trees in Contractor's works areas.	To minimise the landscape and visual impacts	Potential impacted area	Extension Contractor	✓				EIAO-TM Annex 18 and ETWBC 3/2006
10.6.5	LV4	CM4 - Trees unavoidably affected by the works will be transplanted, where necessary and practical. A detailed Tree Transplanting Specification will be provided in the Contract Specification, if applicable. Sufficient time for necessary tree root and crown preparation periods will be allowed in the project programme.	To minimise the landscape and visual impacts	Potential impacted area	Extension Contractor	✓	✓			EIAO-TM Annex 18 and ETWBC 3/2006

EIA Ref.	EM&A Ref	Environmental Protection Measures	Objectives of the Recommended Measure & Main Concerns to address	Location of the Measures	Who to implement the measure?	When to implement the measure? ⁽¹⁾				What requirements or standards for the measure to achieve?
						D	C	O/R	A	
10.6.5	LV5	CM5 - Within 3 months of taking possession of the Extension Site, the Contractor will plant advance screen planting of <i>Casuarina sp</i> or <i>Acacia sp</i> at Light Standard size at 1.5m centres along the High Junk Peak Trail so as to screen views of the Works from the trail. Tree planting locations will be agreed with AFCD. Works will be completed within 9 months of taking possession of the Extension Site.	To minimise the landscape and visual impacts	At High Junk Peak Hiking Trail	Extension Contractor		✓			<i>EIAO-TM Annex 18</i>
10.6.5	LV6	CM6 - The Contractor's office, leachate treatment plant and laboratory will be given an aesthetic treatment in earth tones to reduce their visual impact and albedo and blend them into the surrounding landscape.	To minimise the landscape and visual impacts	Infrastructure area	Extension Contractor	✓	✓			<i>EIAO-TM Annex 18</i>
10.6.5	LV7	CM7 - The Contractor's office, leachate treatment plant and laboratory will be surrounded by a minimum of 5m wide and 0.75m high earth bund on the west and south sides planted with a dense screen of tree and shrub vegetation. Additional tree planting will be provided in unused spaces with thin infrastructure site, along access roads and in and around car parks. This will be supplemented with shrub planting, where appropriate.	To minimise the landscape and visual impacts	Infrastructure area	Extension Contractor	✓	✓			<i>EIAO-TM Annex 18 and ETWBC 7/2002</i>
10.6.5	LV8	CM8 - Planting trials will be carried out in an on-site nursery prior to implementation of the first phase of restoration to establish the best planting matrix and management intensity of the recommended plant materials for the restoration.	To minimise the landscape and visual impacts	Extension Site	Extension Contractor		✓			<i>EIAO-TM Annex 18</i>
10.8	LV9	During the preparation of the detailed landscape design plan, the design submission will be audited against the recommendation proposed in this <i>EIA Report</i> by the Registered Landscape Architect from the	To ensure the implementation of mitigation measures proposed in this EIA	Extension Site	Extension Contractor/IEC	✓	✓			<i>EIAO-TM Annex 18</i>

EIA Ref.	EM&A Ref	Environmental Protection Measures	Objectives of the Recommended Measure & Main Concerns to address	Location of the Measures	Who to implement the measure?	When to implement the measure? ⁽¹⁾				What requirements or standards for the measure to achieve?
						D	C	O/R	A	
		IEC.	Report							
Landscape and Visual – Operation/Restoration Phase										
10.6.5	LV10	OM1 - Landfill materials will be covered with general fill material or CDG on a daily basis to reduce visual impact.	To minimise the landscape and visual impacts	Tipping area	Extension Contractor			✓		EIAO-TM Annex 18
10.6.5	LV11	OM2 - Filling and restoration will be phased during the course of operations in a minimum of 6 phases, the restoration of each phase to commence immediately on the completion of filling in that phase.	To minimise the landscape and visual impacts	Tipping area	Extension Contractor			✓		EIAO-TM Annex 18
10.6.5	LV12	OM3 - Catch fences will be erected at the perimeter of the waste boundary, to ensure that all waste stays within the site and is not blown into surrounding areas.	To minimise the landscape and visual impacts	Tipping area	Extension Contractor			✓		EIAO-TM Annex 18
10.6.5	LV13	OM4 - All night-time lighting will be reduced to a practical minimum both in terms of number of units and lux level and will be hooded and directional.	To minimise the landscape and visual impacts	Tipping area	Extension Contractor			✓		EIAO-TM Annex 18
10.8	LV14	The condition of the restoration plantation will be audited at monthly intervals by a Registered Landscape Architect from the IEC.	To check the restoration plantation	Extension Site	Extension Contractor/IEC			✓		EIAO-TM Annex 18
Landscape and Visual – Aftercare Phase										
10.6.5	LV15	AM1 - The Extension will be restored to resemble a natural hillside/ upland landscape as far as possible.	To minimise the landscape and visual impacts	Extension Site	Extension Contractor	✓	✓	✓		EIAO-TM Annex 18
10.6.5	LV16	AM2 - Final restoration earthworks grading will provide both vertical and horizontal variation to simulate as far as practicable, natural terrain.	To minimise the landscape and visual impacts	Extension Site	Extension Contractor	✓	✓	✓		EIAO-TM Annex 18

EIA Ref.	EM&A Ref	Environmental Protection Measures	Objectives of the Recommended Measure & Main Concerns to address	Location of the Measures	Who to implement the measure?	When to implement the measure? ⁽¹⁾				What requirements or standards for the measure to achieve?
						D	C	O/R	A	
10.6.5	LV17	AM3 - Compensatory Tree Planting for all felled trees will be provided to the satisfaction of relevant Government departments. Required numbers and locations of compensatory trees will be determined and agreed separately with Government during the Tree Felling Application process under ETWB-WBTC 3/2006.	To minimise the landscape and visual impacts	Potential impacted area	Extension Contractor	✓	✓	✓		<i>EIAO-TM Annex 18 and ETWBC 3/2006</i>
10.6.5	LV18	AM4 - The restored Extension will be substantially vegetated so as to mimic the patterns of natural vegetation on surrounding hills. At least 18.8ha of the area of the Extension will be planted with woodland mix planting at no less than 1.2m spacings. 80% of all plants planted should be native species. The remainder of the site should be planted as a grassland / shrub mosaic.	To minimise the landscape and visual impacts	Extension Site	Extension Contractor	✓	✓	✓		<i>EIAO-TM Annex 18</i>
10.6.5	LV19	AM5 - Drainage channels will be treated with stone pitching or coloured pigment in an earth tone and will not be untreated concrete.	To minimise the landscape and visual impacts	Extension Site	Extension Contractor	✓	✓	✓		<i>EIAO-TM Annex 18</i>
10.6.5	LV20	AM6 - Soil mix in accordance with the Government's General Specification for Engineering Works will be used in the restoration works. In areas of tree planting, soil mix will not be less than 1.2m deep. In areas of scrub planting and grassland, it should not be less than 600mm deep.	To minimise the landscape and visual impacts	Extension Site	Extension Contractor	✓	✓	✓		<i>EIAO-TM Annex 18</i>
10.6.5	LV21	AM7 - All above ground structures, including gas wells and flares will be sensitively designed in a manner that responds to the existing and planned urban context, and minimises potential adverse landscape and visual impacts.	To minimise the landscape and visual impacts	Extension Site	Extension Contractor	✓	✓	✓		<i>EIAO-TM Annex 18</i>

EIA Ref.	EM&A Ref	Environmental Protection Measures	Objectives of the Recommended Measure & Main Concerns to address	Location of the Measures	Who to implement the measure?	When to implement the measure? ⁽¹⁾				What requirements or standards for the measure to achieve?
						D	C	O/R	A	
10.6.5	LV22	AM8 - Permanent access and maintenance tracks will not have an unfinished concrete surface. Acceptable finish materials might include granite, or concrete blocks in an earth tone colour.	To minimise the landscape and visual impacts	Extension Site	Extension Contractor	✓	✓	✓		<i>EIAO-TM Annex 18</i>
10.8	LV23	The restoration plantation will be audited quarterly by the Registered Landscape Architect from the IEC	To check the restoration plantation	Extension Site	Extension Contractor and IEC			✓		<i>EIAO-TM Annex 18</i>

Annex F

Groundwater Monitoring Data

Annex F Results of Groundwater Baseline Monitoring

Parameters	LOR	Unit	Monitoring Station															
			GW1				GW2				GW3				GW4			
			Week 1	Week 2	Week 3	Week 4	Week 1	Week 2	Week 3	Week 4	Week 1	Week 2	Week 3	Week 4	Week 1	Week 2	Week 3	Week 4
In-situ data																		
pH	-	-	5.74	5.98	5.87	6.08	5.45	5.45	5.48	5.43	7.04	7.16	7.13	7.15	6.89	7.08	7.13	7.08
Temperature	-	deg C	28.5	26.8	28.3	27.3	28.3	27.3	28.8	28.5	29.7	28.9	30.9	29.3	27.6	28.2	29.1	26.5
Electrical Conductivity Meter below	-	us	69	68	72	87	76	70	79	133	38.3	39.3	39.5	33.9	>3999	>3999	54.8	53
Groundwater Level	-	m	5.87	6.22	8.88	5.35	9.1	5.96	8.2	8.16	3.88	4.07	3.58	3.84	2.13	2.86	2.48	2.62
Salinity	-	ppt	-	0.042	0.036	0.042	-	0.035	0.039	0.065	>0.2	>0.2	>0.2	>0.2	>0.2	>0.2	>0.2	>0.2
Physical and Aggregate properties																		
Carbonate Alkalinity as CaCO ₃	1	mg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bicarbonate Alkalinity as CaCO ₃	1	mg/L	13	6	10	10	10	8	7	7	170	170	165	166	232	241	242	234
Total Alkalinity as CaCO ₃	1	mg/L	13	6	10	10	10	8	7	7	170	170	165	166	232	241	242	234
Inorganic Nonmetallic Parameters																		
Sulphate as SO ₄	5	mg/L	<5	<5	<5	<5	6	<5	5	<5	1670	1860	1720	1780	2180	2300	2150	1970
Chloride	1	mg/L	14	13	13	14	15	13	14	13	12100	11300	10600	12400	18300	17200	17000	17800
Ammonia as N	0.1	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.3	<0.1	0.9	1	1	1.1	3.2	3.4	3.2	3.4
Nitrite as N	0.01	mg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01
Nitrate as N	0.1	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Phosphorus as P	0.1	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1
Sulphide as S	0.1	mg/L	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.2	<0.2
Aggregate Organics																		
Total Organic Carbon	1	mg/L	22	3	4	2	4	<1	<1	<1	<5 (a)	<5 (a)	<5 (a)	<5 (a)	6	<5 (a)	<5 (a)	<5 (a)
Chemical Oxygen Demand	15	mg/L	106	17	<15	<15	22	<15	<15	<15	<25 (a)	<25 (a)	<25 (a)	<25 (a)	<25 (a)	<25 (a)	27	<25 (a)
Biochemical Oxygen Demand	2	mg/L	48	10	7	4	9	<4	<2	<2	<2	<2	<2	<2	12	<2	3	3

Parameters	LOR	Unit	Monitoring Station															
			GW1				GW2				GW3				GW4			
			Week 1	Week 2	Week 3	Week 4	Week 1	Week 2	Week 3	Week 4	Week 1	Week 2	Week 3	Week 4	Week 1	Week 2	Week 3	Week 4
Metals and Major Cations																		
Cadmium	0.1	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chromium	0.1	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Copper	0.1	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lead	0.1	mg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Manganese	0.1	mg/L	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	5	4.6	4.6	4.5	3	3.1	3	2.6
Nickel	0.1	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc	0.1	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Calcium	0.5	mg/L	1.19	1.66	1.46	1.56	1.09	0.62	1.06	0.51	604	508	481	428	510	467	417	345
Iron	0.1	mg/L	0.1	0.3	0.2	0.1	1.9	0.9	<0.1	<0.1	1.2	1.3	1.3	1.2	1.1	1.1	1.3	1.3
Potassium	0.5	mg/L	2.93	3.38	3.17	3.33	3.77	3.56	3.69	3.08	190	214	227	199	318	373	371	324
Magnesium	0.5	mg/L	0.60	0.68	0.64	0.69	0.86	0.67	1.12	0.53	651	890	870	830	1040	1310	1350	1170
Sodium	0.5	mg/L	14.6	11	13.1	11.1	15.3	10.7	13	9.6	6800	7070	6760	7040	10200	10400	10200	11000

Notes:

- (a) LOR: Limit of Reporting
- (b) Due to high chloride content, samples required dilution prior to COD and TOC analysis, the LOR has been adjusted accordingly.