FORM
5

Application No. :
Reference No. :
(For official use)

FORM 5
ENVIRONMENTAL IMPACT ASSESSMENT ORDINANCE
(CHAPTER 499)
SECTION 13(1)

Application for Variation of an Environmental Permit

PART A PREVIOUS APPLICATIONS

☐ No previous application for variation of an environmental permit.

☑ The environmental permit was previously amended.

Application No. : VEP-475/2015

PART B DETAILS OF APPLICANT

B1. Name : (person or company)

Civil Engineering and Development Department

[Note : In accordance with section 13(1) of the Ordinance, the person holding an environmental permit or a person who assumes responsibility for the designated project may apply for variation of the environmental permit.]

B2. Business Registration No. : (if applicable) [redacted]

B3. Correspondence Address : [redacted]

B4. Name of Contact Person : [redacted]

B5. Position of Contact Person : [redacted]

B6. Telephone No. : [redacted]

B7. Fax No. : [redacted]

B8. E-mail Address : (if any) [redacted]

PART C DETAILS OF CURRENT ENVIRONMENTAL PERMIT

C1. Name of the Current Environmental Permit Holder :

Civil Engineering and Development Department

C2. Application No. of the Current Environmental Permit : VEP-475/2015

C3. The Current Environmental Permit was Issued in : month / year

0 6 / 2 0 1 5

Important Notes : Please submit the application together with

(a) 3 copies of this completed form; and

(b) appropriate fee as stipulated in the Environmental Impact Assessment (Fees) Regulation

to the Environmental Protection Department at the following address :

The EIA Ordinance Register Office,
27th floor, Southorn Centre,130 Hennessy Road,
Wan Chai, Hong Kong.

☐ Tick (✓) the appropriate box

D1. Condition(s) in the Current Environmental Permit:	D2. Proposed Variation(s):	D3. Reason for Variation(s):	D4. Describe the environmental changes arising from the proposed variation(s):	D5. Describe how the environment and the community might be affected by the proposed variation(s):	D6. Describe how and to what extent the environmental performance requirements set out in the EIA report previously approved or project profile previously submitted for this project may be affected:	D7. Describe any additional measures proposed to eliminate, reduce or control any adverse environmental impact arising from the proposed variation(s) and to meet the requirements in the Technical Memorandum on Environmental Impact Assessment Process:
Part B (Description of Designated Project) Scale and Scope of Designated Project(s)	To revise the area of the proposed Kennedy Town Comprehensive Development Area site from about 3.4 ha to 2.6 ha after excluding Cadogan Street Temporary Garden from the Designated Project.	In 2016, the Government gazetted the draft Kennedy Town & Mount Davis Outline Zoning Plan (the OZP), in which the site of Cadogan Street Temporary Garden (CSTG) was planned to be rezoned for residential development. In August 2017, the Town Planning Board deliberated to retain CSTG area as an open space. Since there is no development or re-development plan at the site of CSTG against its current status, decontamination works are not required to maintain the current use of CSTG as an open space. Therefore, decontamination works within CSTG	Please refer to the Environmental Review Report, Sections 3 - 10.	Please refer to the Environmental Review Report, Sections 3 - 10.	Based on the assessment in the Environmental Review Report, the environmental performance requirements set out in the approved EIA report for the project is not exceeded or violated with the mitigation measures in place under the proposed changes	For excavation works, the limitation on the active works areas are revised to between 340m^2 and 1,200m^2 in different zone groups, depending on the reprovisioning options. Two air monitoring locations are proposed at CSTG (as shown in Appendix 3.14 of the Environmental Review Report) in addition to those as set out in the EM&A Manuals of the EIA Reports (Register No. EIAR-188/2015).
Part C (Permit Conditions) Specific Conditions	1. Delete "the existing Cadogan Street Temporary Garden," in the second sentence of EP Condition Part C Item 2.5 (v). 2. Vary the EP Condition Part C Item 2.20(a) as follows: (i) During excavation works, the maximum total active works area in operation at any one zone group for each reprovisioning option in the approved EIA Report (Register No. AEIAR-188/2015) and this VEP application shall be as follows: - reprovisioning option with 7-year programme which involves on-site reprovision of the public car					

	park and refuse collection point: No more than 1200m^2 for zone group 1A & 3 and zone group 2; no more than 400m^2 for zone group 1B & 1C - reprovisioning option with 4.5-year programme which does not involve on-site reprovision of the public car park and refuse collection point: No more than 800m^2 for zone group 1A & 3 and zone group 2; no more than 340m^2 for zone group 1B & 1C The indicative layout of zone groups is shown in Figure 8 of this Permit. (ii) For better control on the potential emission of hydrocarbons, heavy metals and fugitive dusts, the total active works area allowed at any one time over the entire Project site for each reprovisioning option shall be as follows: - reprovisioning option with 7-year programme which involves on-site reprovision of the public car park and refuse collection point: No more than 2800m^2 - reprovisioning option with 4.5-year programme which does not involve on-site reprovision of the public car park and refuse collection point: No more than 1940m^2	is proposed to be excluded from the scope of this Designated Project. No materials change arising from the proposed variations is expected. For details, please refer to the Environmental Review Report.				
Figure 1	Update Figure 1 of the EP to carve out CSTG.					
Figure 5	Update Figure 5 of the EP to carve out CSTG.					
Figure 8	Update Figure 8 of the EP to carve out CSTG.					
Appendix C Graphic C2	Update Graphic C2 of the EP to carve out CSTG.					
Appendix C Footnote [2]	Revise as "This part was prepared based on Graphic 6.1 of the Environmental Review Report."					

PART E DECLARATION BY APPLICANT

E1. I hereby certify that the particulars given above are correct and true to the best of my knowledge and belief. I understand the environmental permit may be suspended, varied or cancelled if any information given above is false, misleading, wrong or incomplete.

[redacted] [redacted] [redacted]

Signature of Applicant | Full Name in Block Letters | Position

SPECIAL DUTIES (WORKS) - CEDD - 土木工程拓展署 - 專責事務(工程)部 CEDD

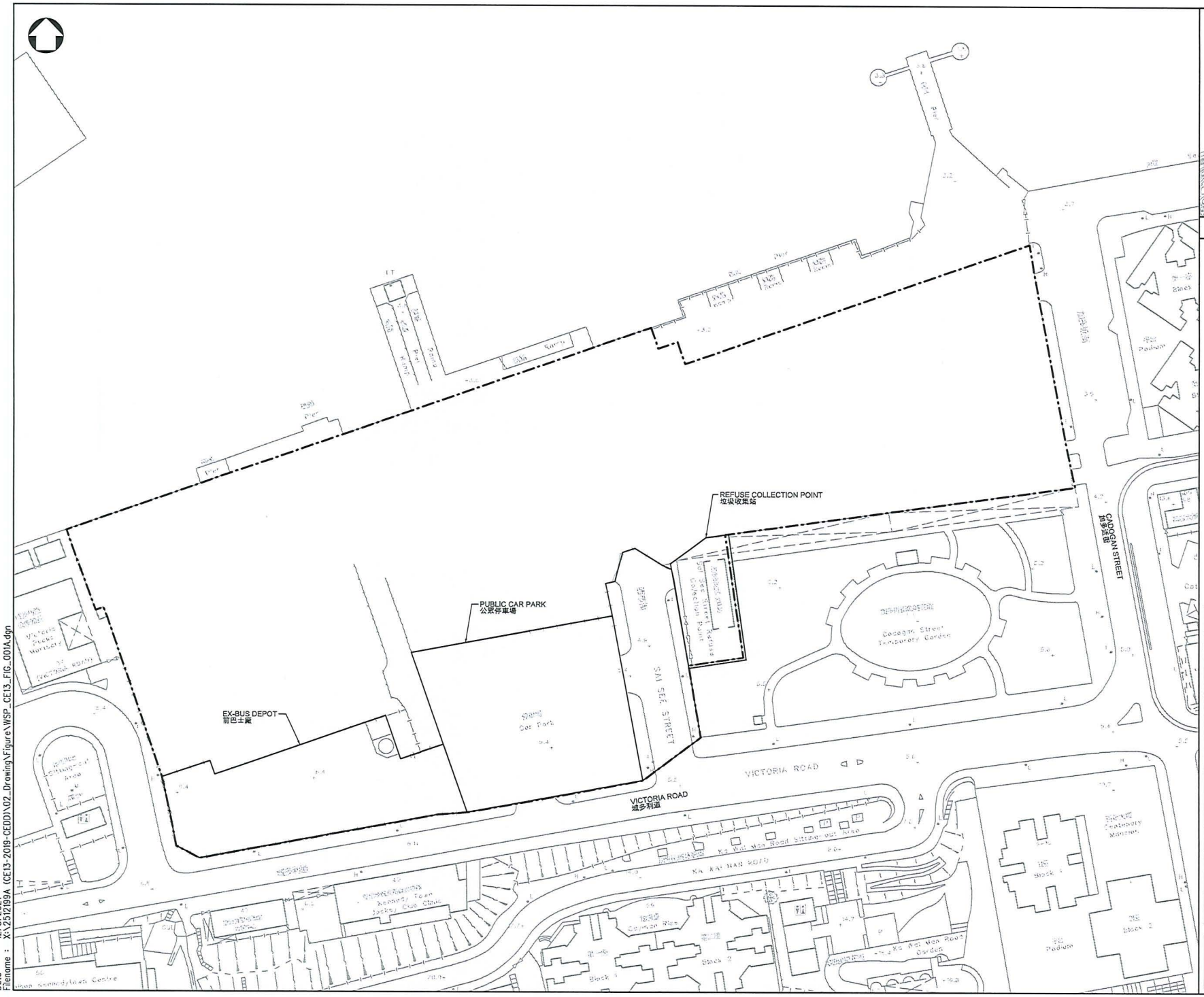
on behalf of Civil Engineering and Development Department | 2 Dec 2021

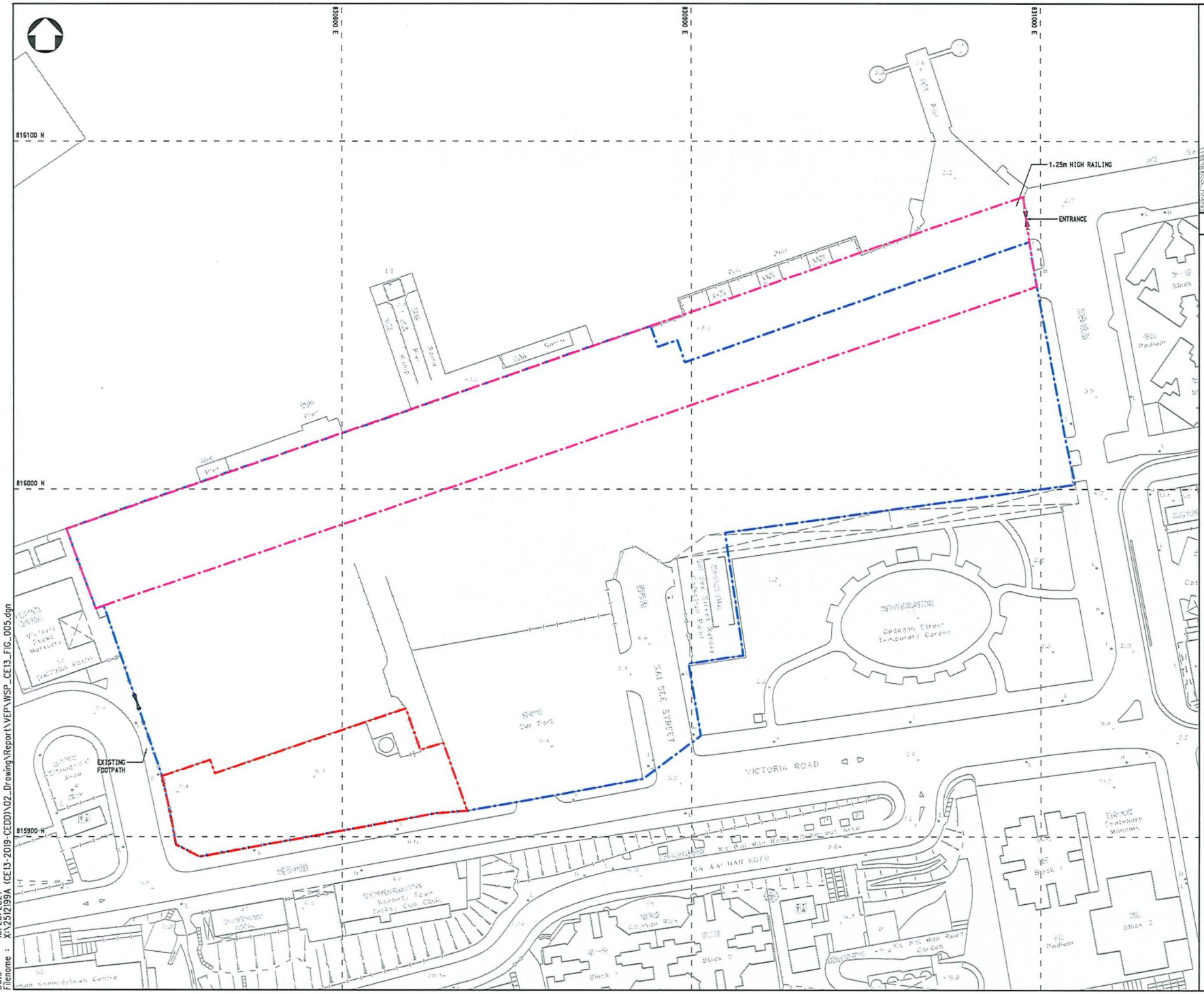
Company Name and Chop (as appropriate) | Date

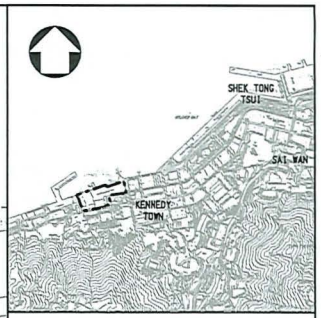
NOTES :

1. A person who constructs or operates a designated project in Part I of Schedule 2 of the Ordinance or decommissions a designated project listed in Part II of Schedule 2 of the Ordinance without an environmental permit or contrary to the permit conditions commits an offence under the Ordinance and is liable to a maximum fine of $5,000,000 and to a maximum imprisonment for 2 years.

2. A person for whom a designated project is constructed, operated or decommissioned and who permits the carrying out of the designated project in contravention of the Ordinance commits an offence and is liable to a maximum fine of $5,000,000 and to a maximum imprisonment for 2 years.


REFUSE COLLECTION POINT
垃圾收集站
PUBLIC CAR PARK
公眾停車場
EX-BUS DEPOT
前巴士廠
CAROGAN STREET
加多近街
SAI SEE STREET
VICTORIA ROAD
維多利道
KA WAI MAN ROAD
Pier
Cargo Handling Area
Cargo Handling Area 2
Public Cargo Working Area
Public Cargo Working Area 2
Victoria Public Mortuary
Victoria Public Mortuary Extension
Cargo Working Area
Cargo Working Area 2
Cargo Working Area 3
Cargo Working Area 4
Cargo Working Area 5
Cargo Working Area 6
Cargo Working Area 7
Cargo Working Area 8
Cargo Working Area 9
Cargo Working Area 10
Cargo Working Area 11
Cargo Working Area





LOCATION PLAN

LEGEND :

- PHASE 2 PROJECT BOUNDARY
- PRPOSED FUTURE WATERFRONT PROMENADE (SUBJECT TO CHANGE)
- BOUNDARY OF NEW WORLD FIRST BUS DEPOT

Rev	Description	By	Date

Consultant

wsp

Project title

GROUND DECONTAMINATION WORKS AT THE SITE OF EX-KENNEDY TOWN INCINCERATION PLANT/ ABATTOIR AND ADJOINING AREA - DESIGN AND CONSTRUCTION

Drawing title

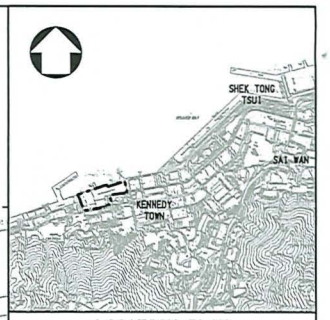
PHASE 2 BOUNDARY AND LOCATION OF THE NEW WORLD FIRST BUS DEPOT

Drawing no.		Rev.
Figure 5		-
Drawn CAD	Date -	Checked - / Approved -
Scale -	Status -	

© COPYRIGHT RESERVED

土木工程拓展署
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

Date : 10/25/2021
Filename : X:\25\2199A (CE13-2019-CEDD)\02_Drawing\Report\VEP\WSP_CE13_FIG_005.dgn



LOCATION PLAN

LEGEND :

- PROJECT SITE BOUNDARY
- BIOPILE A+B & C
- BIOPILE D

Rev	Description	By	Date

Consultant

wsp

Project title

GROUND DECONTAMINATION WORKS AT THE SITE OF EX-KENNEDY TOWN INCINCERATION PLANT/ ABATTOIR AND ADJOINING AREA – DESIGN AND CONSTRUCTION

Drawing title

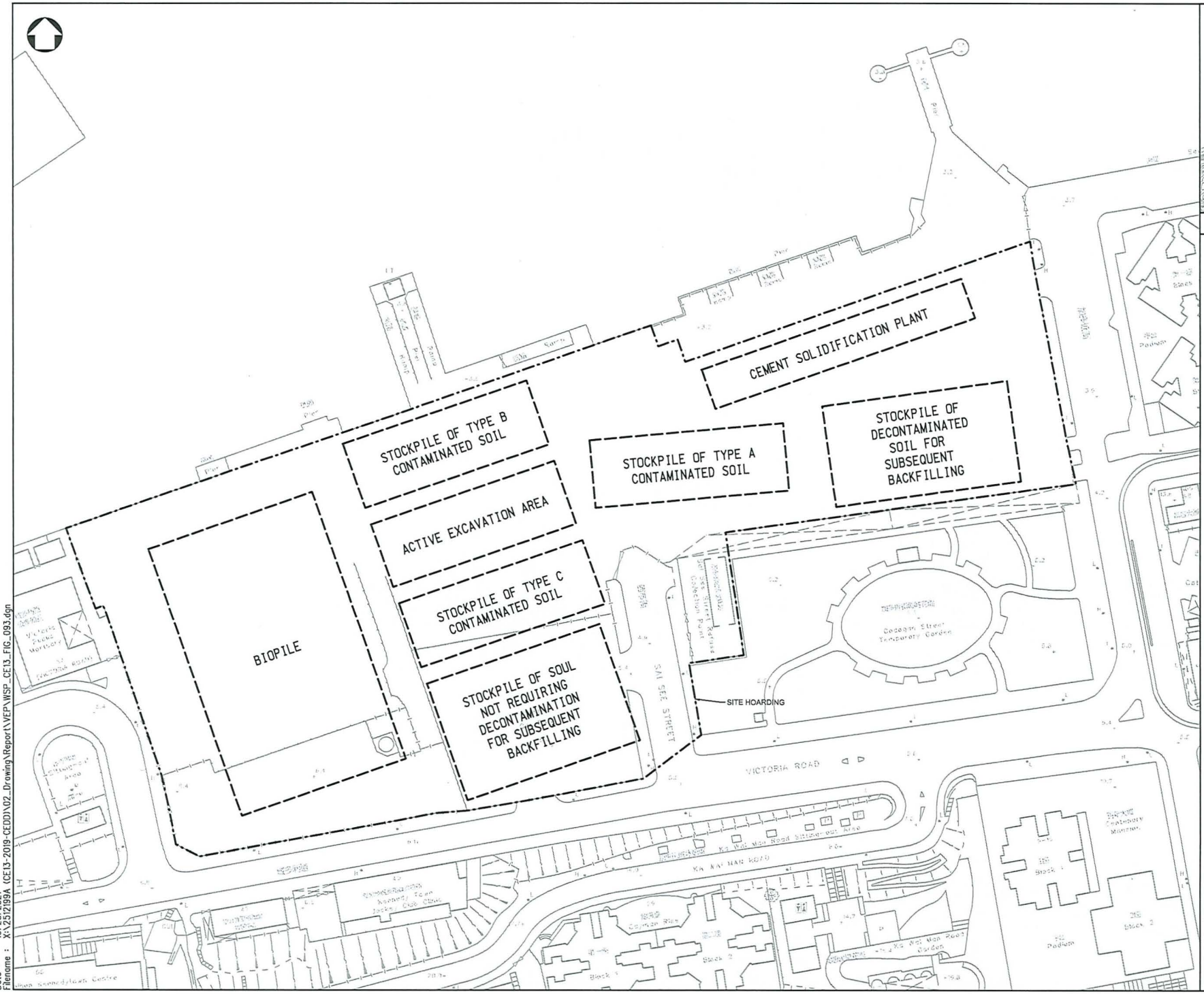
PHASE 2
GROUND DECONTAMINATIONS WORKS – INDICATIVE LAYOUT OF ZONES

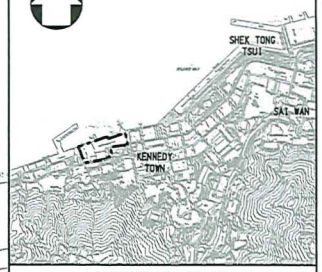
Drawing no.		Rev.
Figure 8		–
Drawn CAD	Date –	Checked –	Approved –
Scale –		Status –	

© COPYRIGHT RESERVED

CEDD 土木工程拓展署
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

Date : 10/25/2021
Filename : X:\2512199A (CE13-2019-CEDD)\02_Drawing\Report\VEP\WSP_CE13_FIG_008.dgn





LOCATION PLAN

LEGEND :

LIMIT OF WORKS

Rev	Description	By	Date

Consultant

wsp

Project title

GROUND DECONTAMINATION WORKS AT THE SITE OF EX-KENNEDY TOWN INCINCERATION PLANT/ ABATTOIR AND ADJOINING AREA - DESIGN AND CONSTRUCTION

Drawing title

Schematic Diagram of Typical Site Layout

Drawing no.		Rev.
Graphic C2		-
Drawn CAD	Date -	Checked -	Approved -
Scale -		Status -	

© COPYRIGHT RESERVED

土木工程拓展署
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

Date : 10/25/2021
Filename : X:\25\2199A (CE13-2019-CEDD)\02_Drawing\Report\VEP\WSP_CE13_FIG_093.dgn

CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

AGREEMENT NO. CE 13/2019 (CE) -
GROUND DECONTAMINATION WORKS AT THE SITE OF EX-KENNEDY TOWN INCINERATION PLANT / ABATTOIR AND ADJOINING AREA

Environmental Review Report for Variation of Environmental Permit
(Final Issue)

CIVIL ENGINNERING AND DEVELOPMENT DEPARTMENT

AGREEMENT NO. CE 13/2019 (CE) - GROUND DECONTAMINATION WORKS AT THE SITE OF EX-KENNEDY TOWN INCINERATION PLANT / ABATTOIR AND ADJOINING AREA

Environmental Review Report for Variation of Environmental Permit (Final Issue)

CONFIDENTIAL

PROJECT NO.: 2512199A

DATE: DECEMBER 2021

WSP (ASIA) LTD.
7/F ONE KOWLOON
1 WANG YUEN STREET
KOWLOON BAY
HONG KONG

PHONE: +852 2579-8899
FAX: +852 2856-9902
WSP.COM

TABLE OF CONTENTS

1 INTRODUCTION 1

2 CHANGES IN PROJECT SETTING & POTENTIAL ENVIRONMENTAL ISSUES 3

3 REVIEW OF AIR QUALITY AND HEALTH IMPACT ASSESSMENT 7

4 REVIEW OF NOISE IMPACT ASSESSMENT .. 37

5 REVIEW OF WATER QUALITY IMPACT ASSESSMENT 40

6 REVIEW OF LAND CONTAMINATION 43

7 REVIEW OF WASTE MANAGEMENT IMPLICATIONS 51

8 REVIEW OF LANDSCAPE IMPACTS 54

9 REVIEW OF ECOLOGICAL IMPACT ASSESSMENT 55

10 REVIEW OF FISHERIES IMPACT ASSESSMENT 57

11 CONCLUSION 58

FIGURES

FIGURE 1.1 - LOCATION OF PROJECT SITE

FIGURE 3.1 – STUDY AREA FOR AIR QUALTIY IMPACT ASSESSMENT

FIGURE 3.2 – LOCATION OF REPRESENTATIVE AIR SENSITIVE RECEIVERS

FIGURE 3.3 – SITE CONTAMINATION ZONES

FIGURE 3.4 – CONTOUR OF CUMULATIVE RESULT MITIGATED TIER 1 1ST HOURLY TSP CONCENTRATION AT 1.5MAG

FIGURE 3.5 – CONTOUR OF CUMULATIVE RESULT MITIGATED TIER 1 10TH DAILY RSP CONCENTRATION AT 1.5MAG

FIGURE 3.6 - CONTOUR OF CUMULATIVE RESULT MITIGATED TIER 1 ANNUAL RSP CONCENTRATION AT 1.5MAG

FIGURE 3.7 - CONTOUR OF CUMULATIVE RESULT MITIGATED TIER 1 10TH DAILY FSP CONCENTRATION AT 1.5MAG

FIGURE 3.8 - CONTOUR OF CUMULATIVE RESULT MITIGATED TIER 1 19TH DAILY FSP CONCENTRATION AT 1.5MAG

FIGURE 3.9 - CONTOUR OF CUMULATIVE RESULT MITIGATED TIER 1 36TH DAILY FSP CONCENTRATION AT 1.5MAG

FIGURE 3.10 - CONTOUR OF CUMULATIVE RESULT MITIGATED TIER 1 ANNUAL FSP CONCENTRATION AT 1.5MAG

FIGURE 4.1 – LOCATION OF REPRESENTATIVE NOISE SENSITIVE RECEIVERS

APPENDICES

APPENDIX 2.1 – RBRGS ASSUMPTION

APPENDIX 2.2 – ORIGINAL ZONING PLAN IN SUPPLEMENTARY EIA REPORT

APPENDIX 2.3 – ZONING PLAN AFTER PROPOSED AMENDMENT

APPENDIX 3.1 – DETAILS OF AIR SENSITIVE RECEIVERS

APPENDIX 3.2 – CONSTRUCTION PROGRAMME AND LOCATIONS OF WORK STAGES

APPENDIX 3.3 – SURFACE PARAMETERS FOR METEOROLOGICAL DATA

APPENDIX 3.4 – CALCULATION OF DUST EMISSION RATES

APPENDIX 3.5 – SOIL CONCENTRATIONS FOR HEAVY METALS

APPENDIX 3.6 – SOIL CONCENTRATIONS FOR HYDROCARBONS

APPENDIX 3.7 – EMISSION RATES FOR HYDROCARBONS

APPENDIX 3.8 – DETAIL DUST IMPACT RESULTS

APPENDIX 3.9 – DETAIL RESULTS FOR CRITERIA POLLUTANTS HEALTH RISKS

APPENDIX 3.10 – DETAIL RESULTS FOR HEAVY METALS CONCENTRATIONS FOR NON-CARCINOGENC HEALTH RISKS

APPENDIX 3.11 – DETAILS FOR TIER 2 ASSESSMENT FOR HYDROCARBONS

APPENDIX 3.12 – DETAIL RESULTS FOR HYDROCARBONS CONCENTRATIONS FOR NON-CARCINOGENC HEALTH RISKS

APPENDIX 3.13 – DETAIL RESULTS FOR NON-CRITERIA CARCINOGENIC HEALTH RISKS

APPENDIX 3.14 – ADDITION AIR MONITORING STATION

APPENDIX 5.1 - MARINE WATER QUALITY MONITORING DATA IN VICTORIA HARBOUR WATER CONTROL ZONE AT SELECTED STATIONS IN 2019

APPENDIX 6.1 - HISTORICAL AERIAL AND RECENT PHOTOGRAPHS

APPENDIX 6.2 - INFORMATION REQUEST LETTER

APPENDIX 6.3 - SITE WALKOVER CHECKLIST AND PHOTOGRAPHS

APPENDIX 6.4 - SAMPLING AND TESTING REPORT FOR WIL WORKS AREA UNDER EP-313/2008

APPENDIX 8.1 - TREE SURVEY RESULT

APPENDIX 9.1 - LIST OF FLORA AND FAUNA RECORDED WITHIN THE PROJECT SITE

1 INTRODUCTION

1.1 BACKGROUND

1.1.1 WSP (Asia) Ltd. (WSP) is commissioned by the Civil Engineering and Development Department (CEDD) of the Hong Kong Special Administrative Region, under Agreement No. CE13/2019 (CE), Ground Decontamination Works at the Site of Ex-Kennedy Town Incineration Plant / Abattoir and Adjoining Area – Design and Construction to review the scope and implementation strategy of the ground decontamination project. The commencement date of the Agreement is 4 May 2020.

1.1.2 The Project Site is situated next to Victoria Road and Cadogan Street, Kennedy Town, adjacent to Victoria Harbour, with a site area of about 3.2 hectares. The location map of the Project Site is shown in **Figure 1.1**.

1.1.3 The decommissioning of the Ex-Kennedy Town Incineration Plant / Kennedy Town Abattoir (ex-KTIP/KTA) is a designated project under Schedule 2 of the Environmental Impact Assessment Ordinance (Cap. 499). The EIA Report under EIA Register No. AEIAR-058/2002 (original EIA Report) was approved by the Environmental Protection Department (EPD) on 16 April 2002. As stated in the original EIA report, the site investigation (SI) carried out in 2000 revealed that the underground soil within the Site is contaminated with heavy metals and hydrocarbons, resulting in the need for ground decontamination works within the Project Site.

1.1.4 As per the Environmental Permit (EP) issued by EPD in 2002, a Contamination Confirmatory Investigation (CCI) Proposal was carried out in 2003 to confirm the type, extent and concentration of contaminants in the underground soil in designing the decontamination scheme for taking forward the implementation of decommissioning project. The ex-KTIP and ex-KTA site was then occupied by MTRCL for West Island Line (WIL) project from 2009 to 2016.

1.1.5 In 2007, EPD promulgated the Risk-based Remediation Goals (RBRGs) as the new contaminated land standards for Hong Kong in line with the international practice of managing contaminated land.

1.1.6 Taking into account the significantly larger quantity of soil to be treated, revised guidelines and remediation standards for ground decontamination issued by EPD in 2007, and the latest land use planning for the redevelopment of the Project Site, CEDD conducted a Supplementary EIA in 2012 to review the scope and implementation approach of the previously proposed ground decontamination works.

1.1.7 The Supplementary EIA Report titled “Alternative Ground Decontamination Works at the Proposed Kennedy Town Comprehensive Development Area Site” (AEIAR-188/2015) was approved by the Director of Environmental Protection (DEP) on 1 April 2015.

1.1.8 The latest Environmental Permit (EP) No. EP-136/2002/E was approved and issued by the DEP in June 2015.

1.1.9 The Supplementary EIA report was prepared on the scenario that the site of Cadogan Street Temporary Garden (CSTG) would be planned to be rezoned for residential redevelopment, as proposed in the draft Kennedy Town & Mount Davis Outline Zoning Plan (OZP) No.

S/H1/20. In August 2017, the Town Planning Board (TPB) deliberated to retain the CSTG area as an open space.

1.1.10 In the course of this Consultancy Agreement, it is confirmed with relevant departments there are no development and redevelopment plan in the CSTG area against its current status. Decontamination works are not required to maintain the current use of CSTG as an open space. Therefore, decontamination works within CSTG would no longer form part of the scope of the decontamination project. Amendment of the Site boundary is proposed to carve out CSTG from the Designated Project under the EP. A variation to the latest EP is proposed to reflect the change of project boundary.

1.2 PURPOSE OF THE ENVIRONMETNAL REVIEW REPORT

1.2.1 The main purpose of this Environmental Review Report (ERR) is to identify the key changes and assess the environmental implications due to the proposed changes. Besides, ERR would also cover justification of whether (i) there is material change to the environmental impact of the Project with mitigation measures in place and (ii) the Project complies with the requirements described in the Technical Memorandum on Environmental Impact Assessment Process (EIAO-TM). The findings of this ERR would facilitate the proposed variation to the current EP.

1.3 REVIEW OF ENVIRONMENTAL IMPACTS

1.3.1 Various environmental impacts were assessed in the approved EIA Report, including air quality impact, noise impact, water quality impact, waste management implication and land contamination, landscape and visual impact, ecological impact and fisheries impact.

1.3.2 For the proposed amendments, air quality, noise, waste management implication and land contamination, as well as landscape and visual impact, would be the major concerns. The following assessments will be reviewed in this report.

Section 3 – Review of Air Quality and Health Impact Review

Section 4 – Review of Noise Impact Assessment

Section 5 – Review of Water Quality Impact Assessment

Section 6 – Review of Land Contamination Assessment

Section 7 – Review of Waste Management Implications

Section 8 – Review of Landscape Impact Assessment

Section 9 – Review of Ecological Impact Assessment

Section 10 – Review of Fisheries Impact Assessment

2 CHANGES IN PROJECT SETTING & POTENTIAL ENVIRONMENTAL ISSUES

2.1 SUMMARY OF FINDINGS IN PREVIOUS EIA REPORT

2.1.1 At the time of approval of the EIA report in 2015, the Project Site consisted of the vacant land (former KTIP, former KTA, the former New World First Bus Depot and former MTRCL site), Cadogan Street Temporary Garden (CSTG), a HyD maintenance depot, a refuse collection point, a temporary public car park and Sai See Street.

2.1.2 The Risk-Based Remediation Goals (RBRGs) adopted for the contamination assessment and estimate in the volume of contaminated soil in the Supplementary EIA Report were based on land use designation assumed at the time when the report was prepared. **Appendix 2.1** illustrates the land use/RBRGs designation where the northern part of the Project Site adopting the lower of Public Parks / Industrial scenario, and southern part adopting the lower of Rural Residential / Urban Residential scenario.

2.1.3 The remediation methods for the contaminated soil recommended in the Supplementary EIA Report were cement solidification/stabilisation for heavy metal contaminated soil and biopiling for hydrocarbon contaminated soil. According to Section 2.5 of the Supplementary EIA report, the Project Site has been divided into zones 1A, 1B, 1C, 2, 3, 4, 5A, and 5B for soil excavation and remediation (**Appendix 2.2**). According to Table 2.6 of the Supplementary EIA report, the estimated volumes of excavated soil and contaminated soil are summarised as below:

Zones	Area (m^2)	Total Excavated Soil Vol. (m^3) (1)	Contaminated Soil Vol. (m^3)	Type A	Type B	Type C
Zone 1A	1,800	2,787	1,710	843	867	0
Zone 1B	3,700	39,286	20,364	10,887	3,767	5,710
Zone 1C	4,200	23,690	14,411	2,658	5,623	6,130
Zone 2	8,700	55,761	32,334	22,682	1,068	8,584
Zone 3	7,400	30,282	23,516	14,034	0	9,482
Zone 4	2,800	11,370	6,455	784	1,374	4,297
Zone 5A	1,500	10,775	5,382	2,318	1,050	2,014
Zone 5B	1,900	12,461	8,494	3,048	3,484	1,962
Total	**32,000**	**186,412**	**112,666**	**57,254**	**17,233**	**38,179**

Notes: (1) 'Zones' = gross volume of excavated soils included clean and contaminated fractions.

2.1.4 The Supplementary EIA Report has determined the likely nature and extent of environmental impacts and identified environmental control measures for incorporation into the planning and design of the Project to ensure compliance with environmental legislation and standards during the carrying out of the Project. The report concluded that the environmental impact of the project can be controlled to within the criteria under the EIA Ordinance (EIAO) and the Technical Memorandum on EIA Process (EIAO-TM).

2.2 CHANGES IN PROJECT SETTING SINCE APPROVAL OF PREVIOUS EIA REPORT IN 2015

2.2.1 The Supplementary EIA report was prepared on the scenario that the site of Cadogan Street Temporary Garden (CSTG) would be planned to be rezoned for residential redevelopment. In August 2017, the Town Planning Board (TPB) deliberated to retain the CSTG area as an open space.

2.2.2 We have confirmed with relevant departments there are no development and redevelopment plan in the CSTG area against its current status. Decontamination works are thus not required to maintain the current use of CSTG as an open space. Therefore, decontamination works within CSTG would no longer form part of the scope of the decontamination project. Therefore, amendment of the Site boundary is proposed to carve out the GSTG from the Designated Project under the EP. After the proposed amendment, the site area would be about 2.6 hectares.

2.2.3 For details of the justification for carving out of CSTG, please refer to **Section 2.3**.

2.2.4 For other areas of the Project Site, design of various proposed developments is still under study and review. Hence, for the purpose of assessing the environmental impact associated with excluding CSTG from the project boundary, it is assumed there are no changes for the proposed development for other areas of the Project Site as stated in the Supplementary EIA Report. The past, current and future on-site land uses of the Project Site are reviewed in **Section 6**. There is no new site activity that pose potential contamination to the other areas of the Project Site is identified since the Supplementary EIA.

2.2.5 For the purpose of contamination assessment, the RBRGs adopted in the Project Site and the decontamination depth within the amended Project Site boundary would be the same as that adopted in the Supplementary EIA. In case there are any proposed change in land use in the future, separate land contamination assessment has to be carried out to further review the RBRGs to be adopted for assessment. The associated environmental impacts due to decontamination works should only be assessed.

2.2.6 Therefore, in this ERR, the extent of decontamination works within the amended Project Site boundary would be the same as that adopted in the Supplementary EIA Report. The relevant findings have been summarised in **Section 2.1**.

2.2.7 As no decontamination works are proposed in CSTG, Zone 4, Zone 5A and Zone 5B within CSTG would not be included for contamination assessment. The excavated soil and contaminated soil to be treated in Zone 4, Zone 5A and Zone 5B within CSTG would thus be excluded from the estimate of soil quantities. There is no change to the division of working zones of the excavation works within the amended site boundary compared with that in the Supplementary EIA. The volumes of excavated soil and contaminated soil at the Project Site under the proposed amendments are summarised below:

Zones	Area (m^2)	Total Excavated Soil Vol. (m^3) (1)	Contaminated Soil Vol. (m^3)	Type A	Type B	Type C
Zone 1A	1,800	2,787	1,710	843	867	0
Zone 1B	3,700	39,286	20,364	10,887	3,767	5,710
Zone 1C	4,200	23,690	14,411	2,658	5,623	6,130
Zone 2	8,700	55,761	32,334	22,682	1,068	8,584

Zones	Area (m^2)	Total Excavated Soil Vol. (m^3) (1)	Contaminated Soil Vol. (m^3)	Type A	Type B	Type C
Zone 3	7,400	30,282	23,516	14,034	0	9,482
Total	**14,200**	**151,806**	**92,335**	**51,104**	**11,325**	**29,906**

Notes: (1) 'Zones' = gross volume of excavated soils included clean and contaminated fractions.

2.2.8 Since the CSTG area is carved out, Zones 4, 5A and 5B, which are located in CSTG area, are excluded in this assessment. The work zones within the amended Project Site boundary are shown in **Appendix 2.3**.There is no change to the division of working zones of the excavation works within the amended site boundary compared with that in the EIA approved in 2015.

2.2.9 There are no other changes of the project setting apart from the proposed carving out of CSTG area from the Project Site boundary.

2.3 JUSTIFICATIONS FOR CARVING OUT CSTG FROM THE DESIGNATED PROJECT

2.3.1 The site of CSTG has been in use as a temporary garden since 1999. There have been public requests for retaining CSTS as permanent garden and exclude CSTG from the proposed ground decontamination works since the gazettal of the draft Kennedy Town & Mount Davis Outline Zoning Plan (OZP) No. S/H1/20 for residential redevelopment in 2016 till now. In August 2017, the Town Planning Board deliberated to retain the site of CSTG, which had all along been planned for residential development, was eventually maintained as "Open Space".

2.3.2 According to the latest EP, the proposed ground decontamination works falls under the Designated Project (DP) with title "*Demolition of Building s and Structures in the Proposed Kennedy Town Comprehensive Development Area Site*". The nature of DP is decommissioning of a municipal incinerator. By definition of Environmental Impact Assessment Ordinance (EIAO), "*decommissioning*" means "*ceasing production and demolishing an existing plant for the development or redevelopment of the site*". Since both LCSD and PlanD have confirmed that there is no development or re-development plan at CSTG area, decontamination works are not required to maintain the current use of CSTG as an open space. Therefore, decontamination works within CSTG would no longer form part of the Project scope. It is proposed that CSTG be carved out from the current DP while complying with the EP conditions.

2.3.3 As the contaminated soil within CSTG will still be covered by concrete slab and/or topsoil, there are no direct exposure pathway to the underground contaminants for the garden users. The management and maintenance departments roles of LCSD and ArchSD on CSTG would remain unchanged after the proposed carving out CSTG from DP.

2.3.4 In view of the CSTG area is covered with concrete slab and/or topsoil, which acts as a barrier preventing direct contact with subsurface contamination, and contaminants are of low volatility, risk of exposure of the contaminants to public would be low. Hence, the safety risk to public is considered to be low as the contaminated soil will not be exposed based on the daily use of CSTG by the public.

2.3.5 When carrying out future remediation works for the areas adjoining CSTG within the amended Project Site boundary, preventative measures, such as installation of impermeable

membrane between the backfilled treated/clean soil and the untreated soil at CSTG, will be adopted to prevent migration of contaminants from CSTG to the remediated areas. The preventative measures would be designed during the review for future land uses and remediation in other areas of the Project Site.

2.3.6 In case that excavation works have to be carried out at the areas within CSTG with identified contaminants, as the quantity of contaminated soil to be handled is minimal, it is proposed to dispose the contaminated soil of in landfills instead of being treated by biopiling or cement solidification. Agreement from Landfills and Development Group of EPD has to be sought prior to disposal of contaminated soil at designated landfill. A "Contaminated Soil Management Plan for CSTG" shall be prepared separately to propose the management plan and safety measures for maintenance works to facilitate maintenance works within CSTG.

2.3.7 In case there is any re-development plan for the CSTG area, the future Project Proponent shall conduct necessary environmental review or impact assessment for their proposed works. By that time, the Project Proponent shall review the ground contamination information in the previous EIA Reports and this Project Review Study, determine the need for and the proposed scope of decontamination for EPD's agreement.

3 REVIEW OF AIR QUALITY AND HEALTH IMPACT ASSESSMENT

3.1 INTRODUCTION

3.1.1 This section presents the review of the air quality and health risk impacts of the ground decontamination works on the surrounding areas. The assessment area covers a radius of 500m from the site boundary as shown in **Figure 3.1** as per Annex 4 & 12 of the Technical Memorandum on Environmental Impact Assessment Process (EIAO-TM) and Air Pollution Control Ordinance (APCO) (Cap 311). Health impacts for emission from Toxic Air Pollutants are conducted.

3.1.2 As stated in **Section 1.2**, the purpose of this ERR is to assess the environmental implications due to the amendment of the Project Site Boundary. Therefore, the assessment in this ERR is based on methodology and assumptions in the Supplementary EIA Report (EIA Register No. AEIAR-188/2015).

3.2 LEGISLATION AND STANDARDS

3.2.1 The relevant legislations and standards for the assessment of air quality applicable to the present study area include:

- Air Pollution Control Ordinance (APCO) (Cap 311);
- Air Pollution Control (Construction Dust) Regulation;
- Air Pollution Control (Smoke) Regulation;
- Air Pollution Control (Non-road Mobile Machinery) (Emission) Regulation;
- Guidance Manual for Use of Risk-based Remediation Goals for Contaminated Land Management; and
- Annex 4 & 12 of Technical Memorandum on Environmental Impact Assessment Process (EIAO-TM)

3.2.2 The APCO specifies the Hong Kong Air Quality Objectives (AQOs) stipulating the maximum allowable concentrations over specific periods for typical pollutants which shall be met.

3.2.3 The current Air Quality Objectives (AQOs) are stipulated in terms of the maximum allowable concentrations of different kinds of air pollutants over specific time periods. The relevant AQOs to be adopted in this assessment are listed in **Table 3-1** below.

Table 3-1 The Hong Kong Air Quality Objectives

Pollutant	Averaging time	Concentration limit [1] ($\mu g/m^3$)	Number of exceedances allowed
Respirable Suspended Particulates (PM_{10}) [2]	24-hour	100	9
	Annual	50	Not Applicable
Fine Suspended Particulates ($PM_{2.5}$) [3]	24-hour	75	9
	Annual	35	Not Applicable
Nitrogen Dioxide (NO_2)	1-hour	200	18
	Annual	40	Not Applicable
Sulphur Dioxide (SO_2)	10-minute	500	3
	24-hour	125	3ß
Carbon Monoxide (CO)	1-hour	30,000	0
	8-hour	10,000	0
Ozone (O_3)	8-hour	160	9
Lead (Pb)	Annual	0.5	Not Applicable

Notes:

[1] All measurements of the concentration of gaseous air pollutants, i.e., sulphur dioxide, nitrogen dioxide, ozone and carbon monoxide, are to be adjusted to a reference temperature of 293 kelvin and a reference pressure of 101.325 kpa.

[2] PM10 mean suspended particles in air with a nominal aerodynamic diameter of 10 µm or less.

[3] PM2.5 mean suspended particles in air with a nominal aerodynamic diameter of 2.5 µm or less.

3.2.4 The Air Pollution Control (Amendment) Ordinance 2021 would come into operation on 1 January 2022. The Amendment Ordinance tightens three air quality objectives, namely the 24-hour AQO for sulphur dioxide (SO_2) and the annual and 24-hour AQOs of fine suspended particulates (FSP/$PM_{2.5}$) stipulated in Schedule 5 to the Air Pollution Control Ordinance (APCO) (Cap. 311). The newly proposed AQOs of SO_2 and $PM_{2.5,}$ are adopted as the standards for the two pollutants in this assessment instead of the current AQOs. For new government projects, the allowable exceedance for 24-hourly $PM_{2.5}$ is 18 days at a limit of 50µg/m^3.

Table 3-2 New AQOs to be Effective

Pollutant	Averaging time	Concentration limit (µg/m3)	Number of exceedances allowed
Sulphur dioxide (SO_2)	24-hour	50	3
Fine suspended particulates ($PM_{2.5}$)	24-hour	50	35
	24-hour [1]	50	18
	Annual	25	Not applicable

Notes:

[1] Objective for new government projects

3.2.5 There is no criterion for Total Suspended Particulate (TSP) under the AQOs. Annex 4 of EIAO-TM stipulates that the hourly TSP concentration for construction dust impact assessment should not exceed 500 µg/m3 measured at 298K and 101.325kPa, for which the said limit was adopted in this assessment.

3.2.6 Notifiable and regulatory works are under the control of Air Pollution Control (Construction Dust) Regulation. Notifiable works include site formation, reclamation, demolition, foundation and superstructure construction for buildings and road construction. Regulatory works

include building renovation, road opening, resurfacing slope stabilisation, and other activities including stockpiling, dusty material handling, excavation, concrete production, etc. Contractors and site agents are required to adopt construction dust suppression measures to reduce dust emission to the acceptable level. The Regulation requires the works contractor to ensure that both notifiable works and regulatory works will be conducted in accordance with the Schedule of the Regulation, which provides dust control and suppression measures.

3.2.7 Dark smoke emission of the machines used for construction shall comply with the requirements of the Air Pollution Control (Smoke) Regulation of APCO.

3.2.8 The Air Pollution Control (Non-road Mobile Machinery) (Emission) Regulation comes into effect to control emissions from diesel powered engines and limit the amount of diesel-powered mechanical equipment allowable on-site during construction phase. According to the Air Pollution Control (Fuel Restriction) Regulations, liquid fuel to be used should fulfil the requirement of less than 0.005% by weight of sulphur content. Therefore, emissions of other gaseous pollutants, e.g. NO_2, SO_2, PM and CO from the operation of on-site diesel-powered mechanical equipment are under control and considered minimal.

3.2.9 According to Development Bureau Technical Circular (Works) No. 13/2020, all public works contracts shall observe the requirements of the Circular, which includes the timely provision of temporary electricity, water supply and use of electric vehicles. Hence, emissions from construction machinery and vehicles would be further reduced.

3.2.10 The Guidance Manual for Use of Risk-based Remediation Goals for Contaminated Land Management introduces the risk-based approach in land contamination assessment and presents instructions for the comparison of soil and groundwater data to the Risk-based Remediation Goals (RBRGs) for 54 chemicals, including any remediation targets if decontamination is necessary.

3.2.11 Referring to the Supplementary EIA Report, 33 Toxic Air Pollutants (TAPs) were identified from the previous site investigation. The same reference and update of the risk values of carcinogenic, acute and chronic non-carcinogenic risks of the TAPs, as outlined in the Supplementary EIA Report, are adopted in this assessment and shown in **Table 3-3** below. The air quality and health impact for acute and chronic non-carcinogenic risks are assessed against the relevant reference values.

Table 3-3 Carcinogenic, Acute and Chronic Non-carcinogenic Risks of Identified TAPs [may be updated subject to comments by Department of Health]

	Reference Values							
Pollutants	**Carcinogenic risk**		**Non-carcinogenic risk**					
	Inhalation Unit Risk		**Chronic (annual)**		**Acute (daily)**		**Acute (hourly)**	
	(µg/m³)	**Source (1)**	**µg/m³**	**Source (1)**	**µg/m³**	**Source (1)**	**µg/m³**	**Source (1)**
Arsenic	1.50E-03	WHO	1.50E-02	Cal/EPA	3.60E-02	New Hampshire	2.00E-01	Cal/EPA
Barium	-	-	5.00E-01	Texas	2.50E+00	New Hampshire	5.00E+00	Texas
Cadmium	1.80E-03	IRIS	1.00E-02	ATSDR	3.00E-02	ATSDR	1.00E-01	Texas
Cobalt	-	-	1.00E-01	ATSDR	7.10E-02	New Hampshire	2.00E-01	Texas

Pollutants	Reference Values							
	Carcinogenic risk		Non-carcinogenic risk					
	Inhalation Unit Risk		Chronic (annual)		Acute (daily)		Acute (hourly)	
	(µg/m³)	Source (1)	µg/m³	Source (1)	µg/m³	Source (1)	µg/m³	Source (1)
Chromium (III)	-	-	1.10E-01	New Zealand	5.00E-01	Ontario	-	-
Chromium (VI)	4.00E-02	WHO	1.00E-01	IRIS	3.00E-01	ATSDR	8.50E-03	HKEPD
Copper	-	-	2.40E+00	Cal/EPA	3.60E+00	New Hampshire	1.00E+02	Cal/EPA
Molybdenum	-	-	3.00E+00	Texas	1.10E+01	New Hampshire	3.00E+01	Texas
Nickel	3.80E-04	WHO	9.00E-02	ATSDR	2.00E-01	ATSDR	2.00E-01	Cal/EPA
Lead	1.20E-05	Cal/EPA	5.00E-01	WHO	1.50E-01	New Hampshire	-	-
Tin	-	-	2.00E+00	Texas	1.00E+01	Ontario	2.00E+01	Texas
Zinc	-	-	2.00E+00	Texas	-	-	2.00E+01	Texas
Mercury	-	-	1.00E+00	WHO	3.00E-01	New Hampshire	6.00E-01	Cal/EPA
Naphthalene	3.40E-05	Cal/EPA	1.00E+01	WHO	2.25E+01	Ontario	5.00E+02	Texas
Acenaphthylene	-	-	1.00E-01	Texas	-	-	1.00E+00	Texas
Acenaphthene	-	-	1.00E-01	Texas	-	-	1.00E+00	Texas
Fluorene	-	-	1.00E+00	Texas	-	-	1.00E+01	Texas
Phenanthrene	-	-	5.00E-02	Texas	7.10E-01	New Hampshire	5.00E-01	Texas
Anthracene	-	-	5.00E-02	Texas	-	-	5.00E-01	Texas
Fluoranthene	-	-	5.00E-02	Texas	-	-	5.00E-01	Texas
Pyrene	-	-	5.00E-02	Texas	7.10E-01	New Hampshire	5.00E-01	Texas
Chrysene	1.10E-05	Cal/EPA	5.00E-02	Texas	3.60E-01	New Hampshire	2.40E-01	New Hampshire
Benzo(a) anthracene	1.10E-04	Cal/EPA	5.00E-02	Texas	-	-	5.00E-01	Texas
Benzo(b) fluoranthene	1.10E-04	Cal/EPA	5.00E-02	Texas	-	-	3.60E-01	New Hampshire
Benzo(k) fluoranthene	1.10E-04	Cal/EPA	5.00E-02	Texas	-	-	5.00E-01	Texas
Dibenzo (a,h) anthracene	1.20E-03	Cal/EPA	5.00E-02	Texas	-	-	5.00E-01	Texas
Indeno(1,2,3-cd) pyrene	1.10E-04	Cal/EPA	5.00E-02	Texas	-	-	5.00E-01	Texas
Benzo(g,h,i) perylene	-	-	5.00E-02	Texas	-	-	5.00E-01	Texas
Benzo(a)pyrene	8.70E-02	WHO	3.00E-04	New Zealand	-	-	3.00E-02	Texas
Benzene	6.00E-06	WHO	3.00E+01	IRIS	2.90E+01	ATSDR	2.70E+01	Cal/EPA
Toluene	-	-	5.00E+03	IRIS	3.75E+03	ATSDR	1.50E+04	Texas
Ethylbenzene	2.50E-06	Cal/EPA	1.00E+03	IRIS	2.17E+04	ATSDR	8.67E+04	Texas
Xylenes (Total)	-	-	1.00E+02	IRIS	8.82E+03	ATSDR	7.37E+03	Texas

Notes:

(1) Reference sources:

WHO - WHO, Air Quality Guidelines for Europe (2000)

IRIS - Integrated Risk Information System (IRIS), USEPA

Cal/EPA - Cal/EPA Acute reference level from Office of Environmental Health Hazards Assessment, California

New Hampshire - New Hampshire Code of Administrative Rules, Table of All Regulated Toxic Air Pollutants

ATSDR - Agency for Toxic Substances and Disease Registry (ATSDR), USEPA

New Zealand - New Zealand, health-based guideline values (2002)

Texas - Texas Commission on Environmental Quality

3.3 AIR SENSITIVE RECEIVERS

3.3.1 According to Annex 12 of EIAO-TM, any domestic premises, hotel, hostel, hospital, clinic, nursery, temporary housing accommodation, school, educational institution, office, factory, shop, shopping centre, place of public worship, library, court of law, sports stadium or performing arts centre shall be considered an Air Sensitive Receiver (ASR). Any other premises or place with which, in terms of duration or number of people affected, has a similar sensitivity to the air pollutants as the above premises and places, shall also be considered to be ASRs.

3.3.2 The existing representative ASRs adopted in the Supplementary EIA Report would remain valid for the assessment. Based on further desktop study and site survey, additional assessment height of 1.5m above ground would be included for assessment for those ASRs. On the other hand, the planned representative ASRs of residential use within Kennedy Town CDA site (KT-P2 and KT-P3) adopted in the Supplementary EIA Report are excluded, as there is no concrete development programme for the proposed developments within the site, and it is anticipated that the developments will only commence after the completion of decontamination works. No other ASRs are assumed for the proposed developments. If new developments are subsequently identified to be present before or during the course of decontamination works, additional ASRs may be included as appropriate so as to review the air quality impact of the works to those new developments. As CSTG will be in use during the Project works, ASRs at CSTG with active recreational uses including those nearest to the work site boundary are selected for this assessment.

3.3.3 The locations of the ASRs are shown in **Figure 3.2** and summary of ASRs are **Table 3-4** below. Details of ASRs can be found in **Appendix 3.1**.

Table 3-4 Representative ASRs identified in the Assessment

ASRs	Group	Description	Approximate Horizontal Distance from the Project Site (m)	No. of Storeys	Assessment Height Above Ground (mAG)	Nature of ASRs
KT-A1	Existing ASRs outside the Site	Cheong Kat Mansion	25	25	1.5-100	Residential
KT-A2		The Merton (Block 2)	32	45	1.5-180	Residential
KT-A3		Centenary Mansion (Block 1)	35	27	1.5-100	Residential
KT-A4		Cayman Rise (Block 1)	35	31	1.5-120	Residential
KT-A5		Bayanihan Kennedy Town Centre	35	6	1.5-20	Educational
KT-A6		Kennedy Town Jockey Club Clinic	20	3	1.5-12	Medical Clinics

ASRs	Group	Description	Approximate Horizontal Distance from the Project Site (m)	No. of Storeys	Assessment Height Above Ground (mAG)	Nature of ASRs
KT-A7		SKH Lui Ming Choi Memorial Primary School	52	6	1.5-20	Educational
KT-A8		No. 60 Victoria Road	107	25	1.5-100	Residential
KT-A9		St Luke's Settlement Neighbourhood Elderly Centre	15	2	1.5-8	Elderly Home
KT-A10		Cadogan	40	55	1.5-140	Residential
P01	Recreational Area (Pet Garden)	Cadogan Street Temporary Garden (CSTG) Pet Garden	<10	--	1.5	Recreational
P02		CSTG Pet Garden	<10	--	1.5	Recreational
P03		CSTG Pet Garden	<10	--	1.5	Recreational
P04		CSTG Pet Garden	15	--	1.5	Recreational
P10	Recreational Area (Cadogan Street Temporary Garden)	CSTG	<10	--	1.5	Recreational
P11		CSTG	30	--	1.5	Recreational
P12		CSTG	16	--	1.5	Recreational
P13		CSTG	16	--	1.5	Recreational
P14		CSTG	35	--	1.5	Recreational
P15		CSTG	50	--	1.5	Recreational
P16		CSTG	45	--	1.5	Recreational

3.4 SOURCES OF POLLUTANTS

3.4.1 Referring to the Supplementary EIA Report, the Project consists of the following 3 key project components:

- Excavation - This includes earth lateral support, excavation, and temporary stockpile of excavated soils;
- On-site Decontamination – This includes decontamination of contaminated soil by biopiling and/or cement solidification;
- Final site formation – This includes deposition, compaction, drainage works and boundary fencing.

3.4.2 The site is broken into a number of working areas. The working areas; Zone 1A, 1B, 1C, 2 and 3, in the Supplementary EIA were adopted. Since decontamination works would not be carried out within CSTG, Zone 4, 5A and 5B, which are located in CSTG, are excluded in this assessment. The work zones are shown in **Figure 3.3**. Work zones in the assessment were grouped into Zone 1A & 3, Zone 2 and Zone 1B & 1C as stated in the Supplementary EIA Report.

3.4.3 The same 3 Reprovisioning Options; Options A, B and C, as identified for implementation of the works outlined in the Supplementary EIA Report, are adopted for this assessment. The

works programme in the Supplementary EIA Report is adopted and modified to commence works from 1 April 2023 tentatively (as shown in **Appendix 3.2**). The description of each of the 3 Reprovisioning Options is provided as below.

Reprovisioning Option A – 7-year Project duration, decontamination works include earth lateral support works, excavation, stockpiling and transfer of soils, cement solidification; and formation, operation and decommissioning of biopiles. This reprovisioning option involves on-site reprovision of the public car park and refuse collection point. This reprovisioning option involves on-site reprovision of the public car park and refuse collection point. The excavation sequence would be as follows: Stage I – Zone 1A & 1C; Stage II – Zone 1B, which will be started 3 months after the start of Stage I; Stage III – Zone 2, which will be started about 2.5 years after the start of Stage II; and Stage IV – Zone 3, which will be started about 2 years and 4 months after the start of excavation of Zone 2. Biopiling will be carried out to decontaminate hydrocarbon contaminated soils, prior to reinstatement within the site. Biopiles will be formed in 3 cycles in Zone 3 (for soil from Zone 1A and 1C, Zone 1B and Zone 2) and 1 cycle in Zone 2 (for soil from Zone 3). Cement solidification of Heavy Metal contaminated soils will take place in situ concurrently with the excavation schedule.

Reprovisioning Option B – 7-year Project duration, decontamination works include earth lateral support works, excavation, stockpiling and transfer of soils, formation, operation and decommissioning of biopiles and cement solidification. This reprovisioning option involves on-site reprovision of the public car park and refuse collection point. The excavation sequence would be as follows: Stage I – Zone 1A & 1C; Stage II – Zone 1B and 30% of Zone 3, which will be started with Stage I; Stage V – Zone 2, which will be started about 2 years and 5 months after the start of Stage I and Stage II; and Stage VI – 70% of Zone 3, which will be started about 2 years and 4 months after the start of Stage V [1]. Biopiling will be carried out to decontaminate Hydrocarbon contaminated soils, prior to reinstatement within the site. Biopiles will be formed in 3 cycles in Zone 3 (for soil from Zone 1A and 1C, Zone 1B, Zone 2 and 30% of Zone 3) and 1 cycle in Zone 2 (70% soil of Zone 3). Cement solidification of Heavy Metal contaminated soils will take place in situ concurrently with the excavation schedule.

Reprovisioning Option C – 4.5-year Project duration, decontamination works include earth lateral support works, excavation, stockpiling and transfer of soils, formation, operation and decommissioning of biopiles and cement solidification. This reprovisioning option does not involve on-site reprovision of the public car park and refuse collection point. The excavation sequence would be as follows: Stage I – Zone 1A & 3; Stage II – Zone 2, which will be started about 4 months after the start of Stage I; Stage III – Zone 1B & 1C, which will be started about 4 months after the start of Stage II. Biopiling will be carried out to decontaminate Hydrocarbon contaminated soils, prior to reinstatement within the site. Biopiles will be formed in 2 cycles in Zones 1A and 3 (Zone 1A, 2 & 3 then Zone 1B &1C). Cement solidification of Heavy Metal contaminated soils will take place in situ concurrently with the excavation schedule.

3.4.4 The principal potential source of air quality impact arising from the decontamination works will be from the major activities listed below.

- Excavation and backfilling;

[1] Stage III and Stage IV in the construction sequence adopted in the supplementary EIA Report are omitted due to exclusion of CSTG.

- Movement of mobile plant and vehicles on site;
- Stockpiling of contaminated soils for decontamination and stockpiling of clean fill; and
- Outlet emissions from the bioremediation piles.

EXCAVATION

3.4.5 There will be 4 types of excavated soil to be sorted and handled on-site:

- Clean fill with no decontamination required;
- Heavy Metals (HMs) contaminated soil to be decontaminated by cement solidification;
- Hydrocarbons (HCs) contaminated soil to be decontaminated by biopiles;
- HMs and HCs contaminated soil treated with biopiles followed by in-situ cement solidification.

3.4.6 Referring to the Supplementary EIA Report, the excavation area in operation at any given time in each zone group is 1200m^2, and a maximum of 3200m^2 at any one time over the entire Project site were assumed. Due to the change in the project setting, excavation area at any given time in each zone group is reviewed under this ERR.

3.4.7 Currently, the Site is covered with concrete layers with a minimum thickness stipulated by the EP. As decontamination works would be carried out in sequence, only some parts of the site would become an active works area[2] without any paving material or cover at any one time. For the other areas, the paving material would remain intact, the excavated area would be covered with impermeable sheeting to prevent dust mobilization during non-working hours. Hence, only the active works areas are regarded as a source of construction dust and associated emissions.

3.4.8 Stockpiling of treated and untreated soil will be covered with impermeable sheeting to prevent fugitive dust and pollutants dispersion.

BIOPILING

3.4.9 Biopling is used to treat HCs contaminated soil. Biopiling uses microorganisms to degrade contaminants in soil to harmless compounds such as water, carbon dioxide and other innocuous products.

3.4.10 The biopiles will be covered with impermeable sheeting and negative pressure will be created within the pile to prevent fugitive dust and gaseous emissions. Air will be introduced into the biopile to encourage volatilisation of the HCs, and maintains an aerobic condition for the breakdown of HCs. Referring to the Supplementary EIA Report, the biopile exhaust will be treated with activated carbon filter with an expected removal efficiency of 99% (Maunsell, Oct

[2] In the context of the approved EP, active works area means area with concrete paving material removed and without any cover.

2007[3] and Maunsell, Feb 2002[4]). Referring to the supplementary EIA, soil gas monitoring for biopiles were shown to have 0 ppm VOCs for 8 monitoring events at 42 monitoring locations as recorded in the *Biopile Operation Monitoring and Cleanup Report (8 December 2010 to 7 January 2011)* of the Kwai Chung Incineration Plant Demolition and Decontamination works (Appendix 3.1 of the supplementary EIA). Therefore, gaseous emission from biopile is considered negligible. Dust emissions may be caused during the formation of biopiles which are included in the modelling assessment.

CEMENT SOLIDIFICATION

3.4.11 Cement solidification is proposed to immobilise HMs in the soil. Processed soil during cement solidification will be mixed with water and cement in a fully enclosed vessel. The mixing process is wet, and the vessel is fully enclosed. Hence, dust emissions from cement solidification are considered to be limited. Soils that require both HCs and HMs decontamination will first go through HC decontamination by biopiling and then through HMs decontamination by cement solidification.

BACKFILLING

3.4.12 Treated soil and clean fill will be backfilled to the site. As the treated soil would be treated to the RBRGs, the emissions from backfilling would not be considered a health hazard. Therefore, HCs and HMs impacts of backfilling are not included in the modelling assessment. Dust emissions from backfilling were in a similar nature to those of excavation.

MOBILE PLANT AND VEHICLES ON SITE

3.4.13 Materials transported by vehicles will be covered with an impermeable sheet and wheels of vehicles will be sprayed with water before leaving the site. Therefore, the dust and HMs emissions are considered limited. All HCs were modelled as volatilised during the excavation process, hence to avoid double-counting, no HC emissions were modelled during transportation. As all treatment works will be conducted on-site, limited numbers of vehicles will move in/out of the Project site. According to the Supplementary EIA Report, there would be a maximum of 8 trucks per hour. The associated vehicular emission is considered insignificant when compared to the vehicular movement within the Site. As the works area for this assessment is smaller than the one as the Supplementary EIA, fewer trucks per hour are estimated. Therefore, impacts of mobile plant and vehicle movement outside of the Site are not included in the quantitative assessment.

3.4.14 TSP, PM_{10}, $PM_{2.5}$ and TAPs (HCs and HMs) generated from the works as described above would be the major pollutant sources during the decontamination works.

---

[3] Maunsell Environmental Management Consultants Ltd. (2007a). Agreement No. CE 35/2006(CE) Kai Tak Development Engineering Study cum Design and Construction of Advance Works – Investigation, Design and Construction, Decommissioning of the Former Kai Tak Airport other than the North Apron, Environmental Impact Assess & Maunsell Environmental Management Consultants Ltd. (2007b). Demolition of Buildings and Structures in Proposed Kennedy Town Comprehensive Development Area Site, Environmental Report for VEP Application. Hong Kong

[4] Maunsell Environmental Management Consultants Ltd. (2002). Agreement No. CE 68/99 Infrastructure for Penny's Bay Development Engineering Design and Construction - Decommissioning of Cheoy Lee Shipyard at Penny's Bay. EIA Report (Final)

3.4.15 Concurrent works as identified in the Supplementary EIA Report were reviewed. Residential development at the Ka Wai Man Road and Ex-Mount Davis Cottage Area (Phase 1 and 2), were included as concurrent projects of the assessment. The locations of the works are shown in **Figure 3.1**. Although no schedule is available of the re-provisioning of Kennedy Town Saltwater Pumping Station, it was also included in the assessment for conservative approach.

3.5 BACKGROUND AIR QUALITY

3.5.1 Referring to the Supplementary EIA Report, the pollutants in the Atmosphere and their Transport over Hong Kong (PATH) model, a regional air quality model prediction developed by EPD, was used to predict the meteorology at the Kennedy Town site. Background pollutant concentrations estimated by PATH model in the 2.1 version were employed in the assessment. PATH's concentration for Year 2022 was adopted as the background concentration for PM_{10} and $PM_{2.5}$. The Site is located within grid (35, 29) of the PATH model.

3.5.2 According to "Guidelines on Choice of Models and Model Parameters" as published on EPD's website, the PM_{10} and $PM_{2.5}$ output of PATH model should be adjusted as below.

- 10^{th} highest daily PM_{10} concentration: add 11.0 µg/m^3;
- Annual PM_{10} concentration: add 10.3 µg/m^3;
- 19^{th} and 36^{th} highest daily $PM_{2.5}$ concentration: Nil; and
- Annual $PM_{2.5}$ concentration: add 3.5 µg/m^3.

3.5.3 The PM_{10} and $PM_{2.5}$ concentrations predicted by PATH in Year 2022 within the concerned grids are summarized in **Table 3-5** below. As there is no background TSP concentration from PATH model, PM_{10} concentration is adopted. This is considered to be a reasonable assumption as particulate matter of sizes larger than PM_{10} from far-field sources would have largely settled before reaching the ASRs. Hence, the background hourly TSP levels were reasonably estimated as equal to PM_{10} concentrations for the purpose of estimating the cumulative 1-hour TSP levels due to the activities of the Project.

Table 3-5 Summary of PATH Background Concentration

Pollutant	Averaging Time	Conc. Limits (µg/m^3) {New AQO}	Number of Exceedances Allowed	Grid Conc (µg/m^3) (35, 29)
PM10 [1]	Annual	50	N.A.	26
PM2.5	Annual	35 {25}	N.A.	14

Notes:

[1] Also adopted as background of TSP

3.5.4 Based on the Supplementary EIA Report, TAPs concentrations as measured at Central/Western station were adopted as background concentrations of the assessment. Maximum 24-hourly average concentrations of the 5 years of measured concentrations at the monitoring station were used as the hourly background concentrations of the assessment.

Average of the maximum of each 5 years of 24-hourly average concentrations were adopted as the daily background concentrations of the assessment. 5 -year average of 24-hourly concentrations as measured at the station were employed as the annual background concentrations for the assessment. **Table 3-6** below summarises the annual, 24-hourly average and maximum 24-hourly average of 5 years (2015 – 2019) of the TAPs concentrations as measured at the station.

Table 3-6 Average Background Concentrations for Heavy Metals and Hydrocarbons

Pollutant	Hourly Concentration ($\mu g/m^3$) [Reference value]	Daily Concentration ($\mu g/m^3$) [Reference value]	Annual Average Concentration ($\mu g/m^3$) [Reference value]
Heavy Metals			
Arsenic	No data [2.00E-01]	No data [3.60E-02]	2.88E-03 [1.50E-02]
Barium	No data [5.00E+00]	No data [2.50E+00]	1.18E-02 [5.00E-01]
Cadmium	No data [1.00E-01]	No data [3.00E-02]	5.28E-04 [1.00E-02]
Cobalt	No data [2.00E-01]	No data [7.10E-02]	No data [1.00E-01]
Chromium metal and chromium III	N/A	No data [5.00E-01]	2.22E-03 [1.10E-01]
Chromium VI	1.10E-04 [8.50E-03]	1.10E-04 [3.00E-01]	1.10E-04 [1.00E-01]
Copper	No data [1.00E+02]	No data [3.60E+00]	1.38E-02 [2.40E+00]
Molybdenum	No data [3.00E+01]	No data [1.10E+01]	No data [3.00E+00]
Nickel	No data [2.00E-01]	No data [2.00E-01]	4.90E-03 [9.00E-02]
Lead	N/A	No data [1.50E-01]	1.50E-02 [5.00E-01]
Tin	No data [2.00E+01]	No data [1.00E+01]	No data [2.00E+00]
Zinc	No data [2.00E+01]	N/A	8.34E-02 [2.00E+00]
Mercury	No data [6.00E-01]	No data [3.00E-01]	1.84E-04 [1.00E+00]
Hydrocarbons			
Naphthalene	1.40E+01 [5.00E+02]	9.80E+00 [2.25E+01]	3.34E+00 [1.00E+01]
Acenaphthylene	3.22E-02 [1.00E+00]	N/A	4.88E-03 [1.00E-01]
Acenaphthene	3.73E-02 [1.00E+00]	N/A	8.92E-03 [1.00E-01]
Fluorene	6.18E-03 [1.00E+01]	N/A	2.22E-03 [1.00E+00]
Phenanthrene	2.57E-02 [5.00E-01]	2.08E-02 [7.10E-01]	1.32E-02 [5.00E-02]
Anthracene	1.26E-03 [5.00E-01]	N/A	4.50E-04 [5.00E-02]
Fluoranthene	4.03E-03 [5.00E-01]	N/A	2.01E-03 [5.00E-02]
Pyrene	4.09E-03 [5.00E-01]	3.34E-03 [7.10E-01]	2.04E-03 [5.00E-02]
Chrysene	1.21E-03 [3.60E-01]	1.08E-03 [2.40E-01]	5.44E-04 [5.00E-02]
Benzo(a)anthracene	5.63E-04 [5.00E-01]	4.96E-04 [3.60E-01]	2.20E-04 [5.00E-02]
Benzo(b)fluoranthene	5.73E-04 [3.60E-01]	N/A	1.10E-04 [5.00E-02]
Benzo(k)fluoranthene	2.26E-04 [5.00E-01]	N/A	4.66E-05 [5.00E-02]
Dibenzo(a,h)anthracene	3.77E-05 [5.00E-01]	N/A	9.62E-06 [5.00E-02]
Indeno(1,2,3-cd)pyrene	5.16E-04 [5.00E-01]	N/A	9.04E-05 [5.00E-02]
Benzo(g,h,i)perylene	6.96E-04 [5.00E-01]	N/A	1.24E-04 [5.00E-02]
Benzo(a)pyrene (BaP)	2.80E-04 [3.00E-02]	N/A	5.98E-05 [3.00E-04]
Benzene	5.60E+00 [2.70E+01]	4.36E+00 [2.90E+01]	1.17E+00 [3.00E+01]
Toluene	1.40E+01 [1.50E+04]	1.19E+01 [3.75E+03]	4.20E+00 [5.00E+03]

Pollutant	Hourly Concentration (μg/m³) [Reference value]	Daily Concentration (μg/m³) [Reference value]	Annual Average Concentration (μg/m³) [Reference value]
Ethylbenzene	6.50E+00 [8.67E+04]	3.22E+00 [2.17E+04]	9.98E-01 [1.00E+03]
Xylene	2.17E+01 [7.37E+03]	1.16E+01 [8.82E+03]	3.49E+00 [1.00E+02]

Notes

[1] N/A means Not Assessed

[2] For those pollutants where no data is available for their background levels, the pollutant concentrations due to the Project are estimated for assessment purposes.

[3] Monitoring data of HCs from EPD's website (https://www.aqhi.gov.hk/en/sub-download/sub-air-quality-reports/tap.html)

3.6 ASSESSMENT MEHTODOLOGY

DISPERSION MODEL

3.6.1 The dispersion of dust, HMs and HCs emissions were modelled using a steady-state plume model, AERMOD which was developed by the American Meteorological Society/Environmental Protection Agency Regulatory Model Improvement Committee (AERMIC). The model is accepted by EPD with reference to "Guidelines on Choices of Models and Model Parameters".

METEOROLOGICAL DATA

3.6.2 Meteorological data extracted from the PATH model at the grid, (35,29) is employed.

3.6.3 Mixing heights that are higher than the maximum and lower than the minimum mixing heights (1941m and 131m) were replaced with the maximum and minimum mixing height measured at King's Park station in 2015. The minimum wind speed was capped at 1m/s for the treatment of calm hours.

3.6.4 The data was then processed by the AERMET model. Details of the surface characteristic parameters of the proposed site and surroundings (i.e. surface roughness, albedo and Bowen ratio) are presented in **Appendix 3.3**.

DUST EMISSION RATES

3.6.5 The emission factors for dust generating activities including movement of construction vehicle and plants within the site are based on the 5th edition of Compilation of Air Pollution Emission Factors (AP-42) issued by United States Environmental Protection Agency (USEPA). The emission factors for the construction dust sources are summarised in **Table 3-7** below and the details of calculation and location of dust sources are presented in **Appendix 3.4**. Referring to the Supplementary EIA, the number of working days per month and working hours per day were assumed to be 26 days and 10 hours (0800 to 1800), respectively.

Table 3-7 Emission Factors for Construction Dust Impact Assessment

Source	Activities	Emission Factors
All construction sites	Heavy construction activities including above ground and open construction works, excavation works	TSP = 2.69 Mg/hectare/month = 2.87×10^{-4} g/m^2/s PM_{10} = 1.36×10^{-4} g/m^2/s $PM_{2.5}$ = 2.07×10^{-5} g/m^2/s
	Wind erosion	TSP = 0.85 Mg/hectare/year = 2.70×10^{-6} g/m^2/s PM_{10} = 1.27×10^{-6} g/m^2/s $PM_{2.5}$ = 1.94×10^{-7} g/m^2/s

MODEL APPROACH

3.6.6 Dry depletion option was selected for the modelling of the deposition of particles. The particle size distribution, as shown in **Table 3-8** below, was estimated based on S13.2.4.3 of USEPA AP-42, which was employed in the model assessment. The particle density, 2.5g/cm^3, with reference to "Update of Fugitive Dust Emission Factors in AP-42 Section 11.2" (EPA Contract No. 68-02-3891, 1987), was adopted in the assessment.

Table 3-8 Particle Size Distribution

Particle Size, µg	Average Particle Size, µg	TSP Distribution	PM_{10} Distribution	$PM_{2.5}$ Distribution
15 – 30	22.5	35%	--	--
10 – 15	12.5	18%	--	--
5 – 10	7.5	20%	43%	--
2.5 – 5	3.75	20%	42%	--
0 – 2.5	1.25	7%	15%	100%

3.6.7 The population of Central and Western was employed (243,266 persons by 2016 census) and the default urban roughness, 1m, were adopted in the model.

MODELLING SCENARIOS

3.6.8 A two-tier assessment was conducted. Pollutants assessed were TSP, RSP, FSP. Tier 1 is a screening test which assumes that 100% of the total site area was emitting dust and all excavation areas in different zones and stages are fully active. The test is conservative and represents the worst situation. Tier 1 test includes mitigation measures of dust suppression rate at 91.7% by water spraying through ground watering, applied once every 2.5 hours or four times per day, for active decontamination areas. While a boundary hoarding height of 2.4m was adopted for assessment in the Supplementary EIA Report, based on the current Environmental Permit (No. EP-136/2002/E) Condition 2.23, boundary hoarding of height not less than 5.5m would be proposed. Therefore, a 5.5m height hoarding is assumed in the assessment. All excavation areas are assumed to have wind erosion. The Tier 1 hourly TSP, daily and annual RSP and daily and annual FSP levels at all the ASRs are predicted.

3.6.9 If any ASR is identified with non-compliance within the criteria under Tier 1 screening, with mitigation measures in place, it will be selected for subsequent Tier 2 assessment. For Tier 2 assessment, active works areas of 1,200m^2 for each zone group as outlined in the Supplementary EIA are first assumed to be located closest to the ASRs. If exceedance is still predicted, a smaller active works area will be modelled.

3.6.10 For annual average concentrations under Tier 2 assessment, the excavation works would be over the entire working area. The 1,200m^2 (or smaller areas) of active works areas would be assumed to be spread over affected working areas only. The annual average emission rates are the percentage of the specific active work areas multiplied by the emission rates of the whole excavation areas.

3.6.11 Dust emission impacts from concurrent project as described in **Section 3.4.15** are included in the assessment.

HEAVY METALS CONCENTRATIONS

3.6.12 In order to estimate the air-borne HM concentrations that could be inhaled and the associated health impacts due to the Project, the maximum PM_{10} concentration for all ASRs as predicted by the modelling results was multiplied with the HMs concentrations of soil samples obtained from the site investigation. PM_{10} concentrations were chosen to estimate the air-borne HM levels as they are fine enough to penetrate further into the lungs than TSP, and are therefore considered to cause more severe health impacts than coarser particles, such as TSP.

3.6.13 HMs concentrations were determined by averaging the HMs concentrations at different zones from the borehole information of the soil laboratory testing performed during the various SI. Based on historical site review, current site activities and using a risk-based approach, no new site activities that pose potential contamination were introduced to the Project Site since the approval of the Supplementary EIA Report. Operation activities leading to potential contamination at the Site are not anticipated. For details, please refer to **Section 6.5**. Therefore, the same average HMs concentrations as the zone grouping in the Supplementary EIA, were adopted in the assessment. The HMs concentrations of soil are shown in **Table 3-9** below. Details of HMs concentrations at each grid can be found in **Appendix 3.5**.

Table 3-9 Average HMs Concentrations of Soil at Different Zones

Pollutant		Concentration of Soil, mg/kg		
		Zone 1A & 3	Zone 1B & 1C	Zone 2
Arsenic	(As)	8.82	16.29	10.67
Barium	(Ba)	66.03	133.68	120.86
Cadmium	(Cd)	2.74	0.56	0.47
Cobalt	(Co)	3.92	4.48	4.96
Chromium (III)	(Cr (III))	14.59	9.28	5.17
Chromium (VI)	(Cr (VI))	5.63	9.24	10.81
Copper	(Cu)	136.26	170.86	70.20
Molybdenum	(Mo)	2.61	1.92	2.23
Nickel	(Ni)	6.71	10.04	8.22

Pollutant		Concentration of Soil, mg/kg		
		Zone 1A & 3	Zone 1B & 1C	Zone 2
Lead	(Pb)	376.80	316.39	222.05
Tin	(Sn)	17.01	19.85	31.62
Zinc	(Zn)	657.43	405.24	411.29
Mercury	(Hg)	2.40	3.88	2.99

HYDROCARBONS EMISSION RATES

3.6.14 HCs emissions were assumed to occur in two processes during excavation phase. The first process is emission during excavation during working hours and the second is through exposed ground that is undistributed during non-working hours.

3.6.15 Referring to the Supplementary EIA Report, during working hours, all HCs are assumed to be volatilised during excavation, and only gaseous emissions are modelled. Modelling of HCs attached to dust particles was not assessed as all HCs were assumed to be released during excavation with no contaminants left to be dispersed with the dust component. This was considered as a conservative approach to assess the HCs emissions during excavation. The average HCs concentrations are estimated through the borehole information of each grid and averaged as the zone grouping, as **Section 3.4.2**. The HCs emission rates ($g/m^2/s$) are calculated as the average HCs concentrations at specific zone groups, multiplied by the average excavation rate, divided by the area of excavation of the zone group. The excavation rate is derived by the total soil volume requiring excavation for each zone group, divided by the total working days for excavation for that zone group. The same HCs average concentrations and emission rates as the Supplementary EIA were employed. Details of excavation and emission rates are shown in **Appendix 3.6**. Referring to the Supplementary EIA, it is assumed that maximum excavation area of 1,200 m^2 per zone group at any time will be excavated at any given time in each zone group.

3.6.16 HCs emission rates of undisturbed ground were modelled as the potential air quality impact of volatilisation of contaminated soils on local ASRs during non-working hours. The same HCs emission rates during non-working hours as the Supplementary EIA were used for the assessment. The methodology and assumptions for the emission rates are outlined in the section below.

3.6.17 The Contaminant flux at ground surface can be calculated by Jury's equation based on Part 3: Models for Detailed Assessment of Soil Screening Guidance: Technical Background Document, 1996, USEPA EPA/540/R-95/128 as follows:

$$J_s = C_o(D_A/ \pi.t)^{1/2} x [1 - exp (-d_s^2 / 4.D_A.t)]$$

where J_s = contaminant flux at ground surface (g/cm^2-s)
C_o = uniform contaminant concentration at t=0 (g/cm^3)
D_A = apparent diffusivity (cm^2/s)
T time (s)
d_s depth of uniform soil contamination at t = 0 (cm)

3.6.18 The assumptions outlined in the Supplementary EIA, as below, were applied:

- Uniform soil properties (e.g., homogeneous average soil water content, bulk density, porosity, and fraction organic carbon);
- Instantaneous linear equilibrium adsorption;
- Linear equilibrium liquid-vapour partitioning (Henry's law);
- Uniform initial contaminant incorporation at t=0;
- Chemicals in a dissolved form only (i.e., soil contaminant concentrations below C_{sat});
- No boundary layer thickness at ground level (no stagnant air layer);
- No water evaporation or leaching;
- No chemical reactions, biodegradation, or photolysis; and
- ds is much greater than $(4D_At)^{1/2}$.

3.6.19 Jury's equation should be solved for a time dependent contaminant flux averaged over the Project period. The Exposure Model for Soil Organic Fate and Transport (EMSOFT) model as developed by USEPA/Office of Research and Development's (ORD's) National Centre for Environmental Assessment, was used for calculating the time averaged flux. The calculated flux was applied to the whole reprovisioning option period. Details of emission rates and assumptions are shown in **Appendix 3.7**.

3.6.20 Referring to the assumptions of Supplementary EIA, emission rates of HCs would quickly return as undistributed soils once the soil is placed in the stockpile. Therefore, HCs are assumed to be volatilised during excavation. Stockpile emissions were not included in the modelling.

MODELLING SCENARIOS

3.6.21 The long-term (annual average) and short-term (daily and hourly average) HCs impacts were predicted by using AERMOD model.

3.6.22 For the purpose of assessing the long-term impact, with reference to the Supplementary EIA, a specific annual average active area percentage has to be calculated using the equation below.

$$\frac{Specific\ Excavation\ Area\ within\ the\ Zone\ Group\ (m^2)}{Total\ Zone\ Group\ Area\ (m^2)}\ [A] \times \frac{Total\ Excavation\ Time\ (months)}{12\ months\ (for\ annual\ average)}[B]$$

3.6.23 This equation estimates the HC emission at each zone group in a year, taking account of [A] the percentage of active excavation area at the zone group at only one time; and [B] the percentage of active excavation time in a year.

3.6.24 To mitigate the environmental impacts of the excavation works, limits would be imposed to the active excavation area within each zone group under different reprovisioning options (which would be presented in **Table 3-18**). Therefore, [A] is the maximum active excavation area allowed in each zone group expressed as a percentage of the total zone group area. On the other hand, [B] is expected duration of excavation expressed as a percentage of a year.

3.6.25 The specific annual average active area percentages of each zone group were then multiplied to the emission rates of different pollutant to obtain the annual emission rates for the long-term modelling. Details of calculation is shown in **Appendix 3.7**. The specific excavation area for this assessment was determined from 1,200m^2 as listed in the current EP and then modified to be within the pollutant limits of different zone groups.

3.6.26 For short-term modelling, the specific active area within each zone group as determined from the long-term modelling was placed as close to the ASRs as possible. Further revision of the active work area is required if the short-term limit is exceeded.

3.6.27 Excavation of the site is the main source of HCs emissions of the Project. The Project was modelled based on the 3 Reprovisioning Options. Referring to the works programme, each option was followed as different parts, adopted in the Supplementary EIA as shown below. For a conservative approach, the concurrent excavation works of different zones of each part of Reprovisioning Options were assumed to be carried out for a complete year i.e. [B] is taken as 100%. Details are shown in **Appendix 3.11**.

- Reprovisioning Option A:

  Part 1: Heavy construction including excavation of Zone 1A, 1B and 1C;

  Part 2: Heavy construction including excavation of Zone 2; and

  Part 3: Heavy construction including excavation of Zone 3.

- Reprovisioning Option B:

  Part 1: Zone 1A, 1B, 1C and 30% Zone 3;

  Part 2: Zone 2; and

  Part 3: 70% Zone 3.

- Reprovisioning Option C: all Zones

ODOUR ASSESSMENT

3.6.28 Referring to the approved EIA Report and the Demolition of Buildings and Structures in the Proposed Kennedy Town Comprehensive Development Area Site (AEIAR-058/2002), no odour issue was observed during the intrusive site investigations associated with any borehole samples. According to the Supplementary EIA Report, no odour issue was identified in the site investigation carried out during Contamination Confirmatory Investigation nor further investigation within the site. In addition, there was no odour observed during site visit on 4 June 2020 and 28 December 2020. Hence, quantitative assessment of odour was considered not necessary.

HEALTH RISK ASSESSMENT

3.6.29 The major pathways for exposure to contaminated vapour and particulates are through inhalation, ingestion and dermal contact. The exposure pathway “by direct contact with soil” is not relevant to the Project as all ASRs will be outside of the work site at the time of decontamination works. For workers within the site, necessary PPE including liquid tight gloves will be provided and no direct contact with contaminated materials is expected. Therefore, dermal contact was not assessed as an exposure pathway. Ingestion occurs through food or water that has direct contact with the contaminated soil. No food is grown on the site and municipal supply of drinking water is not sourced near the site; therefore,

ingestion was not considered as an exposure pathway. Inhalation was identified as the only exposure pathway, as emissions from the site are either gases or suspended particulates.

3.6.30 The health risk assessment determines the carcinogenic risk as acute and chronic non-carcinogenic health effects. Acute effects are short-term effects which refers to 1- and 24-hourly average risk levels. Chronic effect is assumed to be annual average risk level.

3.6.31 Pollutants are divided into the categories of non-criteria carcinogenic and non-criteria non-carcinogenic for the assessment.

HEALTH RISKS FOR CRITERIA POLLUTANTS

3.6.32 The main works of the Project are excavation, soil decontamination and the associated works, where a significant amount of gaseous emissions is not expected. Therefore, particulate matter was assessed as the criteria pollutants for health impacts from dust emissions of the Project. The short- and long-term mortality and morbidity risks refer to maximum 24-hourly average and annual average concentrations, respectively. Based on the same methodology as the Supplementary EIA, the risk associated with the increase in particulate matter generated by the Project was calculated by equation below.

$$I(E) = I(HK) \times AP$$

I_e = total instances of hospital admissions or death from cardiopulmonary or respiratory causes due to a change in the air pollution concentration of 10μg/m^3.

I_{HK} = Total instances of hospital admissions or death from cardiopulmonary or respiratory causes for all of Hong Kong.

AP = Attributable proportion, that is, the ratio of hospital admissions or deaths that can be attributed to a concentration increase of 10 μg/m^3 of the criteria pollutant.

$$AP = \left(\frac{ER \times P}{RR \times P}\right)$$

ER = Excess risk percentage attributable to a 10 μg/m^3 increase in air pollutant.

P = Percentage of population exposed.

RR = Relative Risk (ER+1).

$$I_{KTDW} = \frac{\Delta Conc}{\frac{10\mu g}{m^3}} \times AP \times Pop_{KTCDA} \times \frac{I_{HK}}{Pop_{HK}}$$

I_{KTDW} = The absolute number of instances of mortality or morbidity cases attributed to air pollution emissions from carrying out of the Kennedy Town decontamination works.

$\Delta Conc$ = Change in concentration of the criteria pollutant due to the carrying out of the project.

Pop_{KTDW} = Population of area affected by pollutant emissions due to project.

Pop_{HK} = Population of Hong Kong.

3.6.33 The relative increase in mortality or morbidity due to all causes from the assessed pollutant is determined by the absolute number of instances of mortality or morbidity cases attributed to air pollution emissions from carrying out of the Kennedy Town decontamination project (I_{KTDW}) divided by the population of area affected by pollutant emissions due to Kennedy Town decontamination works (Pop_{KTDW}).

3.6.34 Short- and long-term mortality and morbidity risks associated with exposure to particulate matter as well as hospital illness and mortality data are referenced from the Expansion of Hong Kong International Airport into a Three-Runway System EIA (AEIAR-185/2014) and summarised in **Table 3-10** to **Table 3-13**.

Table 3-10 Excess Risk (ER) of Short-term Mortality and Morbidity attributable to a 10 μg/m^3 increase in Air Pollutant (95% Confidence Interval)

Air Pollutant	All causes mortality	Cardiovascular mortality	Respiratory mortality	Cardiovascular morbidity	Respiratory morbidity
PM_{10}	0.51%	0.63%	0.69%	0.58%	0.60%

Source: Table 17.2.27 of Three-Runway System EIA

Table 3-11 Excess Risk (ER) of Long-term Mortality attributable to a 10 μg/m^3 increase in Air Pollutant (95% Confidence Interval)

Air Pollutant	All causes mortality	Cardiopulmonary mortality	Lung Cancer mortality
PM_{10}	5.0% (not statistically significant)	16.3% (not statistically significant)	28.5% (not statistically significant)
$PM_{2.5}$	4%	6%	8%

Source: Table 17.2.28 of Three-Runway System EIA

Table 3-12 Summary of Parameters for Hospital illnesses Health Outcome

Health Outcome		RR [1] (per 10μg/m^3)	AP [2] (per 10μg/m^3)	I_{HK} [3] [4]	I_e (per 10μg/m^3)
Short-term hospital illnesses effects from PM_{10}	Cardiovascular	1.0058	0.00577	163,461	943
	Respiratory	1.0060	0.00596	188,101	1121

Note:

[1] Table 17.2.29 of Three-Runway System EIA Report

[2] Total population of Hong Kong in 2016 is 7,336,585 (Census and Statistics Department)

[3] In HK in 2016, numbers of in-patient discharges of cardiovascular diseases in hospitals (ICD10:I00-I99) = 163,461 (Hong Kong Department of Health 2017)

[4] In HK in 2016, numbers of in-patient discharges of respiratory diseases in hospitals (ICD10:J00-J99) = 188,101 (Hong Kong Department of Health 2017)

Table 3-13 Summary of Parameters for Premature Death Mortality Health Outcome

Health Outcome		RR [1] (per 10μg/m^3)	AP [2] (per 10μg/m^3)	I_{HK} [3] [4] [5]	I_e (per 10μg/m^3)
Long-term mortality effects of $PM_{2.5}$	All causes mortality	1.0400	0.03846	44,849	1725
	Cardiopulmonary	1.0600	0.05660	20,704	1172

Health Outcome		RR [1] (per 10μg/m^3)	AP [2] (per 10μg/m^3)	I_{HK} [3] [4] [5]	I_e (per 10μg/m^3)
	Malignant Neoplasm of trachea bronchus and lung	1.0800	0.07407	3,780	280
Short-term mortality effects of PM_{10}	All causes mortality	1.0051	0.00507	44,849	227
	Cardiovascular	1.0063	0.00626	10,051	63
	Respiratory	1.0069	0.00685	10,653	73

Note:

[1] Table 17.2.30 of Three-Runway System EIA Report

[2] Total population of Hong Kong in 2016 is 7,336,585 (Census and Statistics Department)

[3] In HK in 2016, numbers of deaths in hospitals for all causes = 46,662; numbers of deaths in hospital from external causes of morbidity and mortality = 1,813. Hence, total number of natural deaths in hospital = 46,662 - 1,813 = 44,849 (Hong Kong Department of Health 2017)

[4] In HK in 2016, numbers of deaths in hospitals from cardiovascular diseases (ICD10:I00-I99) = 10,051; numbers of deaths in hospital from respiratory diseases (ICD10:J00-J99) = 10,653. Hence, total number of cardiopulmonary deaths in 2016 in hospital in HK = 10,051 + 10,653 = 20,704 (Hong Kong Department of Health 2017)

[5] In HK in 2016, numbers of deaths in hospitals from Malignant Neoplasm of trachea, bronchus and lung (ICD10:C33-C34) = 3,780 (Hong Kong Department of Health 2017)

HEALTH RISKS FOR NON-CRITERIA POLLUTANTS

ACUTE AND CHRONIC NON-CARCINOGENIC HEALTH RISKS

3.6.35 The cumulative TAP concentrations predicted at ASRs are compared against the reference values as **Table 3-3**. If the predicted cumulative concentrations at ASRs are less than the reference values, the health effects are not anticipated.

CARCINOGENIC HEALTH RISKS

3.6.36 The health risk is determined through the increase in the number of cancer cases per million population that is attributable to the identified pollutants. The incremental lifetime cancer risk is calculated as equation with reference to USEPA document Risk Assessment Guidance for Superfund (RAGS), Volume I: Human Health Evaluation Manual (Part F, Supplemental Guidance for Inhalation Risk Assessment), 2009 as below.

$$Incremental\ Lifetime\ Cancer\ Risk = EC \times IUR$$

EC = time-weighted average concentration (i.e. concentrations due to the Project excluding background concentration) (μg/m^3).

IUR = the corresponding inhalation unit risk estimate for that TAP.

$$EC = \frac{CA \times ED}{AT}$$

CA = change in annual average contaminant concentration in air due to the project (μg/m^3).

ED = exposure duration (years).

AT = averaging time (lifetime in years).

3.6.37 Referring to the Supplementary EIA Report, the cancer risk guidelines in the Expansion of Hong Kong International Airport into a Three-Runway System EIA Report (AEIAR-185/2014) were adopted as **Table 3-14** below.

Table 3-14 Incremental Lifetime Cancer Risk Guidelines

Risk Value	Description
Incremental lifetime cancer risks less than or equal to one in a million ($1x10^{-6}$)	Negligible
Incremental lifetime cancer risks fall between 1x10-4 and $1x10^{-6}$	Considered by the New Jersey Department of Environmental Protection Division of Air Quality (DAQ) risk management committee on a case-by-case basis. Sources with risks falling within this range must take steps to minimise the projected risk before a Pre-Construction Permit can be issued
Incremental lifetime cancer risks greater than or equal to one in ten thousand ($1x10^{-4}$)	Unacceptable

3.7 ASSESSMENT RESULTS

DUST IMPACT

TIER 1 SCENARIO 1 - DUST

3.7.1 The cumulative concentrations at representative ASRs under the Tier 1 mitigated scenario are summarized in **Table 3-15** below. Detailed results are presented in **Appendix 3.8**.

Table 3-15 Summary of Cumulative Dust Concentrations at ASRs – Tier 1 Scenario (Mitigated Case)

Pollutant	Averaging Period and Criteria	Tier 1 Mitigated Case (µg/m³)		
		Background	Project (includes concurrent Projects)	Total
TSP	1st highest hourly average concentration, 500 µg/m³	71.4	379.5	450.9
PM_{10}	10th highest daily average concentration, 100 µg/m³	66.5	3.2	69.8
	Annual average concentration, 50 µg/m³	26.2	7.2	33.5
$PM_{2.5}$	10th highest daily average concentration, 75 µg/m³	45.6	1.1	46.6
	19th highest daily average concentration, 50 µg/m³ [1]	31.0	2.3	33.3

Pollutant	Averaging Period and Criteria	Tier 1 Mitigated Case (µg/m³)		
		Background	Project (includes concurrent Projects)	Total
	36th highest daily average concentration, 50 µg/m³ [1]	23.9	0.0	23.9
	Annual average concentration, 35 µg/m³ (25 µg/m³ [1])	14.1	1.2	15.3

Notes

[1] New AQOs will be implemented on 1.1.2022.

[2] The results represent any of the Reprovisioning Options

3.7.2 Under Tier 1 mitigated case, all ASRs would comply with the relevant criteria of TSP, PM_{10} and $PM_{2.5}$. Contour plots are shown in **Figure 3.4** to **Figure 3.10**.

HEALTH ASSESSMENT

CRITERIA POLLUTANTS

3.7.3 PM_{10} and $PM_{2.5}$ are assessed as criteria pollutants. For PM_{10} there are only risk factors associated with short-term health effects and for $PM_{2.5}$, there are only risk factors associated with long-term effects. The average, minimum and maximum increases in mortality and morbidity due to the project under Tier 1 mitigated scenario are shown in **Table 3-16** below. Detailed results for all ASRs are presented in **Appendix 3.9**. Results are based on the Tier 1 mitigated scenario.

Table 3-16 Summary of Changes in Health Risk Associated with the Project Works

Pollutants	Average (Min – Max) Conc. Change due to Project, µg/m³	Average (Min – Max) Relative increase mortality and morbidity per 100,000 population due to Project		
		All causes mortality	Cardiovascular morbidity	Respiratory morbidity
Short-term PM_{10} (Daily average)	7.23 (0.27 – 26.53)	2.24 (0.083 – 8.22)	9.30 (0.344 – 34)	11.0 (0.409 – 40.5)
Long-term $PM_{2.5}$ (Annual average)	0.22 ($3.4x10^{-3}$ – 1.25)	0.52 ($7.99x10^{-3}$ – 2.93)	N/A	N/A

Notes

[1] The results represent any of the 3 Reprovisioning Options

3.7.4 The concentration changes due to the Project are higher than the ones predicted in the Supplementary EIA as closer ASRs within CSTG are included in this assessment.

3.7.5 According to Tables on Health Status and Health Services 2016 (Hong Kong Department of Health, 2017) and census data from 2016, the total deaths to all causes, excluding external

causes, in Hong Kong for 2016 is about 611 per 100,000 population. The highest average increases in death due to the Project will be 2.24 per 100,000 population for short-term PM10 and 0.52 per 100,000 population for long-term PM2.5. These represent approximately 0.37% and 0.09% of the mortality due to all causes in 2016 for short-term PM10 and long-term PM2.5, respectively.

3.7.6 The total numbers of hospital inpatient discharges due to cardiovascular diseases or respiratory illness in 2016 are 2,228 and 2,564 per 100,000 population, respectively. The highest average increases in morbidity attributed to the Project are 9.30 and 11.0 per 100,000 population for cardiovascular diseases and respiratory related illness, respectively, due to short term PM10 (i.e., about 0.42% and 0.43% of the total hospital inpatient discharges due to cardiovascular diseases and respiratory illness, respectively). Details of calculations are shown in **Appendix 3.9**.

3.7.7 The above highest average increases in mortality and morbidity are predicted at ASRs close to the project. The risk decreases with increased distance from the ASR. In addition, the increase in concentration is purely temporary with a small increase in mortality and morbidity, compared to the total deaths and inpatient discharges. Hence, the increased mortality and morbidity due to the project is considered acceptable.

NON-CRITERIA POLLUTANTS

NON-CARCINOGENIC HEALTH RISKS

3.7.8 The cumulative HMs concentrations based on the PM_{10} concentrations in the results of Tier 1 (mitigated case) are presented in **Table 3-17** below. Details of the cumulative concentrations are given in **Appendix 3.10**.

Table 3-17 Summary of Cumulative HMs Concentrations for Non-carcinogenic Health Risks Associated with the Project – Tier 1 Scenario (Mitigated Case)

Pollutant	Max. Hourly Average Conc. (µg/m³)		Max. Daily Average Conc. (µg/m³)		Max. Annual Average Conc. (µg/m³)	
	Conc.	Ref Value	Conc.	Ref Value	Conc.	Ref Value
HMs						
Arsenic	3.61E-03	2.00E-01	4.32E-04	3.60E-02	3.00E-03	1.50E-02
Barium	2.97E-02	5.00E+00	3.55E-03	2.50E+00	1.28E-02	5.00E-01
Cadmium	6.08E-04	1.00E-01	7.27E-05	3.00E-02	5.48E-04	1.00E-02
Cobalt	1.10E-03	2.00E-01	1.32E-04	7.10E-02	3.58E-05	1.00E-01
Chromium (III)	N/A	N/A	3.87E-04	5.00E-01	2.33E-03	1.10E-01
Chromium (VI)	2.51E-03	8.50E-03	3.97E-04	3.00E-01	1.88E-04	1.00E-01
Copper	3.79E-02	1.00E+02	4.53E-03	3.60E+00	1.50E-02	2.40E+00
Molybdenum	5.79E-04	3.00E+01	6.92E-05	1.10E+01	1.88E-05	3.00E+00
Nickel	2.23E-03	2.00E-01	2.66E-04	2.00E-01	4.97E-03	9.00E-02
Lead	N/A	N/A	1.00E-02	1.50E-01	1.77E-02	5.00E-01
Tin	7.01E-03	2.00E+01	8.39E-04	1.00E+01	2.28E-04	2.00E+00

Pollutant	Max. Hourly Average Conc. (µg/m³)		Max. Daily Average Conc. (µg/m³)		Max. Annual Average Conc. (µg/m³)	
	Conc.	Ref Value	Conc.	Ref Value	Conc.	Ref Value
Zinc	1.46E-01	2.00E+01	N/A	N/A	8.81E-02	2.00E+00
Mercury	8.61E-04	6.00E-01	1.03E-04	3.00E-01	2.12E-04	1.00E+00

3.7.9 It can be seen from **Table 3-17** that the cumulative maximum concentrations for HMs from the Project under Tier 1 scenario (mitigated case) are less than their corresponding reference values.

3.7.10 For HCs, Tier 2 scenario was conducted directly to review the excavation area of 1,200m^2 under the Supplementary EIA. As benzo(a)pyrene is the most critical HC pollutant to the ASRs i.e. the ratios of soil concentration of benzo(a)pyrene against the relevant limits is the highest among all HCs, it has the highest potential in exceedance of limits. Hence, benzo(a)pyrene was selected to review the excavation areas of different Reprovisioning Options as **Section 3.6.27** for the ERR.

3.7.11 Under the Tier 2 scenario, active excavation areas with sizes from 340m^2 to 1,200m^2 at different zone groupings, under different parts of Reprovisioning Options as described in **Section 3.6.27** for which excavation at some zone groups will be conducted concurrently. For short-term modelling, active excavation areas with specific sizes are assumed to be positioned closest to the potentially affected ASRs to reflect the worst-case scenario, which are shown in **Appendix 3.11**. For long-term modelling, excavation at each part of Reprovisioning Options is assumed to conducted for a whole year as conservative approach. The sizes of active work areas under different Reprovisioning Options are shown in **Table 3-18** below.

Table 3-18 Active Work Area for Different Reprovisioning Options

Reprovisioning Option	Zone Group	Maximum Active Excavation Area (m^2)
A	1A + 3	1200
	1B + 1C	648
	2	1200
B	1A + 3	1200
	1B + 1C	400
	2	1200
C	1A + 3	800
	1B + 1C	340
	2	800

3.7.12 The cumulative benzo(a)pyrene concentrations and other HCs are shown in **Table 3-19** to **Table 3-21** below. No exceedance of reference risks values is predicted under Tier 2 scenario. Detailed results are presented in **Appendix 3.12**.

Table 3-19 Summary Cumulative HCs Concentrations for Non-carcinogenic Health Risks Associated with the Project – Tier 2 Scenario – Reprovisioning Option A

Pollutant	Max Hourly Average Conc. (µg/m³)		Max Daily Average Conc. (µg/m³)		Max Annual Average Conc. (µg/m³)	
	Conc.	Ref Value	Conc.	Ref Value	Conc.	Ref Value
HCs						
Naphthalene	1.40E+01	5.00E+02	9.80E-00	2.25E+01	3.34E+00	1.00E+01
Phenanthrene	3.89E-02	5.00E-01	2.25E-02	7.10E-01	1.34E-02	5.00E-02
Anthracene	7.33E-03	5.00E-01	0.00E+00	N/A	7.00E-04	5.00E-02
Fluoranthene	2.97E-02	5.00E-01	0.00E+00	N/A	2.97E-03	5.00E-02
Pyrene	3.60E-02	5.00E-01	7.38E-03	7.10E-01	2.28E-03	5.00E-02
Benzo(a)pyrene	2.69E-02	3.00E-02	N/A	N/A	2.60E-04	3.00E-04
Benzene	5.60E+00	2.70E+01	4.36E+00	2.90E+01	1.17E+00	3.00E+01
Toluene	1.40E+01	1.50E+04	1.19E+01	3.75E+03	4.20E+00	5.00E+03
Ethylbenzene	6.50E+00	8.67E+04	3.22E+00	2.17E+04	9.98E-01	1.00E+03
Xylenes (Total)	2.17E+01	7.37E+03	1.16E+01	8.82E+03	3.49E+00	1.00E+02
Acenaphthylene	3.78E-02	1.00E+00	N/A	N/A	4.92E-03	1.00E-01
Acenaphthene	3.92E-02	1.00E+00	N/A	N/A	8.93E-03	1.00E-01
Fluorene	9.37E-03	1.00E+01	N/A	N/A	2.24E-03	1.00E+00
Chrysene	1.71E-02	3.60E-01	3.09E-03	2.40E-01	6.64E-04	5.00E-02
Benzo(a)anthracene	2.14E-02	5.00E-01	3.13E-03	3.60E-01	3.80E-04	5.00E-02
Benzo(b)fluoranthene	2.69E-02	3.60E-01	N/A	N/A	2.80E-04	5.00E-02
Benzo(k)fluoranthene	1.92E-02	5.00E-01	N/A	N/A	1.97E-04	5.00E-02
Dibenzo(a,h)anthracene	7.14E-03	5.00E-01	N/A	N/A	5.96E-05	5.00E-02
Indeno(1,2,3-cd)pyrene	1.23E-02	5.00E-01	N/A	N/A	1.80E-04	5.00E-02
Benzo(g,h,i)perylene	1.67E-02	5.00E-01	N/A	N/A	2.44E-04	5.00E-02

Table 3-20 Summary of Cumulative HCs Concentrations for Non-carcinogenic Health Risks Associated with the Project – Tier 2 Scenario – Reprovisioning Option B

Pollutant	Max Hourly Average Conc. (µg/m³)		Max Daily Average Conc. (µg/m³)		Max Annual Average Conc. (µg/m³)	
	Conc.	Ref Value	Conc.	Ref Value	Conc.	Ref Value
HCs						
Naphthalene	1.40E+01	5.00E+02	9.80E-00	2.25E+01	3.34E+00	1.00E+01
Phenanthrene	4.03E-02	5.00E-01	2.26E-02	7.10E-01	1.34E-02	5.00E-02
Anthracene	7.95E-03	5.00E-01	N/A	N/A	7.10E-04	5.00E-02
Fluoranthene	3.23E-02	5.00E-01	N/A	N/A	2.97E-03	5.00E-02
Pyrene	3.93E-02	5.00E-01	7.79E-03	7.10E-01	2.28E-03	5.00E-02
Benzo(a)pyrene	2.96E-02	3.00E-02	N/A	N/A	2.60E-04	3.00E-04
Benzene	5.60E+00	2.70E+01	4.36E+00	2.90E+01	1.17E+00	3.00E+01
Toluene	1.40E+01	1.50E+04	1.19E+01	3.75E+03	4.20E+00	5.00E+03

Pollutant	Max Hourly Average Conc. (µg/m³)		Max Daily Average Conc. (µg/m³)		Max Annual Average Conc. (µg/m³)	
	Conc.	Ref Value	Conc.	Ref Value	Conc.	Ref Value
Ethylbenzene	6.50E+00	8.67E+04	3.22E+00	2.17E+04	9.98E-01	1.00E+03
Xylenes (Total)	2.17E+01	7.37E+03	1.16E+01	8.82E+03	3.49E+00	1.00E+02
Acenaphthylene	3.84E-02	1.00E+00	N/A	N/A	4.92E-03	1.00E-01
Acenaphthene	3.89E-02	1.00E+00	N/A	N/A	8.93E-03	1.00E-01
Fluorene	9.70E-03	1.00E+01	N/A	N/A	2.24E-03	1.00E+00
Chrysene	1.87E-02	3.60E-01	3.29E-03	2.40E-01	6.64E-04	5.00E-02
Benzo(a)anthracene	2.35E-02	5.00E-01	3.40E-03	3.60E-01	3.80E-04	5.00E-02
Benzo(b)fluoranthene	2.61E-02	3.60E-01	N/A	N/A	2.80E-04	5.00E-02
Benzo(k)fluoranthene	2.12E-02	5.00E-01	N/A	N/A	1.97E-04	5.00E-02
Dibenzo(a,h)anthracene	7.86E-03	5.00E-01	N/A	N/A	5.96E-05	5.00E-02
Indeno(1,2,3-cd)pyrene	1.35E-02	5.00E-01	N/A	N/A	1.80E-04	5.00E-02
Benzo(g,h,i)perylene	1.83E-02	5.00E-01	N/A	N/A	2.44E-04	5.00E-02

Table 3-21 Summary of Cumulative HCs Concentrations for Non-carcinogenic Health Risks Associated with the Project – Tier 2 Scenario – Reprovisioning Option C

Pollutant	Max Hourly Average Conc. (µg/m³)		Max Daily Average Conc. (µg/m³)		Max Annual Average Conc. (µg/m³)	
	Conc.	Ref Value	Conc.	Ref Value	Conc.	Ref Value
HCs						
Naphthalene	1.40E+01	5.00E+02	9.80E-00	2.25E+01	3.34E+00	1.00E+01
Phenanthrene	3.24E-02	5.00E-01	2.16E-02	7.10E-01	1.34E-02	5.00E-02
Anthracene	5.39E-03	5.00E-01	N/A	N/A	8.20E-04	5.00E-02
Fluoranthene	2.91E-02	5.00E-01	N/A	N/A	3.16E-03	5.00E-02
Pyrene	3.45E-02	5.00E-01	6.57E-03	7.10E-01	2.27E-03	5.00E-02
Benzo(a)pyrene	2.92E-02	3.00E-02	N/A	N/A	2.60E-04	3.00E-04
Benzene	5.60E+00	2.70E+01	4.36E+00	2.90E+01	1.17E+00	3.00E+01
Toluene	1.40E+01	1.50E+04	1.19E+01	3.75E+03	4.20E+00	5.00E+03
Ethylbenzene	6.50E+00	8.67E+04	3.22E+00	2.17E+04	9.98E-01	1.00E+03
Xylenes (Total)	2.17E+01	7.37E+03	1.16E+01	8.82E+03	3.49E+00	1.00E+02
Acenaphthylene	3.78E-02	1.00E+00	N/A	N/A	4.92E-03	1.00E-01
Acenaphthene	3.88E-02	1.00E+00	N/A	N/A	8.93E-03	1.00E-01
Fluorene	8.07E-03	1.00E+01	N/A	N/A	2.24E-03	1.00E+00
Chrysene	1.67E-02	3.60E-01	2.73E-03	2.40E-01	6.64E-04	5.00E-02
Benzo(a)anthracene	1.42E-02	5.00E-01	1.95E-03	3.60E-01	3.60E-04	5.00E-02
Benzo(b)fluoranthene	2.94E-02	3.60E-01	N/A	N/A	2.90E-04	5.00E-02
Benzo(k)fluoranthene	1.45E-02	5.00E-01	N/A	N/A	1.77E-04	5.00E-02
Dibenzo(a,h)anthracene	5.73E-03	5.00E-01	N/A	N/A	5.96E-05	5.00E-02

Pollutant	Max Hourly Average Conc. (µg/m³)		Max Daily Average Conc. (µg/m³)		Max Annual Average Conc. (µg/m³)	
	Conc.	Ref Value	Conc.	Ref Value	Conc.	Ref Value
Indeno(1,2,3-cd)pyrene	1.16E-02	5.00E-01	N/A	N/A	1.80E-04	5.00E-02
Benzo(g,h,i)perylene	1.43E-02	5.00E-01	N/A	N/A	2.34E-04	5.00E-02

3.7.13 The associated non-carcinogenic health risks with the implementation of mitigation measures and control of active work areas are considered as acceptable.

CARCINOGENIC HEALTH RISKS

3.7.14 The incremental lifetime cancer risks are determined from the worst-case ASR annual average concentration increase due to the project. The incremental lifetime cancer risks due to the Project under different work stages are summarized in **Table 3-22** to **Table 3-24** below. Detailed results can be found in **Appendix 3.13**.

Table 3-22 Summary of Incremental Lifetime Cancer Risks due to TAPs associated with the Project – Reprovisioning Option A

Pollutant	Annual Average Conc. Change due to the Project (µg/m³) [1]	Incremental Long-term inhalation exposure conc. (µg/m³) [2]	Inhalation Unit Risk (IUR) (µg/m³)	Incremental lifetime cancer risk [3]
		Column A	Column B	Column C
HCs				
Naphthalene	1.00E-05	3.93E-07	3.40E-05	1.34E-11
Benzo(a)pyrene	2.00E-04	7.86E-06	8.70E-02	6.84E-07
Benzene	1.00E-05	3.93E-07	6.00E-06	2.36E-12
Ethylbenzene	1.00E-05	3.93E-07	2.50E-06	9.82E-13
Benzo(a)anthracene	1.60E-04	6.29E-06	1.10E-04	6.91E-10
Benzo(b)fluoranthene	1.70E-04	6.68E-06	1.10E-04	7.35E-10
Benzo(k)fluoranthene	1.50E-04	5.89E-06	1.10E-04	6.48E-10
Chrysene	1.20E-04	4.71E-06	1.10E-05	5.19E-11
Dibenzo(a,h)anthracene	5.00E-05	1.96E-06	1.20E-03	2.36E-09
Indeno(1,2,3-cd)pyrene	9.00E-05	3.54E-06	1.10E-04	3.89E-10
HMs				
Arsenic	1.18E-04	4.62E-06	1.50E-03	6.93E-09
Cadmium	1.98E-05	7.77E-07	1.80E-03	1.40E-09
Chromium (VI)	7.80E-05	3.06E-06	4.00E-02	1.23E-07
Nickel	7.25E-05	2.85E-06	3.80E-04	1.08E-09
Lead	2.72E-03	1.07E-04	1.20E-05	1.28E-09
Total incremental lifetime cancer risk (Reprovisioning Option A)				8.22E-07

Notes

[1] HMs and HCs are based on annual average concentrations of Tier 1 and Tier 2 mitigated scenario respectively.

[2] Refer to S.3.6.36 for the calculation of the incremental long-term inhalation exposure concentration (EC) from the concentration change due to project (CA)

[3] Column C = Column A * Column B (Refer to S.3.6.36)

Table 3-23 Summary of Incremental Lifetime Cancer Risks due to TAPs associated with the Project – Reprovisioning Option B

Pollutant	Annual Average Conc. Change due to the Project (µg/m^3) [1]	Incremental Long-term inhalation exposure conc. (µg/m^3) [2]	Inhalation Unit Risk (IUR) (µg/m^3)	Incremental lifetime cancer risk [3]
		Column A	Column B	Column C
HCs				
Naphthalene	1.00E-05	3.57E-07	3.40E-05	1.21E-11
Benzo(a)pyrene	2.00E-04	7.14E-06	8.70E-02	6.21E-07
Benzene	1.00E-05	3.57E-07	6.00E-06	2.14E-12
Ethylbenzene	1.00E-05	3.57E-07	2.50E-06	8.93E-13
Benzo(a)anthracene	1.60E-04	5.71E-06	1.10E-04	6.29E-10
Benzo(b)fluoranthene	1.70E-04	6.07E-06	1.10E-04	6.68E-10
Benzo(k)fluoranthene	1.50E-04	5.36E-06	1.10E-04	5.89E-10
Chrysene	1.20E-04	4.29E-06	1.10E-05	4.71E-11
Dibenzo(a,h)anthracene	5.00E-05	1.79E-06	1.20E-03	2.14E-09
Indeno(1,2,3-cd)pyrene	9.00E-05	3.21E-06	1.10E-04	3.54E-10
HMs				
Arsenic	1.18E-04	4.20E-06	1.50E-03	6.30E-09
Cadmium	1.98E-05	7.06E-07	1.80E-03	1.27E-09
Chromium (VI)	7.80E-05	2.79E-06	4.00E-02	1.11E-07
Nickel	7.25E-05	2.59E-06	3.80E-04	9.83E-10
Lead	2.72E-03	9.71E-05	1.20E-05	1.17E-09
Total incremental lifetime cancer risk (Reprovisioning Option B)				7.47E-07

Notes

[1] HMs and HCs are based on annual average concentrations of Tier 1 and Tier 2 mitigated scenario respectively.

[2] Refer to S.3.6.36 for the calculation of the incremental long-term inhalation exposure concentration (EC) from the concentration change due to project (CA)

[3] Column C = Column A * Column B (Refer to S.3.6.36)

Table 3-24 Summary of Incremental Lifetime Cancer Risks due to TAPs associated with the Project – Reprovisioning Option C

Pollutant	Annual Average Conc. Change due to the Project (μg/m^3) [1]	Incremental Long-term inhalation exposure conc. (μg/m^3) [2]	Inhalation Unit Risk (IUR) (μg/m^3)	Incremental lifetime cancer risk [3]
		Column A	Column B	Column C
HCs				
Naphthalene	1.00E-05	2.26E-07	3.40E-05	7.69E-12
Benzo(a)pyrene	2.00E-04	4.52E-06	8.70E-02	3.94E-07
Benzene	1.00E-05	2.26E-07	6.00E-06	1.36E-12
Ethylbenzene	1.00E-05	2.26E-07	2.50E-06	5.65E-13
Benzo(a)anthracene	1.40E-04	3.17E-06	1.10E-04	3.48E-10
Benzo(b)fluoranthene	1.80E-04	4.07E-06	1.10E-04	4.48E-10
Benzo(k)fluoranthene	1.30E-04	2.94E-06	1.10E-04	3.23E-10
Chrysene	1.20E-04	2.71E-06	1.10E-05	2.99E-11
Dibenzo(a,h)anthracene	5.00E-05	1.13E-06	1.20E-03	1.36E-09
Indeno(1,2,3-cd)pyrene	9.00E-05	2.04E-06	1.10E-04	2.24E-10
HMs				
Arsenic	1.18E-04	2.66E-06	1.50E-03	3.99E-09
Cadmium	1.98E-05	4.47E-07	1.80E-03	8.05E-10
Chromium (VI)	7.80E-05	1.76E-06	4.00E-02	7.06E-08
Nickel	7.25E-05	1.64E-06	3.80E-04	6.23E-10
Lead	2.72E-03	6.15E-05	1.20E-05	7.38E-10
Total incremental lifetime cancer risk (Reprovisioning Option C)				4.73E-07

Notes

[1] HMs and HCs are based on annual average concentrations of Tier 1 and Tier 2 mitigated scenario respectively.

[2] Refer to S.3.6.36 for the calculation of the incremental long-term inhalation exposure concentration (EC) from the concentration change due to project (CA)

[3] Column C = Column A * Column B (Refer to S.3.6.36)

3.7.15 The highest total incremental lifetime cancer risk among the Reprovisioning Options is 8.22×10^{-7} under Reprovisioning Option A which is lower than 1×10^{-6} cancer risks in the above tables. The incremental lifetime cancer risks are considered as negligible.

3.8 MITIGATION MEASURES

3.8.1 In addition to the watering and 5.5m site hoarding, dust control measures as recommended in the Air Pollution Control (Construction Dust) Regulation, where applicable, should be implemented. Typical control measures are listed below.

- The works area shall be sprayed with water throughout the operation to maintain the entire surface wet (e.g. installation of sprinklers);

- Restricting heights from which materials are to be dropped, as far as practicable to minimise the fugitive dust arising from unloading / loading;
- Spraying of materials and surfaces should avoid excessive water usage;
- Any stockpile of dusty materials shall be covered entirely by impervious sheeting; and/or placed in an area sheltered on the top and 4 sides;
- All dusty materials shall be sprayed with water immediately prior to any loading, unloading or transfer operation to maintain the dusty materials wet;
- Compaction, turfing, hydroseeding, vegetation planting or sealing with latex, vinyl, bitumen, shortcrete or other suitable surface stabiliser shall be provided within six months after the last construction activity on the construction site or part of the construction site where the exposed earth lies; and,
- Avoid concurrent dusty construction works near ASRs through the control of timing and locations of different construction activities.

3.8.2 With implementation of all mitigation measures as above, the risks to human health would be considered as acceptable.

3.9 RESIDUAL IMPACT

3.9.1 With implementation of mitigation measures properly, no adverse residual impacts are anticipated.

3.10 ENVIRONMENTAL MONITORING AND AUDIT

3.10.1 Regular dust and VOC monitoring at the biopile exhaust is considered necessary, and regular site audits are also required to ensure the dust control measures are properly implemented. Same EM&A programme as the Supplementary EIA Report can be applied to this project but with an additional ambient dust monitoring locations at ASR P01 and P10 at the CSTG, as shown in **Appendix 3.14**. The 2 locations are active recreational uses closest to the work site with highest predicted pollutant concentrations.

3.11 CONCLUSION

3.11.1 Review of the revised decontamination works of the Supplementary EIA was conducted quantitatively. By limiting the active excavation areas are ranged from 340m^2 to 1,200m^2 in different zone groups as **Table 3-18**, there will not be any adverse residual air quality impact, and the human health risks will be acceptable from to the Project with implementation of mitigation measures.

4 REVIEW OF NOISE IMPACT ASSESSMENT

4.1 INTRODUCTION

4.1.1 This section presents the review of construction noise impact assessment on existing representative noise sensitive receivers (NSRs) by the Project, following the amendment in proposed construction programme and worksites. Recommendations for proper mitigation measures have been made, where necessary, to minimize the potential construction noise impacts.

4.2 ENVIRONMENTAL LEGISLATION, STANDARDS AND GUIDELINES

Construction Phase

4.2.1 Legislation, Standards, Guidelines and Criteria relevant to the consideration of construction noise impact under this Study include the following:

- Noise Control Ordinance (NCO)
- Technical Memoranda (TM) on Noise from Construction Work other than Percussive Piling (TM-GW)
- TM on Noise on Construction Work in Designated Areas (TM-DA);
- ProPECC PN 2/93 Environmental Protection Department Practice Note for Professional Persons: Noise from Construction Activities – Non-statutory Controls

General Construction Activities during Non-Restricted Hours

4.2.2 ProPECC PN 2/93 provides assessment criteria as well as requirements relating to construction noise not currently controlled under the NCO. The Practice Note also provides information on noise abatement measures. Noise impacts arising from general construction activities other than percussive piling during the daytime period (07:00-19:00 hours on any day not being a Sunday or general holiday) would be assessed against the noise standards tabulated in **Table 4-1** below. Practicable direct mitigation measures will be evaluated and exhausted to maximise the protection of NSRs.

Table 4-1 Noise Standards for Daytime Construction Activities

Noise Sensitive Uses	0700 to 1900 hours on any day not being a Sunday or general holiday, Leq (30 min), dB(A)
Dwellings	75
School	70 65 during examination

Source: Practice Note for Professional Persons (ProPECC) PN 2/93 “Noise from Construction Activities – Non-Statutory Controls” issued by EPD in 1993.

Note: The above noise standards apply to uses, which rely on opened windows for ventilation. The above standards shall be viewed as the maximum permissible noise levels assessed at 1 m from the external facade

General Construction Activities during Restricted Hours

4.2.3 The NCO also provides statutory control on general construction works during restricted hours (i.e. 1900 to 0700 hours (of the next day) from Monday to Saturday and at any time on Sundays or public holidays). The use of PME for construction works during restricted hours would require a CNP. The TM-GW details the procedures adopted by EPD for assessing such application. The granting of a CNP is subject to conditions stated in the CNP and it may be revoked at any time for failure to comply with the permit conditions.

4.2.4 In addition to the general controls on the use of PME during restricted hours, the use of Specified Powered Mechanical Equipment (SPME) and the undertaking of Prescribed Construction Work (PCW) during the restricted hours in a designated area are controlled by the TM-DA. Construction plant or equipment classified as SPME under the TM-DA includes hand-held breakers, bulldozers, concrete lorry mixers, dump trucks and vibratory pokers. The PCW includes the erection or dismantling of formwork or scaffolding, hammering, loading, unloading or handling of rubble, wooden boards, steel bars, wood or scaffolding material, and the disposal of rubble through plastic chutes.

4.2.5 The TM-DA details the procedures that should generally be adopted by the Noise Control Authority for assessing the use of SPME during restricted hours and for determining whether a CNP would be issued.

4.2.6 It is noted that according to the construction programme, the proposed decontamination works will only be carried out during non-restricted hours. The Contractor shall be responsible for ensuring the compliance of NCO and relevant TMs in case of any activities conducted during the restricted hours. The Contractor will be required to submit CNP application to the Noise Control Authority and abide by any conditions stated in the CNP, should one be issued.

4.3 REPRESENTATIVE NOISE SENSITIVE RECEIVERS

4.3.1 There is no change to the representative noise sensitive receivers (NSRs) adopted in the approved Supplementary EIA Report except that the two NSRs for the developments within Kennedy Town CDA site are excluded as the two NSRs will only be active after the completion of the Project.

4.3.2 The representative NSRs identified for construction noise impact assessment are summarized in **Table 4-2** below. The location of the representative NSRs is illustrated in **Figure 4.1**.

Table 4-2 Representative Noise Sensitive Receivers Identified for the Assessment

NSR ID	Description	Reference under EIA Register No. AEIAR-188/2015	Status [2]	Use
CN_01	The Merton (Block 2)	KT-N2	E	Residential
CN_02	Cheong Kat Mansion	KT-N1	E	Residential
CN_03	No. 37A Cadogan Street	KT-N9	E	Residential
CN_04	Centenary Mansion	KT-N3	E	Residential
CN_05	Cayman Rise	KT-N4	E	Residential
CN_06	Kennedy Town Jockey Club Clinic	KT-N6	E	Medical Clinic

NSR ID	Description	Reference under EIA Register No. AEIAR-188/2015	Status [2]	Use
CN_07	Bayanihan Kennedy Town Centre	KT-N5	E	Training School
CN_08	No. 60 Victoria Road	KT-N8	E	Residential
CN_09	SKH Lui Ming Choi Memorial Primary School	KT-N7	E	School

Note:

[1] The above noise standards apply to uses, which rely on opened windows for ventilation. The above standards shall be viewed as the maximum permissible noise levels assessed at 1 m from the external façade

[2] E – Existing

4.4 IDENTIFICATION OF NOISE SOURCES

4.4.1 The potential source of noise impact during the carrying out of the Project would be the use of PME for various activities, including excavation and decontamination processes, removal of spoil and backfilling in the Project site. PME likely to be used include breaker, excavator, lorry, air compressor, and generator etc.

4.4.2 Under normal conditions, activities for the Project would be carried out during non-restricted hours (0700 – 1900 hours) on normal working dates. In the case of any activities that have to be carried out during restricted hours, it is the Contractor's responsibility to ensure compliance with the NCO as well as the relevant TMs. The Contractor will be required to submit an application for the CNP and abide by the conditions set out by the Noise Control Authority. For carrying out of any general activities involving the use of any PME within restricted hours, a Construction Noise Permit (CNP) is required from the Authority under the NCO. The noise criteria and the assessment procedures for issuing a CNP are specified in GW-TM under the NCO.

4.5 EVALUATION OF NOISE IMPACT

4.5.1 The main variation of the Project is no work at CSTG only, the work type, programme and plant inventory for the remaining area are the same as the Supplementary EIA. Therefore, the construction impact of the current change of Project is considered as not worse than the Supplementary EIA. The assessment results of Supplementary EIA are still valid which the construction noise level at all representative NSRs would comply with the noise standards as stipulated in the EIAO-TM with implementation of noise mitigation measures except one NSR of educational use, KT-N7 SKH Lui Ming Choi Memorial Primary School. Noisy activities are recommended to be avoided during examination periods of the educational NSR as far as practicable.

5 REVIEW OF WATER QUALITY IMPACT ASSESSMENT

5.1 REVIEW OF ENVIRONMENTAL LEGISLATION

5.1.1 All water quality related legislation and standards stated in the approved EIA Report remain applicable and listed as below:

- Water Pollution Control Ordinance (WPCO) (Chapter 358);
- Technical Memorandum on Standards for Effluents Discharged into Drainage and Sewerage Systems, Inland and Coastal Waters (Technical Memorandum on Effluent Standards) (TM-DSS);
- Hong Kong Planning Standards and Guidelines (HKPSG);
- Professional Persons Environmental Consultative Committee Practice Note (ProPECC) PN 1/94 and ProPECC PN5/93; and
- Annexes 6 and 14 of EIAO-TM.

5.2 REVIEW OF EXISTING WATER QUALITY

5.2.1 The WPCO provides the major statutory framework for the protection and control of water quality in Hong Kong. According to the Ordinance and its subsidiary legislations, Hong Kong waters are divided into ten Water Control Zones (WCZs). Corresponding statements of Water Quality Objectives (WQOs) are stipulated for different water regimes (marine waters, inland waters, bathing beaches subzones, secondary contact recreation subzones and fish culture subzones) in each WCZ based on their beneficial uses. The Project is located within the Victoria Harbour (Phase Three) WCZ and its corresponding WQOs are shown as below:

Parameters	**Objectives**	**Sub-Zone**
Offensive Odour, Tints	Not to be present	Whole zone
Visible foam, oil scum, litter	Not to be present	Whole zone
E. coli	Not exceed 1000 per 100 mL, calculated as the geometric mean of the most recent 5 consecutive samples taken at intervals of between 7 and 21 days.	Inland waters
Colour	Change due to human activity not to exceed 50 Hazen Units	Inland waters

Parameters	Objectives	Sub-Zone
Depth-averaged Dissolved Oxygen (DO)	Not less than 4 mg L^{-1} for 90% of the sampling occasions during the whole year; values should be calculated as the annual water column average (expressed normally as the arithmetic mean of at least 3 measurements at 1m below surface, mid depth and 1m above the seabed. However, in water of a depth of 5m of less the mean shall be that of 2 measurements – 1m below surface and 1m above seabed, and in water of less than 3m the 1m below surface sample only shall apply.)	Marine waters
	Not less than 4 mg L^{-1}	Inland waters
DO within 2 m of the seabed	Not be less than 2 mg L^{-1} within 2 m of the seabed for 90% of the sampling occasions during the whole year.	Marine waters
pH	To be in the range of 6.5 - 8.5, change due to human activity not to exceed 0.2	Marine waters
	To be within the range of 6.0 - 9.0	Inland waters
Salinity	Change due to human activity not to exceed 10% of ambient level	Whole zone
Temperature	Change due to human activity not to exceed 2 ^{o}C.	Whole zone
Suspended Solids (SS)	Not to be raised by more than 30% nor give rise to accumulation of suspended solids which may adversely affect aquatic communities.	Marine waters
	Annual median of suspended solids not to exceed 25 mg L^{-1} due to human activity	Inland waters
Unionised Ammonia (UIA)	Not to exceed 0.021 mg L^{-1}, calculated as the annual average (arithmetic mean).	Whole zone
Nutrients	Not present in quantities sufficient to cause excessive algal growth	Marine waters
	Annual mean depth-averaged inorganic nitrogen not to exceed 0.4 mg L^{-1}	Marine waters
5-day Biochemical Oxygen Demand (BOD)	Not to exceed 5 mg L^{-1}	Inland waters
Chemical Oxygen Demand (COD)	Not to exceed 30 mg L^{-1}	Inland waters
Toxic substances	Not to attain such levels as to produce significant toxic, carcinogenic, mutagenic or teratogenic effects in humans, fish or any other aquatic organisms.	Whole zone

5.2.2 According to the Marine Water Quality in Hong Kong in 2019, the overall WQO compliance rate of Victoria Harbour WCZ increased from 77% in 2012 to 97% in 2019. The compliance rate of DO at all open water stations in the WCZ achieved 100% compliance rate and 90% of the of the monitoring stations in the WCZ also met the Total Inorganic Nitrogen (TIN) WQO. In general, the marine water quality in Victoria Harbour WCZ has been improved when comparing with that at the time of previous EIA study. The marine water quality monitoring data routinely collected by EPD in 2019 at relevant monitoring stations can be referred to **Appendix 5.1**.

5.3 REVIEW OF WATER QUALITY SENSITIVIE RECEIVERS

5.3.1 As there are no changes to the representative water sensitive receivers (WSRs) since the approval of the EIA Report, all WSRs as stated in the EIA Report and below remain representative for the assessment:

Water Sensitive Receivers	**Descriptions**
WSD flushing water intakes	
WSD2	Kennedy Town Flushing Water Intake
P1	Planned Reprovision Kennedy Town Flushing Water Intake

5.4 REVIEW OF CONSTRUCTION PHASE IMPACT

5.4.1 As the extent and volumes of contaminated soil requiring excavation and decontamination under the amendment is less than the that estimated in the previous EIA Study, no potential water quality impact arising from the amendment of proposed land use would be anticipated.

5.4.2 In view of the above, the environmental performance requirements set out in the approved EIA Report would not be violated. The findings of water quality impact in the approved EIA Report for construction phase of the Project are still valid. Therefore, no additional mitigation measures are required to be carried out for works in the Project Site.

6 REVIEW OF LAND CONTAMINATION

6.1 REVIEW OF ENVIRONMENTAL LEGISTATION

6.1.1 As there are no changes to the existing land contamination related legislation, standards or criteria since the approval of the EIA Report, all the related legislation, standards or criteria stated in the EIA Report are applicable and listed as below:

- Annex 19 “Guidelines for Assessment of Impact on Sites of Cultural Heritage and Other Impacts” of the Technical Memorandum on Environmental Impact Assessment Process (EIAO-TM);
- Practice Guide for Investigation and Remediation of Contaminated Land, August 2011, EPD, HKSAR (Practice Guide);
- Guidance Note for Contaminated Land Assessment and Remediation, August 2007, EPD, HKSAR (Guidance Note); and
- Guidance Manual for Use of Risk-Based Remediation Goals for Contaminated Land Management, December 2007, EPD, HKSAR (Guidance Manual).

6.2 REVIEW OF ASSESSMENT CRITERIA

6.2.1 The environmental legislation, standards and guidelines relevant to this land contamination review are the same as those presented under Section 7 of the approved EIA Report.

6.2.2 RBRGs adopted for the contamination assessment and calculation of decontamination volumes the Supplementary EIA Report approved in 2015 were based on land use designation at the time.

6.3 REVIEW OF HISTORICAL LAND USES

6.3.1 A site walkover was conducted on 4 June 2020 for the Project Site. The former New World First Bus Depot and former MTRCL site are currently vacated. HyD maintenance depot, CSTG, refuse collection point and temporary public car park are under operation. Majority of area of the Project Site is covered by the concrete slabs, which remain to be intact. Since a number of areas in the Project Site are still in operation, a site re-appraisal at the Site would be conducted prior to the decontamination works at the Site to address any change of land use. Based on historical site review, current site activities and using a risk-based approach, no new site activities that pose potential contamination were introduced to the Project Site since the approval of the Supplementary EIA Report. Operation activities leading to potential contamination at the Site are not anticipated.

6.3.2 With adjunction to the above basis, it is considered that the endorsed CAP and previous site investigation results remain valid and adequate for further assessment on the contaminated land management. According to **Section 6.5**, No new site activities were introduced since

the approval of the Supplementary EIA Report in 2015. Hence, additional site investigation is not required.

6.4 REVIEW OF LAND USE PROPOSAL

6.4.1 The CSTG area is retained as "Open Space" under the latest OZP and there are no development and redevelopment proposed in the CSTG area. Decontamination works are thus not required to maintain the current use of CSTG as an open space. Therefore, decontamination works within CSTG is no longer part of the project scope. Therefore, amendment of the Site boundary is proposed to carve out the GSTG from the Designated Project under the EP. After such amendment, the site is about 2.6 hectares.

6.4.2 For other areas of the Project Site, design of the proposed development is still under review and uncertain. Hence, it is assumed there are no changes for the proposed development for other areas of the Project Site as stated in the Supplementary EIA Report. Referring to the Supplementary EIA Report, decontamination is assumed to be carried out to the whole depth in each grid in this estimation. Before implementation of future remediation and development, the Project Site after the proposed amendment, i.e. with CSTG carved out, will be further reviewed.

6.5 LAND CONTAMINATION REVIEW

Project Setting

6.5.1 The amended Project Site is currently consisted of the vacant land (former KTIP, former KTA, the former New World First Bus Depot and former MTRCL site), a HyD maintenance depot, a refuse collection point, a temporary public car park and Sai See Street. There has been no change in land use at the refuse collection point, the public car park and Sai See Street since 2000. A layout plan of the Project Site is shown in **Figure 1.1**.

6.5.2 In July 2009, part of the site was temporarily leased to MTR Corporation Limited (MTRCL) for the provision of West Island Line (WIL) site office and construction materials storage; and another part of the site was allocated to Highways Department (HyD) as a maintenance depot. Under the requirements of the EP, a temporary concrete ground slab and a layer of compacted fill were applied above the original ground slab of the former-KTIP and KTA areas, to further minimise any contaminants and potential sources of exposure pathway.

6.5.3 MTRCL subsequently handed back the leased areas to the HKSAR Government (with the temporary concrete slab and additional compacted fill removed) in January 2016.

6.5.4 The past, current and future on-site land uses within the amended Project Site boundary are summarised as below:

Area (Current land use)	**Approximate size (m^2)**	**Previous Site Activities**	**Site Activities change since 2013 Supplementary EIA study (approved in 2015)**	**Future land use assumed in the Supplementary EIA Report**
[A1] Vacant land	17,200	Leased to MTRCL for the provision of WIL site office and construction materials storage in Jul 2009. The	Yes.	Northern part: public park/industrial

Area (Current land use)	Approximate size (m^2)	Previous Site Activities	Site Activities change since 2013 Supplementary EIA study (approved in 2015)	Future land use assumed in the Supplementary EIA Report
		leased areas were handed back to the HKSAR Government in January 2016. The land was vacant since 2016.	Jul 2009 – Jan 2016: MTRCL construction site Jan 2016 – Present: Vacant	Southern part: residential
[A2] HyD Depot	2,300	Temporary HyD maintenance depot for storage of construction materials since May 2009	No change	Northern part: public parks/industrial Southern part: residential
[A3] Vacant land	2,150	Previous NWFB Depot operated from Sep 1998 to Jun 2017 The land was vacant since Jun 2017.	Yes Sep 1998 - Jun 2017: NWFB Depot Jun 2017 – Present: Vacant	Residential
[A4] Sai See Street	1,130	Sai See Street	Since 1997 - Sai See Street. No change since Supplementary EIA	Residential
[A5] Car park	2,610	Temporary public car park since Sep 1994	No change	Residential
[A6] Refuse collection point	500	Refuse collection point since Oct 1999	No change	Residential

Aerial Photo Records

6.5.5 A review of historical aerial photographs from Lands Department, photographic images, and literature review have been conducted. Historical aerial photographs are included in **Appendix 6.1** and summarised as below:

Year	Photo Ref.	Height (ft.)	Observation
1968	1968-0636	2000	Project Site occupied by Kennedy Town Abattoir and Kennedy Town Incineration Plant.
1973	07054	3000	Project Site occupied by Kennedy Town Abattoir, Kennedy Town Incineration Plant, and

Year	Photo Ref.	Height (ft.)	Observation
			wholesale market. Area south of the abattoir used as a car park/depot. Land south of the incineration plant is occupied by a structure and parking area.
1984	53260	2000	Project Site occupied by Kennedy Town Abattoir, Kennedy Town Incineration Plant.
1999	A49409	2000	Project Site occupied by Kennedy Town Abattoir, and Kennedy Town Incineration Plant.
2008	CS13517	6000	Kennedy Town Abattoir has been partially demolished.
2009	CS23348	6000	Demolition and removal of Kennedy Town Incineration Plant and associated buildings and structures and Kennedy Town Abattoir are in the midst. Reinforced concrete chimneys have been removed.
2010	CS28775	6000	Kennedy Town Incineration Plant and Abattoir and their associated buildings and structures have been removed. Area of ex-Kennedy Town Incineration Plant and Abattoir is occupied by depot.
2015	CW117262	2000	Part of the depot in area of ex-Kennedy Town Incineration Plant and Abattoir has been removed. No significant change is observed in other area of the Project Site.
2017	E011522C	6000	Depot in the west-southern part of the Project Site has been removed. No significant change is observed in other area of the Project Site.
2019	E056386C	8000	No significant change is observed.

6.5.6 According to the aerial photographs, the Project Site was formed by reclamation on the whole in 1946 – 1967 according to the map of Reclamation and Development in Hong Kong published by Lands Department. The KTIP and KTA were demolished in 2008. The western part of the area of ex-KTIP and ex-KTA was occupied by HyD's Maintenance Depot since 2009, and the eastern part of such area was occupied by MTRCL site since 2010. The MTRCL site has been vacated in 2015. From more recent aerial photographs, no observable change was observed in the HyD Maintenance Depot, car park and refuse collection point since 2010. Operation of MTRCL's works area is observed in 2010 aerial photograph and the site was cleared in 2015 aerial photograph. The NWFB Depot was cleared and remained vacant since 2017. Sai See Street has no change since the Supplementary EIA study.

Other Relevant Information

6.5.7 Various HKSAR Government Departments listed below have been enquired on the historical land use, chemical storage, and accident records for further identify potential land contamination of the land.

Environmental Protection Department (EPD)

6.5.8 A letter was issued to EPD in attempt to obtain historical records of chemical storage and/or accidental records. EPD's reply letter dated 29 May 2020 advised that no chemical spillage and/or leakage accident occurred within the Project Site. Records of Registered Chemical

Waste Producer (CWP) within the Project Site are reviewed on 27 May 2020. Three invalid CWP record is identified within the Project Site, including construction (Sun Fook Kong Construction Limited) in the KTA area, Solid Domestic Waste Transfer at Sai Ning Street (Swire SITA Waste Services Limited) and Civil Engineers at MTRCL works area (Gammon-Nishimatsu WIL Joint Venture Project Office). No potential land contamination issue associated with other land uses is identified from the CWPs records. The letter of reply and list of CWP records are presented in **Appendix 6.2**.

Fire Services Department (FSD)

6.5.9 To identify the registration records of Dangerous Goods (DG) and the historical records of dangerous goods spillage / leakage, letter was sent to FSD on 15 May 2020. According to reply letter from FSD dated 6 January 2021, no record of incident of spillage / leakage of dangerous goods was found at the Project Site. There is only one record of dangerous good approval has been granted at the Project Site, which is a cancelled DG license of Dangerous Goods Store for diesel with volume of 45,460 L. According to the Review Report submitted in June 2018 (Alternative Ground Decontamination Works at the Proposed Kennedy Town Comprehensive Development Area Site – Review Report for New World First Bus Depot. June 2018, by Mott Macdonald), such DG license is an aboveground diesel tank at the NWFB Bus Depot with volume of 45,460 L. It is concluded in the Review Report that there is no new potential source of contamination based on the SI carried out in 2013. No additional contamination issue is identified from the FSD's information. The letter is presented in **Appendix 6.2**.

Lands Department (LandsD)

6.5.10 To further understand the current and past land uses of the Site detailed with duration and reported land contamination issues, information request letter was sent to LandsD on 15 May 2020. Reply from LandsD on 16 November 2020 provided the historical land uses of the Project Site from 1997 to 2019. The KTIP and KTA occupied northern part of the Project Site from 1997 to 2008. The ex-KTIP and ex-KTA area was then used as WIL works area from 2010 to 2015 and vacant since 2016. A workshop occupied the south-western area of the Project Site (i.e. the NWFB Depot site) from 1997 and removed in 2016. Carpark and refuse collection point occupied southern part of the Project Site since 2001. The letter is presented in **Appendix 6.2**.

Highways Department (HyD)

6.5.11 To further understand the land uses of the HyD's maintenance depot during operation and the handover arrangement, information request letter was sent to HyD on 12 Novembver 2020. Reply from HyD on 17 December 2020 stated that no chemicals or dangerous goods was stored at the maintenance depot. No record of chemicals and dangerous goods spillage/leakage was found at the maintenance depot as well. The letter is presented in **Appendix 6.2**.

6.5.12 Based on historical land use and relevant record, there is no evidence indicating potential sources of contamination since the approval of Supplementary EIA Report in 2015.

Site Appraisal

6.5.13 A site walkover was conducted on 4 June 2020 for the Project Site. The former New World First Bus Depot and former MTRCL site are currently vacated. HyD maintenance depot, refuse collection point and temporary public car park are under operation. Majority of area of

the Project Site is covered by the concrete slabs, which remain to be intact. Since a number of areas in the Project Site are still in operation, a site re-appraisal at the Site would be conducted prior to the decontamination works at the Site to address any change of land use.

6.5.14 Checklist and photographs of the site walkover are shown in **Appendix 6.3**.

6.5.15 Outcomes of our site appraisal are as follows:

- There is no sign of potential contamination;
- There is no abnormal odour;
- The surface is stain-free and not deteriorating though it appeared to be made or built long time ago (**Photos 3 - 25, Appendix 6.3**).
- There is no potential sources of contamination such as abandoned pipes, underground / aboveground storage tanks, pipe works and improper management of drum storages indicating potential sources of contamination.

6.5.16 Based on historical site review, current site activities and using a risk-based approach, no new site activities that pose potential contamination were introduced to the Project Site since the approval of the Supplementary EIA Report.

Review of Land Use Since Pervious Site Investigation

Previous New World First Bus (NWFB) Depot

6.5.17 In addition to the SI carried out in 2000 and 2003 in the Project Site, 4 additional boreholes were carried out in 2013 at the former NWFB Depot. Findings of the boreholes were incorporated into the Supplementary EIA Report.

6.5.18 The Depot was demolished in mid-2016. A Review Report was also then submitted in June 2018 (Alternative Ground Decontamination Works at the Proposed Kennedy Town Comprehensive Development Area Site – Review Report for New World First Bus Depot. June 2018, by Mott Macdonald.). It is concluded in the Review Report that there is no new potential source of contamination based on the SI carried out in 2013.

6.5.19 Based on the historical information review and site walkover, the former NWFB Depot has been vacated since mid-2016 and no new site activity that pose potential contamination to the former NWFB Depot is identified. The existing concrete slab within the former NWFB Depot is found to be intact, which indicates that the soil underneath the concrete slab has not been disturbed.

HyD Maintenance Depot

6.5.20 Based on the historical information review and site walkover, the HyD Maintenance Depot is used for storage of construction materials. There is no change of land use in the HyD Maintenance Depot since the Supplementary EIA Report was approved in 2015. No new site activity that pose potential contamination to the HyD Maintenance Depot is identified. According to information provided by HyD, a 200mm thick additional concrete paving was provided onsite to satisfy the conditions of the environmental permit. The existing concrete slab within the HyD Maintenance Depot is found to be intact, which indicates that the soil underneath the concrete slab has not been disturbed. Upon handover of the maintenance depot, HyD is required to remove all temporary works constructed onsite. According to information provided from HyD (**Appendix 6.2**), no chemicals or dangerous goods was stored and no spillage incident at the HyD Maintenance Depot.

Former MTRCL Site

6.5.21 Under Condition 3.1.2(b) of EP-313/2008/K for West Island Line, an additional concrete paving of not less than 200mm thick shall be provided on top of the existing concrete paving during the course of temporary use of the site by MTRCL between 2009 and 2016. In addition, a layer of general fill material shall also be introduced between the additional concrete paving and the existing concrete paving. The purpose of the additional concrete paving and the layer of general fill material is to ensure that the soil underneath would not be disturbed or exposed due to the temporary use of the allocated site.

6.5.22 In accordance with Condition 3.3.2(a) of EP-313/2008/K, a sampling and testing plan shall be submitted to EPD for approval before removal of the additional concrete paving and the layer of general fill material. The Sampling and Testing Proposal submitted by MTRCL was approved by EPD on 14 October 2014. MTRCL has proposed 19 sampling boreholes and adopted RBRGs standard of Rural Residential for analysis.

6.5.23 In accordance with Condition 3.3.2(b) of EP-313/2008/K, a RAP shall be submitted in the event that contamination is found in the sampled general fill material. It is understood that no RAP was submitted by MTRCL to EPD based on Condition 3.3.2(b) of EP-313/2008/K since contamination was not found in the sampled general fill material. The allocated site was subsequently handed over back to the Government (with the temporary concrete slab and additional compacted fill removed) in January 2016. The Sampling and Testing Report submitted under EP-313/2008 can be referred to **Appendix 6.4.** According to documents submitted under Condition 3.3 of EP-313/2008, SI proposed in the Sampling and Testing Proposal has been conducted. No exceedance of RBRGs has been identified in the collected samples and no presence of non-aqueous phase liquid (NAPL) has been noticed onsite during the SI. Hence, it is considered no land contamination issue associated with the operation of MTRCL site is anticipated in such area.

6.5.24 Based on the historical information review and site walkover, the former MTRCL site has been vacated since January 2016 and no new site activity that pose potential contamination to the former MTRCL site is identified. The existing concrete slab within the former MTRCL site is found to be intact, which indicates that the soil underneath the concrete slab has not been disturbed.

Car park, refuse collection point and Sai See Street

6.5.25 Based on the historical information review and site walkover, there is no change of land use in the other areas of the Project Site since the Supplementary EIA Report was approved in 2015. No new site activity that pose potential contamination to the other areas of the Project Site is identified. The existing concrete slab within the other areas is found to be intact, which indicates that the soil underneath the concrete slab has not been disturbed.

Entire Project Site

6.5.26 No new site activities that pose potential contamination were introduced to the Project Site since the approval of the Supplementary EIA Report. Operation activities leading to potential contamination at the Site are not anticipated.

Summary of Land Contamination Review

6.5.27 No new site activities were introduced since the approval of the Supplementary EIA Report in 2015. Hence, it is considered the environmental performance requirements set out in the approved EIA reports for the Project would not be worsen by the proposed amendment of Project Site boundary.

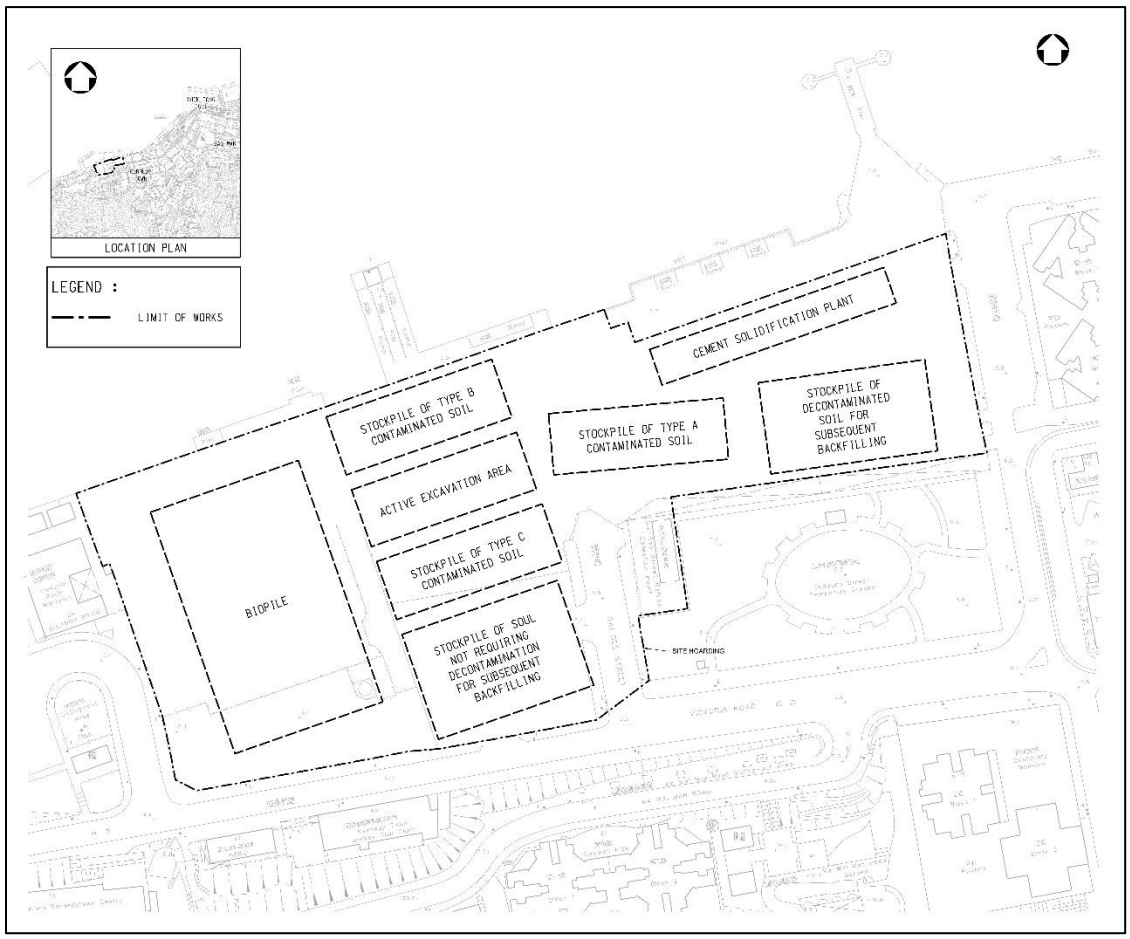
6.6 REVIEW OF REMEDIATION WORKS

6.6.1 The extent and volumes of contaminated soil requiring excavation and decontamination under the amendment is less than the estimated in the previous EIA study. No change is proposed for the remediation methods for the contaminated soil (i.e. cement solidification/stabilisation for heavy metal contaminated soil and biopiling for hydrocarbon contaminated soil).

6.6.2 The remediation methods for the contaminated soil recommended in the Supplementary EIA Report (i.e. cement solidification/stabilisation for heavy metal contaminated soil and biopiling for hydrocarbon contaminated soil) are considered still applicable. As no decontamination is proposed in CSTG, the estimated volume of soil for decontamination in Zone 4, Zone 5A and Zone 5B within CSTG would be excluded from the estimation. The updated estimation of volume of soil for remediation after carving out CSTG can be referred to **Section 2.2**. The environmental performance requirements set out in the approved EIA Reports would not be violated. The findings of land contamination assessment in the approved EIA Reports of the Project are still valid. Therefore, no additional mitigation measures are required to be carried out for works in the Project Site.

6.6.3 A schematic layout of a typical arrangement for all the works including excavation, cement solidification plant, biopile and stockpiling areas for different types of soil is shown in Graphic 6.1.

Graphic 6.1: Schematic Diagram of Typical Site Layout



7 REVIEW OF WASTE MANAGEMENT IMPLICATIONS

7.1 REVIEW OF WASTE MANAGEMENT LEGISLATION AND GUIDELINES

7.1.1 Since the approval of the EIA Reports, the following waste management guideline have been added:

- CEDD TC No. 11/2019 – Management of Construction and Demolition Materials; Review of Assessment Approach and Methodology
- Project Administration Handbook for Civil Engineering Works, 2020 Edition

7.1.2 There are no changes to the existing land contamination related legislation, standards or criteria since the approval of the EIA Report, all the related legislation, standards or criteria stated in the EIA Report are applicable and listed as below:

- Waste Disposal Ordinance (Cap. 354)
- Waste Disposal (Chemical Waste) (General) Regulation (Cap. 354)
- Waste Disposal (Charges for Disposal of Construction Waste) Regulation (Cap. 354)
- Public Health and Municipal Services Ordinance (Cap. 132) – Public Cleansing and Prevention of Nuisances Regulation
- Land (Miscellaneous Provisions) Ordinance (Cap. 28)
- Dumping at Sea Ordinance (Cap. 466)
- The criteria and guidelines for assessing waste management implications outlined in Annex 7 and Annex 15 of the Technical Memorandum on Environmental Impact Assessment Process (EIAO-TM), respectively.

7.2 REVIEW OF CONSTRUCTION PHASE WASTE IMPACTS

7.2.1 No additional works are expected for the amendments. C&D waste will be generated from site clearance, such as removal of the existing fencing and breaking the concrete slab, trees and vegetation removal, steel reinforcement and papers and plastics.

7.2.2 As the extent and volumes of contaminated soil requiring excavation and decontamination under the amendment is much less than that estimated in the previous EIA study, the estimated quantities of waste arising from construction phase has been updated based on the updated estimated soil remediation volume as stated in **Section 2.2**.

INERT C&D MATERIAL

7.2.3 According to Figure 3.2 and Appendix J of Appendix 7.2 of the Supplementary EIA report, excavation and removal of concrete slab in all grids within CSTG area, excepts grid 31, were proposed for the remediation works. The area of decontamination zones within CSTG area and grid 31 are listed as below:

	Area (m^2)
Zone 4	2,800
Zone 5A	1,500
Zone 5B	1,900
Grid 31	930
Zone 4 + Zone 5A + Zone 5B - Grid 31	2,470

According to Section 3.3.2 of Appendix 7.2 of the Supplementary EIA report, the concrete slab was assumed to be 0.3m on average. Hence, for the remediation works proposed in the Supplementary EIA, the total volume of concrete slab to be removed within CSTG area is 2,470m^2 x 0.3m = 741m^3. After the proposed amendment of Project Site boundary, the estimated amount of artificial hard materials produced is expected to decrease from 18,367m^3 in previous EIA study by 741m^3 to 17,626m^3, which would be delivered to Public Fill Reception Facilities for beneficial reuse in other projects.

7.2.4 According to **Section 2.2**, the estimated excavated soil volume decreases from 178,145 m^3 to 151,806 m^3, consists of 92,335 m^3 soil requiring remediation, 7,526 m^3 concrete slab[5] to be handled as artificial hard materials and 51,945 m^3 clean soil to be re-used on site. All contaminated soil will be reused for backfill after treatment.

NON-INERT C&D MATERIAL

7.2.5 The estimated amount of non-inert C&D material is expected to decrease from 196 trees to 21 trees. There will be no change for the total amount of other non-inert C&D material generated during the site clearance works (i.e. 58 m^3).

CHEMICAL WASTE

7.2.6 The estimated amount of chemical waste is not expected to deviate from the EIA Report.

GENERAL REFUSE

7.2.7 The estimated amount of general refuse is not expected to deviate from the EIA Report.

7.2.8 In conclusion, the environmental performance requirements set out in the approved EIA Report would not be violated. The findings of waste management implication assessment in

[5] According to Table 3.3 of Appendix 7.2 of the Supplementary EIA report, the volume of concrete slab requiring demolition within the original Project Site boundary is 8,267 m^3 in total. After the proposed amendment, the total volume of concrete slab requiring removal would be 8,267m^3 – 741m^3 = 7,526m^3.

the EIA Report for construction phase of the Project are still valid. Therefore, no additional mitigation measures are required to be carried out for works in the Project Site.

7.3 REVIEW OF CONSTRUCTION PHASE WASTE IMPACTS

7.3.1 The waste implications in the construction phase remains the same as those stated in the EIA Report. This includes the mitigation measures against adverse environmental impacts, evaluation of residual impacts and Environmental Monitoring and Audit (EM&A) requirements.

7.3.2 The environmental performance requirements set out in the approved EIA Report would not be violated. The findings of waste management implication assessment in the EIA Report for construction phase of the Project are still valid. Therefore, no additional mitigation measure is required to be carried out for works in the Project Site.

8 REVIEW OF LANDSCAPE IMPACTS

8.1 REVIEW OF EXISTING LANDSCAPE CONDITIONS

8.1.1 There are no major changes to the existing landscape conditions. Nos. of trees within the site area have been slightly changed but the trees with particular interest are still retained on site. No OVT was discovered on site. The tree survey result is shown in **Appendix 8.1**.

8.2 REVIEW OF SOURCES OF IMPACTS

8.2.1 Sources of Impacts remain unchanged in this project, which are:

- excavation, lateral support works, backfilling and site formation works;
- biopiling; and
- construction of surface drainage system.

8.3 REVIEW OF LANDSCAPE IMPACT

8.3.1 Due to retention of the CSTG in current project, all trees in CSTG (i.e. approx. 143 nos. of trees) would be retained, which is about 87% of tree in this project could be retained. In other words, landscape impact of this project has been greatly reduced.

8.4 REVIEW OF THE RECOMMENDED MITIGATION MEASURES

8.4.1 Objectives of the mitigation measures remain unchanged:

- Avoid impacts on important landscape resources;
- Lessen unavoidable impacts by location, design and reducing the extent of works; and
- Enhancement of existing landscape resources

8.4.2 In general, as the site coverage has no major changes, the past mitigation measures, provision of landscape planting (CP1) and compensatory tree planting (OP1) are still valid. The anticipated landscape impacts are generally slightly negative.

9 REVIEW OF ECOLOGICAL IMPACT ASSESSMENT

9.1 REVIEW OF ENVIRONMENTAL LEGISLATION

9.1.1 As there are no changes to the existing ecological impact assessment related legislation, standards or criteria since the approval of the EIA Report, all the related legislation, standards or criteria stated in the EIA Report are applicable.

- Environmental Impact Assessment Ordinance (Cap. 499) – Technical Memorandum (EIAO-TM), Annexes 8 and 16. Annex 8 recommends the criteria for evaluating ecological impacts. Annex 16 sets out the general approach and methodology for assessment of ecological impacts arising from a project or proposal, to allow a complete and objective identification, prediction and evaluation of the potential ecological impacts.
- Wild Animals Protection Ordinance (Cap. 170), which protects wild animals listed under the second schedule from being hunted, possession, sale or export, disturbance of their nest or egg without permission by authorized officer.
- Protection of Endangered Species of Animals and Plants Ordinance (Cap. 586), which regulates the import, introduction from the sea, export, re-export, and possession of specimens of a scheduled species, including live, dead, parts or derivatives. The Ordinance applies to all activities involving endangered species which include the parties of traders, tourists and individuals.

9.2 REVIEW OF ASSESSMENT CRITERIA

9.2.1 The environmental legislation, standards and guidelines relevant to this ecological impact assessment review are the same as those presented under Section 8 of the approved EIA Report.

9.3 REVIEW OF ECOLOGICAL BASELINE CONDITION

9.3.1 The Project Site area within the latest site boundary is situated in an urban area with very high level of human disturbance with predominantly paved grounds. The Project site is not situated within any recognized sites of conservation importance or encroaching into any important habitats mentioned in Appendix A of the EIAO-TM Annex 16.

HABITAT AND VEGETATION

9.3.2 Referring to the site history, desktop study and ground truthing, the habitat of the Project Site is still identified as a developed area which is heavily disturbed. New individual trees are found scattered within the Project Site. There is no new registered Old and Valuable Tree (OVT) within the Project Site since the previous EIA conducted in 2012 and 2013.

9.3.3 A survey of existing trees was conducted in December 2020 and March 2021 within the Project Site. A total number of 22 trees of 14 species were identified within the Project Site.

Data recorded is presented in **Appendix 9.1**. The dominant tree species remain to be common ornamental trees of both exotic and native species.

9.3.4 None of the 5 new species found are scheduled under the Protection of Endangered Species of Animals and Plants Ordinance (Cap. 586) nor in the China Plant Red Data Book.

FAUNA

9.3.5 A site reconnaissance survey was conducted in April 2021 within Project Site. No new bird species and no new butterfly species was recorded. Data recorded is presented in **Appendix 9.1**.

HABITAT EVALUATION

9.3.6 The Project area remains to be a wholly artificial habitat, which does not support any significant population of wild fauna or species of conservation importance. The area is therefore evaluated with low ecological value.

9.4 REVIEW OF ECOLOGICAL IMPACT

9.4.1 With the change of land use and no scheduled or listed new plant species found, habitat loss would be limited within the Project Site. No adverse ecological impact is anticipated for the latest Project Site boundary.

9.4.2 Due to the low ecological value of habitat (i.e. developed area) within the Project Site, no new potential adverse ecological impact is identified. Therefore, no additional specific ecological mitigation measures are required.

9.5 REVIEW OF ECOLOGICAL PRECAUTONARY MEASURE

9.5.1 In view of the above, the findings of ecological impact assessment in the approved EIA Report of the Project are still valid. Therefore, no additional precautionary measures are required to be carried out for works in the Project Site.

9.5.2 Due to the revision of site boundary to exclude Cadogan Street Temporary Garden, the precautionary measure recommended regarding Short-nosed Fruit Bats utilising Chinese Fan-palms is no longer required.

9.5.3 Moreover, it is reminded that site inspection should be conducted before site clearance works to confirm no active bird nest is present on trees. If any active bird nest is observed, suitably sized buffer area should be established around the tree to minimise human or machinery disturbance until the nest is abandoned.

10 REVIEW OF FISHERIES IMPACT ASSESSMENT

10.1 REVIEW OF ENVIRONMENTAL LEGISLATION

10.1.1 As there are no changes to the existing fisheries impact assessment related legislation, standards or criteria since the approval of the EIA Report, all the related legislation, standards or criteria stated in the EIA Report are applicable and listed as below:

- Environmental Impact Assessment Ordinance – Technical Memorandum (EIAO-TM), Annexes 9 and 17. Annex 9 recommends the criteria that are to be used for evaluating fisheries impacts. Annex 17 prescribes the general approach and methodology for the assessment of fisheries impacts arising from a project or proposal, to allow a complete and objective identification, prediction and evaluation of the potential impacts.
- Fisheries Protection Ordinance (Cap. 171). This Ordinance provides regulations for the conservation of fish and other aquatic life and regulates fishing practices.
- Marine Fish Culture Ordinance (Cap. 353). This Ordinance regulates and protects marine fish culture and other related activities.
- Water Pollution Control Ordinance (WPCO) (Cap. 358). This Ordinance sets limits to water quality parameters in fish culture zones.

10.2 REVIEW OF ASSESSMENT CRITERIA

10.2.1 The environmental legislation, standards and guidelines relevant to this fisheries impact assessment review are the same as those presented under Section 9 of the approved EIA Report.

10.3 REVIEW OF FISHERIES IMPACT

10.3.1 The proposed works within the Project Site would not cause adverse environmental impacts on fisheries.

10.3.2 No potential adverse fisheries impact is identified resulting from the Project as no marine works or potential adverse deterioration of marine water quality is predicted for the Project.

10.3.3 No adverse fisheries impact associated with the Project during construction phase would be anticipated.

10.3.4 The environmental performance requirements set out in the approved EIA Report would not be violated. The findings of fisheries impact assessment in the approved EIA Report for construction phase of the Project are still valid. Therefore, no additional mitigation measures are required to be carried out for the Project.

11 CONCLUSION

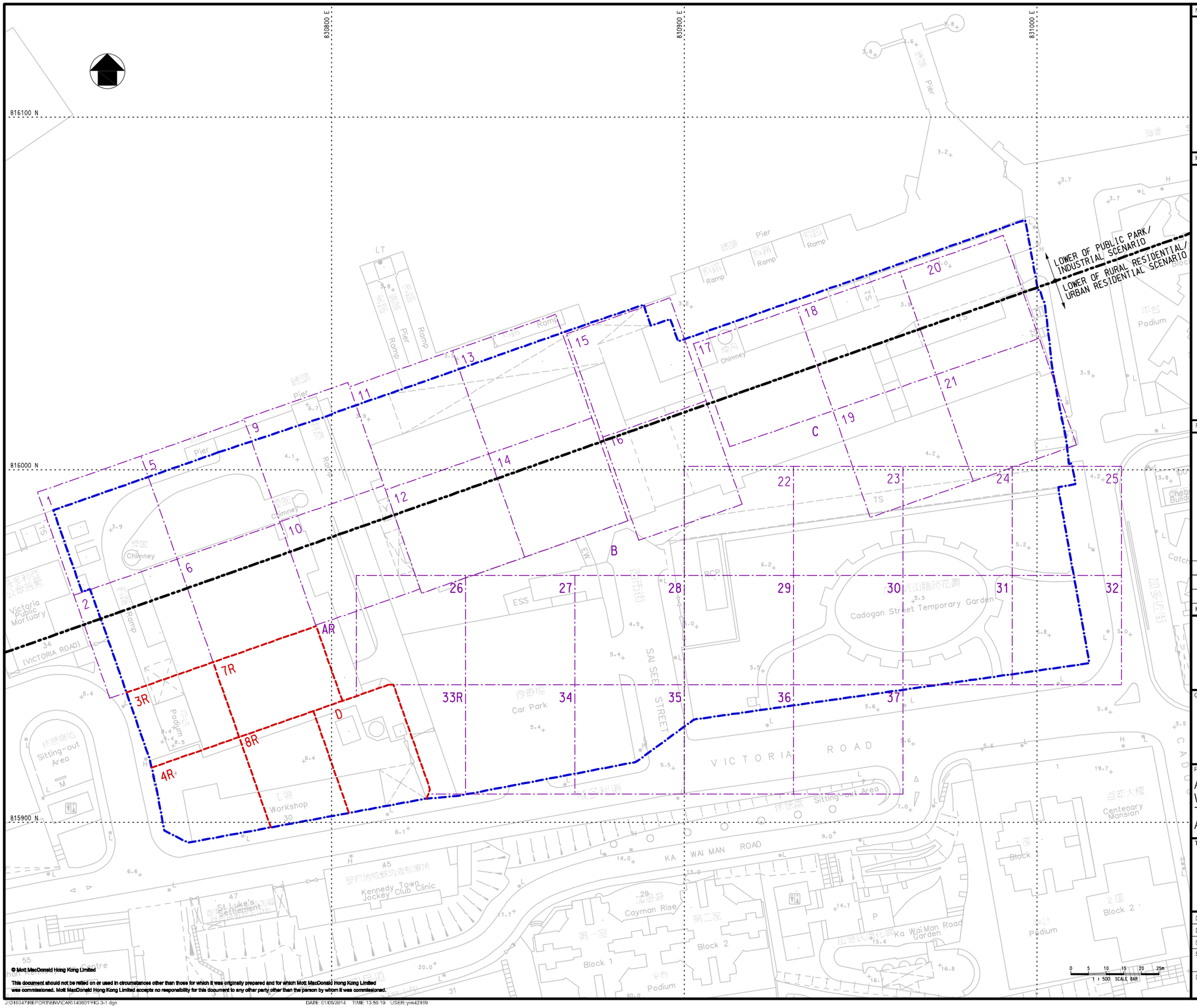
11.1.1 Based on the above review, the environmental performance requirements set out in the approved EIA Report would not be violated, and the scope of works carried under the amendments is minor in nature and the additional works areas would not cause substantial change to the environmental impact of the Project set out in the approved EIA Report.

11.1.2 The findings of the impact assessments under the approved EIA Report for construction phase of the Project are still valid. No additional mitigation measures are required to be carried out except the minor adjustments to the size and location for the landscape and visual mitigation works.

11.1.3 It is concluded that there is no material change to the environmental impact of the Project with the mitigation measures in place; and the Project complies with the requirements described in the EIAO-TM. The requirements as stipulated in Section 13(5)(a) and (b) of the EIAO have been satisfied. The environmental performance requirements set out in the approved EIA report for the project is not exceeded or violated with the mitigation measures in place under the proposed changes.

APPENDIX 2.1

RBRGS ASSUMPTION



Notes

Key to symbols

PROJECT SITE BOUNDARY

SAMPLING GRIDS PROPOSED IN EIA REPORT UNDER EIA REGISTER NO. AEIAR-058/2002

SAMPLING GRIDS PROPOSED IN EIA REPORT UNDER EIA REGISTER NO. AEIAR-188/2015

Reference drawings

Rev	Date	Drawn	Description	Ch'k'd	App'd
P3	AUG 14	MING	GENERAL REVISION	BW	AFK
P2	MAY 13	MING	GENERAL REVISION	BW	AFK
P1	MAR 13	MING	FIRST ISSUE	BW	AFK

Mott MacDonald
20/F Two Landmark East
100 How Ming Street
Kwun Tong, Kowloon
Hong Kong
T +852 2828 5757
F +852 2827 1823
W www.mottmac.com.hk

Client

CEDD

CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

Project

ALTERNATIVE GROUND DECONTAMINATION WORKS AT THE PROPOSED KENNEDY TOWN COMPREHENSIVE DEVELOPMENT AREA SITE

Title

PROPOSED LAND USE DESIGNATION

Designed	BW		Eng check	TK	
Drawn	MING		Coordination	FW	
Dwg check	BW		Approved	AFK	
Scale at A1	1:500	Status	PRE	Rev	P3

Drawing Number

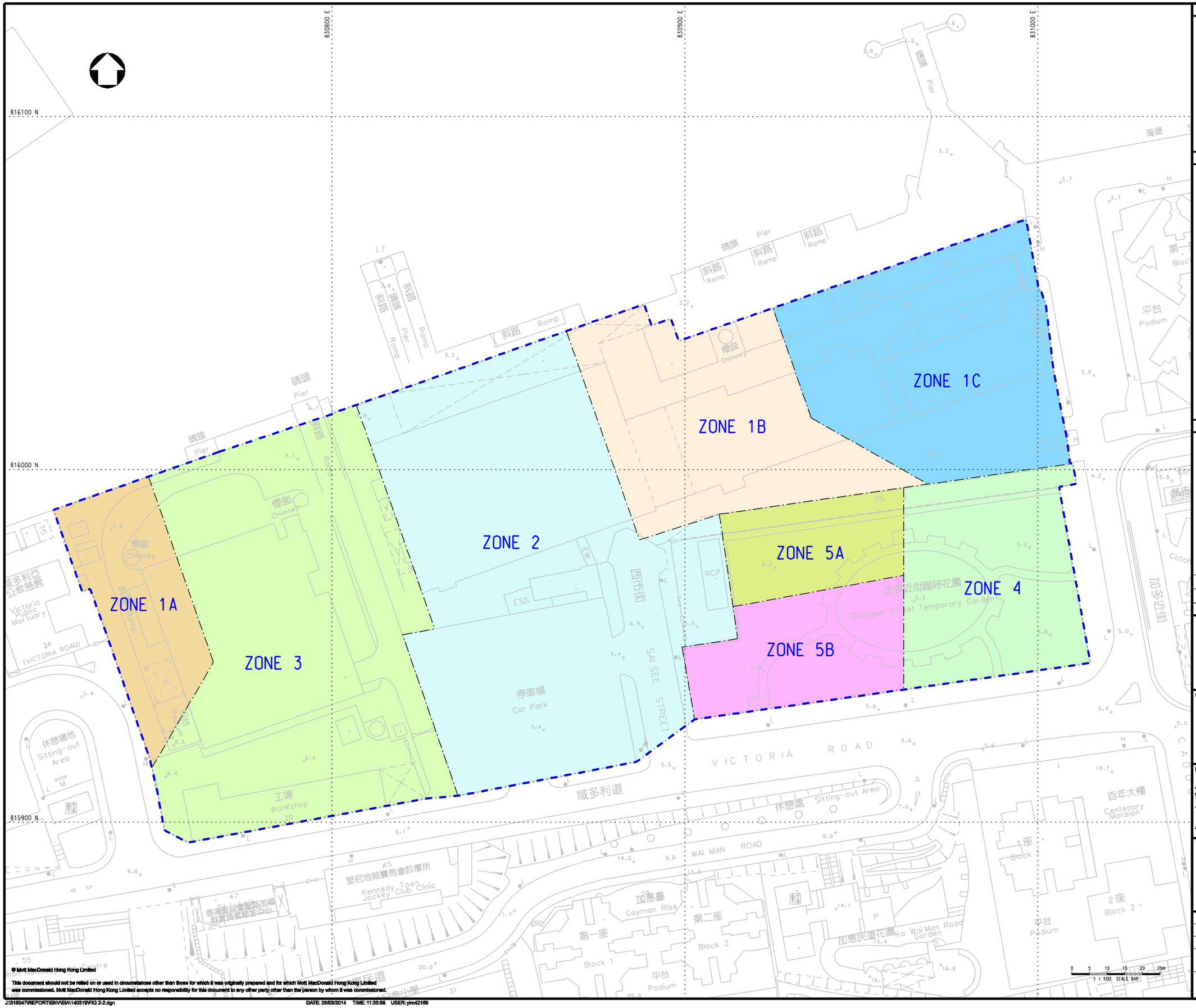
FIGURE 3.1

© Mott MacDonald Hong Kong Limited

This document should not be relied on or used in circumstances other than those for which it was originally prepared and for which Mott MacDonald Hong Kong Limited was commissioned. Mott MacDonald Hong Kong Limited accepts no responsibility for this document to any other party other than the person by whom it was commissioned.

APPENDIX 2.2

ORIGINAL ZONING PLAN IN SUPPLEMENTARY EIA REPORT



Notes

Key to symbols

ORIGINAL PROJECT SITE BOUNDARY IN SUPPLEMENTARY EIA REPORT

Reference drawings

Rev	Date	Drawn	Description	Ch'k'd	App'd
P2	MAR 14	MING	GENERAL REVISION	AM	AFK
P1	OCT 13	MING	FIRST ISSUE	MR	AFK

Mott MacDonald

20/F Two Landmark East
100 How Ming Street
Kwun Tong, Kowloon
Hong Kong
T +852 2828 5757
F +852 2827 1823
W www.mottmac.com.hk

Client

CEDD

CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

Project

ALTERNATIVE GROUND DECONTAMINATION WORKS AT THE PROPOSED KENNEDY TOWN COMPREHENSIVE DEVELOPMENT AREA SITE

Title

SITE DECONTAMINATION ZONES

Designed	AM		Eng check	MR	
Drawn	MING		Coordination	MR	
Dwg check	AM		Approved	AFK	
Scale at A1 1:500		Status PRE		Rev P2	

Drawing Number

FIGURE 2.2

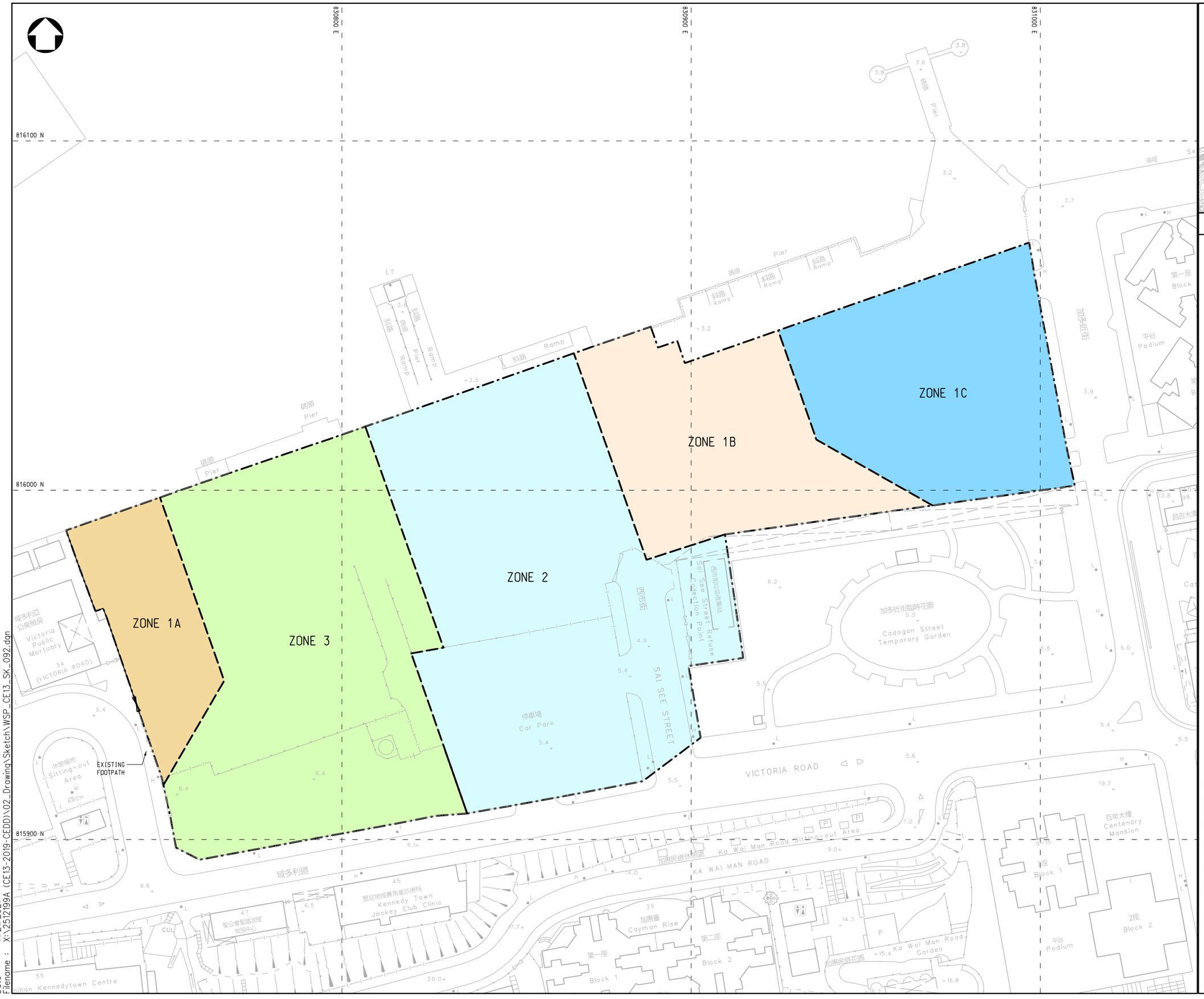
© Mott MacDonald Hong Kong Limited

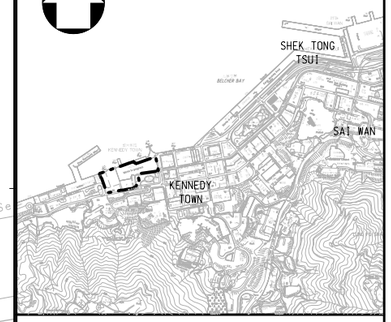
This document should not be relied on or used in circumstances other than those for which it was originally prepared and for which Mott MacDonald Hong Kong Limited was commissioned. Mott MacDonald Hong Kong Limited accepts no responsibility for this document to any other party other than the person by whom it was commissioned.

J:\316047\REPORT\EN\VEIA\140319\FIG 2-2.dgn DATE: 26/03/2014 TIME: 11:33:56 USER:yim42169

APPENDIX 2.3

ZONING PLAN AFTER PROPOSED AMENDMENT





LOCATION PLAN

LEGEND :

LIMIT OF WORKS

Rev	Description	By	Date

Consultant

wsp

Project title

AGREEMENT NO. CE/13/2019(CE)

GROUND DECONTAMINATION WORKS AT THE SITE OF EX-KENNEDY TOWN INCINCERATION PLANT/ ABATTOIR AND ADJOINING AREA - DESIGN AND CONSTRUCTION

Drawing title

GROUND DECONTAMINATIONS WORKS - INDICATIVE LAYOUT OF ZONES

Drawing no.	Rev.
WSP/CE132019/SK092	–

Drawn	Date	Checked	Approved
CAD	–	–	–

Scale	Status
–	–

© COPYRIGHT RESERVED

土木工程拓展署
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

Date : 7/21/2021
Filename : X:\2512199A (CE13-2019-CEDD)\02_Drawing\Sketch\WSP_CE13_SK_092.dgn

APPENDIX 3.1

DETAILS OF AIR SENSITIVE RECEIVERS

List of Representative Air Sensitive Receivers (ASRs)

ASR	ASRID	Description	X	Y	Flagpole (mAG)	Remarks
KT-A1	KT-A1	Cheong Kat Mansion	831037.79	815992.95	1.5	
KT-A1	KT-A1a	Cheong Kat Mansion	831037.79	815992.95	4.0	
KT-A1	KT-A1b	Cheong Kat Mansion	831037.79	815992.95	8.0	
KT-A1	KT-A1c	Cheong Kat Mansion	831037.79	815992.95	12.0	
KT-A1	KT-A1d	Cheong Kat Mansion	831037.79	815992.95	16.0	
KT-A1	KT-A1e	Cheong Kat Mansion	831037.79	815992.95	20.0	
KT-A1	KT-A1f	Cheong Kat Mansion	831037.79	815992.95	30.0	
KT-A1	KT-A1g	Cheong Kat Mansion	831037.79	815992.95	40.0	
KT-A1	KT-A1h	Cheong Kat Mansion	831037.79	815992.95	50.0	
KT-A1	KT-A1i	Cheong Kat Mansion	831037.79	815992.95	60.0	
KT-A1	KT-A1j	Cheong Kat Mansion	831037.79	815992.95	70.0	
KT-A1	KT-A1k	Cheong Kat Mansion	831037.79	815992.95	80.0	
KT-A1	KT-A1l	Cheong Kat Mansion	831037.79	815992.95	90.0	
KT-A1	KT-A1m	Cheong Kat Mansion	831037.79	815992.95	100.0	
KT-A2	KT-A2	The Merton (Block 2)	831037.52	816039.32	1.5	
KT-A2	KT-A2a	The Merton (Block 2)	831037.52	816039.32	4.0	
KT-A2	KT-A2b	The Merton (Block 2)	831037.52	816039.32	8.0	
KT-A2	KT-A2c	The Merton (Block 2)	831037.52	816039.32	12.0	
KT-A2	KT-A2d	The Merton (Block 2)	831037.52	816039.32	16.0	
KT-A2	KT-A2e	The Merton (Block 2)	831037.52	816039.32	20.0	
KT-A2	KT-A2f	The Merton (Block 2)	831037.52	816039.32	30.0	
KT-A2	KT-A2g	The Merton (Block 2)	831037.52	816039.32	40.0	
KT-A2	KT-A2h	The Merton (Block 2)	831037.52	816039.32	50.0	
KT-A2	KT-A2i	The Merton (Block 2)	831037.52	816039.32	60.0	
KT-A2	KT-A2j	The Merton (Block 2)	831037.52	816039.32	70.0	
KT-A2	KT-A2k	The Merton (Block 2)	831037.52	816039.32	80.0	
KT-A2	KT-A2l	The Merton (Block 2)	831037.52	816039.32	90.0	
KT-A2	KT-A2m	The Merton (Block 2)	831037.52	816039.32	100.0	
KT-A2	KT-A2n	The Merton (Block 2)	831037.52	816039.32	110.0	
KT-A2	KT-A2o	The Merton (Block 2)	831037.52	816039.32	120.0	
KT-A2	KT-A2p	The Merton (Block 2)	831037.52	816039.32	130.0	
KT-A2	KT-A2q	The Merton (Block 2)	831037.52	816039.32	140.0	
KT-A2	KT-A2r	The Merton (Block 2)	831037.52	816039.32	150.0	
KT-A2	KT-A2s	The Merton (Block 2)	831037.52	816039.32	160.0	
KT-A2	KT-A2t	The Merton (Block 2)	831037.52	816039.32	170.0	
KT-A2	KT-A2u	The Merton (Block 2)	831037.52	816039.32	180.0	
KT-A3	KT-A3	Centenary Mansion (Block 1)	830997.50	815905.00	1.5	
KT-A3	KT-A3a	Centenary Mansion (Block 1)	830997.50	815905.00	4.0	
KT-A3	KT-A3b	Centenary Mansion (Block 1)	830997.50	815905.00	8.0	
KT-A3	KT-A3c	Centenary Mansion (Block 1)	830997.50	815905.00	12.0	
KT-A3	KT-A3d	Centenary Mansion (Block 1)	830997.50	815905.00	16.0	
KT-A3	KT-A3e	Centenary Mansion (Block 1)	830997.50	815905.00	20.0	
KT-A3	KT-A3f	Centenary Mansion (Block 1)	830997.50	815905.00	30.0	
KT-A3	KT-A3g	Centenary Mansion (Block 1)	830997.50	815905.00	40.0	
KT-A3	KT-A3h	Centenary Mansion (Block 1)	830997.50	815905.00	50.0	
KT-A3	KT-A3i	Centenary Mansion (Block 1)	830997.50	815905.00	60.0	
KT-A3	KT-A3j	Centenary Mansion (Block 1)	830997.50	815905.00	70.0	
KT-A3	KT-A3k	Centenary Mansion (Block 1)	830997.50	815905.00	80.0	
KT-A3	KT-A3l	Centenary Mansion (Block 1)	830997.50	815905.00	90.0	
KT-A3	KT-A3m	Centenary Mansion (Block 1)	830997.50	815905.00	100.0	
KT-A4	KT-A4	Cayman Rise (Block 1)	830874.67	815877.04	1.5	
KT-A4	KT-A4a	Cayman Rise (Block 1)	830874.67	815877.04	4.0	
KT-A4	KT-A4b	Cayman Rise (Block 1)	830874.67	815877.04	8.0	
KT-A4	KT-A4c	Cayman Rise (Block 1)	830874.67	815877.04	12.0	
KT-A4	KT-A4d	Cayman Rise (Block 1)	830874.67	815877.04	16.0	
KT-A4	KT-A4e	Cayman Rise (Block 1)	830874.67	815877.04	20.0	
KT-A4	KT-A4f	Cayman Rise (Block 1)	830874.67	815877.04	30.0	
KT-A4	KT-A4g	Cayman Rise (Block 1)	830874.67	815877.04	40.0	
KT-A4	KT-A4h	Cayman Rise (Block 1)	830874.67	815877.04	50.0	

List of Representative Air Sensitive Receivers (ASRs)

ASR	ASRID	Description	X	Y	Flagpole (mAG)	Remarks
KT-A4	KT-A4i	Cayman Rise (Block 1)	830874.67	815877.04	60.0	
KT-A4	KT-A4j	Cayman Rise (Block 1)	830874.67	815877.04	70.0	
KT-A4	KT-A4k	Cayman Rise (Block 1)	830874.67	815877.04	80.0	
KT-A4	KT-A4l	Cayman Rise (Block 1)	830874.67	815877.04	90.0	
KT-A4	KT-A4m	Cayman Rise (Block 1)	830874.67	815877.04	100.0	
KT-A4	KT-A4n	Cayman Rise (Block 1)	830874.67	815877.04	110.0	
KT-A4	KT-A4o	Cayman Rise (Block 1)	830874.67	815877.04	120.0	
KT-A5	KT-A5	Bayanihan Kennedy Town Centre	830734.14	815860.57	1.5	
KT-A5	KT-A5a	Bayanihan Kennedy Town Centre	830734.14	815860.57	4.0	
KT-A5	KT-A5b	Bayanihan Kennedy Town Centre	830734.14	815860.57	8.0	
KT-A5	KT-A5c	Bayanihan Kennedy Town Centre	830734.14	815860.57	12.0	
KT-A5	KT-A5d	Bayanihan Kennedy Town Centre	830734.14	815860.57	16.0	
KT-A5	KT-A5e	Bayanihan Kennedy Town Centre	830734.14	815860.57	20.0	
KT-A6	KT-A6	Kennedy Town Jockey Club Clinic	830814.12	815887.77	1.5	
KT-A6	KT-A6a	Kennedy Town Jockey Club Clinic	830814.12	815887.77	4.0	
KT-A6	KT-A6b	Kennedy Town Jockey Club Clinic	830814.12	815887.77	8.0	
KT-A6	KT-A6c	Kennedy Town Jockey Club Clinic	830814.12	815887.77	12.0	
KT-A7	KT-A7	SKH Lui Ming Choi Memorial Primary School	830843.05	815854.67	1.5	
KT-A7	KT-A7a	SKH Lui Ming Choi Memorial Primary School	830843.05	815854.67	4.0	
KT-A7	KT-A7b	SKH Lui Ming Choi Memorial Primary School	830843.05	815854.67	8.0	
KT-A7	KT-A7c	SKH Lui Ming Choi Memorial Primary School	830843.05	815854.67	12.0	
KT-A7	KT-A7d	SKH Lui Ming Choi Memorial Primary School	830843.05	815854.67	16.0	
KT-A7	KT-A7e	SKH Lui Ming Choi Memorial Primary School	830843.05	815854.67	20.0	
KT-A8	KT-A8	No. 60 Victoria Road	830641.89	815880.00	1.5	
KT-A8	KT-A8a	No. 60 Victoria Road	830641.89	815880.00	4.0	
KT-A8	KT-A8b	No. 60 Victoria Road	830641.89	815880.00	8.0	
KT-A8	KT-A8c	No. 60 Victoria Road	830641.89	815880.00	12.0	
KT-A8	KT-A8d	No. 60 Victoria Road	830641.89	815880.00	16.0	
KT-A8	KT-A8e	No. 60 Victoria Road	830641.89	815880.00	20.0	
KT-A8	KT-A8f	No. 60 Victoria Road	830641.89	815880.00	30.0	
KT-A8	KT-A8g	No. 60 Victoria Road	830641.89	815880.00	40.0	
KT-A8	KT-A8h	No. 60 Victoria Road	830641.89	815880.00	50.0	
KT-A8	KT-A8i	No. 60 Victoria Road	830641.89	815880.00	60.0	
KT-A8	KT-A8j	No. 60 Victoria Road	830641.89	815880.00	70.0	
KT-A8	KT-A8k	No. 60 Victoria Road	830641.89	815880.00	80.0	
KT-A8	KT-A8l	No. 60 Victoria Road	830641.89	815880.00	90.0	
KT-A8	KT-A8m	No. 60 Victoria Road	830641.89	815880.00	100.0	
KT-A9	KT-A9	HKSKH St. Luke's Church	830771.46	815877.93	1.5	
KT-A9	KT-A9a	HKSKH St. Luke's Church	830771.46	815877.93	4.0	
KT-A9	KT-A9b	HKSKH St. Luke's Church	830771.46	815877.93	8.0	
KT-A10	KT-A10	Cadogan	831049.80	815924.22	1.5	
KT-A10	KT-A10a	Cadogan	831049.80	815924.22	4.0	
KT-A10	KT-A10b	Cadogan	831049.80	815924.22	8.0	
KT-A10	KT-A10c	Cadogan	831049.80	815924.22	12.0	
KT-A10	KT-A10d	Cadogan	831049.80	815924.22	16.0	
KT-A10	KT-A10e	Cadogan	831049.80	815924.22	20.0	
KT-A10	KT-A10f	Cadogan	831049.80	815924.22	30.0	
KT-A10	KT-A10g	Cadogan	831049.80	815924.22	40.0	
KT-A10	KT-A10h	Cadogan	831049.80	815924.22	50.0	
KT-A10	KT-A10i	Cadogan	831049.80	815924.22	60.0	
KT-A10	KT-A10j	Cadogan	831049.80	815924.22	70.0	
KT-A10	KT-A10k	Cadogan	831049.80	815924.22	80.0	
KT-A10	KT-A10l	Cadogan	831049.80	815924.22	90.0	
KT-A10	KT-A10m	Cadogan	831049.80	815924.22	100.0	
KT-A10	KT-A10n	Cadogan	831049.80	815924.22	110.0	
KT-A10	KT-A10o	Cadogan	831049.80	815924.22	120.0	
KT-A10	KT-A10p	Cadogan	831049.80	815924.22	130.0	
KT-A10	KT-A10q	Cadogan	831049.80	815924.22	140.0	

List of Representative Air Sensitive Receivers (ASRs)

ASR	ASRID	Description	X	Y	Flagpole (mAG)	Remarks
P01	P01	Cadogan Street Pet Garden	830906.66	815944.46	1.5	
P02	P02	Cadogan Street Pet Garden	830908.76	815935.05	1.5	
P03	P03	Cadogan Street Pet Garden	830920.08	815946.09	1.5	
P04	P04	Cadogan Street Pet Garden	830918.86	815936.50	1.5	
P10	P10	Cadogan Street Temporary Garden	830988.62	815990.56	1.5	
P11	P11	Cadogan Street Temporary Garden	830940.33	815963.98	1.5	
P12	P12	Cadogan Street Temporary Garden	830953.35	815977.12	1.5	
P13	P13	Cadogan Street Temporary Garden	830970.96	815979.70	1.5	
P14	P14	Cadogan Street Temporary Garden	830988.35	815961.06	1.5	
P15	P15	Cadogan Street Temporary Garden	830967.24	815945.66	1.5	
P16	P16	Cadogan Street Temporary Garden	830949.03	815948.49	1.5	

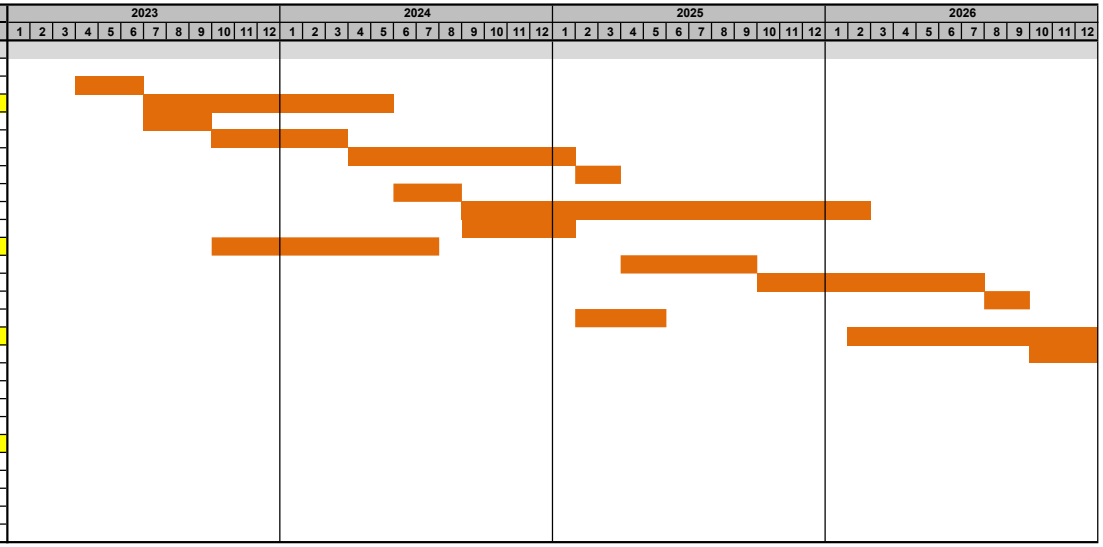
APPENDIX 3.2

CONSTRUCTION PROGRAMME AND LOCATIONS OF WORK STAGES

Agreement No. CE13/2019 Ground Decontamination Works at the Site of Ex-Kennedy Town Incineration Plant/Abattoir and Adjoining Area – Design and Construction

Reprovisioning Option A - 7 Years

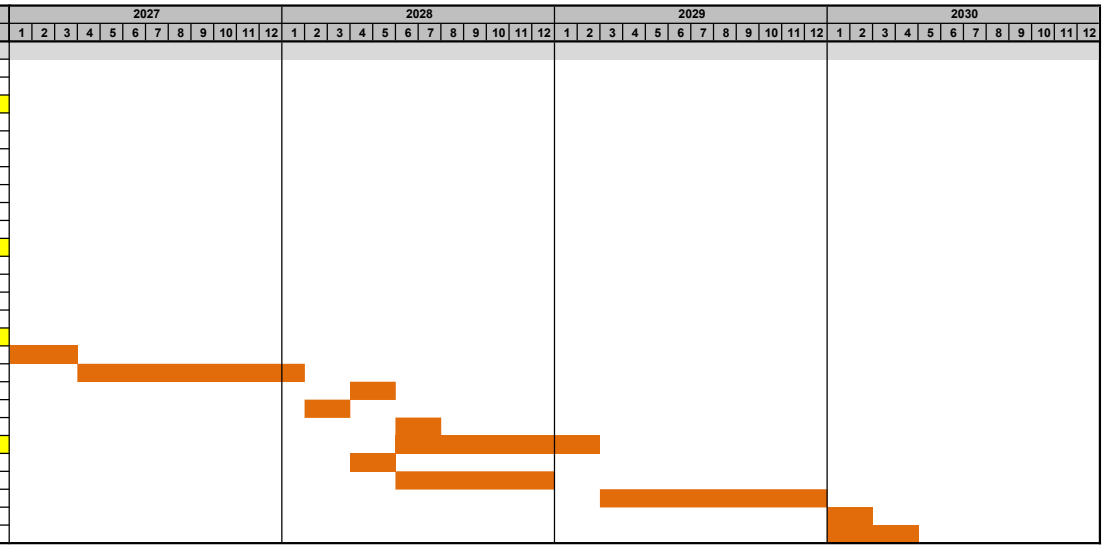
Item (#)	Task (Name)	Duration (Days)	Start (Date)	End (Date)
1	Stage 1_Scenario 13.0yr	2557	4/1/2023	3/31/2030
2	Commencement	0	4/1/2023	4/1/2023
3	Preliminary	91	4/1/2023	6/30/2023
4	Stage I Excavation (For Zone 1A & 1C)	336	7/1/2023	5/31/2024
5	Foundation for Biopile A at Zone 3	91	7/1/2023	9/29/2023
6	Formation of Biopile A at Zone 3 (For Zone 1A & 1C)	184	9/30/2023	3/31/2024
7	Operation of Biopile A at Zone 3 (For Zone 1A & 1C)	303	4/1/2024	1/28/2025
8	Decomissioning of Biopile A at Zone 3	62	1/29/2025	3/31/2025
9	Reinstatement of Zone 1A & 1C	92	6/1/2024	8/31/2024
10	Reprovisioning of RCP (By others)	546	9/1/2024	2/28/2026
11	Reprovisioning of Car Park (By others)	150	9/1/2024	1/28/2025
12	Stage II Excavation (for Zone 1B)	305	9/30/2023	7/30/2024
13	Formation of Biopile B at Zone 3 (For Zone 1B)	181	4/1/2025	9/28/2025
14	Operation of Biopile B at Zone 3 (For Zone 1B)	306	9/29/2025	7/31/2026
15	Decomissioning of Biopile B at Zone 3	59	8/1/2026	9/28/2026
16	Reinstatement of Zone 1B	120	1/29/2025	5/28/2025
17	Stage III Excavation (for Zone 2)	335	1/29/2026	12/29/2026
18	Formation of Biopile C at Zone 3 (For Zone 2)	184	9/29/2026	3/31/2027
19	Operation of Biopile C at Zone 3 (for Zone 2)	304	4/1/2027	1/29/2028
20	Decomissioning of Biopile C at Zone 3	61	4/1/2028	5/31/2028
21	Reinstatement of Zone 2	62	1/30/2028	3/31/2028
22	Remove of Biopile Foundation at Zone 3	45	6/1/2028	7/15/2028
23	Stage IV Excavation (For Zone 3)	273	6/1/2028	2/28/2029
24	Foundation for Biopile D at Zone 2	61	4/1/2028	5/31/2028
25	Formation of Biopile D at Zone 2 (For Zone 3)	212	6/1/2028	12/29/2028
26	Operation of Biopile D at Zone 2 (For Zone 3)	304	3/1/2029	12/29/2029
27	Decomissioning of Biopile D at Zone 2	61	12/30/2029	2/28/2030
28	Reinstatement of Zone 3 & Remaining works	92	12/30/2029	3/31/2030



Agreement No. CE13/2019 Ground Decontamination Works at the Site of Ex-Kennedy Town Incineration Plant/Abattoir and Adjoining Area – Design an

Reprovisioning Option A - 7 Years

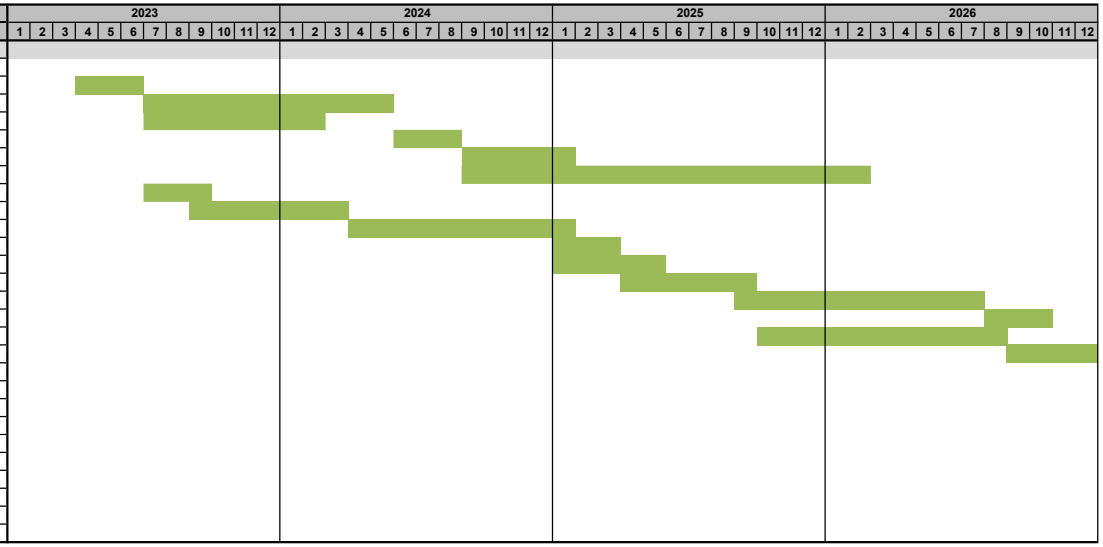
Item (#)	Task (Name)	Duration (Days)	Start (Date)	End (Date)
1	Stage 1_Scenario 13.0yr	2557	4/1/2023	3/31/2030
2	Commencement	0	4/1/2023	4/1/2023
3	Preliminary	91	4/1/2023	6/30/2023
4	Stage I Excavation (For Zone 1A & 1C)	336	7/1/2023	5/31/2024
5	Foundation for Biopile A at Zone 3	91	7/1/2023	9/29/2023
6	Formation of Biopile A at Zone 3 (For Zone 1A & 1C)	184	9/30/2023	3/31/2024
7	Operation of Biopile A at Zone 3 (For Zone 1A & 1C)	303	4/1/2024	1/28/2025
8	Decomissioning of Biopile A at Zone 3	62	1/29/2025	3/31/2025
9	Reinstatement of Zone 1A & 1C	92	6/1/2024	8/31/2024
10	Reprovisioning of RCP (By others)	546	9/1/2024	2/28/2026
11	Reprovisioning of Car Park (By others)	150	9/1/2024	1/28/2025
12	Stage II Excavation (for Zone 1B)	305	9/30/2023	7/30/2024
13	Formation of Biopile B at Zone 3 (For Zone 1B)	181	4/1/2025	9/28/2025
14	Operation of Biopile B at Zone 3 (For Zone 1B)	306	9/29/2025	7/31/2026
15	Decomissioning of Biopile B at Zone 3	59	8/1/2026	9/28/2026
16	Reinstatement of Zone 1B	120	1/29/2025	5/28/2025
17	Stage III Excavation (for Zone 2)	335	1/29/2026	12/29/2026
18	Formation of Biopile C at Zone 3 (For Zone 2)	184	9/29/2026	3/31/2027
19	Operation of Biopile C at Zone 3 (for Zone 2)	304	4/1/2027	1/29/2028
20	Decomissioning of Biopile C at Zone 3	61	4/1/2028	5/31/2028
21	Reinstatement of Zone 2	62	1/30/2028	3/31/2028
22	Remove of Biopile Foundation at Zone 3	45	6/1/2028	7/15/2028
23	Stage IV Excavation (For Zone 3)	273	6/1/2028	2/28/2029
24	Foundation for Biopile D at Zone 2	61	4/1/2028	5/31/2028
25	Formation of Biopile D at Zone 2 (For Zone 3)	212	6/1/2028	12/29/2028
26	Operation of Biopile D at Zone 2 (For Zone 3)	304	3/1/2029	12/29/2029
27	Decomissioning of Biopile D at Zone 2	61	12/30/2029	2/28/2030
28	Reinstatement of Zone 3 & Remaining works	92	12/30/2029	3/31/2030



Agreement No. CE13/2019 Ground Decontamination Works at the Site of Ex-Kennedy Town Incineration Plant/Abattoir and Adjoining Area – Design and Construction

Reprovisioning Option B - 7 Years

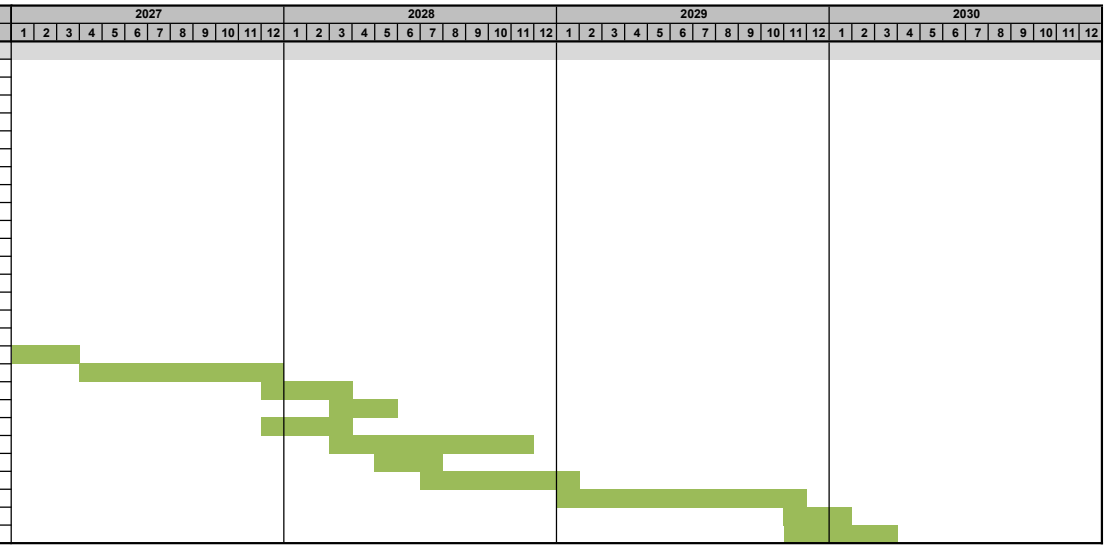
Item (#)	Task (Name)	Duration (Days)	Start (Date)	End (Date)
1	Stage 1_Scenario 7.0yr	2557	4/1/2023	3/31/2030
2	Commencement	0	4/1/2023	4/1/2023
3	Preliminary	91	4/1/2023	6/30/2023
4	Stage I Excavation (For Zone 1A & 1C)	336	7/1/2023	5/31/2024
5	Stage II Excavation (For Zone 3(30%) & 1B)	244	7/1/2023	2/29/2024
6	Reinstatement of Zone 1A & 1C	92	6/1/2024	8/31/2024
7	Reprovisioning of Car Park (By Others)	150	9/1/2024	1/28/2025
8	Reprovisioning of RCP (By Others)	546	9/1/2024	2/28/2026
9	Foundation for Biopile A at Zone 3	91	7/1/2023	9/29/2023
10	Formation of Biopile A at Zone 3 (For Zone 1A, 1C-60% & 1B-60%)	184	9/30/2023	3/31/2024
11	Operation of Biopile A at Zone 3 (For Zone 1A, 1C-60% & 1B-60%)	303	4/1/2024	1/28/2025
12	Decomissioning of Biopile A at Zone 3	62	1/29/2025	3/31/2025
13	Reinstatement of Zone 1B	123	1/29/2025	5/31/2025
x	Formation of Biopile B at Zone 3 (For Zone 3-30%)	181	4/1/2025	9/28/2025
15	Operation of Biopile B at Zone 3 (For Zone 3-30%)	306	9/29/2025	7/31/2026
16	Decomissioning of Biopile B at Zone 3	59	8/1/2026	9/28/2026
17	Stage V Excavation (for Zone 2)	304	11/29/2025	9/28/2026
18	Formation of Biopile C at Zone 3 (For Zone 2)	184	9/29/2026	3/31/2027
19	Operation of Biopile C At Zone 3 (For Zone 2)	304	4/1/2027	1/29/2028
20	Decomissioning of Biopile C at Zone 3	62	1/30/2028	3/31/2028
21	Removal of Biopile foundation at Zone 3	61	4/1/2028	5/31/2028
22	Reinstatement of Zone 2	92	1/30/2028	4/30/2028
23	Stage VI Excavation (For Zone 3(70%))	273	4/1/2028	12/29/2028
24	Foundation for Biopile D at Zone 2	61	6/1/2028	7/31/2028
25	Formation of Biopile D at Zone 2 (For Zone 3-70%, 1C-40% & 1B-40%)	212	8/1/2028	2/28/2029
26	Operation of Biopile D at Zone 2 (For Zone 3-70%, 1C-40% & 1B-40%)	304	3/1/2029	12/29/2029
27	Decomissioning of Biopile D at Zone 2	61	12/30/2029	2/28/2030
28	Reinstatement of Zone 3 & Remaining works	92	12/30/2029	3/31/2030



Agreement No. CE13/2019 Ground Decontamination Works at the Site of Ex-Kennedy Town Incineration Plant/Abattoir and Adjoining Area – Design an

Reprovisioning Option B - 7 Years

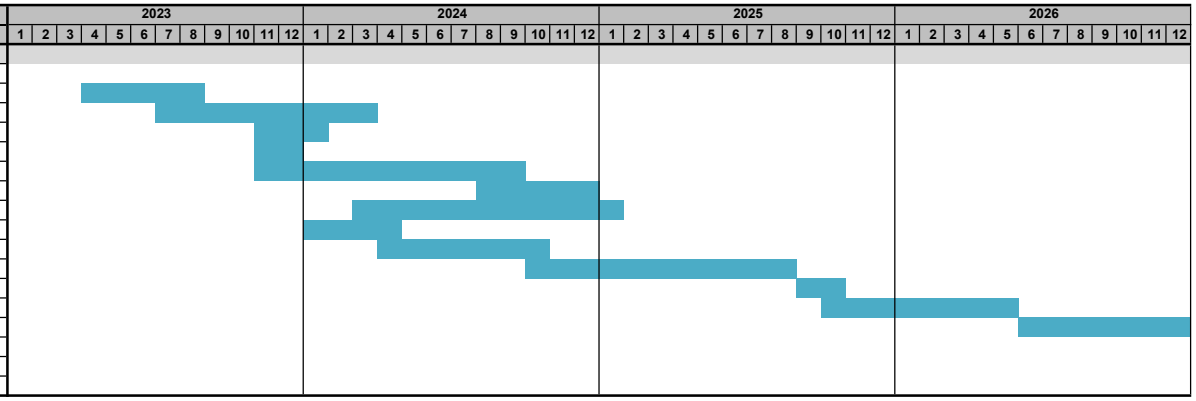
Item (#)	Task (Name)	Duration (Days)	Start (Date)	End (Date)
1	Stage 1_Scenario 7.0yr	2557	4/1/2023	3/31/2030
2	Commencement	0	4/1/2023	4/1/2023
3	Preliminary	91	4/1/2023	6/30/2023
4	Stage I Excavation (For Zone 1A & 1C)	336	7/1/2023	5/31/2024
5	Stage II Excavation (For Zone 3(30%) & 1B)	244	7/1/2023	2/29/2024
6	Reinstatement of Zone 1A & 1C	92	6/1/2024	8/31/2024
7	Reprovisioning of Car Park (By Others)	150	9/1/2024	1/28/2025
8	Reprovisioning of RCP (By Others)	546	9/1/2024	2/28/2026
9	Foundation for Biopile A at Zone 3	91	7/1/2023	9/29/2023
10	Formation of Biopile A at Zone 3 (For Zone 1A, 1C-60% & 1B-60%)	184	9/30/2023	3/31/2024
11	Operation of Biopile A at Zone 3 (For Zone 1A, 1C-60% & 1B-60%)	303	4/1/2024	1/28/2025
12	Decomissioning of Biopile A at Zone 3	62	1/29/2025	3/31/2025
13	Reinstatement of Zone 1B	123	1/29/2025	5/31/2025
x	Formation of Biopile B at Zone 3 (For Zone 3-30%)	181	4/1/2025	9/28/2025
15	Operation of Biopile B at Zone 3 (For Zone 3-30%)	306	9/29/2025	7/31/2026
16	Decomissioning of Biopile B at Zone 3	59	8/1/2026	9/28/2026
17	Stage V Excavation (for Zone 2)	304	11/29/2025	9/28/2026
18	Formation of Biopile C at Zone 3 (For Zone 2)	184	9/29/2026	3/31/2027
19	Operation of Biopile C At Zone 3 (For Zone 2)	304	4/1/2027	1/29/2028
20	Decomissioning of Biopile C at Zone 3	62	1/30/2028	3/31/2028
21	Removal of Biopile foundation at Zone 3	61	4/1/2028	5/31/2028
22	Reinstatement of Zone 2	92	1/30/2028	4/30/2028
23	Stage VI Excavation (For Zone 3(70%))	273	4/1/2028	12/29/2028
24	Foundation for Biopile D at Zone 2	61	6/1/2028	7/31/2028
25	Formation of Biopile D at Zone 2 (For Zone 3-70%, 1C-40% & 1B-40%)	212	8/1/2028	2/28/2029
26	Operation of Biopile D at Zone 2 (For Zone 3-70%, 1C-40% & 1B-40%)	304	3/1/2029	12/29/2029
27	Decomissioning of Biopile D at Zone 2	61	12/30/2029	2/28/2030
28	Reinstatement of Zone 3 & Remaining works	92	12/30/2029	3/31/2030



Agreement No. CE13/2019 Ground Decontamination Works at the Site of Ex-Kennedy Town Incineration Plant/Abattoir and Adjoining Area – Design and Construction

Reprovisioning Option C - 4.5 Years

Item (#)	Task (Name)	Duration (Days)	Start (Date)	End (Date)
1	Stage 1_Scenario 4.5yr	1643	1/4/2023	29/9/2027
2	Commencement	0	1/4/2023	1/4/2023
3	Preliminary	153	1/4/2023	31/8/2023
4	Stage I Excavation (For Zone 1A & 3)	275	1/7/2023	31/3/2024
5	Backfill soil to Zone 1A & 3	91	1/11/2023	30/1/2024
6	Import Fill to Zone 1A & 3	61	1/11/2023	31/12/2023
7	Stage II Excavation (For Zone 2)	306	1/11/2023	1/9/2024
8	Backfill soil to Zone 2	151	2/8/2024	30/12/2024
9	Stage III Excavation (For Zone 1B & 1C)	334	2/3/2024	29/1/2025
10	Foundation for Biopile A at Zone 1A & 3	62	31/1/2024	1/4/2024
11	Formation of Biopile A at Zone 1A & 3 (For Zone 1A, 2 & 3)	212	1/4/2024	29/10/2024
12	Operation of Biopile A at Zone 1A & 3 (For Zone 1A, 2 & 3)	306	30/10/2024	31/8/2025
13	Decomissioning of Biopile A	59	1/9/2025	29/10/2025
14	Formation of Biopile B at Zone 1A & 3 (For Zone 1B & 1C)	214	30/10/2025	31/5/2026
15	Operation of Biopile B at Zone 1A & 3 (For Zone 1B & 1C)	304	1/6/2026	31/3/2027
16	Decomissioning of Biopile B	91	1/4/2027	30/6/2027
17	Backfill soil to Zone 1B, 1C	92	30/1/2027	1/5/2027
18	Reinstatement and remaining works	91	1/7/2027	29/9/2027



Agreement No. CE13/2019 Ground Decontamination Works at the Site of Ex-Kennedy Town Incineration Plant/Abattoir and Adjoining Area – Design

Reprovisioning Option C - 4.5 Years

Item (#)	Task (Name)	Duration (Days)	Start (Date)	End (Date)
1	Stage 1_Scenario 4.5yr	1643	1/4/2023	29/9/2027
2	Commencement	0	1/4/2023	1/4/2023
3	Preliminary	153	1/4/2023	31/8/2023
4	Stage I Excavation (For Zone 1A & 3)	275	1/7/2023	31/3/2024
5	Backfill soil to Zone 1A & 3	91	1/11/2023	30/1/2024
6	Import Fill to Zone 1A & 3	61	1/11/2023	31/12/2023
7	Stage II Excavation (For Zone 2)	306	1/11/2023	1/9/2024
8	Backfill soil to Zone 2	151	2/8/2024	30/12/2024
9	Stage III Excavation (For Zone 1B & 1C)	334	2/3/2024	29/1/2025
10	Foundation for Biopile A at Zone 1A & 3	62	31/1/2024	1/4/2024
11	Formation of Biopile A at Zone 1A & 3 (For Zone 1A, 2 & 3)	212	1/4/2024	29/10/2024
12	Operation of Biopile A at Zone 1A & 3 (For Zone 1A, 2 & 3)	306	30/10/2024	31/8/2025
13	Decomissioning of Biopile A	59	1/9/2025	29/10/2025
14	Formation of Biopile B at Zone 1A & 3 (For Zone 1B & 1C)	214	30/10/2025	31/5/2026
15	Operation of Biopile B at Zone 1A & 3 (For Zone 1B & 1C)	304	1/6/2026	31/3/2027
16	Decomissioning of Biopile B	91	1/4/2027	30/6/2027
17	Backfill soil to Zone 1B, 1C	92	30/1/2027	1/5/2027
18	Reinstatement and remaining works	91	1/7/2027	29/9/2027

APPENDIX 3.3

SURFACE PARAMETERS FOR METEOROLOGICAL DATA

Land Use for AERMET Surface Roughness (Refer to Figure A)

Study Area (10km x 10km - Centre of the Site)

Land Type	Area, km^2	Fraction
Urban	27.5	0.28
[1] Shrubland	11.0	0.11
Open water	61.5	0.62

35,29

Note:
1. Non-Arid Shrubland

Study Area (1km from the Site)

	Fraction of Area			Distance, km		
Sector, degree	Urban	[1] Shrubland	Openwater	Urban	[1] Shrubland	Openwater
0 - 30	0.01	--	0.99	0.05	--	0.50
30 - 60	0.11	--	0.89	0.05	--	0.55
60 -90	0.96	--	0.04	0.50	--	0.35
90 - 120	0.73	0.27	--	0.50	0.90	--
120 -150	1.00	--	--	0.50	--	--
150 - 180	0.20	0.80	--	0.50	0.60	--
180 - 210	0.10	0.90	--	0.20	0.70	--
210 - 240	0.08	0.90	0.02	0.15	0.60	0.95
240 - 270	0.28	--	0.72	0.45	--	0.65
270 - 300	0.01	0.08	0.91	0.05	0.85	0.50
300 - 330	0.01	--	0.99	0.05	--	0.50
330 - 360	0.01	--	0.99	0.05	--	0.50

Note:
1. Non-Arid Shrubland

Summary of Surface Parameters

Sector, degree	[2] Albedo	[3] Bowen ratio	[1] Roughness, m
0 - 30	0.1310	0.2611	0.0015
30 - 60	0.1310	0.2611	1.0000
60 -90	0.1310	0.2611	1.0000
90 - 120	0.1310	0.2611	0.8175
120 -150	0.1310	0.2611	1.0000
150 - 180	0.1310	0.2611	0.3982
180 - 210	0.1310	0.2611	0.4212
210 - 240	0.1310	0.2611	0.3953
240 - 270	0.1310	0.2611	0.0121
270 - 300	0.1310	0.2611	0.0022
300 - 330	0.1310	0.2611	0.0017
330 - 360	0.1310	0.2611	0.0016

Note:
1. Average seasonal categories: 1, 2, 3 & 5 as per Table A-3 of USEPA's AERSURFACE user guide. Based on inverse-distacne weighted geometric mean
2. Average seasonal categories: 1, 2, 3 & 5 as per Table A-1 of USEPA's AERSURFACE user guide. Based on arithmetric mean, weighted by land type fraction
3. Average seasonal categories: 1, 2, 3 & 5 as per Table A-2 of USEPA's AERSURFACE user guide. Based on unweighted geometric mean

Land Use for AERMET Albedo and Bowen Ratios (Refer to Figure B)

W : Water
F : Grassland/Coniferous Forest
U : Urban

Albedo Ratio [1], [2]

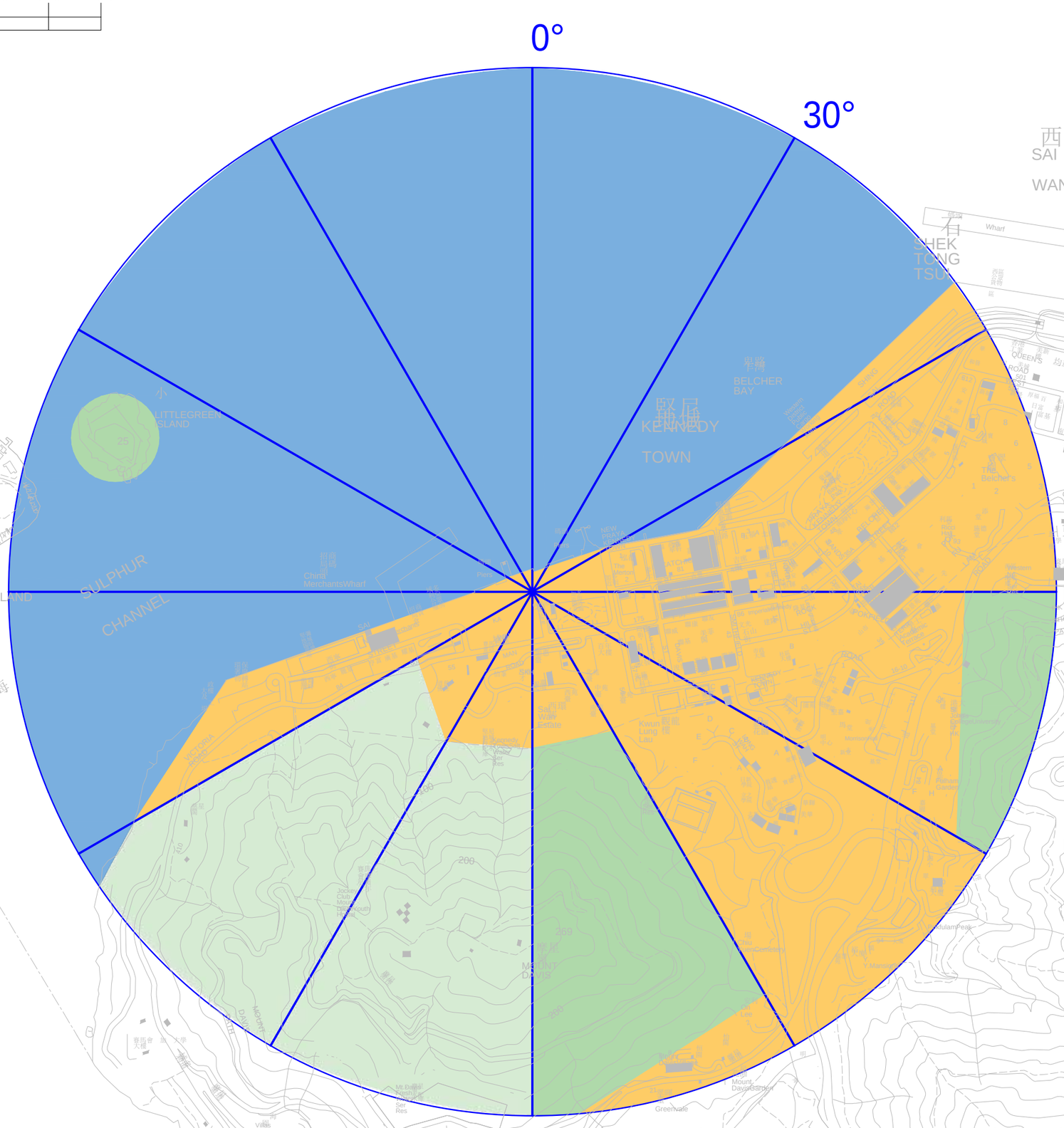
Land-use	Spring	Summer	Autumn	Average	Number of Grids	Average Albedo Ratio
W	0.12	0.10	0.14	0.12	61.5	0.13
F [3]	0.12	0.12	0.12	0.12	11	
U	0.14	0.16	0.18	0.16	27.5	

Bowen Ratio [1], [2]

Land-use	Spring	Summer	Autumn	Average	Number of Grids	Average Albedo Ratio
W	0.1	0.1	0.1	0.1	61.5	0.26
F [3]	0.7	0.3	0.8	0.6	11	
U	1	2	2	1.6	27.5	

Note:
[1] For grids with 2 land uses are assumed that each land use occupies 50% of the grid.
[2] Average of Spring, Summer and Autumn of Table 4-2 for Albedo ratio and Table 4-4 for Bowen ratio of User's Guide of AERMET (EPA, Dec 2016)
[3] Coniferous forest were chosen for conservative case

0 100 200 300 400
METRES



LEGEND :

- URBAN
- OPENWATER
- GRASSLAND / CONIFEROUS FOREST

Rev	Description	By	Date

Consultant

wsp

Project title

AGREEMENT NO. CE/13/2019(CE)
GROUND DECONTAMINATION WORKS AT THE SITE OF EX-KENNEDY TOWN INCINCERATION PLANT/ ABATTOIR AND ADJOINING AREA - DESIGN AND CONSTRUCTION

Drawing title

LAND USE FOR AERMET
SURGACE ROUGHNESS

Drawing no.			Rev.
APPENDIX			
Drawn: DH	Date: MAR2021	Checked: MW	Approved: AC
Scale: AS_SHOWN		Status:	

© COPYRIGHT RESERVED

土木工程拓展署
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

Date : 2021-03-29
Filename : \\hkkwn200da116\sde\7. Projects\Project_H321_Env\(2535551-2535600)\2535577A (2512199B) - CE13 Decontamination at Ex-Kennedy Town Incinerator\Working\Air\AERMET\CE13 AERMET.dwg

W	W/U	W/U	W/U	W/U	W/U	W/U	W/U	U	U
31_34	32_34	33_34	34_34	35_34	36_34	37_34	38_34	39_34	40_34
W	W	W	W	W/U	W/U	W/U	W/U	U	U
31_33	32_33	33_33	34_33	35_33	36_33	37_33	38_33	39_33	40_33
W	W	W	W	W	W	W	W	U	U
31_32	32_32	33_32	34_32	35_32	36_32	37_32	38_32	39_32	40_32
W	W	W	W	W	W	W	W/U	W/U	U
31_31	32_31	33_31	34_31	35_31	36_31	37_31	38_31	39_31	40_31
W	W	W	W	W	W/U	W/U	W/U	W/U	W/U
31_30	32_30	33_30	34_30	35_30	36_30	37_30	38_30	39_30	40_30
W	W	W	W/F	W/U	F/U	F/U	U	W/U	W/U
31_29	32_29	33_29	34_29	35_29	36_29	37_29	38_29	39_29	40_29
W	W	W	W	W/U	F/U	F	F/U	F/U	F/U
31_28	32_28	33_28	34_28	35_28	36_28	37_28	38_28	39_28	40_28
W	W	W	W	W/U	F/U	F	F/U	F	F
31_27	32_27	33_27	34_27	35_27	36_27	37_27	38_27	39_27	40_27
W	W	W	W	W	W/U	F/U	F/U	W/F	F/U
31_26	32_26	33_26	34_26	35_26	36_26	37_26	38_26	39_26	40_26
W	W	W	W	W	W	W/U	W/U	W/U	F/U
31_25	32_25	33_25	34_25	35_25	36_25	37_25	38_25	39_25	40_25

LEGEND :

- U — URBAN
- W — OPENWATER
- F — GRASSLAND / CONIFEROUS FOREST

Rev	Description	By	Date

Consultant

wsp

Project title

AGREEMENT NO. CE/13/2019(CE)
GROUND DECONTAMINATION WORKS AT THE SITE OF EX-KENNEDY TOWN INCINCERATION PLANT/ ABATTOIR AND ADJOINING AREA - DESIGN AND CONSTRUCTION

Drawing title

LAND USE FOR AERMET
ALBEDO AND BOWEN RATIOS

Drawing no.		Rev.
APPENDIX		
Drawn: DH	Date: MAR2021	Checked: MW / Approved: AC
Scale: AS_SHOWN	Status:	

© COPYRIGHT RESERVED

土木工程拓展署
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

Date : 2021-03-29
Filename : \\Hkkwn200dat16\sde\7. Projects\Project_H321_Env\(2535551-2535600)\2535577A (2512199B) - CE13 Decontamination at Ex-Kennedy Town Incinerator\Working\Air\AERMET\CE13 AERMET.dwg

APPENDIX 3.4

CALCULATION OF DUST EMISSION RATES

Calculations on Dust Emissions

A. Heavy Construction

TSP Emission Rate	=	2.69	Mg/hectare/month	Note 1	
Active Operating Area	=	100	%		
RSP/TSP Ratio	=	47.3%		Note 5	
FSP/TSP Ratio	=	7.2%		Note 5	
Working Days	=	26	Days/Month	Note 4	(Only on Mon-Sat)
Working Hours	=	10	Hours/Day	Note 4	(Only on 0800-1800)
TSP Emission Rate (Unmitigated)	=	**2.87E-04**	$g/m^2/s$	(Assume as above Working Days and Hours)	
RSP Emission Rate (Unmitigated)	=	**1.36E-04**	$g/m^2/s$	TSP(Unmitigated)*(RSP/TSP Ratio)	
FSP Emission Rate (Unmitigated)	=	**2.07E-05**	$g/m^2/s$	TSP(Unmitigated)*(FSP/TSP Ratio)	
Mitigated Ratio	=	**91.7**	%	Note 3	
TSP Emission Rate (Mitigated)	=	**2.39E-05**	$g/m^2/s$	(Unmitigated Rate)*(Mitigated Ratio)	
RSP Emission Rate (Mitigated)	=	**1.13E-05**	$g/m^2/s$	TSP(Mitigated)*(RSP/TSP Ratio)	
FSP Emission Rate (Mitigated)	=	**1.72E-06**	$g/m^2/s$	TSP(Mitigated)*(FSP/TSP Ratio)	

B. Wind Erosion on Exposed Ground

TSP Emission Factor	=	0.85	Mg/hectare/year	Note 2	
PM10/TSP Ratio	=	47.3%		Note 5	
PM2.5/TSP Ratio	=	7.2%		Note 5	
TSP Emission Rate (Unmitigated)	=	**2.70E-06**	$g/m^2/s$	(Assume 365days, 24hours)	
RSP Emission Rate (Unmitigated)	=	**1.27E-06**	$g/m^2/s$	TSP(Unmitigated)*(RSP/TSP Ratio)	
FSP Emission Rate (Unmitigated)	=	**1.94E-07**	$g/m^2/s$	TSP(Unmitigated)*(FSP/TSP Ratio)	
Mitigated Ratio	=	**91.7**	%	Note 3	
TSP Emission Rate (Mitigated)	=	**2.24E-07**	$g/m^2/s$	(Unmitigated Rate)*(Mitigated Ratio)	
RSP Emission Rate (Mitigated)	=	**1.06E-07**	$g/m^2/s$	TSP(Mitigated)*(RSP/TSP Ratio)	
FSP Emission Rate (Mitigated)	=	**1.61E-08**	$g/m^2/s$	TSP(Mitigated)*(FSP/TSP Ratio)	

Note

Note 1	USEPA AP42, 5th Edition, Vol.1, Chapter 13.2.3.3
Note 2	USEPA AP42, 5th Edition, Vol.1, Chapter 11.9, Table 11.9.4
Note 3	Reference from Appendix 3.3 of Kennedy Town Supplementary EIA (EIA-226/2014)
Note 4	Reference from Section 3.4.3 of Kennedy Town Supplementary EIA (EIA-226/2014)
Note 5	Reference from Update of Fugitive Dust Emission Factors in Page 13.2.4-4, Section 13.2.4, AP-42, USEPA (Version 11/06)

Scenario in Model

Heavy Construction

Scenario	Construction Zone	Working Hours (0800-1800) TSP Emission Rate	Working Hours (0800-1800) RSP Emission Rate	Working Hours (0800-1800) FSP Emission Rate	Non-Working Hours (1800-0800) TSP Emission Rate	Non-Working Hours (1800-0800) RSP Emission Rate	Non-Working Hours (1800-0800) FSP Emission Rate	Emission Heights
		$g/m^2/s$	$g/m^2/s$	$g/m^2/s$	$g/m^2/s$	$g/m^2/s$	$g/m^2/s$	mAG
T1U (Unmitigated)	KTCDA	2.87E-04	1.36E-04	2.07E-05	0	0	0	0
	Concurrent Projects	2.39E-05	1.13E-05	1.72E-06	0	0	0	2.4
T1M (Mitigated)	KTCDA	2.39E-05	1.13E-05	1.72E-06	0	0	0	5.5
	Concurrent Projects	2.39E-05	1.13E-05	1.72E-06	0	0	0	2.4

Wind Erosion on Exposed Ground

Scenario	Construction Zone	Working Hours (0800-1800) TSP Emission Rate	Working Hours (0800-1800) RSP Emission Rate	Working Hours (0800-1800) FSP Emission Rate	Non-Working Hours (1800-0800) TSP Emission Rate	Non-Working Hours (1800-0800) RSP Emission Rate	Non-Working Hours (1800-0800) FSP Emission Rate	Emission Heights
		$g/m^2/s$	$g/m^2/s$	$g/m^2/s$	$g/m^2/s$	$g/m^2/s$	$g/m^2/s$	mAG
T1U (Unmitigated)	KTCDA	2.70E-06	1.27E-06	1.94E-07	2.70E-06	1.27E-06	1.94E-07	0
	Concurrent Projects	2.24E-07	1.06E-07	1.61E-08	2.70E-06	1.27E-06	1.94E-07	2.4
T1M (Mitigated)	KTCDA	2.24E-07	1.06E-07	1.61E-08	2.70E-06	1.27E-06	1.94E-07	5.5
	Concurrent Projects	2.24E-07	1.06E-07	1.61E-08	2.70E-06	1.27E-06	1.94E-07	2.4

Remarks: Used in Model

1 Work on 0800-1800 Monday-Saturday only

2 Concurrent Projects including Residential Development at the Ka Wai Man Road and Ex-Mount Davis Cottage Area and Reprovisioning of Kennedy Town Saltwater Pumping Station.

3 Concurrent projects were assumed to have emissions from heavy construction activities and wind erosion.

Ratio Profile in AERMOD

T1U (Unmitigated)

Working Hours
Mon to Sat 0800-1800
(Note 4)

Start Hour	End Hour	Heavy Construction			Wind Erosion on Exposed Ground		
		Hourly Profile Ratio (Maximum as baseline)					
		Mon-Fri	Sat	Sun	Mon-Fri	Sat	Sun
0	100	0	0	0	1.0	1.0	1.0
100	200	0	0	0	1.0	1.0	1.0
200	300	0	0	0	1.0	1.0	1.0
300	400	0	0	0	1.0	1.0	1.0
400	500	0	0	0	1.0	1.0	1.0
500	600	0	0	0	1.0	1.0	1.0
600	700	0	0	0	1.0	1.0	1.0
700	800	0	0	0	1.0	1.0	1.0
800	900	1.0	1.0	0	1.0	1.0	1.0
900	1000	1.0	1.0	0	1.0	1.0	1.0
1000	1100	1.0	1.0	0	1.0	1.0	1.0
1100	1200	1.0	1.0	0	1.0	1.0	1.0
1200	1300	1.0	1.0	0	1.0	1.0	1.0
1300	1400	1.0	1.0	0	1.0	1.0	1.0
1400	1500	1.0	1.0	0	1.0	1.0	1.0
1500	1600	1.0	1.0	0	1.0	1.0	1.0
1600	1700	1.0	1.0	0	1.0	1.0	1.0
1700	1800	1.0	1.0	0	1.0	1.0	1.0
1800	1900	0	0	0	1.0	1.0	1.0
1900	2000	0	0	0	1.0	1.0	1.0
2000	2100	0	0	0	1.0	1.0	1.0
2100	2200	0	0	0	1.0	1.0	1.0
2200	2300	0	0	0	1.0	1.0	1.0
2300	2400	0	0	0	1.0	1.0	1.0

T1M (Mitigated)

Working Hours
Mon to Sat 0800-1800
(Note 4)

Start Hour	End Hour	Heavy Construction			Wind Erosion on Exposed Ground		
		Hourly Profile Ratio (Maximum as baseline)					
		Mon-Fri	Sat	Sun	Mon-Fri	Sat	Sun
0	100	0	0	0	1.0	1.0	1.0
100	200	0	0	0	1.0	1.0	1.0
200	300	0	0	0	1.0	1.0	1.0
300	400	0	0	0	1.0	1.0	1.0
400	500	0	0	0	1.0	1.0	1.0
500	600	0	0	0	1.0	1.0	1.0
600	700	0	0	0	1.0	1.0	1.0
700	800	0	0	0	1.0	1.0	1.0
800	900	1.0	1.0	0	0.083	0.083	1.0
900	1000	1.0	1.0	0	0.083	0.083	1.0
1000	1100	1.0	1.0	0	0.083	0.083	1.0
1100	1200	1.0	1.0	0	0.083	0.083	1.0
1200	1300	1.0	1.0	0	0.083	0.083	1.0
1300	1400	1.0	1.0	0	0.083	0.083	1.0
1400	1500	1.0	1.0	0	0.083	0.083	1.0
1500	1600	1.0	1.0	0	0.083	0.083	1.0
1600	1700	1.0	1.0	0	0.083	0.083	1.0
1700	1800	1.0	1.0	0	0.083	0.083	1.0
1800	1900	0	0	0	1.0	1.0	1.0
1900	2000	0	0	0	1.0	1.0	1.0
2000	2100	0	0	0	1.0	1.0	1.0
2100	2200	0	0	0	1.0	1.0	1.0
2200	2300	0	0	0	1.0	1.0	1.0
2300	2400	0	0	0	1.0	1.0	1.0

Calculation of Dust Suppression Efficiency

Dust supression rates can be estimated based on Equation 3-2 provided in the Control of Open Fugitive Dust Sources Final Report,

Equation 3-2 **Equation: Average Control Efficiency (%) = 100 - (0.8 * p * d * t / i)**

Annual Evaporation Rate	=	1227.3	mm	Annual averaged evaporation rate recorded at King's Park Station between 1981 and 2010
	=	48.3188	inch	1mm = 0.03937inch
p = potential average hourly daytime evaporation rate	=	0.2368	mm/hr	P = 0.0049 x evaporation for annual conditions
d = average maximum hourly daytime traffic rate	=	8	/hr	Maximum no. of vehicles generated per hour during peak construction period estimated by Engineer
i = application intensity	=	0.274	L/m^2	Assumption provided is for assessment predictions only. Actual figures would be defined in detailed design stage.
t = time between applications	=	1.50	hr	12 Working hours and Water spraying frequency of 12 times/day; t = working hours/spray frequency
Control Effi	=	**91.70**	%	

Emission Inventory for Dust *Reference as per Appendix 3.8 of Kennedy Town Supplementary EIA (EIA-226/2014).

Source ID *	Description	Source ID in Heavy Work	Source ID in Wind Erosion	X-coordinate*	Y-coordinate*	X-Dimension*	Y-Dimension*	Base Elevation (mPD)	Release Height (Unmitigate)	Release Height (Mitigate)	Rotation in AERMOD	Area (m2)*
A1	Zone 1A	A1H	A1W	830729.4	815964.8	28.1	24.6	5	0	5.5	-19.5	691
A2	Zone 1A	A2H	A2W	830742.0	815936.2	26	31.1	5	0	5.5	-19.5	809
A3	Zone 1B	A3H	A3W	830868.6	816033.0	23.3	6.5	5	0	5.5	-19.5	151
A4	Zone 1B	A4H	A4W	830881.8	815995.5	29.3	39.6	5	0	5.5	-19.5	1160
A5	Zone 1C	A5H	A5W	830909.5	816005.4	102	33.2	5	0	5.5	-19.5	3386
A6	Zone 1B	A6H	A6W	830889.5	815974.4	31.8	22.3	5	0	5.5	-19.5	709
A7	Zone 1B	A7H	A7W	830921.3	815980.4	30.9	27.2	5	0	5.5	-19.5	840
A8	Zone 1C	A8H	A8W	830952.6	815983.9	32.2	34.3	5	0	5.5	-19.5	1104
A9	Zone 1C	A9H	A9W	830985.3	815988.5	32.2	40.5	5	0	5.5	-19.5	1304
B1	Zone 3	B1H	B1W	830766.3	815945.6	52.8	55	5	0	5.5	-19.5	2904
B2	Zone 3	B2H	B2W	830751.9	815906.1	79.4	31.5	5	0	5.5	-19.5	2501
B3	Zone 3	B3H	B3W	830756.4	815889.6	31.2	17.2	5	0	5.5	-19.5	537
B4	Zone 3	B4H	B4W	830787.1	815896.5	23.4	21	5	0	5.5	-19.5	491
B5	Zone 3	B5H	B5W	830810.2	815901.1	26.1	24.2	5	0	5.5	-19.5	632
B6	Zone 2	B6H	B6W	830836.2	815904.6	33.9	19.4	5	0	5.5	-19.5	658
B7	Zone 2	B7H	B7W	830869.6	815910.9	40.6	24.5	5	0	5.5	-19.5	995
B8	Zone 2	B8H	B8W	830830.0	815923.6	93.4	31.6	5	0	5.5	-19.5	2951
B9	Zone 2	B9H	B9W	830819.4	815953.6	75.8	64.8	5	0	5.5	-19.5	4912
CP1	Reprovisioning of Kennedy Town Saltwater Pumping Station	CP1H	CP1W	830407.9	815834.6	32	41.5	5	0	2.4	-19.8	1328
CP2		CP2H	CP2W	830427.7	815876.3	16.1	3.6	5	0	2.4	-19.8	58
CP3		CP3H	CP3W	830443.1	815882.1	16.1	3.6	5	0	2.4	-19.8	58
CP4		CP4H	CP4W	830458.6	815888.1	16.1	3.6	5	0	2.4	-19.8	58
CP5		CP5H	CP5W	830474.0	815894.0	16.1	3.6	5	0	2.4	-19.8	58
CP6		CP6H	CP6W	830489.3	815900.4	16.1	3.6	5	0	2.4	-19.8	58
CP7		CP7H	CP7W	830504.5	815906.4	16.1	3.6	5	0	2.4	-19.8	58
CP8		CP8H	CP8W	830519.6	815912.6	16.1	3.6	5	0	2.4	-19.8	58
CP9		CP9H	CP9W	830535.2	815918.3	17.3	3.9	5	0	2.4	-19.8	67
CP10		CP10H	CP10W	830551.6	815925.4	3.6	8.5	5	0	2.4	-19.8	31
CP11	Residential Development at the Ka Wai Man Road and Ex-Mount Davis Cottage Area	CP11H	CP11W	830708.0	815941.4	30	39.8	5	0	2.4	-19.8	1194
CP14		CP14H	CP14W	830415.1	815731.9	29.3	39.1	5	0	2.4	-4.6	1146
CP15		CP15H	CP15W	830442.6	815746.7	38.4	29.6	5	0	2.4	-1.3	1137
CP16		CP16H	CP16W	830483.5	815747.5	21.7	35.9	5	0	2.4	-8.6	779
CP17		CP17H	CP17W	830505.7	815745.9	21.7	50.3	5	0	2.4	-8.6	1092
CP18		CP18H	CP18W	830528.1	815746.1	40.1	71.9	5	0	2.4	-8.6	2883
CP19		CP19H	CP19W	830562.9	815787.9	40.5	35.4	5	0	2.4	-8.6	1434
CP20		CP20H	CP20W	830568.1	815751.3	40.5	36.3	5	0	2.4	-8.6	1470
CP21		CP21H	CP21W	830602.2	815798.2	55.6	38.3	5	0	2.4	-8.6	2129
CP22		CP22H	CP22W	830610.8	815741.4	55.6	56.9	5	0	2.4	-8.6	3164
CP23		CP23H	CP23W	830661.1	815795.1	25.1	50.8	5	0	2.4	-17.1	1275
CP24		CP24H	CP24W	830667.6	815744.7	42.9	51.2	5	0	2.4	-17.1	2196
CP25		CP25H	CP25W	830678.6	815823.6	11	32.7	5	0	2.4	-17.1	360
CP26		CP26H	CP26W	830707.9	815760.7	41.4	52.7	5	0	2.4	-17.1	2182
CP27		CP27H	CP27W	830726.3	815749.3	26.9	14.9	5	0	2.4	-17.1	401
CP28		CP28H	CP28W	830744.7	815727.6	16	25.9	5	0	2.4	-17.1	414
CP29		CP29H	CP29W	830742.0	815791.0	33.8	43.8	5	0	2.4	-17.1	1480
CP30		CP30H	CP30W	830749.8	815765.0	60.1	26.4	5	0	2.4	-17.1	1587
CP31		CP31H	CP31W	830761.0	815729.1	54.4	36.6	5	0	2.4	-17.1	1991
CP32		CP32H	CP32W	830764.3	815835.6	15.3	10.3	5	0	2.4	-17.1	158

LEGEND :

- STUDY BOUNDARY
- CONCURRENT PROJECTS
- PROPOSED PROJECT DUST SOURCES

Rev	Description	By	Date

Consultant

wsp

Project title

AGREEMENT NO. CE/13/2019(CE)
GROUND DECONTAMINATION WORKS AT THE SITE OF EX-KENNEDY TOWN INCINCERATION PLANT/ ABATTOIR AND ADJOINING AREA - DESIGN AND CONSTRUCTION

Drawing title

LOCATION OF POTENTIAL CONSTRUCTION DUST SOURCES

Drawing no.		Rev.
APPENDIX		0
Drawn: DH	Date: JUL2021	Checked: MW / Approved: AC
Scale: AS SHOWN	Status:	

© COPYRIGHT RESERVED

土木工程拓展署
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

Date : 2021-07-26
Filename : \\Hkkwn200da116\sde\7. Projects\Project_H321_Env\(2535551-2535600)\2535577A (2512199B) - CE13 Decontamination at Ex-Kennedy Town Incinerator\Working\Air\Z Figure\CE13 Air v03.dwg

APPENDIX 3.5

SOIL CONCENTRATIONS FOR HEAVY METALS

Soil Concentrations on Heavy Metals (HM)

Zone		1A+3	1B+1C	2
Pollutant		Average Concentrations (mg/kg*)		
Arsenic	(As)	8.82	16.29	10.67
Barium	(Ba)	66.03	133.68	120.86
Cadmium	(Cd)	2.74	0.56	0.47
Cobalt	(Co)	3.92	4.48	4.96
Chromium metal and Chromium (III)	(Cr (III))	14.59	9.28	5.17
Chromium (VI) (Hexavalent Chromium)	(Cr (VI))	5.63	9.24	10.81
Copper	(Cu)	136.26	170.86	70.20
Molybdenum	(Mo)	2.61	1.92	2.23
Nickel	(Ni)	6.71	10.04	8.22
Lead	(Pb)	376.80	316.39	222.05
Tin	(Sn)	17.01	19.85	31.62
Zinc	(Zn)	657.43	405.24	411.29
Mercury	(Hg)	2.40	3.88	2.99

Note:

(1) Average Concentration reference from Appendix 3.4a of Kennedy Town Summplement EIA (EIA-226/2014).

(*) mg/kg means mg of pollutants per kg of soil.

Borehole Depth in Grids

Grid - Borehole	Corresponding Depth (m)				
#	D1	D2	D3	D4	D5
Grid 1 - TB10	0.4	1.2	1.8		
Grid 1 - TB10A		2.6	3.9		
Grid 2 - TB5	1.8	2.5	3.4		
Grid 2 - TB7	1.5	2.7	3.3		
Grid 2 - TB9	1	2.4	3.3		
Grid 4R - TB23	0.5	1.9	3.4		
Grid 5 - TB11	0.5	2.4	3.8		
Grid 5 - TB28	0.4	2.1	3.6		
Grid 6 - TB4	0.5	2.7	3.9		
Grid 6 - TB6	0.6	2.2	3.3		
Grid 6 - TB8	1.1	2.6	3.1		
Grid 8R - TB27	0.5	2	3.4		
Grid 9 - TB13	0.5	1.5	3		
Grid 10 - TB3		2.5	3.8		
Grid 10 - TB12	0.5	2.5	3.5		
Grid 15 - TB16	0.8	2.3	3.6		
Grid 15 - TB30	0.6	2.4	3.5		
Grid 16 - TB15	0.4	2.3	3.5		
Grid 17 - TB17	0.4	2.3	3		
Grid 17 - TB19	0.6	2.3	3.5		
Grid 18 - TB18	1	2.4	3.8		
Grid 18 - TB29	0.5	1	1.3	2	3
Grid 20 - TB20	0.3	1.5	3.2		
Grid 26 - TB2	0.5	1.5	3		
Grid 27 - TB14	0.4	2.5	3.5		
Grid 27 - TB24	1.2	2	3	4	
Grid 32 - TB25	0.9	1.6	2.9	3.9	
Grid D - TB1	0.3	1.3	2.5	3.2	
Grid D - TB21	0.5	2.4	3.5	4.9	
Grid D - TB22	0.5	1.8	2.9		
Grid D - TB26	0.8	1.8	2.7	3.4	

Arsenic

Grid	Depth (m)	Counter	0.5	1.5	3	4.5	6	7.5	9	10.5	12	13.5	15	16.5	18	19.5	21	D1	D2	D3	D4	D5	0.0M-0.5M	0.5M-1.5M	1.5M-3.0M	3.0M-4.5M	4.5M-6.0M	6.0M-7.5M	7.5M-9.0M
Zone 1A+3																													
Grid 1	BH82	7	6.6	6.8						1.5	1.7	3.9	3.9	5.2															
Grid 1	BH83	0																											
Grid 1	BH85	2	6.3	2.8																									
Grid 1	BH86	1	5.6																										
Grid 2	BH88	0																											
Grid 2	BH91	0																											
Grid 2	BH92	2	6	7.7																									
Grid 2	BH93	0																											
Grid 2	BH94	0																											
Grid 2	BH95	0																											
Grid 2	BH97	0																											
Grid 2	BH99	9	2.6	7.6	9.1	0.9		3.5	3.7	3.9	6.3		1.8																
Grid 3R	BH8	5	16	12	3.4	2.9		3.8																					
Grid 3R	BH96	0																											
Grid 4R	BH1	0																											
Grid 4R	BH3	0																											
Grid 4R	BH5	0																											
Grid 4R	BH7	0																											
Grid 4R	BH9	0																											
Grid 4R	BH10a	5	6.4	5.2	4.7	8.6	0.25																						
Grid 5	BH65	0																											
Grid 5	BH69	0																											
Grid 5	BH70	0																											
Grid 5	BH71	2			7.7	23																							
Grid 5	BH72	1				5																							
Grid 5	BH73	3		5	6	3																							
Grid 5	BH74	0																											
Grid 5	BH76	4	19	6.1	6.7	10																							
Grid 5	BH77	3		9	11	11																							
Grid 5	BH78	6		2.8	3.3				5.9	4.6	1.4	5.2																	
Grid 5	BH79	1				4.8																							
Grid 5	BH84	0																											
Grid 6	BH53	0																											
Grid 6	BH55	0																											
Grid 6	BH56	1				8																							
Grid 6	BH57	4	4.2	6.6	42.4	5																							
Grid 6	BH58	6	3	2	3	6	3.6	6.7																					
Grid 6	BH59	4	4	3	6	13																							
Grid 6	BH61	3		2.3	84	0.9																							
Grid 6	BH75	3		3.1		17	2.5																						
Grid 6	BH81	9	6.1	1.8	6.2	5.4	30	2.5	2	2.8	2.5																		
Grid 6	BH89	0																											
Grid 6	BH90	0																											
Grid 6	BH100	0																											
Grid 7R	BH31	0																											
Grid 7R	BH32	1							2.7																				
Grid 7R	BH33	0																											
Grid 7R	BH37	0																											
Grid 8R	BH10	0																											
Grid 8R	BH11	0																											
Grid 8R	BH15	0																											
Grid 8R	BH16	0																											
Grid 8R	BH30	0																											
Grid 9	BH54	0																											
Grid 9	BH62	0																											
Grid 9	BH63	0																											
Grid 9	BH64	0																											
Grid 9	BH66	0																											
Grid 9	BH68	9		9.1	41		3.1	2.6	2.2	10	6.6	1.2	1.6																
Grid 10	BH47	0																											
Grid 10	BH48	4	18	9	20	8.3																							
Grid 10	BH49	6	12		37		7.1	7.9		2.2	5																		
Grid 10	BH50	0																											
Grid 10	BH51	0																											
Grid 10	BH52	0																											
Grid 26	BH38	1				9.9																							
Grid 26	BH40	3	6	10	19.1																								
Grid 26	BH41	5	23	18	3	9.8		15																					
Grid 26	BH46	0																											
Grid 33R	BH36	0																											
Grid AR	BH39	3	11	17	11.7																								
Grid AR	BH43	2	4.9	5.5																									
Grid AR	BH45	0																											
Grid D	BH22	0																											
Grid D	BH27	0																											
Grid D	BH27a	6	5.2	4.7	5.7	10	17	1.7																					
Grid D	BH24	4	12	5.5		5.7	2.6																						
Grid D	BH25	0																											
Grid D	BH34	3	13.7	17.5	14.3																								
Grid 1	TB10	3																8.1	52	0.7									
Grid 1	TB10A	2																	6.5	8.4									
Grid 2	TB5	3																9.6	12.4	8.2									
Grid 2	TB7	3																4.1	0.9	0.6									
Grid 2	TB9	3																7	1.6	6.2									
Grid 4R	TB23	3																6.5	6.1	17.5									
Grid 5	TB11	3																8.9	1.2	4.7									
Grid 5	TB28	3																4.4	5.5	34.2									
Grid 6	TB4	3																4.2	6.6	42.4									
Grid 6	TB6	3																19.3	2.4	1.3									
Grid 6	TB8	3																4.2	1.5	12									

Grid 8R	TB27	3																5	3.7	19.2										
Grid 9	TB13	3																10.6	5.8	6.5										
Grid 10	TB3	2																	8.3	1.1										
Grid 10	TB12	3																6.5	1.7	1.8										
Grid 26	TB2	3																40.1	2.5	4.1										
Grid D	TB1	4																13.7	17.5	14.3	10.3									
Grid D	TB21	4																14.2	7.6	7.9	6.5									
Grid D	TB22	3																12.6	6.9	6.6										
Grid D	TB26	4																12.2	14.2	7.8	4.8									
Grid 4R	BD1	0																												
Grid 8R	BD2	0																												
Grid D	BD3	0																												
Grid D	BD4	0																												
Zone 2																														
Grid 11	BH170	9	34	12	24	9	52	5.6	7	4.8	4.7																			
Grid 12	BH172	9	5	3	13	25	11	33.7	21.6	23	7.4																			
Grid 13	BH171	6			11	12	0.25	2.1	3.1		6.6																			
Grid 14	BH173	7	45			4	6	16.9	9.8	4.9	10.4																			
Grid 15	BH135	4	5.5	3.4	2.7	5.1																								
Grid 15	BH136	0																												
Grid 15	BH137	0																												
Grid 15	BH142	0																												
Grid 15	BH143	9	14	5.3	3	4.4	4		5.6	3.8	3.2		6.4																	
Grid 15	BH144	0																												
Grid 15	BH145	0																												
Grid 15	BH150	2	3.7	5																										
Grid 16	BH146	2	6.7	8.3																										
Grid 16	BH147	2	7.3	5.6																										
Grid 16	BH148	6	14			7.5	9.9	4.9	16		3.8																			
Grid 16	BH149	2	11	16																										
Grid 16	BH177	1		7.9																										
Grid 26	BH42	1		9.2																										
Grid 26	BH44	0																												
Grid 26	BH154	3	16	4.3		7.4																								
Grid 27	BH153	0																												
Grid 27	BH156	9	10	7	10	10	14	6.3	4.6	13.4	2.5																			
Grid 28	BH158	9	21	17	7	4	7	25.4	3.7	6.9	2.7																			
Grid 33R	BH155	5	10	11	10	33	3																							
Grid 34	BH157	5	24	30	44	15	3																							
Grid 34	BH174	2	4.1	13																										
Grid 34	BH175	0																												
Grid 34	BH176	0																												
Grid 35	BH159	5	11	5	8	3	3																							
Grid 27	TB14	3																5.6	4.4	2.6										
Grid 27	TB24	4																11.7	9.5	13.3	11.4									
Zone 1B+1C																														
Grid 17	BH126	0																												
Grid 17	BH128	0																												
Grid 17	BH129	0																												
Grid 17	BH130	0																												
Grid 17	BH131	0																												
Grid 17	BH132	0																												
Grid 17	BH134	7		4	5.7	8.6		8	10	7.4	8.5																			
Grid 17	BH139	0																												
Grid 18	BH116	0																												
Grid 18	BH117	0																												
Grid 18	BH118	0																												
Grid 18	BH119	0																												
Grid 18	BH120	0																												
Grid 18	BH121	0																												
Grid 18	BH122	0																												
Grid 18	BH123	0																												
Grid 18	BH124	0																												
Grid 18	BH125	6	12	10	3.4	8.9					11	5.9																		
Grid 19	BH179	5		15		18	7.6	22	10																					
Grid 20	BH108	3	1.4	5.6	4.7																									
Grid 20	BH109	3	6.3	7.3	4.1																									
Grid 20	BH110	7	17	4.5	2.5	5.5	3.1			10	2.3																			
Grid 20	BH111	2	26		22.7																									
Grid 20	BH112	3	30	24	1.3																									
Grid 20	BH113	0																												
Grid 20	BH114	3	9.1	21	4.6																									
Grid 20	BH115	4	13	8.3	4.5	8.1																								
Grid 21	BH178	7	14	4	6	10		3.7	5.1	4																				
Grid 22	BH151	2	600	8.6																										
Grid C	BH133	8	13	8	9.9		9.4		8.9	6.2	4.3	2.9																		
Grid 15	TB16	3																16.4	24.3	13.7										
Grid 15	TB30	3																10.9	1.1	3.3										
Grid 16	TB15	3																33.5	6.6	14.5										
Grid 17	TB17	3																6.7	6.7	1.5										
Grid 17	TB19	3																7.1	6	9.6										
Grid 18	TB18	3																4.2	2.5	8.9										
Grid 18	TB29	5																11	5.7	5.8	9.2	6.3								
Grid 20	TB20	3																33.5	1.5	9.5										

Zone	1A+3	1B+1C	2
Average Concentrations (mg/kg)	8.82	16.29	10.67

Barium

Grid	Depth (m)	Counter	0.5	1.5	3	4.5	6	7.5	9	10.5	12	13.5	15	16.5	18	19.5	21	D1	D2	D3	D4	D5	0.0M-0.5M	0.5M-1.5M	1.5M-3.0M	3.0M-4.5M	4.5M-6.0M	6.0M-7.5M	7.5M-9.0M
Zone 1A+3																													
Grid 1	BH82	7	35	130						7.9	11	14	11	45															
Grid 1	BH83	0																											
Grid 1	BH85	0																											
Grid 1	BH86	0																											
Grid 2	BH88	0																											
Grid 2	BH91	0																											
Grid 2	BH92	0																											
Grid 2	BH93	0																											
Grid 2	BH94	0																											
Grid 2	BH95	0																											
Grid 2	BH97	0																											
Grid 2	BH99	9	56	17	34	110		18	12	11	37		62																
Grid 3R	BH8	5	130	100	130	54		9.8																					
Grid 3R	BH96	0																											
Grid 4R	BH1	0																											
Grid 4R	BH3	0																											
Grid 4R	BH5	0																											
Grid 4R	BH7	0																											
Grid 4R	BH9	0																											
Grid 4R	BH10a	5	150	180	150	41	140																						
Grid 5	BH65	0																											
Grid 5	BH69	0																											
Grid 5	BH70	0																											
Grid 5	BH71	0																											
Grid 5	BH72	0																											
Grid 5	BH73	0																											
Grid 5	BH74	0																											
Grid 5	BH76	0																											
Grid 5	BH77	0																											
Grid 5	BH78	6		36	55				23	12	7.8	12																	
Grid 5	BH79	0																											
Grid 5	BH84	0																											
Grid 6	BH53	0																											
Grid 6	BH55	0																											
Grid 6	BH56	0																											
Grid 6	BH57	0																											
Grid 6	BH58	0																											
Grid 6	BH59	0																											
Grid 6	BH61	0																											
Grid 6	BH75	0																											
Grid 6	BH81	9	54	50	64	80	43	43	68	24	10																		
Grid 6	BH89	0																											
Grid 6	BH90	0																											
Grid 6	BH100	0																											
Grid 7R	BH31	0																											
Grid 7R	BH32	1							14																				
Grid 7R	BH33	0																											
Grid 7R	BH37	0																											
Grid 8R	BH10	0																											
Grid 8R	BH11	0																											
Grid 8R	BH15	0																											
Grid 8R	BH16	0																											
Grid 8R	BH30	0																											
Grid 9	BH54	0																											
Grid 9	BH62	0																											
Grid 9	BH63	0																											
Grid 9	BH64	0																											
Grid 9	BH66	0																											
Grid 9	BH68	9		110	21		20	140	25	82	71	29	80																
Grid 10	BH47	0																											
Grid 10	BH48	0																											
Grid 10	BH49	6	110		180		240	190		12	31																		
Grid 10	BH50	0																											
Grid 10	BH51	0																											
Grid 10	BH52	0																											
Grid 26	BH38	0																											
Grid 26	BH40	0																											
Grid 26	BH41	0																											
Grid 26	BH46	0																											
Grid 33R	BH36	0																											
Grid AR	BH39	0																											
Grid AR	BH43	0																											
Grid AR	BH45	0																											
Grid D	BH22	0																											
Grid D	BH27	0																											
Grid D	BH27a	6	85	67	130	34	100	56																					
Grid D	BH24	4	45	1.2		260	13																						
Grid D	BH25	0																											
Grid D	BH34	0																											
Grid 1	TB10	0																											
Grid 1	TB10A	0																											
Grid 2	TB5	0																											
Grid 2	TB7	0																											
Grid 2	TB9	0																											
Grid 4R	TB23	0																											
Grid 5	TB11	0																											
Grid 5	TB28	0																											
Grid 6	TB4	0																											
Grid 6	TB6	0																											
Grid 6	TB8	0																											

Grid 8R	TB27	0																												
Grid 9	TB13	0																												
Grid 10	TB3	0																												
Grid 10	TB12	0																												
Grid 26	TB2	0																												
Grid D	TB1	0																												
Grid D	TB21	0																												
Grid D	TB22	0																												
Grid D	TB26	0																												
Grid 4R	BD1	0																												
Grid 8R	BD2	0																												
Grid D	BD3	0																												
Grid D	BD4	0																												
Zone 2																														
Grid 11	BH170	9	902	209	265	188	690	45.4	108	59.9	44.4																			
Grid 12	BH172	9	56	71	203	137	112	149	92	90.4	40.3																			
Grid 13	BH171	6			275	29	40	80.1	26		77.4																			
Grid 14	BH173	7	221			30	54	286	159	39.2	156																			
Grid 15	BH135	2		21	24																									
Grid 15	BH136	0																												
Grid 15	BH137	0																												
Grid 15	BH142	0																												
Grid 15	BH143	9	210	81	160	65	100		78	67	94		160																	
Grid 15	BH144	0																												
Grid 15	BH145	0																												
Grid 15	BH150	0																												
Grid 16	BH146	0																												
Grid 16	BH147	0																												
Grid 16	BH148	6	130			1.2	200	170	100		200																			
Grid 16	BH149	0																												
Grid 16	BH177	0																												
Grid 26	BH42	0																												
Grid 26	BH44	0																												
Grid 26	BH154	3	150	11		22																								
Grid 27	BH153	0																												
Grid 27	BH156	9	112	200	113	74	127	56	17.3	14.8	36.9																			
Grid 28	BH158	9	84	43	81	67	55	180	24.5	21.3	20.6																			
Grid 33R	BH155	5	177	109	120	89	398																							
Grid 34	BH157	5	174	77	152	87	183																							
Grid 34	BH174	2	96	34																										
Grid 34	BH175	0																												
Grid 34	BH176	0																												
Grid 35	BH159	5	116	90	87	44	54																							
Grid 27	TB14	0																												
Grid 27	TB24	0																												
Zone 1B+1C																														
Grid 17	BH126	0																												
Grid 17	BH128	0																												
Grid 17	BH129	0																												
Grid 17	BH130	0																												
Grid 17	BH131	0																												
Grid 17	BH132	0																												
Grid 17	BH134	7		260	96	92		280	82	87	250																			
Grid 17	BH139	0																												
Grid 18	BH116	0																												
Grid 18	BH117	0																												
Grid 18	BH118	0																												
Grid 18	BH119	0																												
Grid 18	BH120	0																												
Grid 18	BH121	0																												
Grid 18	BH122	0																												
Grid 18	BH123	0																												
Grid 18	BH124	0																												
Grid 18	BH125	6	120	66	64	150					180	41																		
Grid 19	BH179	5		81		140	51	220	210																					
Grid 20	BH108	0																												
Grid 20	BH109	0																												
Grid 20	BH110	7	370	130	8.1	49	52			330	18																			
Grid 20	BH111	0																												
Grid 20	BH112	0																												
Grid 20	BH113	0																												
Grid 20	BH114	0																												
Grid 20	BH115	0																												
Grid 21	BH178	7	530	63	200	84		110	110	36																				
Grid 22	BH151	0																												
Grid C	BH133	8	150	45	280		96		88	85	23	20																		
Grid 15	TB16	0																												
Grid 15	TB30	0																												
Grid 16	TB15	0																												
Grid 17	TB17	0																												
Grid 17	TB19	0																												
Grid 18	TB18	0																												
Grid 18	TB29	0																												
Grid 20	TB20	0																												

	Zone	1A+3	1B+1C	2
Average Concentrations (mg/kg)		66.03	133.68	120.86

Cadmium

Grid	Depth (m)	Counter	0.5	1.5	3	4.5	6	7.5	9	10.5	12	13.5	15	16.5	18	19.5	21	D1	D2	D3	D4	D5	0.0M-0.5M	0.5M-1.5M	1.5M-3.0M	3.0M-4.5M	4.5M-6.0M	6.0M-7.5M	7.5M-9.0M
Zone 1A+3																													
Grid 1	BH82	7	0.2	0.09						0.04	0.03	0.07	0.04	0.06															
Grid 1	BH83	0																											
Grid 1	BH85	2	19	0.8																									
Grid 1	BH86	1	0.6																										
Grid 2	BH88	0																											
Grid 2	BH91	0																											
Grid 2	BH92	2	0.3	0.4																									
Grid 2	BH93	0																											
Grid 2	BH94	0																											
Grid 2	BH95	0																											
Grid 2	BH97	0																											
Grid 2	BH99	9	0.04	0.02	0.1	0.1		0.07	0.07	0.03	0.05		0.04																
Grid 3R	BH8	5	0.4	0.4	0.08	0.09		1																					
Grid 3R	BH96	0																											
Grid 4R	BH1	0																											
Grid 4R	BH3	0																											
Grid 4R	BH5	0																											
Grid 4R	BH7	0																											
Grid 4R	BH9	0																											
Grid 4R	BH10a	5	0.3	0.4	0.2	0.1	0.4																						
Grid 5	BH65	0																											
Grid 5	BH69	0																											
Grid 5	BH70	4	11.5	0.03	0.01	2.8																							
Grid 5	BH71	2			0.7	0.4																							
Grid 5	BH72	1				0.2																							
Grid 5	BH73	3		56	11	2.6																							
Grid 5	BH74	2		38.3		0.01																							
Grid 5	BH76	4	62	35	0.3	0.1																							
Grid 5	BH77	3		0.9	1	0.01																							
Grid 5	BH78	6		0.4	1.5				0.1	0.04	0.09	0.1																	
Grid 5	BH79	1				0.1																							
Grid 5	BH84	0																											
Grid 6	BH53	2	1.2	0.4																									
Grid 6	BH55	0																											
Grid 6	BH56	0																											
Grid 6	BH57	0																											
Grid 6	BH58	0																											
Grid 6	BH59	0																											
Grid 6	BH61	0																											
Grid 6	BH75	3		0.04		0.1	0.1																						
Grid 6	BH81	9	0.2	0.2	0.1	6.7	0.3	0.1	0.2	0.1	0.1																		
Grid 6	BH89	0																											
Grid 6	BH90	0																											
Grid 6	BH100	0																											
Grid 7R	BH31	0																											
Grid 7R	BH32	1							0.6																				
Grid 7R	BH33	3				1.5	0.1	0.1																					
Grid 7R	BH37	0																											
Grid 8R	BH10	0																											
Grid 8R	BH11	0																											
Grid 8R	BH15	0																											
Grid 8R	BH16	0																											
Grid 8R	BH30	0																											
Grid 9	BH54	0																											
Grid 9	BH62	0																											
Grid 9	BH63	0																											
Grid 9	BH64	0																											
Grid 9	BH66	0																											
Grid 9	BH68	9		1	0.05		0.07	0.2	0.1	0.2	0.2	1	0.06																
Grid 10	BH47	0																											
Grid 10	BH48	0																											
Grid 10	BH49	6	0.9		0.3		0.3	0.3		0.06	0.6																		
Grid 10	BH50	3	10.3	1.4			0.35																						
Grid 10	BH51	6			0.36	0.24	0.12		0.2	0.26	0.03																		
Grid 10	BH52	2	0.01	0.01																									
Grid 26	BH38	2				0.1		0.3																					
Grid 26	BH40	0																											
Grid 26	BH41	0																											
Grid 26	BH46	0																											
Grid 33R	BH36	4	15	1.5	0.3	0.1																							
Grid AR	BH39	0																											
Grid AR	BH43	0																											
Grid AR	BH45	0																											
Grid D	BH22	0																											
Grid D	BH27	0																											
Grid D	BH27a	6	0.7	0.2	0.3	0.3	0.4	0.2																					
Grid D	BH24	4	0.1	0.1		0.1	0.06																						
Grid D	BH25	1				0.4																							
Grid D	BH34	5	19.3	6.77	0.17	0.03		0.03																					
Grid 1	TB10	3																16.6	140	0.33									
Grid 1	TB10A	2																	0.23	0.03									
Grid 2	TB5	3																0.17	0.18	0.24									
Grid 2	TB7	3																0.6	0.06	0.05									
Grid 2	TB9	3																0.55	0.04	0.18									
Grid 4R	TB23	3																0.18	0.11	0.14									
Grid 5	TB11	3																11.5	0.03	0.01									
Grid 5	TB28	3																9.53	0.72	1.07									
Grid 6	TB4	3																0.14	0.38	0.17									
Grid 6	TB6	3																0.27	0.03	0.01									
Grid 6	TB8	3																0.08	0.02	0.14									

Grid 8R	TB27	3																0.06	0.07	1.05									
Grid 9	TB13	3																0.1	0.17	1.23									
Grid 10	TB3	2																	0.76	0.01									
Grid 10	TB12	3																15.7	0.05	0.05									
Grid 26	TB2	3																1.83	0.11	0.08									
Grid D	TB1	4																19.3	6.77	2.13	0.17								
Grid D	TB21	4																3.51	0.11	0.1	0.09								
Grid D	TB22	3																0.34	0.04	0.15									
Grid D	TB26	4																0.35	0.24	0.65	0.02								
Grid 4R	BD1	7																					1.4	0.3	0.2	0.4	0.2	0.2	0.2
Grid 8R	BD2	6																					0.4	1	0.5		0.2	0.2	0.3
Grid D	BD3	7																					0.2	0.4	0.2	0.2	0.2	0.2	0.2
Grid D	BD4	7																					1.5	0.6	1.5	0.5	0.2	0.2	0.2
Zone 2																													
Grid 11	BH170	9	5	7.2	1.7	0.7	1.4	0.14	0.51	0.11	0.06																		
Grid 12	BH172	9	0.01	0.01	0.9	1.2	0.3	0.2	0.06	0.14	0.07																		
Grid 13	BH171	6			0.4	0.01	0.01	0.05	0.05		0.22																		
Grid 14	BH173	7	1.1			0.01	0.5	0.4	0.19	0.03	0.23																		
Grid 15	BH135	4	0.4	0.1	0.2	0.1																							
Grid 15	BH136	0																											
Grid 15	BH137	0																											
Grid 15	BH142	0																											
Grid 15	BH143	9	1.1	0.3	0.1	0.4	0.1		0.1	0.1	0.1		0.2																
Grid 15	BH144	0																											
Grid 15	BH145	0																											
Grid 15	BH150	0																											
Grid 16	BH146	0																											
Grid 16	BH147	0																											
Grid 16	BH148	6	0.8			0.3	0.3	0.2	0.3		0.2																		
Grid 16	BH149	0																											
Grid 16	BH177	0																											
Grid 26	BH42	0																											
Grid 26	BH44	0																											
Grid 26	BH154	3	0.2	0.04		0.1																							
Grid 27	BH153	0																											
Grid 27	BH156	9	0.8	0.01	0.01	0.5	0.3	0.16	0.04	0.06	0.01																		
Grid 28	BH158	9	0.01	0.01	0.5	0.01	0.01	0.75	0.06	0.03	0.05																		
Grid 33R	BH155	5	1	0.3	0.3	1	0.01																						
Grid 34	BH157	5	0.5	0.8	6.2	0.5	0.01																						
Grid 34	BH174	2	0.3	0.04																									
Grid 34	BH175	0																											
Grid 34	BH176	0																											
Grid 35	BH159	5	0.3	0.01	0.2	0.01	0.01																						
Grid 27	TB14	3																0.1	0.02	0.02									
Grid 27	TB24	4																0.42	0.36	0.41	0.23								
Zone 1B+1C																													
Grid 17	BH126	0																											
Grid 17	BH128	0																											
Grid 17	BH129	0																											
Grid 17	BH130	0																											
Grid 17	BH131	0																											
Grid 17	BH132	0																											
Grid 17	BH134	7		0.1	0.1	0.4		0.2	0.2	0.1	0.6																		
Grid 17	BH139	0																											
Grid 18	BH116	0																											
Grid 18	BH117	0																											
Grid 18	BH118	0																											
Grid 18	BH119	0																											
Grid 18	BH120	0																											
Grid 18	BH121	0																											
Grid 18	BH122	0																											
Grid 18	BH123	0																											
Grid 18	BH124	0																											
Grid 18	BH125	6	0.6	0.2	0.2	0.3					0.5	0.2																	
Grid 19	BH179	5		3.7		0.8	0.1	0.5	0.3																				
Grid 20	BH108	3	0.1	0.2	0.1																								
Grid 20	BH109	3	0.4	0.1	0.1																								
Grid 20	BH110	7	0.7	0.1	0.1	0.2	0.1			1.2	3.5																		
Grid 20	BH111	2	1.9		1.84																								
Grid 20	BH112	0																											
Grid 20	BH113	0																											
Grid 20	BH114	0																											
Grid 20	BH115	0																											
Grid 21	BH178	7	0.6	0.5	0.2	0.1		0.3	0.4	0.2																			
Grid 22	BH151	0																											
Grid C	BH133	8	1.2	0.1	0.8		0.2		0.2	0.2	0.09	0.09																	
Grid 15	TB16	3																2.69	0.25	0.08									
Grid 15	TB30	3																0.3	0.09	0.03									
Grid 16	TB15	3																2.78	0.19	0.06									
Grid 17	TB17	3																0.33	0.31	0.04									
Grid 17	TB19	3																0.49	0.36	0.4									
Grid 18	TB18	3																0.32	0.08	0.14									
Grid 18	TB29	5																0.77	0.02	0.23	0.74	0.2							
Grid 20	TB20	3																5.23	0.04	0.02									

Zone	1A+3	1B+1C	2
Average Concentrations (mg/kg)	2.74	0.56	0.47

Cobalt

Grid	Depth (m)	Counter	0.5	1.5	3	4.5	6	7.5	9	10.5	12	13.5	15	16.5	18	19.5	21	D1	D2	D3	D4	D5	0.0M-0.5M	0.5M-1.5M	1.5M-3.0M	3.0M-4.5M	4.5M-6.0M	6.0M-7.5M	7.5M-9.0M
Zone 1A+3																													
Grid 1	BH82	7	1.6	1.7						1.2	1.2	4.1	1.6	1.7															
Grid 1	BH83	0																											
Grid 1	BH85	0																											
Grid 1	BH86	0																											
Grid 2	BH88	0																											
Grid 2	BH91	0																											
Grid 2	BH92	0																											
Grid 2	BH93	0																											
Grid 2	BH94	0																											
Grid 2	BH95	0																											
Grid 2	BH97	0																											
Grid 2	BH99	9	2.2	1.5	2	6.9		1.8	2.3	1	0.6		6																
Grid 3R	BH8	5	3.1	2.5	5.4	1.5		0.25																					
Grid 3R	BH96	0																											
Grid 4R	BH1	0																											
Grid 4R	BH3	0																											
Grid 4R	BH5	0																											
Grid 4R	BH7	0																											
Grid 4R	BH9	0																											
Grid 4R	BH10a	5	3.5	8.4	5	3.1	5.2																						
Grid 5	BH65	0																											
Grid 5	BH69	0																											
Grid 5	BH70	0																											
Grid 5	BH71	0																											
Grid 5	BH72	0																											
Grid 5	BH73	0																											
Grid 5	BH74	0																											
Grid 5	BH76	0																											
Grid 5	BH77	0																											
Grid 5	BH78	6		2.3	1.9				3	0.8	1	4.1																	
Grid 5	BH79	0																											
Grid 5	BH84	0																											
Grid 6	BH53	0																											
Grid 6	BH55	0																											
Grid 6	BH56	0																											
Grid 6	BH57	0																											
Grid 6	BH58	0																											
Grid 6	BH59	0																											
Grid 6	BH61	0																											
Grid 6	BH75	0																											
Grid 6	BH81	9	2.2	2.5	3.3	8.1	1.2	1.9	1.9	2.3	1.2																		
Grid 6	BH89	0																											
Grid 6	BH90	0																											
Grid 6	BH100	0																											
Grid 7R	BH31	0																											
Grid 7R	BH32	1							3.7																				
Grid 7R	BH33	0																											
Grid 7R	BH37	0																											
Grid 8R	BH10	0																											
Grid 8R	BH11	0																											
Grid 8R	BH15	0																											
Grid 8R	BH16	0																											
Grid 8R	BH30	0																											
Grid 9	BH54	0																											
Grid 9	BH62	0																											
Grid 9	BH63	0																											
Grid 9	BH64	0																											
Grid 9	BH66	0																											
Grid 9	BH68	9		56	2.1		1.6	10	1.5	6.4	2.5	3	5.1																
Grid 10	BH47	0																											
Grid 10	BH48	0																											
Grid 10	BH49	6	2.2		7.9		3.1	4.8		3.7	6.9																		
Grid 10	BH50	0																											
Grid 10	BH51	0																											
Grid 10	BH52	0																											
Grid 26	BH38	0																											
Grid 26	BH40	0																											
Grid 26	BH41	0																											
Grid 26	BH46	0																											
Grid 33R	BH36	0																											
Grid AR	BH39	0																											
Grid AR	BH43	0																											
Grid AR	BH45	0																											
Grid D	BH22	0																											
Grid D	BH27	0																											
Grid D	BH27a	6	2.5	1.6	3	2.3	6.1	2.1																					
Grid D	BH24	4	1.7	1		4.8	3.8																						
Grid D	BH25	0																											
Grid D	BH34	0																											
Grid 1	TB10	0																											
Grid 1	TB10A	0																											
Grid 2	TB5	0																											
Grid 2	TB7	0																											
Grid 2	TB9	0																											
Grid 4R	TB23	0																											
Grid 5	TB11	0																											
Grid 5	TB28	0																											
Grid 6	TB4	0																											
Grid 6	TB6	0																											
Grid 6	TB8	0																											

Grid 8R	TB27	0																												
Grid 9	TB13	0																												
Grid 10	TB3	0																												
Grid 10	TB12	0																												
Grid 26	TB2	0																												
Grid D	TB1	0																												
Grid D	TB21	0																												
Grid D	TB22	0																												
Grid D	TB26	0																												
Grid 4R	BD1	0																												
Grid 8R	BD2	0																												
Grid D	BD3	0																												
Grid D	BD4	0																												
Zone 2																														
Grid 11	BH170	9	9	4	6	4	12	2.7	3	4.3	1.9																			
Grid 12	BH172	9	3	2	4	6	4	14.9	6.4	6.1	2.7																			
Grid 13	BH171	6			4	3	1	2.8	6.4		4.1																			
Grid 14	BH173	7	12			2	3	10.1	3.7	1.6	6.8																			
Grid 15	BH135	2		0.9	4.3																									
Grid 15	BH136	0																												
Grid 15	BH137	0																												
Grid 15	BH142	0																												
Grid 15	BH143	9	9.7	3.8	4	4.2	8.3		8.5	3.9	9.4		6.8																	
Grid 15	BH144	0																												
Grid 15	BH145	0																												
Grid 15	BH150	0																												
Grid 16	BH146	0																												
Grid 16	BH147	0																												
Grid 16	BH148	6	5.4			0.8	3.6	2.5	4.7		7.7																			
Grid 16	BH149	0																												
Grid 16	BH177	0																												
Grid 26	BH42	0																												
Grid 26	BH44	0																												
Grid 26	BH154	3	3	0.5		6.9																								
Grid 27	BH153	0																												
Grid 27	BH156	9	4	2	3	2	8	3.4	1.5	4.2	3.2																			
Grid 28	BH158	9	3	2	3	2	7	8.9	2.1	5.3	1.9																			
Grid 33R	BH155	5	5	4	8	7	2																							
Grid 34	BH157	5	6	2	13	4	2																							
Grid 34	BH174	2	32	1.9																										
Grid 34	BH175	0																												
Grid 34	BH176	0																												
Grid 35	BH159	5	3	3	6	2	4																							
Grid 27	TB14	0																												
Grid 27	TB24	0																												
Zone 1B+1C																														
Grid 17	BH126	0																												
Grid 17	BH128	0																												
Grid 17	BH129	0																												
Grid 17	BH130	0																												
Grid 17	BH131	0																												
Grid 17	BH132	0																												
Grid 17	BH134	7		4.8	1.8	5.3		2.2	2	1.4	1.8																			
Grid 17	BH139	0																												
Grid 18	BH116	0																												
Grid 18	BH117	0																												
Grid 18	BH118	0																												
Grid 18	BH119	0																												
Grid 18	BH120	0																												
Grid 18	BH121	0																												
Grid 18	BH122	0																												
Grid 18	BH123	0																												
Grid 18	BH124	0																												
Grid 18	BH125	6	5.8	2.8	1.9	4.1					5.8	3.1																		
Grid 19	BH179	5		3.6		5.2	3	4.6	6.4																					
Grid 20	BH108	0																												
Grid 20	BH109	0																												
Grid 20	BH110	7	13	1.7	1.2	12	2.2			14	4.2																			
Grid 20	BH111	0																												
Grid 20	BH112	0																												
Grid 20	BH113	0																												
Grid 20	BH114	0																												
Grid 20	BH115	0																												
Grid 21	BH178	7	6	3.6	5.7	1.2		2.5	3.6	2.9																				
Grid 22	BH151	0																												
Grid C	BH133	8	6.4	1.7	4.2		5.4		5.9	6.1	3.8	6.4																		
Grid 15	TB16	0																												
Grid 15	TB30	0																												
Grid 16	TB15	0																												
Grid 17	TB17	0																												
Grid 17	TB19	0																												
Grid 18	TB18	0																												
Grid 18	TB29	0																												
Grid 20	TB20	0																												

Zone	1A+3	1B+1C	2
Average Concentrations (mg/kg)	3.92	4.48	4.96

Chromium (III)

Grid	Depth (m)	Counter	0.5	1.5	3	4.5	6	7.5	9	10.5	12	13.5	15	16.5	18	19.5	21	D1	D2	D3	D4	D5	0.0M-0.5M	0.5M-1.5M	1.5M-3.0M	3.0M-4.5M	4.5M-6.0M	6.0M-7.5M	7.5M-9.0M
Zone 1A+3																													
Grid 1	BH82	0																											
Grid 1	BH83	0																											
Grid 1	BH85	0																											
Grid 1	BH86	0																											
Grid 2	BH88	0																											
Grid 2	BH91	0																											
Grid 2	BH92	0																											
Grid 2	BH93	0																											
Grid 2	BH94	0																											
Grid 2	BH95	0																											
Grid 2	BH97	0																											
Grid 2	BH99	0																											
Grid 3R	BH8	0																											
Grid 3R	BH96	0																											
Grid 4R	BH1	0																											
Grid 4R	BH3	0																											
Grid 4R	BH5	0																											
Grid 4R	BH7	0																											
Grid 4R	BH9	0																											
Grid 4R	BH10a	0																											
Grid 5	BH65	0																											
Grid 5	BH69	0																											
Grid 5	BH70	0																											
Grid 5	BH71	0																											
Grid 5	BH72	0																											
Grid 5	BH73	0																											
Grid 5	BH74	0																											
Grid 5	BH76	0																											
Grid 5	BH77	0																											
Grid 5	BH78	0																											
Grid 5	BH79	0																											
Grid 5	BH84	0																											
Grid 6	BH53	0																											
Grid 6	BH55	0																											
Grid 6	BH56	0																											
Grid 6	BH57	0																											
Grid 6	BH58	0																											
Grid 6	BH59	0																											
Grid 6	BH61	0																											
Grid 6	BH75	0																											
Grid 6	BH81	0																											
Grid 6	BH89	0																											
Grid 6	BH90	0																											
Grid 6	BH100	0																											
Grid 7R	BH31	0																											
Grid 7R	BH32	0																											
Grid 7R	BH33	0																											
Grid 7R	BH37	0																											
Grid 8R	BH10	0																											
Grid 8R	BH11	0																											
Grid 8R	BH15	0																											
Grid 8R	BH16	0																											
Grid 8R	BH30	0																											
Grid 9	BH54	0																											
Grid 9	BH62	0																											
Grid 9	BH63	0																											
Grid 9	BH64	0																											
Grid 9	BH66	0																											
Grid 9	BH68	0																											
Grid 10	BH47	0																											
Grid 10	BH48	0																											
Grid 10	BH49	0																											
Grid 10	BH50	0																											
Grid 10	BH51	0																											
Grid 10	BH52	0																											
Grid 26	BH38	0																											
Grid 26	BH40	0																											
Grid 26	BH41	0																											
Grid 26	BH46	0																											
Grid 33R	BH36	0																											
Grid AR	BH39	0																											
Grid AR	BH43	0																											
Grid AR	BH45	0																											
Grid D	BH22	0																											
Grid D	BH27	0																											
Grid D	BH27a	0																											
Grid D	BH24	0																											
Grid D	BH25	0																											
Grid D	BH34	0																											
Grid 1	TB10	3																136	118	11									
Grid 1	TB10A	2																	6.21	8.1									
Grid 2	TB5	3																6.96	15.2	9.18									
Grid 2	TB7	3																9.26	0.92	1.64									
Grid 2	TB9	3																11	1.45	7.14									
Grid 4R	TB23	3																5.8	10.6	12.3									
Grid 5	TB11	3																80.9	1.91	1.85									
Grid 5	TB28	3																191	8.48	40.8									
Grid 6	TB4	3																5.34	10.3	13.5									
Grid 6	TB6	3																11.1	2.4	1.29									
Grid 6	TB8	3																4.11	1.3	5.89									

Grid 8R	TB27	3																3.98	3.95	13.6										
Grid 9	TB13	3																0.4	5.29	11.5										
Grid 10	TB3	2																	21.6	2.39										
Grid 10	TB12	3																40.3	2.59	1.72										
Grid 26	TB2	3																26.5	9.17	10.3										
Grid D	TB1	4																28	43	13.4	7.02									
Grid D	TB21	4																14.4	1.93	3.58	0.82									
Grid D	TB22	3																8.07	3.59	11										
Grid D	TB26	4																10.8	4.82	5.57	3.4									
Grid 4R	BD1	7																					16	9	5	4	2	3	3	
Grid 8R	BD2	6																					17	19	11		4	2	2	
Grid D	BD3	7																					2	6	27	4	15	3	3	
Grid D	BD4	7																					20	4	11	19	3	3	3	
Zone 2																														
Grid 11	BH170	0																												
Grid 12	BH172	0																												
Grid 13	BH171	0																												
Grid 14	BH173	0																												
Grid 15	BH135	0																												
Grid 15	BH136	0																												
Grid 15	BH137	0																												
Grid 15	BH142	0																												
Grid 15	BH143	0																												
Grid 15	BH144	0																												
Grid 15	BH145	0																												
Grid 15	BH150	0																												
Grid 16	BH146	0																												
Grid 16	BH147	0																												
Grid 16	BH148	0																												
Grid 16	BH149	0																												
Grid 16	BH177	0																												
Grid 26	BH42	0																												
Grid 26	BH44	0																												
Grid 26	BH154	0																												
Grid 27	BH153	0																												
Grid 27	BH156	0																												
Grid 28	BH158	0																												
Grid 33R	BH155	0																												
Grid 34	BH157	0																												
Grid 34	BH174	0																												
Grid 34	BH175	0																												
Grid 34	BH176	0																												
Grid 35	BH159	0																												
Grid 27	TB14	3																3.52	3.59	1.91										
Grid 27	TB24	4																8.24	4.36	7.54	7									
Zone 1B+1C																														
Grid 17	BH126	0																												
Grid 17	BH128	0																												
Grid 17	BH129	0																												
Grid 17	BH130	0																												
Grid 17	BH131	0																												
Grid 17	BH132	0																												
Grid 17	BH134	0																												
Grid 17	BH139	0																												
Grid 18	BH116	0																												
Grid 18	BH117	0																												
Grid 18	BH118	0																												
Grid 18	BH119	0																												
Grid 18	BH120	0																												
Grid 18	BH121	0																												
Grid 18	BH122	0																												
Grid 18	BH123	0																												
Grid 18	BH124	0																												
Grid 18	BH125	0																												
Grid 19	BH179	0																												
Grid 20	BH108	0																												
Grid 20	BH109	0																												
Grid 20	BH110	0																												
Grid 20	BH111	0																												
Grid 20	BH112	0																												
Grid 20	BH113	0																												
Grid 20	BH114	0																												
Grid 20	BH115	0																												
Grid 21	BH178	0																												
Grid 22	BH151	0																												
Grid C	BH133	0																												
Grid 15	TB16	3																19.5	4.62	5.59										
Grid 15	TB30	3																9.17	0.31	1.3										
Grid 16	TB15	3																21.2	12.9	4.6										
Grid 17	TB17	3																10.4	15.1	1.1										
Grid 17	TB19	3																11.7	8.26	7.97										
Grid 18	TB18	3																3.37	2.44	11.1										
Grid 18	TB29	5																17.9	0.33	8.9	14.1	7.88								
Grid 20	TB20	3																35.6	2.83	3										

Zone	1A+3	1B+1C	2
Average Concentrations (mg/kg)	14.59	9.28	5.17

Chromium (VI)

Grid	Depth (m)	Counter	0.5	1.5	3	4.5	6	7.5	9	10.5	12	13.5	15	16.5	18	19.5	21	D1	D2	D3	D4	D5	0.0M-0.5M	0.5M-1.5M	1.5M-3.0M	3.0M-4.5M	4.5M-6.0M	6.0M-7.5M	7.5M-9.0M
Zone 1A+3																													
Grid 1	BH82	7	5.7	4.6						2.9	7.3	12	5.3	4.7															
Grid 1	BH83	0																											
Grid 1	BH85	0																											
Grid 1	BH86	0																											
Grid 2	BH88	0																											
Grid 2	BH91	0																											
Grid 2	BH92	0																											
Grid 2	BH93	0																											
Grid 2	BH94	0																											
Grid 2	BH95	0																											
Grid 2	BH97	0																											
Grid 2	BH99	9	1.4	1.9	4.8	4.2		5.2	6.4	2.2	0.5		1.3																
Grid 3R	BH8	5	6.9	5.3	2.9	4.7		1.2																					
Grid 3R	BH96	0																											
Grid 4R	BH1	0																											
Grid 4R	BH3	0																											
Grid 4R	BH5	0																											
Grid 4R	BH7	0																											
Grid 4R	BH9	0																											
Grid 4R	BH10a	5	5.5	2	3.4	8	0.3																						
Grid 5	BH65	0																											
Grid 5	BH69	0																											
Grid 5	BH70	0																											
Grid 5	BH71	0																											
Grid 5	BH72	0																											
Grid 5	BH73	0																											
Grid 5	BH74	0																											
Grid 5	BH76	0																											
Grid 5	BH77	0																											
Grid 5	BH78	6		6.9	15				3.8	7.6	4	15																	
Grid 5	BH79	0																											
Grid 5	BH84	0																											
Grid 6	BH53	0																											
Grid 6	BH55	0																											
Grid 6	BH56	0																											
Grid 6	BH57	0																											
Grid 6	BH58	0																											
Grid 6	BH59	0																											
Grid 6	BH61	0																											
Grid 6	BH75	0																											
Grid 6	BH81	9	6.3	1.4	1.7	8.4	4	1.8	5.6	3.8	2.4																		
Grid 6	BH89	0																											
Grid 6	BH90	0																											
Grid 6	BH100	0																											
Grid 7R	BH31	0																											
Grid 7R	BH32	1							6.7																				
Grid 7R	BH33	0																											
Grid 7R	BH37	0																											
Grid 8R	BH10	0																											
Grid 8R	BH11	0																											
Grid 8R	BH15	0																											
Grid 8R	BH16	0																											
Grid 8R	BH30	0																											
Grid 9	BH54	0																											
Grid 9	BH62	0																											
Grid 9	BH63	0																											
Grid 9	BH64	0																											
Grid 9	BH66	0																											
Grid 9	BH68	9		59	7.5		4.5	27	5.9	12	7.8	1.6	0.4																
Grid 10	BH47	0																											
Grid 10	BH48	0																											
Grid 10	BH49	6	18		19		5.5	16		10	1.8																		
Grid 10	BH50	0																											
Grid 10	BH51	0																											
Grid 10	BH52	0																											
Grid 26	BH38	0																											
Grid 26	BH40	0																											
Grid 26	BH41	0																											
Grid 26	BH46	0																											
Grid 33R	BH36	0																											
Grid AR	BH39	0																											
Grid AR	BH43	0																											
Grid AR	BH45	0																											
Grid D	BH22	0																											
Grid D	BH27	0																											
Grid D	BH27a	6	53	3.8	12	4.5	2.6	1.2																					
Grid D	BH24	4	5.5	3.3		12	3.7																						
Grid D	BH25	0																											
Grid D	BH34	0																											
Grid 1	TB10	0																											
Grid 1	TB10A	0																											
Grid 2	TB5	0																											
Grid 2	TB7	0																											
Grid 2	TB9	0																											
Grid 4R	TB23	0																											
Grid 5	TB11	0																											
Grid 5	TB28	0																											
Grid 6	TB4	0																											
Grid 6	TB6	0																											
Grid 6	TB8	0																											

Grid 8R	TB27	0																										
Grid 9	TB13	0																										
Grid 10	TB3	0																										
Grid 10	TB12	0																										
Grid 26	TB2	0																										
Grid D	TB1	0																										
Grid D	TB21	0																										
Grid D	TB22	0																										
Grid D	TB26	0																										
Grid 4R	BD1	7																					1	1	1	1	1	1	1
Grid 8R	BD2	6																					1	1	1		1	1	1
Grid D	BD3	7																					1	1	1	1	1	1	1
Grid D	BD4	7																					1	1	1	1	1	1	1
Zone 2																													
Grid 11	BH170	9	20	10	16	16	28	17.4	8.13	17.4	7.58																	
Grid 12	BH172	9	6	10	11	16	12	18.2	6.95	18	6.32																	
Grid 13	BH171	6			13	7	2	2.74	5.16		9.2																	
Grid 14	BH173	7	35			9	6	19.2	10.1	4.08	16.3																	
Grid 15	BH135	2		3.7	2.3																							
Grid 15	BH136	0																										
Grid 15	BH137	0																										
Grid 15	BH142	0																										
Grid 15	BH143	9	14	6.7	1.9	18	26		28	12	37		20															
Grid 15	BH144	0																										
Grid 15	BH145	0																										
Grid 15	BH150	0																										
Grid 16	BH146	0																										
Grid 16	BH147	0																										
Grid 16	BH148	6	13			6.3	6.2	11	7.8		14																	
Grid 16	BH149	0																										
Grid 16	BH177	0																										
Grid 26	BH42	0																										
Grid 26	BH44	0																										
Grid 26	BH154	3	4.7	3.1		20																						
Grid 27	BH153	0																										
Grid 27	BH156	9	8	3	4	7	15	11.2	4.92	10.8	2.51																	
Grid 28	BH158	9	7	4	6	11	8	25.6	5.3	10.5	4.95																	
Grid 33R	BH155	5	10	5	6	8	7																					
Grid 34	BH157	5	10	6	21	15	4																					
Grid 34	BH174	2	4.9	0.2																								
Grid 34	BH175	0																										
Grid 34	BH176	0																										
Grid 35	BH159	5	5	6	22	9	2																					
Grid 27	TB14	0																										
Grid 27	TB24	0																										
Zone 1B+1C																													
Grid 17	BH126	0																										
Grid 17	BH128	0																										
Grid 17	BH129	0																										
Grid 17	BH130	0																										
Grid 17	BH131	0																										
Grid 17	BH132	0																										
Grid 17	BH134	7		2.3	6.4	15		7.1	8.1	8.1	7.4																	
Grid 17	BH139	0																										
Grid 18	BH116	0																										
Grid 18	BH117	0																										
Grid 18	BH118	0																										
Grid 18	BH119	0																										
Grid 18	BH120	0																										
Grid 18	BH121	0																										
Grid 18	BH122	0																										
Grid 18	BH123	0																										
Grid 18	BH124	0																										
Grid 18	BH125	6	15	6.9	10	11					16	12																
Grid 19	BH179	5		7.4		8	5.4	7.8	13																			
Grid 20	BH108	0																										
Grid 20	BH109	0																										
Grid 20	BH110	7	37	7.1	0.7	5.6	4.5			8.8	1.7																	
Grid 20	BH111	0																										
Grid 20	BH112	0																										
Grid 20	BH113	0																										
Grid 20	BH114	0																										
Grid 20	BH115	0																										
Grid 21	BH178	7	7.1	6.1	7	3.3		6.9	13	3.3																		
Grid 22	BH151	0																										
Grid C	BH133	8	21	7.7	14		3.3		4.2	9.4	11	20																
Grid 15	TB16	0																										
Grid 15	TB30	0																										
Grid 16	TB15	0																										
Grid 17	TB17	0																										
Grid 17	TB19	0																										
Grid 18	TB18	0																										
Grid 18	TB29	0																										
Grid 20	TB20	0																										

Zone	1A+3	1B+1C	2
Average Concentrations (mg/kg)	5.63	9.24	10.81

Copper

Grid	Depth (m)	Counter	0.5	1.5	3	4.5	6	7.5	9	10.5	12	13.5	15	16.5	18	19.5	21	D1	D2	D3	D4	D5	0.0M-0.5M	0.5M-1.5M	1.5M-3.0M	3.0M-4.5M	4.5M-6.0M	6.0M-7.5M	7.5M-9.0M
Zone 1A+3																													
Grid 1	BH82	7	11	4.7						1.6	2	3.9	3.9	3.3															
Grid 1	BH83	0																											
Grid 1	BH85	2	160	20																									
Grid 1	BH86	1	40																										
Grid 2	BH88	0																											
Grid 2	BH91	0																											
Grid 2	BH92	2	20	39																									
Grid 2	BH93	0																											
Grid 2	BH94	0																											
Grid 2	BH95	0																											
Grid 2	BH97	0																											
Grid 2	BH99	9	2	2.7	9.6	5.7		6.7	2.3	1.3	1.6		2.2																
Grid 3R	BH8	5	120	51	2.8	6.3		1.6																					
Grid 3R	BH96	0																											
Grid 4R	BH1	0																											
Grid 4R	BH3	3	40	18	20.6																								
Grid 4R	BH5	0																											
Grid 4R	BH7	4	74	13	64	73																							
Grid 4R	BH9	5	48	4	57	40	17.2																						
Grid 4R	BH10a	5	53	4.7	8.9	67	0.8																						
Grid 5	BH65	0																											
Grid 5	BH69	0																											
Grid 5	BH70	4	277	4.4	2.3	5																							
Grid 5	BH71	2			14	13																							
Grid 5	BH72	1				59																							
Grid 5	BH73	3		21	20	8																							
Grid 5	BH74	2		307		34																							
Grid 5	BH76	4	620	26	11	8.4																							
Grid 5	BH77	3		91	77	9																							
Grid 5	BH78	6		14	110				4	4.3	2.4	3.6																	
Grid 5	BH79	1				11																							
Grid 5	BH84	0																											
Grid 6	BH53	2	109	28																									
Grid 6	BH55	0																											
Grid 6	BH56	1				45																							
Grid 6	BH57	4	15.3	235	104	18																							
Grid 6	BH58	6	7	3	7	99	25.1	20.4																					
Grid 6	BH59	4	20	13	19	586																							
Grid 6	BH61	3		2.4	6.5	3.1																							
Grid 6	BH75	3		8.1		5.9	4.9																						
Grid 6	BH81	9	9.1	1.1	4.6	18	4.1	3.3	12	4.6	1.5																		
Grid 6	BH89	0																											
Grid 6	BH90	0																											
Grid 6	BH100	0																											
Grid 7R	BH31	0																											
Grid 7R	BH32	1							5.8																				
Grid 7R	BH33	3				230	12	15																					
Grid 7R	BH37	0																											
Grid 8R	BH10	4	15.7	17.9	372	20																							
Grid 8R	BH11	5	2	5	9	92	8.11																						
Grid 8R	BH15	4	56	66	86	26																							
Grid 8R	BH16	3		7	2.7	77																							
Grid 8R	BH30	0																											
Grid 9	BH54	0																											
Grid 9	BH62	0																											
Grid 9	BH63	0																											
Grid 9	BH64	0																											
Grid 9	BH66	0																											
Grid 9	BH68	9		1100	7.5		9	24	7.4	18	20	0.9	0.5																
Grid 10	BH47	5	956	273	298	216	34.1																						
Grid 10	BH48	5	106	80	120	118	10.4																						
Grid 10	BH49	6	65		46		32	33		4.3	0.9																		
Grid 10	BH50	3	1380	315			19.9																						
Grid 10	BH51	6			170	110	19.7		156	2.28	1.46																		
Grid 10	BH52	2	4	5																									
Grid 26	BH38	2				5.2		12																					
Grid 26	BH40	3	6	58	387																								
Grid 26	BH41	5	155	122	5.65	248		27.2																					
Grid 26	BH46	4	104	99	91		73.8																						
Grid 33R	BH36	4	6.2	270	74	6.6																							
Grid AR	BH39	3	71	76	30.8																								
Grid AR	BH43	2	95	290																									
Grid AR	BH45	2			62	16.4																							
Grid D	BH22	5	4.1	2500	10	19	1.4																						
Grid D	BH27	4	925	15.5	7.4	7.16																							
Grid D	BH27a	6	49	34	23	15	37	1.2																					
Grid D	BH24	4	60	58		34	5.8																						
Grid D	BH25	1				34																							
Grid D	BH34	5	5291	1749	63.2	1.7		2.61																					
Grid 1	TB10	3																230	717	9.5									
Grid 1	TB10A	2																	13.9	5.82									
Grid 2	TB5	3																31	39.3	29.7									
Grid 2	TB7	3																43.8	1.93	1.94									
Grid 2	TB9	3																42	1.99	68.6									
Grid 4R	TB23	3																40	18	20.6									
Grid 5	TB11	3																277	4.4	2.3									
Grid 5	TB28	3																112	45.6	1034									
Grid 6	TB4	3																15.3	235	104									
Grid 6	TB6	3																38.7	8.39	12.8									
Grid 6	TB8	3																40.2	4.01	21.7									

Grid 8R	TB27	3																15.7	17.9	372									
Grid 9	TB13	3																16.7	9.22	81.2									
Grid 10	TB3	2																	180	1.4									
Grid 10	TB12	3																311	4.57	32.8									
Grid 26	TB2	3																1202	18.7	11									
Grid D	TB1	4																5291	1749	220	63.2								
Grid D	TB21	4																925	15.5	7.4	7.16								
Grid D	TB22	3																79.7	9.62	88.7									
Grid D	TB26	4																44.1	34.1	104	3.55								
Grid 4R	BD1	7																					269	28	6	14	2	3	2
Grid 8R	BD2	6																					112	302	72		2	2	1
Grid D	BD3	7																					1	50	19	49	13	1	1
Grid D	BD4	7																					232	64	109	82	12	4	2
Zone 2																													
Grid 11	BH170	9	166	101	138	91	188	14.7	42.1	13.4	26.1																		
Grid 12	BH172	9	10	18	113	871	33	72.3	26.9	39	43.7																		
Grid 13	BH171	6			102	13	17	83.8	529		25.6																		
Grid 14	BH173	7	167			12	9	70.8	8.43	28	34.5																		
Grid 15	BH135	4	79	5.5	4.7	35																							
Grid 15	BH136	4	330	66.8	62.3	10																							
Grid 15	BH137	3	415	66.1		21																							
Grid 15	BH142	0																											
Grid 15	BH143	9	180	25	10	21	25		22	14	25	49																	
Grid 15	BH144	4	29	35	120	43																							
Grid 15	BH145	0																											
Grid 15	BH150	2	24	21																									
Grid 16	BH146	2	76	150																									
Grid 16	BH147	2	29	23																									
Grid 16	BH148	6	120			45	23	27	33		13																		
Grid 16	BH149	2	150	230																									
Grid 16	BH177	1		27																									
Grid 26	BH42	1		36																									
Grid 26	BH44	1	120																										
Grid 26	BH154	3	54	2		46																							
Grid 27	BH153	4		64.6	164	17	35																						
Grid 27	BH156	9	62	9	4	13	98	29.5	1.77	7.59	1.65																		
Grid 28	BH158	9	69	5	13	8	12	148	2.22	14.9	2.43																		
Grid 33R	BH155	5	125	20	8	68	2																						
Grid 34	BH157	5	29	26	144	12	4																						
Grid 34	BH174	7	570	36	190	180	0.03	13	1																				
Grid 34	BH175	3	15	10		18																							
Grid 34	BH176	3	96	320	97																								
Grid 35	BH159	5	23	9	19	16	1																						
Grid 27	TB14	3																14.6	2.53	40.5									
Grid 27	TB24	4																64.6	80.3	164	17								
Zone 1B+1C																													
Grid 17	BH126	0																											
Grid 17	BH128	0																											
Grid 17	BH129	0																											
Grid 17	BH130	0																											
Grid 17	BH131	0																											
Grid 17	BH132	0																											
Grid 17	BH134	7		7.2	15	25		25	14	8.4	7.7																		
Grid 17	BH139	0																											
Grid 18	BH116	6	65	25	13	16	43.9	14.2																					
Grid 18	BH117	7	99	18	11	150	11.6	23.7		23.1																			
Grid 18	BH118	3	28		19	28																							
Grid 18	BH119	0																											
Grid 18	BH120	0																											
Grid 18	BH121	0																											
Grid 18	BH122	0																											
Grid 18	BH123	0																											
Grid 18	BH124	0																											
Grid 18	BH125	6	67	15	15	18					110	21																	
Grid 19	BH179	5		390		680	170	97	26																				
Grid 20	BH108	3	12	17	6.7																								
Grid 20	BH109	3	32	7.3	2.2																								
Grid 20	BH110	7	370	32	2.7	19	5.9			18	57																		
Grid 20	BH111	2	180		270																								
Grid 20	BH112	3	75	4.2	2.5																								
Grid 20	BH113	0																											
Grid 20	BH114	3	49	4800	25																								
Grid 20	BH115	4	73	10	18	26																							
Grid 21	BH178	7	64	13	23	15		23	48	6.4																			
Grid 22	BH151	2	78	25																									
Grid C	BH133	8	120	13	130		17		32	22	10	5.4																	
Grid 15	TB16	3																330	66.8	62.3									
Grid 15	TB30	3																68.7	17.9	4.48									
Grid 16	TB15	3																6502	39.3	24.6									
Grid 17	TB17	3																60.7	20.8	9.13									
Grid 17	TB19	3																69.8	73.8	64.4									
Grid 18	TB18	3																38.3	14.6	17.6									
Grid 18	TB29	5																104	34.3	117	86.3	23.3							
Grid 20	TB20	3																344	112	62.6									

	Zone	1A+3	1B+1C	2
Average Concentrations (mg/kg)		136.26	170.86	70.20

Molybdenum

Grid	Depth (m)	Counter	0.5	1.5	3	4.5	6	7.5	9	10.5	12	13.5	15	16.5	18	19.5	21	D1	D2	D3	D4	D5	0.0M-0.5M	0.5M-1.5M	1.5M-3.0M	3.0M-4.5M	4.5M-6.0M	6.0M-7.5M	7.5M-9.0M
Zone 1A+3																													
Grid 1	BH82	7	0.5	1						0.25	0.9	3.6	1.2	1.2															
Grid 1	BH83	0																											
Grid 1	BH85	0																											
Grid 1	BH86	0																											
Grid 2	BH88	0																											
Grid 2	BH91	0																											
Grid 2	BH92	0																											
Grid 2	BH93	0																											
Grid 2	BH94	0																											
Grid 2	BH95	0																											
Grid 2	BH97	0																											
Grid 2	BH99	9	1.1	1.6	0.8	0.25		0.25	0.25	0.25	0.25		1.6																
Grid 3R	BH8	5	2.1	4.3	2.3	1.1		80																					
Grid 3R	BH96	0																											
Grid 4R	BH1	0																											
Grid 4R	BH3	0																											
Grid 4R	BH5	0																											
Grid 4R	BH7	0																											
Grid 4R	BH9	0																											
Grid 4R	BH10a	5	1.8	2.8	0.5	2.4	0.6																						
Grid 5	BH65	0																											
Grid 5	BH69	0																											
Grid 5	BH70	0																											
Grid 5	BH71	0																											
Grid 5	BH72	0																											
Grid 5	BH73	0																											
Grid 5	BH74	0																											
Grid 5	BH76	0																											
Grid 5	BH77	0																											
Grid 5	BH78	6		1.4	2.2				0.8	1.5	0.25	4.3																	
Grid 5	BH79	0																											
Grid 5	BH84	0																											
Grid 6	BH53	0																											
Grid 6	BH55	0																											
Grid 6	BH56	0																											
Grid 6	BH57	0																											
Grid 6	BH58	0																											
Grid 6	BH59	0																											
Grid 6	BH61	0																											
Grid 6	BH75	0																											
Grid 6	BH81	9	0.8	0.6	1.4	0.6	1.7	0.7	0.6	0.25	0.25																		
Grid 6	BH89	0																											
Grid 6	BH90	0																											
Grid 6	BH100	0																											
Grid 7R	BH31	0																											
Grid 7R	BH32	1							0.25																				
Grid 7R	BH33	0																											
Grid 7R	BH37	0																											
Grid 8R	BH10	0																											
Grid 8R	BH11	0																											
Grid 8R	BH15	0																											
Grid 8R	BH16	0																											
Grid 8R	BH30	0																											
Grid 9	BH54	0																											
Grid 9	BH62	0																											
Grid 9	BH63	0																											
Grid 9	BH64	0																											
Grid 9	BH66	0																											
Grid 9	BH68	9		6.7	1.7		1.9	0.25	0.9	1	0.6	0.25	0.25																
Grid 10	BH47	0																											
Grid 10	BH48	0																											
Grid 10	BH49	6	1.8		1.7		1.2	1.2		0.25	0.6																		
Grid 10	BH50	0																											
Grid 10	BH51	0																											
Grid 10	BH52	0																											
Grid 26	BH38	0																											
Grid 26	BH40	0																											
Grid 26	BH41	0																											
Grid 26	BH46	0																											
Grid 33R	BH36	0																											
Grid AR	BH39	0																											
Grid AR	BH43	0																											
Grid AR	BH45	0																											
Grid D	BH22	0																											
Grid D	BH27	0																											
Grid D	BH27a	6	10	1.3	1.8	2.7	1.3	0.25																					
Grid D	BH24	4	1.2	0.8		1.3	3.4																						
Grid D	BH25	0																											
Grid D	BH34	0																											
Grid 1	TB10	0																											
Grid 1	TB10A	0																											
Grid 2	TB5	0																											
Grid 2	TB7	0																											
Grid 2	TB9	0																											
Grid 4R	TB23	0																											
Grid 5	TB11	0																											
Grid 5	TB28	0																											
Grid 6	TB4	0																											
Grid 6	TB6	0																											
Grid 6	TB8	0																											

Grid 8R	TB27	0																											
Grid 9	TB13	0																											
Grid 10	TB3	0																											
Grid 10	TB12	0																											
Grid 26	TB2	0																											
Grid D	TB1	0																											
Grid D	TB21	0																											
Grid D	TB22	0																											
Grid D	TB26	0																											
Grid 4R	BD1	0																											
Grid 8R	BD2	0																											
Grid D	BD3	0																											
Grid D	BD4	0																											
Zone 2																													
Grid 11	BH170	9	3	2	3	1	5	0.9	1.9	0.6	1																		
Grid 12	BH172	9	2	0.25	3	4	0.25	3	1.5	8	1																		
Grid 13	BH171	6			3	2	1	1.4	2.9		2.1																		
Grid 14	BH173	7	8			0.25	4	3.5	1.5	2.3	2.6																		
Grid 15	BH135	2		0.25	1																								
Grid 15	BH136	0																											
Grid 15	BH137	0																											
Grid 15	BH142	0																											
Grid 15	BH143	9	2.4	1.9	0.9	3.6	0.9		0.8	1.4	0.6		1.9																
Grid 15	BH144	0																											
Grid 15	BH145	0																											
Grid 15	BH150	0																											
Grid 16	BH146	0																											
Grid 16	BH147	0																											
Grid 16	BH148	6	2.3			1.1	0.6	2.6	2.1		1.6																		
Grid 16	BH149	0																											
Grid 16	BH177	0																											
Grid 26	BH42	0																											
Grid 26	BH44	0																											
Grid 26	BH154	3	2.2	1.9		5.7																							
Grid 27	BH153	0																											
Grid 27	BH156	9	2	2	1	1	4	3.5	0.5	2.2	0.6																		
Grid 28	BH158	9	3	3	1	0.25	2	22.8	0.25	3.5	0.9																		
Grid 33R	BH155	5	2	2	2	2	4																						
Grid 34	BH157	5	2	2	2	2	0.25																						
Grid 34	BH174	2	1.8	1.4																									
Grid 34	BH175	0																											
Grid 34	BH176	0																											
Grid 35	BH159	5	0.25	1	1	0.25	1																						
Grid 27	TB14	0																											
Grid 27	TB24	0																											
Zone 1B+1C																													
Grid 17	BH126	0																											
Grid 17	BH128	0																											
Grid 17	BH129	0																											
Grid 17	BH130	0																											
Grid 17	BH131	0																											
Grid 17	BH132	0																											
Grid 17	BH134	7		1.3	2	1.4		0.9	2.1	0.6	1.2																		
Grid 17	BH139	0																											
Grid 18	BH116	0																											
Grid 18	BH117	0																											
Grid 18	BH118	0																											
Grid 18	BH119	0																											
Grid 18	BH120	0																											
Grid 18	BH121	0																											
Grid 18	BH122	0																											
Grid 18	BH123	0																											
Grid 18	BH124	0																											
Grid 18	BH125	6	1.5	1	2.2	1.7					2.7	2.4																	
Grid 19	BH179	5		3.6		1	0.25	1.2	4.7																				
Grid 20	BH108	0																											
Grid 20	BH109	0																											
Grid 20	BH110	7	4.2	1	1.2	1.5	2.4			3.8	1.6																		
Grid 20	BH111	0																											
Grid 20	BH112	0																											
Grid 20	BH113	0																											
Grid 20	BH114	0																											
Grid 20	BH115	0																											
Grid 21	BH178	7	1.8	4.2	0.25	1.9		2	6.8	0.7																			
Grid 22	BH151	0																											
Grid C	BH133	8	2.5	1.4	1.6		0.9		1.2	1.2	0.9	2.1																	
Grid 15	TB16	0																											
Grid 15	TB30	0																											
Grid 16	TB15	0																											
Grid 17	TB17	0																											
Grid 17	TB19	0																											
Grid 18	TB18	0																											
Grid 18	TB29	0																											
Grid 20	TB20	0																											

Zone	1A+3	1B+1C	2
Average Concentrations (mg/kg)	2.61	1.92	2.23

Nickel

Grid	Depth (m)	Counter	0.5	1.5	3	4.5	6	7.5	9	10.5	12	13.5	15	16.5	18	19.5	21	D1	D2	D3	D4	D5	0.0M-0.5M	0.5M-1.5M	1.5M-3.0M	3.0M-4.5M	4.5M-6.0M	6.0M-7.5M	7.5M-9.0M
Zone 1A+3																													
Grid 1	BH82	7	3.2	2.1						2.6	2.8	8.5	3.4	2.3															
Grid 1	BH83	0																											
Grid 1	BH85	0																											
Grid 1	BH86	0																											
Grid 2	BH88	0																											
Grid 2	BH91	0																											
Grid 2	BH92	0																											
Grid 2	BH93	0																											
Grid 2	BH94	0																											
Grid 2	BH95	0																											
Grid 2	BH97	0																											
Grid 2	BH99	9	1.2	1	3	3.5		2.8	3.2	0.5	0.03		0.9																
Grid 3R	BH8	5	5.3	4.3	5.4	3.8		1.1																					
Grid 3R	BH96	0																											
Grid 4R	BH1	0																											
Grid 4R	BH3	0																											
Grid 4R	BH5	0																											
Grid 4R	BH7	0																											
Grid 4R	BH9	0																											
Grid 4R	BH10a	5	4.4	1	3.6	7.8	0.6																						
Grid 5	BH65	0																											
Grid 5	BH69	0																											
Grid 5	BH70	0																											
Grid 5	BH71	0																											
Grid 5	BH72	0																											
Grid 5	BH73	0																											
Grid 5	BH74	0																											
Grid 5	BH76	0																											
Grid 5	BH77	0																											
Grid 5	BH78	6		4.8	9				1.5	2.5	3	8.7																	
Grid 5	BH79	0																											
Grid 5	BH84	0																											
Grid 6	BH53	0																											
Grid 6	BH55	0																											
Grid 6	BH56	0																											
Grid 6	BH57	0																											
Grid 6	BH58	0																											
Grid 6	BH59	0																											
Grid 6	BH61	0																											
Grid 6	BH75	0																											
Grid 6	BH81	9	7.6	5.7	1.6	7.3	2.6	1.2	3.6	2.8	2.2																		
Grid 6	BH89	0																											
Grid 6	BH90	0																											
Grid 6	BH100	0																											
Grid 7R	BH31	0																											
Grid 7R	BH32	1							5.1																				
Grid 7R	BH33	0																											
Grid 7R	BH37	0																											
Grid 8R	BH10	0																											
Grid 8R	BH11	0																											
Grid 8R	BH15	0																											
Grid 8R	BH16	0																											
Grid 8R	BH30	0																											
Grid 9	BH54	0																											
Grid 9	BH62	0																											
Grid 9	BH63	0																											
Grid 9	BH64	0																											
Grid 9	BH66	0																											
Grid 9	BH68	9		27	2		4	17	4.3	57	3.7	3.3	1.3																
Grid 10	BH47	0																											
Grid 10	BH48	0																											
Grid 10	BH49	6	3.9		18		9.9	9.4		7.7	0.9																		
Grid 10	BH50	0																											
Grid 10	BH51	0																											
Grid 10	BH52	0																											
Grid 26	BH38	0																											
Grid 26	BH40	0																											
Grid 26	BH41	0																											
Grid 26	BH46	0																											
Grid 33R	BH36	0																											
Grid AR	BH39	0																											
Grid AR	BH43	0																											
Grid AR	BH45	0																											
Grid D	BH22	0																											
Grid D	BH27	0																											
Grid D	BH27a	6	14	2.2	6.5	4.4	7	0.9																					
Grid D	BH24	4	2.5	3		6.3	1.9																						
Grid D	BH25	0																											
Grid D	BH34	0																											
Grid 1	TB10	3																38.6	31.7	4.12									
Grid 1	TB10A	2																	3.22	1.96									
Grid 2	TB5	3																4.13	7.55	5.44									
Grid 2	TB7	3																5.35	0.78	0.92									
Grid 2	TB9	3																5.93	0.88	4.67									
Grid 4R	TB23	3																3.76	4.05	5.26									
Grid 5	TB11	3																41	1.33	0.79									
Grid 5	TB28	3																35.6	5.07	19.1									
Grid 6	TB4	3																3.41	7.44	11.4									
Grid 6	TB6	3																10.5	1.17	0.75									
Grid 6	TB8	3																2.89	0.96	3.86									

Grid 8R	TB27	3																1.54	1.21	11.9										
Grid 9	TB13	3																0.47	3.31	4.7										
Grid 10	TB3	2																	21.5	1.21										
Grid 10	TB12	3																12.1	2.46	0.98										
Grid 26	TB2	3																33.4	2.43	2.19										
Grid D	TB1	4																27	20.6	16.1	8.16									
Grid D	TB21	4																14.9	1.58	1.36	1.15									
Grid D	TB22	3																4.54	1.31	5.8										
Grid D	TB26	4																5.64	3.08	4.59	3.83									
Grid 4R	BD1	0																												
Grid 8R	BD2	0																												
Grid D	BD3	0																												
Grid D	BD4	0																												
Zone 2																														
Grid 11	BH170	9	26	10	17	10	36	6.22	8.47	7.43	6.29																			
Grid 12	BH172	9	2	4	11	27	7	26.6	15.4	18.6	4.42																			
Grid 13	BH171	6			9	6	2	6.67	5.64		4.53																			
Grid 14	BH173	7	35			4	4	27.6	8.65	2.17	9.81																			
Grid 15	BH135	2		0.8	3.1																									
Grid 15	BH136	0																												
Grid 15	BH137	0																												
Grid 15	BH142	0																												
Grid 15	BH143	9	24	4.8	2.6	10	13		16	7.4	17		14																	
Grid 15	BH144	0																												
Grid 15	BH145	0																												
Grid 15	BH150	0																												
Grid 16	BH146	0																												
Grid 16	BH147	0																												
Grid 16	BH148	6	16			4.8	9.1	6	10		8.4																			
Grid 16	BH149	0																												
Grid 16	BH177	0																												
Grid 26	BH42	0																												
Grid 26	BH44	0																												
Grid 26	BH154	3	5.7	1.7		25																								
Grid 27	BH153	0																												
Grid 27	BH156	9	5	1	1	2	8	4.55	0.03	1.95	0.57																			
Grid 28	BH158	9	3	2	4	4	3	15.2	0.23	1.89	0.03																			
Grid 33R	BH155	5	9	4	4	14	2																							
Grid 34	BH157	5	8	4	35	6	0.03																							
Grid 34	BH174	2	4.3	0.5																										
Grid 34	BH175	0																												
Grid 34	BH176	0																												
Grid 35	BH159	5	3	4	13	3	0.03																							
Grid 27	TB14	3																3.1	1.1	1.23										
Grid 27	TB24	4																4.85	3.96	6.25	4.76									
Zone 1B+1C																														
Grid 17	BH126	0																												
Grid 17	BH128	0																												
Grid 17	BH129	0																												
Grid 17	BH130	0																												
Grid 17	BH131	0																												
Grid 17	BH132	0																												
Grid 17	BH134	7		2	4.9	7.5		3.7	4	1.8	2.7																			
Grid 17	BH139	0																												
Grid 18	BH116	0																												
Grid 18	BH117	0																												
Grid 18	BH118	0																												
Grid 18	BH119	0																												
Grid 18	BH120	0																												
Grid 18	BH121	0																												
Grid 18	BH122	0																												
Grid 18	BH123	0																												
Grid 18	BH124	0																												
Grid 18	BH125	6	21	5	4.3	7.3					12	10																		
Grid 19	BH179	5		9.4		18	7.1	14	14																					
Grid 20	BH108	0																												
Grid 20	BH109	0																												
Grid 20	BH110	7	75	54	0.5	8.9	2.4			5.6	1.6																			
Grid 20	BH111	0																												
Grid 20	BH112	0																												
Grid 20	BH113	0																												
Grid 20	BH114	0																												
Grid 20	BH115	0																												
Grid 21	BH178	7	6.9	23	7	3.7		5	8.1	2.3																				
Grid 22	BH151	0																												
Grid C	BH133	8	18	5.3	11		6.2		12	8.4	8	15																		
Grid 15	TB16	3																48.2	3.44	4.69										
Grid 15	TB30	3																18.5	0.4	1.31										
Grid 16	TB15	3																29.4	7.95	4.38										
Grid 17	TB17	3																8.29	8.02	1.03										
Grid 17	TB19	3																8.84	7.24	5.9										
Grid 18	TB18	3																2.46	1.25	5.68										
Grid 18	TB29	5																12.8	0.16	3.97	10.2	4.5								
Grid 20	TB20	3																24.2	2.14	1.04										

Zone	1A+3	1B+1C	2
Average Concentrations (mg/kg)	6.71	10.04	8.22

Lead

Grid	Depth (m)	Counter	0.5	1.5	3	4.5	6	7.5	9	10.5	12	13.5	15	16.5	18	19.5	21	D1	D2	D3	D4	D5	0.0M-0.5M	0.5M-1.5M	1.5M-3.0M	3.0M-4.5M	4.5M-6.0M	6.0M-7.5M	7.5M-9.0M
Zone 1A+3																													
Grid 1	BH82	7	52	55						11	16	14	14	12															
Grid 1	BH83	0																											
Grid 1	BH85	2	560	41																									
Grid 1	BH86	1	44																										
Grid 2	BH88	0																											
Grid 2	BH91	0																											
Grid 2	BH92	2	82	150																									
Grid 2	BH93	3	72	87		22																							
Grid 2	BH94	4	104	173	27	11																							
Grid 2	BH95	4	77.6	106	167	16																							
Grid 2	BH97	4	216	135	22	25																							
Grid 2	BH99	9	29	27	18	21		23	8.9	8.4	17		17																
Grid 3R	BH8	5	250	170	77	24		10																					
Grid 3R	BH96	3		61	20	75																							
Grid 4R	BH1	4	86	73	35			12.8																					
Grid 4R	BH3	4	220	40.3	164		108																						
Grid 4R	BH5	4	199	128	53		35.4																						
Grid 4R	BH7	4	105	111	297	85																							
Grid 4R	BH9	5	105	49	136	268	35.7																						
Grid 4R	BH10a	5	170	40	65	120	21																						
Grid 5	BH65	4	65	18	60	37																							
Grid 5	BH69	4	82	41	34	56																							
Grid 5	BH70	4	1116	76.7	188	17																							
Grid 5	BH71	2			72	130																							
Grid 5	BH72	1				49																							
Grid 5	BH73	3		64	89	19																							
Grid 5	BH74	2		3360		144																							
Grid 5	BH76	4	8300	80	82	100																							
Grid 5	BH77	3		109	135	51																							
Grid 5	BH78	6		32	250				62	8.8	13	13																	
Grid 5	BH79	1				80																							
Grid 5	BH84	0																											
Grid 6	BH53	2	277	76																									
Grid 6	BH55	0																											
Grid 6	BH56	1				76																							
Grid 6	BH57	4	430	587	440	27																							
Grid 6	BH58	6	27	14	36	215	407	34.2																					
Grid 6	BH59	4	43	84	53	785																							
Grid 6	BH61	3		23	120	6.1																							
Grid 6	BH75	3		39		100	24																						
Grid 6	BH81	9	39	61	140	110	40	29	16	7.3	6.7																		
Grid 6	BH89	4	28	46	56	20																							
Grid 6	BH90	0																											
Grid 6	BH100	1		73																									
Grid 7R	BH31	2	238	29																									
Grid 7R	BH32	1							19																				
Grid 7R	BH33	3				560	160	130																					
Grid 7R	BH37	1				85																							
Grid 8R	BH10	4	111	64.3	763	96																							
Grid 8R	BH11	5	119	144	53	3150	14.8																						
Grid 8R	BH15	4	229	373	250	107																							
Grid 8R	BH16	3		65	45	110																							
Grid 8R	BH30	2	521	117																									
Grid 9	BH54	0																											
Grid 9	BH62	4	2190	107	53		30.1																						
Grid 9	BH63	4	32	41	13		20.6																						
Grid 9	BH64	4	23	400	71	13																							
Grid 9	BH66	1	128																										
Grid 9	BH68	9		66	43		20	62	18	57	86	16	2.6																
Grid 10	BH47	5	948	468	1450	183	63.8																						
Grid 10	BH48	5	2950	422	2030	134	106																						
Grid 10	BH49	6	250		520		170	140		13	9.2																		
Grid 10	BH50	3	2560	710			109																						
Grid 10	BH51	6			883	278	38.2		70.3	6.75	30																		
Grid 10	BH52	2	38	28																									
Grid 26	BH38	2				36		260																					
Grid 26	BH40	3	45	280	608																								
Grid 26	BH41	5	908	488	27	262		138																					
Grid 26	BH46	4	539	431	304		122																						
Grid 33R	BH36	4	150	1300	120	170																							
Grid AR	BH39	3	255	590	76.9																								
Grid AR	BH43	2	310	280																									
Grid AR	BH45	2			300	67.4																							
Grid D	BH22	5	20	3800	400	380	45																						
Grid D	BH27	6	1844	109	34.3	158	980		15.7																				
Grid D	BH27a	6	63	44	120	83	1000	18																					
Grid D	BH24	4	44	100		620	32																						
Grid D	BH25	1				270																							
Grid D	BH34	5	13600	1408	172	19		19.5																					
Grid 1	TB10	3																2744	10310	117									
Grid 1	TB10A	2																	40.3	73.4									
Grid 2	TB5	3																77.6	106	167									
Grid 2	TB7	3																102	8.22	12.7									
Grid 2	TB9	3																158	11.9	65.9									
Grid 4R	TB23	3																220	40.3	164									
Grid 5	TB11	3																1116	76.7	188									
Grid 5	TB28	3																797	75.2	1313									
Grid 6	TB4	3																121	587	440									
Grid 6	TB6	3																140	16.7	45.9									
Grid 6	TB8	3																26.5	35	128									

Grid 8R	TB27	3																111	64.3	763									
Grid 9	TB13	3																9.03	64.2	519									
Grid 10	TB3	2																	298	14.3									
Grid 10	TB12	3																597	13.3	59.4									
Grid 26	TB2	3																1825	65.6	34.6									
Grid D	TB1	4																13600	1408	442	172								
Grid D	TB21	4																1844	109	34.3	158								
Grid D	TB22	3																213	79.8	138									
Grid D	TB26	4																215	126	401	45.8								
Grid 4R	BD1	7																					578	189	46	60	126	23	18
Grid 8R	BD2	6																					356	605	280		11	14	61
Grid D	BD3	7																					14	409	203	900	83	10	12
Grid D	BD4	7																					546	292	990	191	86	14	20
Zone 2																													
Grid 11	BH170	9	622	1060	1370	297	958	26.2	402	24.9	32.3																		
Grid 12	BH172	9	83	76	444	459	274	129	608	1870	41.2																		
Grid 13	BH171	6			314	14	3	99.9	12.9		89																		
Grid 14	BH173	7	367			18	98	156	183	42.4	265																		
Grid 15	BH135	4	110	28	28	57																							
Grid 15	BH136	4	228	74	161	137																							
Grid 15	BH137	9	1122	48.2		220		12	32	14	20	22	290																
Grid 15	BH142	4	1030	492				55.2	62.5																				
Grid 15	BH143	9	290	130	88	53	47		24	54	19		230																
Grid 15	BH144	4	53	40	230	140																							
Grid 15	BH145	1	71																										
Grid 15	BH150	2	44	110																									
Grid 16	BH146	2	110	300																									
Grid 16	BH147	2	110	52																									
Grid 16	BH148	6	270			120	390	260	240		200																		
Grid 16	BH149	2	410	570																									
Grid 16	BH177	1		260																									
Grid 26	BH42	1		540																									
Grid 26	BH44	1	650																										
Grid 26	BH154	3	140	27		73																							
Grid 27	BH153	7		427	415	162	180		11		8.9	12																	
Grid 27	BH156	9	231	53	22	119	356	144	9.12	16.7	17.6																		
Grid 28	BH158	9	112	95	56	36	46	904	8.75	10	10.4																		
Grid 33R	BH155	5	311	311	111	465	17																						
Grid 34	BH157	5	183	222	509	64	11																						
Grid 34	BH174	7	100	20	1000	1100	0.03	14	10																				
Grid 34	BH175	3	54	33		81																							
Grid 34	BH176	5	240	1400	190		56		17																				
Grid 35	BH159	5	170	58	28	34	14																						
Grid 27	TB14	3																130	37	29.5									
Grid 27	TB24	4																427	351	415	162								
Zone 1B+1C																													
Grid 17	BH126	3	271	247	82																								
Grid 17	BH128	3	1250	316	28																								
Grid 17	BH129	4	118	106	22		129																						
Grid 17	BH130	6	166	153	136	853	134	47.8																					
Grid 17	BH131	5	71	213	127	31	17.6																						
Grid 17	BH132	3			123	74	52.8																						
Grid 17	BH134	7		17	160	120		460	120	140	400																		
Grid 17	BH139	2	180	29																									
Grid 18	BH116	6	145	97	90	448	52.4	58.9																					
Grid 18	BH117	7	123	88	34	48	24.8	1720		92																			
Grid 18	BH118	3	121		53	22																							
Grid 18	BH119	0																											
Grid 18	BH120	5	97	34			346			25.7	77.3																		
Grid 18	BH121	7	171	65		19.4	136		36.5	17.4	73.4																		
Grid 18	BH122	3	1590	247	24.9																								
Grid 18	BH123	2	80		59.8																								
Grid 18	BH124	3	148	441							185																		
Grid 18	BH125	6	380	130	38	140					580	160																	
Grid 19	BH179	5		960		2000	230	1800	300																				
Grid 20	BH108	3	75	330	52																								
Grid 20	BH109	3	430	89	460																								
Grid 20	BH110	7	1500	28	72	150	110			97	190																		
Grid 20	BH111	2	2800		1860																								
Grid 20	BH112	3	280	210	190																								
Grid 20	BH113	0																											
Grid 20	BH114	3	55	1800	99																								
Grid 20	BH115	4	240	69	87	220																							
Grid 21	BH178	7	850	56	120	110		1200	290	83																			
Grid 22	BH151	2	920	110																									
Grid C	BH133	8	190	76	480		120		170	120	47	15																	
Grid 15	TB16	3																228	74	161									
Grid 15	TB30	3																154	33.2	96									
Grid 16	TB15	3																2773	77.4	93.2									
Grid 17	TB17	3																116	240	39.4									
Grid 17	TB19	3																166	153	136									
Grid 18	TB18	3																248	80.5	62.3									
Grid 18	TB29	5																250	13.4	130	1371	666							
Grid 20	TB20	3																2764	26.9	20.2									

Zone	1A+3	1B+1C	2
Average Concentrations (mg/kg)	376.80	316.39	222.05

Tin

Grid	Depth (m)	Counter	0.5	1.5	3	4.5	6	7.5	9	10.5	12	13.5	15	16.5	18	19.5	21	D1	D2	D3	D4	D5	0.0M-0.5M	0.5M-1.5M	1.5M-3.0M	3.0M-4.5M	4.5M-6.0M	6.0M-7.5M	7.5M-9.0M
Zone 1A+3																													
Grid 1	BH82	7	4.7	1.6						0.25	0.25	0.7	1.7	3.1															
Grid 1	BH83	0																											
Grid 1	BH85	0																											
Grid 1	BH86	0																											
Grid 2	BH88	0																											
Grid 2	BH91	0																											
Grid 2	BH92	0																											
Grid 2	BH93	0																											
Grid 2	BH94	0																											
Grid 2	BH95	0																											
Grid 2	BH97	0																											
Grid 2	BH99	9	1.1	1.3	1.9	2.2		2.1	0.25	0.25	0.25		1																
Grid 3R	BH8	5	32	8.3	44	2.2		0.25																					
Grid 3R	BH96	0																											
Grid 4R	BH1	0																											
Grid 4R	BH3	0																											
Grid 4R	BH5	0																											
Grid 4R	BH7	0																											
Grid 4R	BH9	0																											
Grid 4R	BH10a	5	5.5	0.5	1.9	10	1.9																						
Grid 5	BH65	0																											
Grid 5	BH69	0																											
Grid 5	BH70	0																											
Grid 5	BH71	0																											
Grid 5	BH72	0																											
Grid 5	BH73	0																											
Grid 5	BH74	0																											
Grid 5	BH76	0																											
Grid 5	BH77	0																											
Grid 5	BH78	6		3.6	8.7				2.3	0.7	0.7	0.7																	
Grid 5	BH79	0																											
Grid 5	BH84	0																											
Grid 6	BH53	0																											
Grid 6	BH55	0																											
Grid 6	BH56	0																											
Grid 6	BH57	0																											
Grid 6	BH58	0																											
Grid 6	BH59	0																											
Grid 6	BH61	0																											
Grid 6	BH75	0																											
Grid 6	BH81	9	2.7	1.4	2.1	3.5	2.3	2.4	2.7	1.2	2.7																		
Grid 6	BH89	0																											
Grid 6	BH90	0																											
Grid 6	BH100	0																											
Grid 7R	BH31	0																											
Grid 7R	BH32	1							2.1																				
Grid 7R	BH33	0																											
Grid 7R	BH37	0																											
Grid 8R	BH10	0																											
Grid 8R	BH11	0																											
Grid 8R	BH15	0																											
Grid 8R	BH16	0																											
Grid 8R	BH30	0																											
Grid 9	BH54	0																											
Grid 9	BH62	0																											
Grid 9	BH63	0																											
Grid 9	BH64	0																											
Grid 9	BH66	0																											
Grid 9	BH68	9		17	2.3		1.4	5.5	1.4	10	18	1.2	53																
Grid 10	BH47	0																											
Grid 10	BH48	0																											
Grid 10	BH49	6	32		130		8.4	3.5		1.3	1.9																		
Grid 10	BH50	0																											
Grid 10	BH51	0																											
Grid 10	BH52	0																											
Grid 26	BH38	0																											
Grid 26	BH40	0																											
Grid 26	BH41	0																											
Grid 26	BH46	0																											
Grid 33R	BH36	0																											
Grid AR	BH39	0																											
Grid AR	BH43	0																											
Grid AR	BH45	0																											
Grid D	BH22	0																											
Grid D	BH27	0																											
Grid D	BH27a	6	6.6	4.4	5	13	640	2.1																					
Grid D	BH24	4	3.1	1		7.7	0.6																						
Grid D	BH25	0																											
Grid D	BH34	0																											
Grid 1	TB10	0																											
Grid 1	TB10A	0																											
Grid 2	TB5	0																											
Grid 2	TB7	0																											
Grid 2	TB9	0																											
Grid 4R	TB23	0																											
Grid 5	TB11	0																											
Grid 5	TB28	0																											
Grid 6	TB4	0																											
Grid 6	TB6	0																											
Grid 6	TB8	0																											

Grid 8R	TB27	0																											
Grid 9	TB13	0																											
Grid 10	TB3	0																											
Grid 10	TB12	0																											
Grid 26	TB2	0																											
Grid D	TB1	0																											
Grid D	TB21	0																											
Grid D	TB22	0																											
Grid D	TB26	0																											
Grid 4R	BD1	0																											
Grid 8R	BD2	0																											
Grid D	BD3	0																											
Grid D	BD4	0																											
Zone 2																													
Grid 11	BH170	9	48	251	449	92	219	3.4	84	5.1	17																		
Grid 12	BH172	9	7	5	132	156	9	25	3.3	13.1	5																		
Grid 13	BH171	6			49	4	5	13.4	2.6		10.1																		
Grid 14	BH173	7	118			6	4	41.5	7.1	3.2	25.7																		
Grid 15	BH135	2		2.1	2.2																								
Grid 15	BH136	0																											
Grid 15	BH137	0																											
Grid 15	BH142	0																											
Grid 15	BH143	9	33	11	7.1	6.5	3.2		3.7	2.3	1.8		19																
Grid 15	BH144	0																											
Grid 15	BH145	0																											
Grid 15	BH150	0																											
Grid 16	BH146	0																											
Grid 16	BH147	0																											
Grid 16	BH148	6	44			0.9	3.1	11	22		11																		
Grid 16	BH149	0																											
Grid 16	BH177	0																											
Grid 26	BH42	0																											
Grid 26	BH44	0																											
Grid 26	BH154	3	4.7	1.3		40																							
Grid 27	BH153	0																											
Grid 27	BH156	9	22	5	5	11	103	32.5	1.1	1.3	2.1																		
Grid 28	BH158	9	8	4	4	2	12	217	1.4	1.2	1.4																		
Grid 33R	BH155	5	65	9	9	52	2																						
Grid 34	BH157	5	5	11	53	4	3																						
Grid 34	BH174	2	7.5	0.5																									
Grid 34	BH175	0																											
Grid 34	BH176	0																											
Grid 35	BH159	5	9	6	3	3	0.25																						
Grid 27	TB14	0																											
Grid 27	TB24	0																											
Zone 1B+1C																													
Grid 17	BH126	0																											
Grid 17	BH128	0																											
Grid 17	BH129	0																											
Grid 17	BH130	0																											
Grid 17	BH131	0																											
Grid 17	BH132	0																											
Grid 17	BH134	7		7.7	3.2	3.6		11	4.6	6.1	2.4																		
Grid 17	BH139	0																											
Grid 18	BH116	0																											
Grid 18	BH117	0																											
Grid 18	BH118	0																											
Grid 18	BH119	0																											
Grid 18	BH120	0																											
Grid 18	BH121	0																											
Grid 18	BH122	0																											
Grid 18	BH123	0																											
Grid 18	BH124	0																											
Grid 18	BH125	6	29	9.4	3.7	5.1					39	10																	
Grid 19	BH179	5		23		280	27	1.2	11																				
Grid 20	BH108	0																											
Grid 20	BH109	0																											
Grid 20	BH110	7	53	1.6	0.8	2.8	5.2			3.1	7.4																		
Grid 20	BH111	0																											
Grid 20	BH112	0																											
Grid 20	BH113	0																											
Grid 20	BH114	0																											
Grid 20	BH115	0																											
Grid 21	BH178	7	10	2.8	4.9	5.8		61	44	6.7																			
Grid 22	BH151	0																											
Grid C	BH133	8	31	5.5	32		4.2		3.3	22	9	1																	
Grid 15	TB16	0																											
Grid 15	TB30	0																											
Grid 16	TB15	0																											
Grid 17	TB17	0																											
Grid 17	TB19	0																											
Grid 18	TB18	0																											
Grid 18	TB29	0																											
Grid 20	TB20	0																											

Zone	1A+3	1B+1C	2
Average Concentrations (mg/kg)	17.01	19.85	31.62

Zinc

Grid	Depth (m)	Counter	0.5	1.5	3	4.5	6	7.5	9	10.5	12	13.5	15	16.5	18	19.5	21	D1	D2	D3	D4	D5	0.0M-0.5M	0.5M-1.5M	1.5M-3.0M	3.0M-4.5M	4.5M-6.0M	6.0M-7.5M	7.5M-9.0M
Zone 1A+3																													
Grid 1	BH82	7	42	46						6.2	6.4	25	14	17															
Grid 1	BH83	0																											
Grid 1	BH85	2	1500	81																									
Grid 1	BH86	1	120																										
Grid 2	BH88	0																											
Grid 2	BH91	0																											
Grid 2	BH92	2	140	160																									
Grid 2	BH93	0																											
Grid 2	BH94	0																											
Grid 2	BH95	0																											
Grid 2	BH97	0																											
Grid 2	BH99	9	30	20	44	62		18	14	10	7.5		56																
Grid 3R	BH8	5	300	240	13	29		6																					
Grid 3R	BH96	0																											
Grid 4R	BH1	0																											
Grid 4R	BH3	0																											
Grid 4R	BH5	0																											
Grid 4R	BH7	0																											
Grid 4R	BH9	0																											
Grid 4R	BH10a	5	120	43	53	110	48																						
Grid 5	BH65	4	82	76	705	190																							
Grid 5	BH69	0																											
Grid 5	BH70	4	1986	81.5	35.7	39																							
Grid 5	BH71	2			63	96																							
Grid 5	BH72	1				97																							
Grid 5	BH73	3		129	124	42																							
Grid 5	BH74	2		2600		84																							
Grid 5	BH76	4	6300	830	45	41																							
Grid 5	BH77	3		318	376	70																							
Grid 5	BH78	6		57	330				25	9.4	7.9	20																	
Grid 5	BH79	1				51																							
Grid 5	BH84	0																											
Grid 6	BH53	2	1100	314																									
Grid 6	BH55	0																											
Grid 6	BH56	1				184																							
Grid 6	BH57	4	102	999	569	148																							
Grid 6	BH58	6	101	134	153	246	4350	92.9																					
Grid 6	BH59	4	166	254	112	373																							
Grid 6	BH61	3		150	120	11																							
Grid 6	BH75	3		37		46	19																						
Grid 6	BH81	9	58	15	33	68	30	36	20	13	7.5																		
Grid 6	BH89	0																											
Grid 6	BH90	0																											
Grid 6	BH100	0																											
Grid 7R	BH31	0																											
Grid 7R	BH32	1							62																				
Grid 7R	BH33	3				1200	150	210																					
Grid 7R	BH37	0																											
Grid 8R	BH10	0																											
Grid 8R	BH11	0																											
Grid 8R	BH15	0																											
Grid 8R	BH16	0																											
Grid 8R	BH30	0																											
Grid 9	BH54	0																											
Grid 9	BH62	4	1690	168	59		40																						
Grid 9	BH63	4	58	42	30		25.8																						
Grid 9	BH64	4	53	73	98	21																							
Grid 9	BH66	1	235																										
Grid 9	BH68	9		670	21		16	79	30	69	110	120	1																
Grid 10	BH47	5	833	409	1980	356	91.6																						
Grid 10	BH48	5	540	430	410	182	54.8																						
Grid 10	BH49	6	420		200		150	61		17	37																		
Grid 10	BH50	3	8780	1710			73.8																						
Grid 10	BH51	6			459	231	74.7		131	101	112																		
Grid 10	BH52	2	32	28																									
Grid 26	BH38	2				21		210																					
Grid 26	BH40	3	85	481	3140																								
Grid 26	BH41	5	961	454	68.7	392		105																					
Grid 26	BH46	4	573	526	768		156																						
Grid 33R	BH36	4	240	1500	160	64																							
Grid AR	BH39	3	337	2740	140																								
Grid AR	BH43	2	600	660																									
Grid AR	BH45	2			360	119																							
Grid D	BH22	5	34	5500	390	260	38																						
Grid D	BH27	4	3099	197	137	111																							
Grid D	BH27a	6	150	110	69	160	380	57																					
Grid D	BH24	4	75	110		110	51																						
Grid D	BH25	1				600																							
Grid D	BH34	5	11800	9262	167	3.4		108																					
Grid 1	TB10	3																2545	30510	63.4									
Grid 1	TB10A	2																	65.2	45.7									
Grid 2	TB5	3																184	282	381									
Grid 2	TB7	3																290	50.1	33.2									
Grid 2	TB9	3																305	55	117									
Grid 4R	TB23	3																203	67.5	129									
Grid 5	TB11	3																1986	81.5	35.7									
Grid 5	TB28	3																1354	160	1692									
Grid 6	TB4	3																102	999	569									
Grid 6	TB6	3																387	30.7	26.3									
Grid 6	TB8	3																94.5	43.4	164									

Grid 8R	TB27	3																59.1	36.2	403									
Grid 9	TB13	3																24.5	50.6	704									
Grid 10	TB3	2																	568	10.1									
Grid 10	TB12	3																2306	53.1	111									
Grid 26	TB2	3																1528	35.7	23.3									
Grid D	TB1	4																11800	9262	2931	167								
Grid D	TB21	4																3099	197	137	111								
Grid D	TB22	3																340	49.5	132									
Grid D	TB26	4																262	155	692	25.8								
Grid 4R	BD1	7																					1410	166	54	120	95	144	164
Grid 8R	BD2	6																					421	1100	574		71	97	105
Grid D	BD3	7																					44	367	164	85	92	109	48
Grid D	BD4	7																					1190	362	1170	453	188	106	60
Zone 2																													
Grid 11	BH170	9	3580	10300	1670	360	1500	64.9	521	103	53.6																		
Grid 12	BH172	9	39	52	540	800	179	133	40.8	54	140																		
Grid 13	BH171	6			383	23	37	144	300		175																		
Grid 14	BH173	7	703			40	57	221	42.2	23.7	206																		
Grid 15	BH135	4	270	33	24	66																							
Grid 15	BH136	4	740	81.4	133	59																							
Grid 15	BH137	2		190		130																							
Grid 15	BH142	0																											
Grid 15	BH143	9	870	220	110	70	44		40	28	51		150																
Grid 15	BH144	4	82	35	270	210																							
Grid 15	BH145	0																											
Grid 15	BH150	2	100	170																									
Grid 16	BH146	2	170	460																									
Grid 16	BH147	2	150	140																									
Grid 16	BH148	6	360			94	200	110	230		170																		
Grid 16	BH149	2	540	990																									
Grid 16	BH177	1		160																									
Grid 26	BH42	1		720																									
Grid 26	BH44	1	3400																										
Grid 26	BH154	3	120	15		96																							
Grid 27	BH153	0																											
Grid 27	BH156	9	762	122	149	252	339	90.8	11.9	26.8	46.7																		
Grid 28	BH158	9	148	51	332	82	86	525	15.3	55.3	20.7																		
Grid 33R	BH155	5	838	257	451	668	51																						
Grid 34	BH157	5	329	481	3340	337	55																						
Grid 34	BH174	2	380	31																									
Grid 34	BH175	0																											
Grid 34	BH176	0																											
Grid 35	BH159	5	519	91	89	164	32																						
Grid 27	TB14	3																104	12.5	30.3									
Grid 27	TB24	4																420	405	452	271								
Zone 1B+1C																													
Grid 17	BH126	0																											
Grid 17	BH128	0																											
Grid 17	BH129	0																											
Grid 17	BH130	0																											
Grid 17	BH131	0																											
Grid 17	BH132	0																											
Grid 17	BH134	7		36	75	370		110	61	49	460																		
Grid 17	BH139	0																											
Grid 18	BH116	6	390	232	63	194	80.3	75.7																					
Grid 18	BH117	7	243	410	47	136	59.8	60.5		68.8																			
Grid 18	BH118	3	245		54	55																							
Grid 18	BH119	0																											
Grid 18	BH120	0																											
Grid 18	BH121	0																											
Grid 18	BH122	0																											
Grid 18	BH123	0																											
Grid 18	BH124	0																											
Grid 18	BH125	6	190	64	47	200					360	130																	
Grid 19	BH179	5		6700		2500	150	530	150																				
Grid 20	BH108	3	58	100	41																								
Grid 20	BH109	3	340	42	15																								
Grid 20	BH110	7	920	50	18	130	40			100	830																		
Grid 20	BH111	2	1800		1830																								
Grid 20	BH112	3	230	40	22																								
Grid 20	BH113	0																											
Grid 20	BH114	3	64	2800	69																								
Grid 20	BH115	4	270	37	41	230																							
Grid 21	BH178	7	430	73	210	59		100	340	43																			
Grid 22	BH151	2	240	98																									
Grid C	BH133	8	410	32	660		65		120	110	29	37																	
Grid 15	TB16	3																740	81.4	133									
Grid 15	TB30	3																189	40.1	64.3									
Grid 16	TB15	3																3751	139	102									
Grid 17	TB17	3																271	143	45									
Grid 17	TB19	3																368	240	244									
Grid 18	TB18	3																378	38	86.7									
Grid 18	TB29	5																679	45.2	677	1715	325							
Grid 20	TB20	3																2937	47.6	86.5									

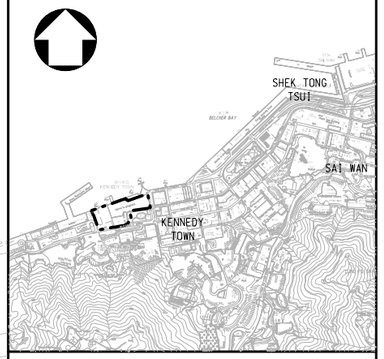
Zone	1A+3	1B+1C	2
Average Concentrations (mg/kg)	657.43	405.24	411.29

Mercury

Grid	Depth (m)	Counter	0.5	1.5	3	4.5	6	7.5	9	10.5	12	13.5	15	16.5	18	19.5	21	D1	D2	D3	D4	D5	0.0M-0.5M	0.5M-1.5M	1.5M-3.0M	3.0M-4.5M	4.5M-6.0M	6.0M-7.5M	7.5M-9.0M
Zone 1A+3																													
Grid 1	BH82	7	0.23	0.1						0.05	0.04	0.04	0.05	0.02															
Grid 1	BH83	0																											
Grid 1	BH85	0																											
Grid 1	BH86	0																											
Grid 2	BH88	0																											
Grid 2	BH91	0																											
Grid 2	BH92	0																											
Grid 2	BH93	0																											
Grid 2	BH94	0																											
Grid 2	BH95	0																											
Grid 2	BH97	0																											
Grid 2	BH99	2	0.03	0.09																									
Grid 3R	BH8	4	3.03	0.87	0.11			0.03																					
Grid 3R	BH96	0																											
Grid 4R	BH1	0																											
Grid 4R	BH3	0																											
Grid 4R	BH5	0																											
Grid 4R	BH7	0																											
Grid 4R	BH9	0																											
Grid 4R	BH10a	5	1.2	0.02	0.16	0.13	0.01																						
Grid 5	BH65	4	0.15	0.09	0.08	0.05																							
Grid 5	BH69	4	0.24	0.09	0.14	0.11																							
Grid 5	BH70	0																											
Grid 5	BH71	0																											
Grid 5	BH72	0																											
Grid 5	BH73	0																											
Grid 5	BH74	0																											
Grid 5	BH76	0																											
Grid 5	BH77	0																											
Grid 5	BH78	7		0.14	0.1	0.17			0.15	0.04	0.15	0.04																	
Grid 5	BH79	0																											
Grid 5	BH84	0																											
Grid 6	BH53	0																											
Grid 6	BH55	0																											
Grid 6	BH56	0																											
Grid 6	BH57	3	0.43	0.98	1.71																								
Grid 6	BH58	0																											
Grid 6	BH59	0																											
Grid 6	BH61	0																											
Grid 6	BH75	0																											
Grid 6	BH81	9	0.25	0.11	0.13	0.29	0.04	0.09	0.05	0.04	0.01																		
Grid 6	BH89	0																											
Grid 6	BH90	0																											
Grid 6	BH100	0																											
Grid 7R	BH31	0																											
Grid 7R	BH32	1							0.04																				
Grid 7R	BH33	3				2.01	1.11	0.2																					
Grid 7R	BH37	0																											
Grid 8R	BH10	0																											
Grid 8R	BH11	0																											
Grid 8R	BH15	0																											
Grid 8R	BH16	2	7.64	226																									
Grid 8R	BH30	0																											
Grid 9	BH54	1									0.01																		
Grid 9	BH62	4	0.17	0.47	0.01		0.96																						
Grid 9	BH63	4	0.13	0.34	0.05		0.1																						
Grid 9	BH64	4	0.05	0.01	0.58	0.01																							
Grid 9	BH66	1	0.13																										
Grid 9	BH68	3		0.3	0.08		0.03																						
Grid 10	BH47	5	6.76	18.6	7.09	2.08	1.07																						
Grid 10	BH48	5	27.9	7.69	19.5	0.4	0.01																						
Grid 10	BH49	2	1.8				1.02																						
Grid 10	BH50	0																											
Grid 10	BH51	0																											
Grid 10	BH52	0																											
Grid 26	BH38	2				0.39		4.19																					
Grid 26	BH40	0																											
Grid 26	BH41	0																											
Grid 26	BH46	4	2.27	4.57	0.71		4.49																						
Grid 33R	BH36	4	0.15	3.95	0.12	0.19																							
Grid AR	BH39	0																											
Grid AR	BH43	2			0.05	0.03																							
Grid AR	BH45	2			12.4	0.82																							
Grid D	BH22	2	0.03	3.54																									
Grid D	BH27	6	2.67	1.57	0.65	2.71	3.76		0.04																				
Grid D	BH27a	6	0.6	0.55	1.12	0.56	1.57	0.02																					
Grid D	BH24	4	0.19	4.83		0.52	0.02																						
Grid D	BH25	1				1.8																							
Grid D	BH34	5	1.99	2.38	0.7	1.37		0.01																					
Grid 1	TB10	3																0.53	0.31	0.02									
Grid 1	TB10A	2																	0.31	0.32									
Grid 2	TB5	3																0.22	0.27	0.41									
Grid 2	TB7	3																0.51	0.02	0.06									
Grid 2	TB9	3																0.55	0.13	0.17									
Grid 4R	TB23	3																0.62	0.07	0.64									
Grid 5	TB11	3																1.47	0.05	0.09									
Grid 5	TB28	3																1.69	0.07	1.71									
Grid 6	TB4	3																0.43	0.98	1.71									
Grid 6	TB6	3																0.02	0.02	0.03									
Grid 6	TB8	3																0.09	0.07	0.39									

Grid 8R	TB27	3																0.48	0.07	0.44									
Grid 9	TB13	3																0.02	0.3	4.47									
Grid 10	TB3	2																	3.72	0.03									
Grid 10	TB12	3																0.12	0.03	0.04									
Grid 26	TB2	3																0.18	0.33	0.38									
Grid D	TB1	4																1.99	2.38	1.14	0.7								
Grid D	TB21	4																2.67	1.57	0.65	2.71								
Grid D	TB22	3																0.77	0.35	0.28									
Grid D	TB26	4																0.89	1.49	4.55	0.32								
Grid 4R	BD1	7																					1.6	0.7	0.6	0.2	0.2	0.2	0.2
Grid 8R	BD2	6																					1.8	0.9	7.9		0.2	0.2	0.2
Grid D	BD3	7																					0.2	2	2	0.8	0.2	0.2	0.2
Grid D	BD4	7																					1.3	0.6	6.9	1.9	0.8	0.2	0.2
Zone 2																													
Grid 11	BH170	9	3.43	1.9	0.68	1.88	0.82	0.05	0.18	0.39	0.1																		
Grid 12	BH172	9	0.23	0.21	1.74	1.18	2.46	0.45	0.27	0.2	0.14																		
Grid 13	BH171	6			0.75	0.06	0.01	0.1	0.09		0.86																		
Grid 14	BH173	7	0.59			0.09	2.51	0.26	1.58	0.11	2.94																		
Grid 15	BH135	0																											
Grid 15	BH136	0																											
Grid 15	BH137	0																											
Grid 15	BH142	0																											
Grid 15	BH143	0																											
Grid 15	BH144	0																											
Grid 15	BH145	0																											
Grid 15	BH150	2	0.89	0.4																									
Grid 16	BH146	2	0.24	0.42																									
Grid 16	BH147	0																											
Grid 16	BH148	4				0.1		0.28	0.91		0.59																		
Grid 16	BH149	2	1.28	1.87																									
Grid 16	BH177	1		2.96																									
Grid 26	BH42	0																											
Grid 26	BH44	5	5.89	0.03	0.04	0.02	0.01																						
Grid 26	BH154	4	0.23	0.11		0.83	8.88																						
Grid 27	BH153	7		2.3	1.66	0.92	24.3		0.01		0.01	0.01																	
Grid 27	BH156	9	1.2	0.77	0.32	1.74	12	6.99	0.03	0.01	0.01																		
Grid 28	BH158	9	8.11	0.65	1.05	1	1.13	31.8	0.04	0.07	0.03																		
Grid 33R	BH155	5	17.5	2.09	1.18	2.77	0.01																						
Grid 34	BH157	5	66.6	2.21	1.23	0.37	0.01																						
Grid 34	BH174	7	1	1.45	57.2	4.59	2.09	0.01	0.01																				
Grid 34	BH175	3	0.72	0.71		0.83																							
Grid 34	BH176	3	2.31	6.56	0.12																								
Grid 35	BH159	5	1.17	0.83	0.83	0.42	0.01																						
Grid 27	TB14	3																0.98	0.11	0.07									
Grid 27	TB24	4																2.3	2.69	1.66	0.92								
Zone 1B+1C																													
Grid 17	BH126	3	2.35	3.64	0.42																								
Grid 17	BH128	3	2.92	6.78	0.32																								
Grid 17	BH129	4	0.3	1.2	0.2		0.38																						
Grid 17	BH130	6	1.14	3.63	4.03	317	2.2	0.34																					
Grid 17	BH131	5	0.46	1.51	0.43	0.16	0.56																						
Grid 17	BH132	3			0.18	0.18	0.73																						
Grid 17	BH134	3		0.03	0.32	0.24																							
Grid 17	BH139	2	0.36	0.25																									
Grid 18	BH116	6	0.62	0.21	0.68	0.61	4.04	0.33																					
Grid 18	BH117	7	1	0.35	0.12	9.66	0.14	0.1		0.13																			
Grid 18	BH118	3	0.47		0.01	0.06																							
Grid 18	BH119	0																											
Grid 18	BH120	0																											
Grid 18	BH121	0																											
Grid 18	BH122	0																											
Grid 18	BH123	0																											
Grid 18	BH124	0																											
Grid 18	BH125	6	2.83	0.09	0.26	2.17					4.94	3.54																	
Grid 19	BH179	5		1.48		0.58	0.13	1.25	8.3																				
Grid 20	BH108	3	0.16	1.11	0.29																								
Grid 20	BH109	3	0.61	0.14	0.06																								
Grid 20	BH110	5	0.99		0.13			0.51		0.16	0.13																		
Grid 20	BH111	2	4.78		4.21																								
Grid 20	BH112	3	0.38	0.08	0.14																								
Grid 20	BH113	0																											
Grid 20	BH114	3	0.16	0.17	0.18																								
Grid 20	BH115	4	0.26	0.19	0.12	0.49																							
Grid 21	BH178	7	0.25	0.19	0.3	0.26		1.8	5.15	4.3																			
Grid 22	BH151	2	0.8	0.14																									
Grid C	BH133	8	1.94	0.6	2.3		0.5		0.34	2.03	3.6	0.03																	
Grid 15	TB16	3																1.08	1.12	0.59									
Grid 15	TB30	3																0.38	0.02	0.06									
Grid 16	TB15	3																6.61	0.94	0.43									
Grid 17	TB17	3																2.78	1.31	1.07									
Grid 17	TB19	3																1.14	3.63	4.03									
Grid 18	TB18	3																1.72	0.5	0.54									
Grid 18	TB29	5																0.6	0.04	2.03	0.72	1.75							
Grid 20	TB20	3																3.88	0.29	0.31									

Zone	1A+3	1B+1C	2
Average Concentrations (mg/kg)	2.40	3.88	2.99



LOCATION PLAN

LEGEND :

———	**PROJECT SITE BOUNDARY**
TB7	SI BOREHOLES OF EIA STUDY
BH66	SI BOREHOLES OF CCI (2003)
BH90/TB8	SI BOREHOLES OF EIA STUDY & SI BOREHOLES OF CCI (2003)
BD1	SI BOREHOLES OF SUPPLEMENTARY EIA STUDY (2013)

Rev	Description	By	Date

Consultant

wsp

Project title

GROUND DECONTAMINATION WORKS AT THE SITE OF EX-KENNEDY TOWN INCINCERATION PLANT/ ABATTOIR AND ADJOINING AREA - DESIGN AND CONSTRUCTION

Drawing title

LOCATION OF BOREHOLES DRILLED DURING SITE INVESTIGATIONS IN 2000, 2003 AND 2013

Drawing no.	Rev.
WSP/CE13/SK/085	–

Drawn	Date	Checked	Approved
CAD	–	–	–

Scale: AS SHOWN (A1) | Status: –

© COPYRIGHT RESERVED

土木工程拓展署
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

0 5 10 15 20 25
METRES
1 : 500

Date : 7/29/2021
Filename : X:\2512199A (CE13-2019-CEDD)\02_Drawing\Sketch\WSP_CE13_SK_085.dgn

APPENDIX 3.6

SOIL CONCENTRATIONS FOR HYDROCARBONS

Soil Concentrations on Hydrocarbons (HC)

Item (#)	Pollutant	Types of Chemical	Grid		
			Zone 1A & 3	Zone 1B & 1C	Zone 2
			Average Concentration (mg/kg*)		
01	Naphthalene	SVOCs (PAH)	0.27	0.17	0.08
02	Phenanthrene	SVOCs (PAH)	0.34	0.80	0.89
03	Anthracene	SVOCs (PAH)	0.25	0.52	0.41
04	Fluoranthene	SVOCs (PAH)	0.42	2.95	1.53
05	Pyrene	SVOCs (PAH)	0.44	3.57	1.90
06	Benzo(a)pyrene	SVOCs (PAH)	0.36	2.75	1.27
07	Benzene	VOCs	0.16	0.14	0.11
08	Toluene	VOCs	0.21	0.14	0.11
09	Ethylbenzene	VOCs	0.21	0.14	0.11
10	Xylenes (Total)	VOCs	0.71	0.42	0.33
11	Acenaphthylene	SVOCs (PAH)	0.24	0.88	0.45
12	Acenaphthene	SVOCs (PAH)	0.23	0.22	0.10
13	Fluorene	SVOCs (PAH)	0.24	0.25	0.23
14	Chrysene	SVOCs (PAH)	0.32	1.61	0.84
15	Benzo(a)anthracene	SVOCs (PAH)	0.29	1.36	1.10
16	Benzo(b)fluoranthene	SVOCs (PAH)	0.50	2.77	1.05
17	Benzo(k)fluoranthene	SVOCs (PAH)	0.21	1.30	0.91
18	Dibenzo(a,h)anthracene	SVOCs (PAH)	0.26	0.47	0.31
19	Indeno(1,2,3-cd)pyrene	SVOCs (PAH)	0.31	0.94	0.51
20	Benzo(g,h,i)perylene	SVOCs (PAH)	0.32	1.15	0.69

Note:

(1) Average Concentration extracted from Appendix 3.4a of Kennedy Town Summplement EIA (EIA-226/2014).

(*) mg/kg means mg of pollutants per kg of soil.

Borehole Depth in Grids

Grid - Borehole #	Corresponding Depth (m)				
	D1	D2	D3	D4	D5
Grid 1 - TB10	0.4	1.2	1.8		
Grid 1 - TB10A		2.6	3.9		
Grid 2 - TB5	1.8	2.5	3.4		
Grid 2 - TB7	1.5	2.7	3.3		
Grid 2 - TB9	1	2.4	3.3		
Grid 4R - TB23	0.5	1.9	3.4		
Grid 5 - TB11	0.5	2.4	3.8		
Grid 5 - TB28	0.4	2.1	3.6		
Grid 6 - TB4	0.5	2.7	3.9		
Grid 6 - TB6	0.6	2.2	3.3		
Grid 6 - TB8	1.1	2.6	3.1		
Grid 8R - TB27	0.5	2	3.4		
Grid 9 - TB13	0.5	1.5	3		
Grid 10 - TB3		2.5	3.8		
Grid 10 - TB12	0.5	2.5	3.5		
Grid 15 - TB16	0.8	2.3	3.6		
Grid 15 - TB30	0.6	2.4	3.5		
Grid 16 - TB15	0.4	2.3	3.5		
Grid 17 - TB17	0.4	2.3	3		
Grid 17 - TB19	0.6	2.3	3.5		
Grid 18 - TB18	1	2.4	3.8		
Grid 18 - TB29	0.5	1	1.3	2	3
Grid 20 - TB20	0.3	1.5	3.2		
Grid 26 - TB2	0.5	1.5	3		
Grid 27 - TB14	0.4	2.5	3.5		
Grid 27 - TB24	1.2	2	3	4	
Grid 32 - TB25	0.9	1.6	2.9	3.9	
Grid D - TB1	0.3	1.3	2.5	3.2	
Grid D - TB21	0.5	2.4	3.5	4.9	
Grid D - TB22	0.5	1.8	2.9		
Grid D - TB26	0.8	1.8	2.7	3.4	

Naphthalene

Grid	Depth (m)	Counter	0.5	1.5	3	4.5	6	7.5	9	10.5	12	13.5	15	16.5	18	19.5	21	D1	D2	D3	D4	D5	0.0M-0.5M	0.5M-1.5M	1.5M-3.0M	3.0M-4.5M	4.5M-6.0M	6.0M-7.5M	7.5M-9.0M
Zone 1A+3																													
Grid 1	BH82	5	0.03	0.03						0.03	0.03	0.03																	
Grid 1	BH83	0																											
Grid 1	BH85	13	0.03	0.03		0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03		0.03												
Grid 1	BH86	0																											
Grid 2	BH88	9			0.03			0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03														
Grid 2	BH91	0																											
Grid 2	BH92	0																											
Grid 2	BH93	0																											
Grid 2	BH94	0																											
Grid 2	BH95	0																											
Grid 2	BH97	0																											
Grid 2	BH99	9	0.03	0.03	0.03	0.03		0.03	0.03	0.03	0.03		0.03																
Grid 3R	BH8	5	0.03	0.03	0.03	0.03		0.03																					
Grid 3R	BH96	0																											
Grid 4R	BH1	0																											
Grid 4R	BH3	0																											
Grid 4R	BH5	0																											
Grid 4R	BH7	0																											
Grid 4R	BH9	4	0.03	0.03	0.03	4.50																							
Grid 4R	BH10a	5	0.14	0.03	0.10	0.03	0.03																						
Grid 5	BH65	0																											
Grid 5	BH69	0																											
Grid 5	BH70	0																											
Grid 5	BH71	0																											
Grid 5	BH72	0																											
Grid 5	BH73	0																											
Grid 5	BH74	0																											
Grid 5	BH76	0																											
Grid 5	BH77	0																											
Grid 5	BH78	6		0.03	0.03				0.03	0.03	0.03	0.03																	
Grid 5	BH79	0																											
Grid 5	BH84	0																											
Grid 6	BH53	0																											
Grid 6	BH55	0																											
Grid 6	BH56	0																											
Grid 6	BH57	0																											
Grid 6	BH58	0																											
Grid 6	BH59	0																											
Grid 6	BH61	10		0.03	0.03	0.03	0.03		0.03	0.03	0.03	0.03	0.03	0.03															
Grid 6	BH75	7		0.03		0.03	0.03		0.03	0.03	0.03		0.03																
Grid 6	BH81	9	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03																		
Grid 6	BH89	0																											
Grid 6	BH90	10	0.50	0.50	0.50	0.03	0.03	0.03	0.03	0.03	0.03	0.03																	
Grid 6	BH100	0																											
Grid 7R	BH31	0																											
Grid 7R	BH32	1							0.03																				
Grid 7R	BH33	0																											
Grid 7R	BH37	0																											
Grid 8R	BH10	4	0.50	0.50	0.50	0.03																							
Grid 8R	BH11	4	0.03	0.03	0.03	0.03																							
Grid 8R	BH15	4	0.03	0.03	0.03	0.03																							
Grid 8R	BH16	0																											
Grid 8R	BH30	0																											
Grid 9	BH54	0																											
Grid 9	BH62	0																											
Grid 9	BH63	0																											
Grid 9	BH64	0																											
Grid 9	BH66	0																											
Grid 9	BH68	9		0.03	0.03		0.03	0.03	0.03	0.03	0.03	0.03	0.03																
Grid 10	BH47	0																											
Grid 10	BH48	0																											
Grid 10	BH49	6	0.03		0.03		0.03	0.03		0.03	0.03																		
Grid 10	BH50	0																											
Grid 10	BH51	0																											
Grid 10	BH52	0																											
Grid 26	BH38	0																											
Grid 26	BH40	0																											
Grid 26	BH41	0																											
Grid 26	BH46	0																											
Grid 33R	BH36	0																											
Grid AR	BH39	0																											
Grid AR	BH43	0																											
Grid AR	BH45	0																											
Grid D	BH22	0																											
Grid D	BH27	0																											
Grid D	BH27a	6	0.03	0.03	0.03	0.03	0.03	0.03																					
Grid D	BH24	0																											
Grid D	BH25	1					0.03																						
Grid D	BH34	0																											
Grid 1	TB10	3																0.50	0.50	0.50									
Grid 1	TB10A	2																	0.50	0.50									
Grid 2	TB5	3																0.50	0.50	0.50									
Grid 2	TB7	3																0.50	0.50	0.50									
Grid 2	TB9	3																0.50	0.50	0.50									
Grid 4R	TB23	3																0.50	0.50	0.50									
Grid 5	TB11	3																0.50	0.50	0.50									
Grid 5	TB28	3																0.50	0.50	0.50									
Grid 6	TB4	3																0.50	0.50	0.50									
Grid 6	TB6	3																0.50	0.50	0.50									
Grid 6	TB8	3																0.50	0.50	0.50									

Grid 8R	TB27	3																0.50	0.50	0.50									
Grid 9	TB13	3																0.50	0.50	0.50									
Grid 10	TB3	2																	0.50	0.50									
Grid 10	TB12	3																0.50	0.50	0.50									
Grid 26	TB2	3																0.50	0.50	0.50									
Grid D	TB1	4																0.50	0.50	0.50	0.50								
Grid D	TB21	4																0.50	0.50	0.50	0.50								
Grid D	TB22	3																0.50	0.50	0.50									
Grid D	TB26	4																0.50	0.50	0.50	0.50								
Grid 4R	BD1	7																					0.50	0.50	0.50	0.50	0.50	0.50	0.50
Grid 8R	BD2	6																					0.50	0.50	0.50		0.50	0.50	0.50
Grid D	BD3	7																					0.50	0.50	0.50	0.50	0.50	0.50	0.50
Grid D	BD4	7																					0.50	4.58	0.50	0.50	0.50	0.50	0.50
Zone 2																													
Grid 11	BH170	9	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03																		
Grid 12	BH172	9	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03																		
Grid 13	BH171	6			0.03	0.03	0.03	0.03		0.03																			
Grid 14	BH173	7	0.03			0.03	0.03	0.03	0.03	0.03	0.03																		
Grid 15	BH135	0																											
Grid 15	BH136	0																											
Grid 15	BH137	0																											
Grid 15	BH142	0																											
Grid 15	BH143	9	0.03	0.03	0.03	0.03	0.03		0.03	0.03	0.03		0.03																
Grid 15	BH144	0																											
Grid 15	BH145	0																											
Grid 15	BH150	8	0.03	0.03	0.03			0.03	0.03	0.03	0.03	0.03																	
Grid 16	BH146	7	0.03	0.03	0.03	0.03	0.03	0.03		0.42																			
Grid 16	BH147	8	0.03	0.03		0.03	0.03	0.55	0.03	0.16	0.03																		
Grid 16	BH148	6	0.03			0.03	0.03	0.03	0.03		0.03																		
Grid 16	BH149	8	0.03	0.03	0.03	0.03	0.03	0.32	1.50	0.03																			
Grid 16	BH177	6		0.03			0.03	0.03	0.03	0.19	0.17																		
Grid 26	BH42	0																											
Grid 26	BH44	0																											
Grid 26	BH154	3	0.03	0.03		0.03																							
Grid 27	BH153	0																											
Grid 27	BH156	9	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03																		
Grid 28	BH158	9	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03																		
Grid 33R	BH155	5	0.03	0.03	0.03	0.03	0.03																						
Grid 34	BH157	5	0.03	0.03	0.03	0.03	0.03																						
Grid 34	BH174	0																											
Grid 34	BH175	0																											
Grid 34	BH176	0																											
Grid 35	BH159	5	0.03	0.03	0.03	0.03	0.03																						
Grid 27	TB14	3																0.50	0.50	0.50									
Grid 27	TB24	4																0.50	0.50	0.50	0.50								
Zone 1B+1C																													
Grid 17	BH126	0																											
Grid 17	BH128	0																											
Grid 17	BH129	0																											
Grid 17	BH130	0																											
Grid 17	BH131	0																											
Grid 17	BH132	0																											
Grid 17	BH134	7		0.03	0.03	0.03		1.20	0.03	0.03	0.03																		
Grid 17	BH139	0																											
Grid 18	BH116	0																											
Grid 18	BH117	0																											
Grid 18	BH118	0																											
Grid 18	BH119	0																											
Grid 18	BH120	0																											
Grid 18	BH121	0																											
Grid 18	BH122	0																											
Grid 18	BH123	0																											
Grid 18	BH124	0																											
Grid 18	BH125	6	0.03	0.03	0.03	0.03					0.03	0.03																	
Grid 19	BH179	5		0.03		0.03	0.03	0.03	0.03																				
Grid 20	BH108	6	0.03	0.03	0.03	0.03		0.03		0.03																			
Grid 20	BH109	6	0.03	0.03	0.03			0.03	0.03		0.03																		
Grid 20	BH110	7	0.03	0.03	0.03	0.03	0.03			0.03	0.03																		
Grid 20	BH111	3	0.03		0.03						0.03																		
Grid 20	BH112	8	0.03	0.03	0.03	0.03	0.03	0.03	0.03		0.67																		
Grid 20	BH113	0																											
Grid 20	BH114	7	0.03	0.03	0.03	0.03	0.03	0.03	0.03																				
Grid 20	BH115	8	0.03	0.03	0.03	0.03	0.03		0.03	0.03	0.03																		
Grid 21	BH178	7	0.03	0.03	0.03	0.03		0.03	0.03	0.03																			
Grid 22	BH151	9	0.03	0.03		0.93	0.03	0.03	0.03	0.03	0.03	0.03																	
Grid C	BH133	8	0.03	0.17	0.03		0.03		0.03	0.03	0.03	0.03																	
Grid 15	TB16	3																0.50	0.50	0.50									
Grid 15	TB30	3																0.50	0.50	0.50									
Grid 16	TB15	3																0.50	0.50	0.50									
Grid 17	TB17	3																0.50	0.50	0.50									
Grid 17	TB19	3																0.50	0.50	0.50									
Grid 18	TB18	3																0.50	0.50	0.50									
Grid 18	TB29	5																0.50	0.50	0.50	0.50	0.50							
Grid 20	TB20	3																0.50	1.00	0.50									

Zone	1A+3	1B+1C	2
Average Concentrations (mg/kg)	0.28	0.17	0.08

Phenanthrene

Grid	Depth (m)	Counter	0.5	1.5	3	4.5	6	7.5	9	10.5	12	13.5	15	16.5	18	19.5	21	D1	D2	D3	D4	D5	0.0M-0.5M	0.5M-1.5M	1.5M-3.0M	3.0M-4.5M	4.5M-6.0M	6.0M-7.5M	7.5M-9.0M
Zone 1A+3																													
Grid 1	BH82	5	0.03	0.03						0.03	0.03	0.03																	
Grid 1	BH83	0																											
Grid 1	BH85	13	0.03	0.03		0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03		0.03												
Grid 1	BH86	0																											
Grid 2	BH88	9			0.03			0.03	0.16	0.03	0.03	0.03	0.03	0.03	0.03														
Grid 2	BH91	0																											
Grid 2	BH92	0																											
Grid 2	BH93	0																											
Grid 2	BH94	0																											
Grid 2	BH95	0																											
Grid 2	BH97	0																											
Grid 2	BH99	9	0.03	0.03	0.03	0.03		0.03	0.03	0.03	0.03		0.03																
Grid 3R	BH8	5	0.25	0.06	0.03	0.03		0.03																					
Grid 3R	BH96	0																											
Grid 4R	BH1	0																											
Grid 4R	BH3	0																											
Grid 4R	BH5	0																											
Grid 4R	BH7	0																											
Grid 4R	BH9	4	0.03	0.03	0.03	1.10																							
Grid 4R	BH10a	5	3.50	0.03	0.72	0.03	0.03																						
Grid 5	BH65	0																											
Grid 5	BH69	0																											
Grid 5	BH70	0																											
Grid 5	BH71	0																											
Grid 5	BH72	0																											
Grid 5	BH73	0																											
Grid 5	BH74	0																											
Grid 5	BH76	0																											
Grid 5	BH77	0																											
Grid 5	BH78	6		0.03	0.03				0.23	0.09	0.03	0.03																	
Grid 5	BH79	0																											
Grid 5	BH84	0																											
Grid 6	BH53	0																											
Grid 6	BH55	0																											
Grid 6	BH56	0																											
Grid 6	BH57	0																											
Grid 6	BH58	0																											
Grid 6	BH59	0																											
Grid 6	BH61	10		0.03	0.03	0.03	0.03		0.03	0.03	0.03	0.03	0.03	0.03															
Grid 6	BH75	7		0.03		0.03	0.03		0.03	0.03	0.03		0.03																
Grid 6	BH81	9	0.07	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03																		
Grid 6	BH89	0																											
Grid 6	BH90	10	0.50	0.50	0.50	0.03	0.03	0.03	0.03	0.03	0.03	0.03																	
Grid 6	BH100	0																											
Grid 7R	BH31	0																											
Grid 7R	BH32	1							0.03																				
Grid 7R	BH33	0																											
Grid 7R	BH37	0																											
Grid 8R	BH10	4	0.50	0.50	0.50	0.03																							
Grid 8R	BH11	4	0.03	0.03	0.03	0.70																							
Grid 8R	BH15	4	0.03	0.03	0.03	0.03																							
Grid 8R	BH16	0																											
Grid 8R	BH30	0																											
Grid 9	BH54	0																											
Grid 9	BH62	0																											
Grid 9	BH63	0																											
Grid 9	BH64	0																											
Grid 9	BH66	0																											
Grid 9	BH68	9		0.03	0.03		0.03	0.19	0.03	0.03	0.03	0.03	0.03																
Grid 10	BH47	0																											
Grid 10	BH48	0																											
Grid 10	BH49	6	0.09		0.15		0.03	0.03		0.03	0.03																		
Grid 10	BH50	0																											
Grid 10	BH51	0																											
Grid 10	BH52	0																											
Grid 26	BH38	0																											
Grid 26	BH40	0																											
Grid 26	BH41	0																											
Grid 26	BH46	0																											
Grid 33R	BH36	0																											
Grid AR	BH39	0																											
Grid AR	BH43	0																											
Grid AR	BH45	0																											
Grid D	BH22	0																											
Grid D	BH27	0																											
Grid D	BH27a	6	0.03	0.03	0.03	0.15	0.09	0.03																					
Grid D	BH24	0																											
Grid D	BH25	1					0.03																						
Grid D	BH34	0																											
Grid 1	TB10	3																0.50	0.50	0.50									
Grid 1	TB10A	2																	0.50	0.50									
Grid 2	TB5	3																0.50	0.50	0.50									
Grid 2	TB7	3																0.50	0.50	0.50									
Grid 2	TB9	3																0.50	0.50	0.50									
Grid 4R	TB23	3																0.50	0.50	0.50									
Grid 5	TB11	3																0.50	0.50	0.50									
Grid 5	TB28	3																0.50	0.50	0.50									
Grid 6	TB4	3																0.50	0.50	0.50									
Grid 6	TB6	3																0.50	0.50	0.50									
Grid 6	TB8	3																0.50	0.50	3.80									

Grid 8R	TB27	3																0.50	0.50	0.50									
Grid 9	TB13	3																0.50	0.50	0.50									
Grid 10	TB3	2																	0.50	0.50									
Grid 10	TB12	3																0.50	0.50	0.50									
Grid 26	TB2	3																0.50	0.50	0.50									
Grid D	TB1	4																0.50	0.50	0.50	0.50								
Grid D	TB21	4																0.50	0.50	0.50	0.50								
Grid D	TB22	3																0.50	0.50	0.50									
Grid D	TB26	4																0.80	0.50	1.00	0.50								
Grid 4R	BD1	7																					0.50	0.50	0.50	0.50	0.50	0.50	0.50
Grid 8R	BD2	6																					0.50	0.50	2.05		0.50	0.50	0.50
Grid D	BD3	7																					0.50	0.50	0.50	0.50	0.50	0.50	0.50
Grid D	BD4	7																					1.50	6.51	2.99	0.50	0.50	0.50	0.50
Zone 2																													
Grid 11	BH170	9	0.03	0.03	2.90	0.03	0.03	0.03	0.03	0.03	0.03																		
Grid 12	BH172	9	0.03	0.03	0.03	0.03	0.03	0.03	1.70	0.03	0.03																		
Grid 13	BH171	6			0.03	0.03	0.03	0.03	0.03		0.03																		
Grid 14	BH173	7	0.03			0.03	0.03	0.90	0.03	0.03	0.03																		
Grid 15	BH135	0																											
Grid 15	BH136	0																											
Grid 15	BH137	0																											
Grid 15	BH142	0																											
Grid 15	BH143	9	0.11	0.03	0.03	0.03	0.03		0.03	0.03	0.03		0.03																
Grid 15	BH144	0																											
Grid 15	BH145	0																											
Grid 15	BH150	8	0.03	0.23	0.03			0.16	0.03	0.03	0.15	0.06																	
Grid 16	BH146	7	0.03	0.03	0.03	0.03	0.03	0.03		6.30																			
Grid 16	BH147	8	0.03	0.03		0.03	0.17	58.00	0.09	0.15	0.08																		
Grid 16	BH148	6	0.07			0.03	0.13	0.18	0.11		0.03																		
Grid 16	BH149	8	0.08	0.24	0.17	0.06	0.71	7.10	20.00	0.07																			
Grid 16	BH177	6		0.26			0.03	0.11	0.03	2.00	0.79																		
Grid 26	BH42	0																											
Grid 26	BH44	0																											
Grid 26	BH154	3	0.03	0.03		0.03																							
Grid 27	BH153	0																											
Grid 27	BH156	9	0.03	0.03	0.03	0.03	1.10	0.03	0.03	0.03	0.03																		
Grid 28	BH158	9	0.03	0.03	0.03	0.03	0.03	0.60	0.03	0.03	0.03																		
Grid 33R	BH155	5	1.50	0.03	0.03	0.03	0.03																						
Grid 34	BH157	5	0.03	0.03	0.03	0.03	0.03																						
Grid 34	BH174	0																											
Grid 34	BH175	0																											
Grid 34	BH176	0																											
Grid 35	BH159	5	0.03	0.03	0.03	0.03	0.03																						
Grid 27	TB14	3																0.50	0.50	0.50									
Grid 27	TB24	4																0.50	0.50	0.50	0.50								
Zone 1B+1C																													
Grid 17	BH126	0																											
Grid 17	BH128	0																											
Grid 17	BH129	0																											
Grid 17	BH130	0																											
Grid 17	BH131	0																											
Grid 17	BH132	0																											
Grid 17	BH134	7		0.03	0.41	0.17		41.00	0.03	0.03	0.03																		
Grid 17	BH139	0																											
Grid 18	BH116	0																											
Grid 18	BH117	0																											
Grid 18	BH118	0																											
Grid 18	BH119	0																											
Grid 18	BH120	0																											
Grid 18	BH121	0																											
Grid 18	BH122	0																											
Grid 18	BH123	0																											
Grid 18	BH124	0																											
Grid 18	BH125	6	0.03	0.03	0.03	0.03					0.17	0.09																	
Grid 19	BH179	5		0.19		0.18	1.40	0.27	0.03																				
Grid 20	BH108	6	0.03	0.07	0.03	0.03		0.03		0.03																			
Grid 20	BH109	6	0.38	0.10	0.03			0.54	0.03		0.08																		
Grid 20	BH110	7	0.03	0.03	0.03	0.75	0.03			0.09	0.03																		
Grid 20	BH111	3	0.55		0.03						0.03																		
Grid 20	BH112	8	0.03	0.03	0.03	0.03	0.15	0.63	0.28		3.70																		
Grid 20	BH113	0																											
Grid 20	BH114	7	0.03	0.11	0.03	0.03	0.06	0.03	0.03																				
Grid 20	BH115	8	0.03	0.03	0.03	0.03	0.03		0.03	0.03	0.03																		
Grid 21	BH178	7	0.11	0.03	0.03	0.03		0.03	0.03	0.03																			
Grid 22	BH151	9	0.03	0.08		9.10	0.08	0.03	0.06	0.03	0.03	0.03																	
Grid C	BH133	8	0.11	0.87	0.09		0.03		0.03	0.06	0.03	0.03																	
Grid 15	TB16	3																0.50	0.50	0.50									
Grid 15	TB30	3																0.50	0.50	0.50									
Grid 16	TB15	3																0.80	0.50	0.50									
Grid 17	TB17	3																0.50	0.50	0.50									
Grid 17	TB19	3																0.50	0.50	0.50									
Grid 18	TB18	3																0.50	0.50	0.50									
Grid 18	TB29	5																0.50	0.50	0.50	0.50	0.50							
Grid 20	TB20	3																7.50	6.80	0.50									

Zone	1A+3	1B+1C	2
Average Concentrations (mg/kg)	0.34	0.80	0.89

Anthracene

Grid	Depth (m)	Counter	0.5	1.5	3	4.5	6	7.5	9	10.5	12	13.5	15	16.5	18	19.5	21	D1	D2	D3	D4	D5	0.0M-0.5M	0.5M-1.5M	1.5M-3.0M	3.0M-4.5M	4.5M-6.0M	6.0M-7.5M	7.5M-9.0M
Zone 1A+3																													
Grid 1	BH82	5	0.03	0.03						0.03	0.03	0.03																	
Grid 1	BH83	0																											
Grid 1	BH85	13	0.03	0.03		0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03		0.03												
Grid 1	BH86	0																											
Grid 2	BH88	9			0.03			0.03	0.08	0.03	0.03	0.03	0.03	0.03	0.03														
Grid 2	BH91	0																											
Grid 2	BH92	0																											
Grid 2	BH93	0																											
Grid 2	BH94	0																											
Grid 2	BH95	0																											
Grid 2	BH97	0																											
Grid 2	BH99	9	0.03	0.03	0.03	0.03		0.03	0.03	0.03	0.03		0.03																
Grid 3R	BH8	5	0.17	0.11	0.03	0.03		0.03																					
Grid 3R	BH96	0																											
Grid 4R	BH1	0																											
Grid 4R	BH3	0																											
Grid 4R	BH5	0																											
Grid 4R	BH7	0																											
Grid 4R	BH9	4	0.03	0.03	0.03	0.03																							
Grid 4R	BH10a	5	2.10	0.03	0.39	0.03	0.03																						
Grid 5	BH65	0																											
Grid 5	BH69	0																											
Grid 5	BH70	0																											
Grid 5	BH71	0																											
Grid 5	BH72	0																											
Grid 5	BH73	0																											
Grid 5	BH74	0																											
Grid 5	BH76	0																											
Grid 5	BH77	0																											
Grid 5	BH78	6		0.03	0.03				0.11	0.03	0.03	0.03																	
Grid 5	BH79	0																											
Grid 5	BH84	0																											
Grid 6	BH53	0																											
Grid 6	BH55	0																											
Grid 6	BH56	0																											
Grid 6	BH57	0																											
Grid 6	BH58	0																											
Grid 6	BH59	0																											
Grid 6	BH61	10		0.03	0.03	0.03	0.03		0.03	0.03	0.03	0.03	0.03	0.03															
Grid 6	BH75	7		0.03		0.03	0.03		0.03	0.03	0.03		0.03																
Grid 6	BH81	9	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03																		
Grid 6	BH89	0																											
Grid 6	BH90	10	0.50	0.50	0.50	0.03	0.03	0.03	0.03	0.03	0.03	0.03																	
Grid 6	BH100	0																											
Grid 7R	BH31	0																											
Grid 7R	BH32	1							0.03																				
Grid 7R	BH33	0																											
Grid 7R	BH37	0																											
Grid 8R	BH10	4	0.50	0.50	0.50	0.03																							
Grid 8R	BH11	4	0.03	0.03	0.03	0.03																							
Grid 8R	BH15	4	0.03	0.03	0.03	0.03																							
Grid 8R	BH16	0																											
Grid 8R	BH30	0																											
Grid 9	BH54	0																											
Grid 9	BH62	0																											
Grid 9	BH63	0																											
Grid 9	BH64	0																											
Grid 9	BH66	0																											
Grid 9	BH68	9		0.03	0.03		0.03	0.08	0.03	0.03	0.03	0.03	0.03																
Grid 10	BH47	0																											
Grid 10	BH48	0																											
Grid 10	BH49	6	0.15		0.07		0.03	0.03		0.03	0.03																		
Grid 10	BH50	0																											
Grid 10	BH51	0																											
Grid 10	BH52	0																											
Grid 26	BH38	0																											
Grid 26	BH40	0																											
Grid 26	BH41	0																											
Grid 26	BH46	0																											
Grid 33R	BH36	0																											
Grid AR	BH39	0																											
Grid AR	BH43	0																											
Grid AR	BH45	0																											
Grid D	BH22	0																											
Grid D	BH27	0																											
Grid D	BH27a	6	0.03	0.03	0.03	0.06	0.03	0.03																					
Grid D	BH24	0																											
Grid D	BH25	1					0.03																						
Grid D	BH34	0																											
Grid 1	TB10	3																0.50	0.50	0.50									
Grid 1	TB10A	2																	0.50	0.50									
Grid 2	TB5	3																0.50	0.50	0.50									
Grid 2	TB7	3																0.50	0.50	0.50									
Grid 2	TB9	3																0.50	0.50	0.50									
Grid 4R	TB23	3																0.50	0.50	0.50									
Grid 5	TB11	3																0.50	0.50	0.50									
Grid 5	TB28	3																0.50	0.50	0.50									
Grid 6	TB4	3																0.50	0.50	0.50									
Grid 6	TB6	3																0.50	0.50	0.50									
Grid 6	TB8	3																0.50	0.50	0.80									

Grid 8R	TB27	3																0.50	0.50	0.50									
Grid 9	TB13	3																0.50	0.50	0.50									
Grid 10	TB3	2																	0.50	0.50									
Grid 10	TB12	3																0.50	0.50	0.50									
Grid 26	TB2	3																0.50	0.50	0.50									
Grid D	TB1	4																0.50	0.50	0.50	0.50								
Grid D	TB21	4																0.50	0.50	0.50	0.50								
Grid D	TB22	3																0.50	0.50	0.50									
Grid D	TB26	4																0.50	0.50	0.50	0.50								
Grid 4R	BD1	7																					0.50	0.50	0.50	0.50	0.50	0.50	0.50
Grid 8R	BD2	6																					0.50	0.50	0.53		0.50	0.50	0.50
Grid D	BD3	7																					0.50	0.50	0.50	0.50	0.50	0.50	0.50
Grid D	BD4	7																					0.50	0.64	0.50	0.50	0.50	0.50	0.50
Zone 2																													
Grid 11	BH170	9	0.03	0.03	0.60	0.03	0.03	0.03	0.03	0.03	0.03																		
Grid 12	BH172	9	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03																		
Grid 13	BH171	6			0.03	0.03	0.03	0.03		0.03																			
Grid 14	BH173	7	0.03			0.03	0.03	0.03	0.03	0.03	0.03																		
Grid 15	BH135	0																											
Grid 15	BH136	0																											
Grid 15	BH137	0																											
Grid 15	BH142	0																											
Grid 15	BH143	9	0.14	0.03	0.03	0.03	0.03		0.03	0.03	0.03		0.03																
Grid 15	BH144	0																											
Grid 15	BH145	0																											
Grid 15	BH150	8	0.03	0.21	0.03			0.03	0.03	0.03	0.10	0.03																	
Grid 16	BH146	7	0.03	0.03	0.03	0.03	0.03	0.03		2.50																			
Grid 16	BH147	8	0.03	0.03		0.09	0.18	27.00	0.07	0.15	0.03																		
Grid 16	BH148	6	0.08			0.07	0.18	0.21	0.08		0.03																		
Grid 16	BH149	8	0.07	0.21	0.06	0.03	0.38	2.50	8.60	0.07																			
Grid 16	BH177	6		0.30			0.03	0.03	0.03	1.00	0.62																		
Grid 26	BH42	0																											
Grid 26	BH44	0																											
Grid 26	BH154	3	0.06	0.03		0.03																							
Grid 27	BH153	0																											
Grid 27	BH156	9	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03																		
Grid 28	BH158	9	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03																		
Grid 33R	BH155	5	0.03	0.03	0.03	0.03	0.03																						
Grid 34	BH157	5	0.03	0.03	0.03	0.03	0.03																						
Grid 34	BH174	0																											
Grid 34	BH175	0																											
Grid 34	BH176	0																											
Grid 35	BH159	5	0.03	0.03	0.03	0.03	0.03																						
Grid 27	TB14	3																0.50	0.50	0.50									
Grid 27	TB24	4																0.50	0.50	0.50	0.50								
Zone 1B+1C																													
Grid 17	BH126	0																											
Grid 17	BH128	0																											
Grid 17	BH129	0																											
Grid 17	BH130	0																											
Grid 17	BH131	0																											
Grid 17	BH132	0																											
Grid 17	BH134	7		0.03	0.33	0.13		7.50	0.03	0.03	0.03																		
Grid 17	BH139	0																											
Grid 18	BH116	0																											
Grid 18	BH117	0																											
Grid 18	BH118	0																											
Grid 18	BH119	0																											
Grid 18	BH120	0																											
Grid 18	BH121	0																											
Grid 18	BH122	0																											
Grid 18	BH123	0																											
Grid 18	BH124	0																											
Grid 18	BH125	6	0.03	0.03	0.03	0.03					0.08	0.07																	
Grid 19	BH179	5		0.44		0.07	0.38	0.16	0.03																				
Grid 20	BH108	6	0.03	0.09	0.03	0.03		0.03		0.03																			
Grid 20	BH109	6	0.25	0.15	0.03			0.21	0.03		0.06																		
Grid 20	BH110	7	0.03	0.03	0.03	0.28	0.03			0.03	0.03																		
Grid 20	BH111	3	0.19		0.03						0.03																		
Grid 20	BH112	8	0.03	0.03	0.03	0.03	0.03	0.13	0.07		1.70																		
Grid 20	BH113	0																											
Grid 20	BH114	7	0.03	0.11	0.03	0.03	0.44	0.03	0.03																				
Grid 20	BH115	8	0.03	0.03	0.03	0.03	0.03		0.03	0.18	0.03																		
Grid 21	BH178	7	0.03	0.03	0.03	0.03		0.03	0.03	0.03																			
Grid 22	BH151	9	0.08	0.03		20.00	0.11	0.03	0.07	0.03	0.03	0.03																	
Grid C	BH133	8	0.09	4.00	0.26		0.03		0.03	0.06	0.03	0.03																	
Grid 15	TB16	3																0.50	0.50	0.50									
Grid 15	TB30	3																0.50	0.50	0.50									
Grid 16	TB15	3																0.50	0.50	0.50									
Grid 17	TB17	3																0.50	0.50	0.50									
Grid 17	TB19	3																0.50	0.50	0.50									
Grid 18	TB18	3																0.50	0.50	0.50									
Grid 18	TB29	5																0.50	0.50	0.50	0.50	0.50							
Grid 20	TB20	3																0.50	7.30	0.50									

Zone	1A+3	1B+1C	2
Average Concentrations (mg/kg)	0.25	0.52	0.41

Fluoranthene

Grid	Depth (m)	Counter	0.5	1.5	3	4.5	6	7.5	9	10.5	12	13.5	15	16.5	18	19.5	21	D1	D2	D3	D4	D5	0.0M-0.5M	0.5M-1.5M	1.5M-3.0M	3.0M-4.5M	4.5M-6.0M	6.0M-7.5M	7.5M-9.0M
Zone 1A+3																													
Grid 1	BH82	5	0.09	0.09						0.09	0.09	0.09																	
Grid 1	BH83	0																											
Grid 1	BH85	13	0.09	0.09		0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09		0.09												
Grid 1	BH86	0																											
Grid 2	BH88	9			0.09			0.09	0.32	0.09	0.09	0.09	0.09	0.09	0.09														
Grid 2	BH91	0																											
Grid 2	BH92	0																											
Grid 2	BH93	0																											
Grid 2	BH94	0																											
Grid 2	BH95	0																											
Grid 2	BH97	0																											
Grid 2	BH99	9	0.09	0.09	0.09	0.09		0.09	0.09	0.09	0.09		0.09																
Grid 3R	BH8	5	0.90	0.39	0.09	0.09		0.09																					
Grid 3R	BH96	0																											
Grid 4R	BH1	0																											
Grid 4R	BH3	0																											
Grid 4R	BH5	0																											
Grid 4R	BH7	0																											
Grid 4R	BH9	4	0.09	0.09	0.09	1.70																							
Grid 4R	BH10a	5	6.80	0.09	2.10	0.09	0.09																						
Grid 5	BH65	0																											
Grid 5	BH69	0																											
Grid 5	BH70	0																											
Grid 5	BH71	0																											
Grid 5	BH72	0																											
Grid 5	BH73	0																											
Grid 5	BH74	0																											
Grid 5	BH76	0																											
Grid 5	BH77	0																											
Grid 5	BH78	6		0.09	0.09				0.51	0.28	0.09	0.09																	
Grid 5	BH79	0																											
Grid 5	BH84	0																											
Grid 6	BH53	0																											
Grid 6	BH55	0																											
Grid 6	BH56	0																											
Grid 6	BH57	0																											
Grid 6	BH58	0																											
Grid 6	BH59	0																											
Grid 6	BH61	10		0.09	0.09	0.09	0.09		0.18	0.39	0.09	0.09	0.09	0.09															
Grid 6	BH75	7		0.09		0.09	0.09		0.09	0.09	0.09		0.09																
Grid 6	BH81	9	0.22	0.09	0.09	0.09	0.09	0.09	0.09	0.27	0.09																		
Grid 6	BH89	0																											
Grid 6	BH90	10	0.50	0.50	4.80	0.09	0.09	0.09	0.09	0.18	0.09	0.09																	
Grid 6	BH100	0																											
Grid 7R	BH31	0																											
Grid 7R	BH32	1							0.09																				
Grid 7R	BH33	0																											
Grid 7R	BH37	0																											
Grid 8R	BH10	4	0.50	0.50	1.40	0.09																							
Grid 8R	BH11	4	0.09	0.09	0.09	0.09																							
Grid 8R	BH15	4	1.10	0.09	0.09	1.00																							
Grid 8R	BH16	0																											
Grid 8R	BH30	0																											
Grid 9	BH54	0																											
Grid 9	BH62	0																											
Grid 9	BH63	0																											
Grid 9	BH64	0																											
Grid 9	BH66	0																											
Grid 9	BH68	9		0.09	0.09		0.09	0.30	0.09	0.09	0.09	0.09	0.09																
Grid 10	BH47	0																											
Grid 10	BH48	0																											
Grid 10	BH49	6	0.32		0.25		0.09	0.24		0.09	0.09																		
Grid 10	BH50	0																											
Grid 10	BH51	0																											
Grid 10	BH52	0																											
Grid 26	BH38	0																											
Grid 26	BH40	0																											
Grid 26	BH41	0																											
Grid 26	BH46	0																											
Grid 33R	BH36	0																											
Grid AR	BH39	0																											
Grid AR	BH43	0																											
Grid AR	BH45	0																											
Grid D	BH22	0																											
Grid D	BH27	0																											
Grid D	BH27a	6	0.09	0.09	0.09	0.25	0.28	0.09																					
Grid D	BH24	0																											
Grid D	BH25	1					0.09																						
Grid D	BH34	0																											
Grid 1	TB10	3																0.50	0.50	0.50									
Grid 1	TB10A	2																	0.50	0.50									
Grid 2	TB5	3																0.60	0.50	0.50									
Grid 2	TB7	3																0.50	0.50	0.50									
Grid 2	TB9	3																0.50	1.20	0.50									
Grid 4R	TB23	3																0.50	0.50	0.50									
Grid 5	TB11	3																0.50	0.50	0.50									
Grid 5	TB28	3																0.50	0.50	0.90									
Grid 6	TB4	3																0.50	0.50	0.50									
Grid 6	TB6	3																0.50	0.50	0.50									
Grid 6	TB8	3																0.50	0.50	4.80									

Grid 8R	TB27	3																0.50	0.50	1.40									
Grid 9	TB13	3																0.50	0.50	0.50									
Grid 10	TB3	2																	0.90	0.50									
Grid 10	TB12	3																0.50	0.50	0.50									
Grid 26	TB2	3																0.50	0.50	0.50									
Grid D	TB1	4																0.50	1.10	0.50	0.50								
Grid D	TB21	4																0.70	0.50	0.50	0.50								
Grid D	TB22	3																0.50	0.50	0.50									
Grid D	TB26	4																0.60	0.50	0.50	0.50								
Grid 4R	BD1	7																					0.50	0.50	0.50	0.50	0.50	0.50	0.50
Grid 8R	BD2	6																					0.53	0.65	3.88		0.50	0.50	0.50
Grid D	BD3	7																					0.50	0.53	0.50	0.50	0.50	0.50	0.50
Grid D	BD4	7																					0.50	0.50	0.50	0.50	0.77	0.50	0.50
Zone 2																													
Grid 11	BH170	9	0.50	0.09	4.00	0.09	0.90	0.09	0.70	0.09	0.60																		
Grid 12	BH172	9	0.09	0.09	0.09	0.09	0.09	0.60	4.30	0.80	0.09																		
Grid 13	BH171	6			0.09	0.09	0.09	0.09	0.09		0.09																		
Grid 14	BH173	7	0.09			0.09	0.09	0.09	0.09	0.09	2.20																		
Grid 15	BH135	0																											
Grid 15	BH136	0																											
Grid 15	BH137	0																											
Grid 15	BH142	0																											
Grid 15	BH143	9	0.70	0.26	0.09	0.09	0.09		0.09	0.09	0.09		0.09																
Grid 15	BH144	0																											
Grid 15	BH145	0																											
Grid 15	BH150	8	0.09	0.79	0.09			0.23	0.09	0.09	0.44	0.19																	
Grid 16	BH146	7	0.09	0.09	0.09	0.09	0.09	0.09		17.00																			
Grid 16	BH147	8	0.09	0.09		0.73	0.18	110.00	0.23	1.30	0.27																		
Grid 16	BH148	6	0.29			0.23	1.20	0.09	1.70		0.09																		
Grid 16	BH149	8	0.09	0.09	0.39	0.29	2.90	0.55	3.20	0.09																			
Grid 16	BH177	6		0.86			0.09	0.34	0.09	8.30	3.50																		
Grid 26	BH42	0																											
Grid 26	BH44	0																											
Grid 26	BH154	3	0.27	0.09		0.09																							
Grid 27	BH153	0																											
Grid 27	BH156	9	0.60	0.09	0.09	0.09	3.10	0.09	0.09	0.09	0.09																		
Grid 28	BH158	9	0.60	0.09	1.20	0.09	0.09	1.60	0.09	0.09	0.09																		
Grid 33R	BH155	5	2.30	0.09	0.09	0.09	0.09																						
Grid 34	BH157	5	0.09	0.80	0.70	0.09	0.09																						
Grid 34	BH174	0																											
Grid 34	BH175	0																											
Grid 34	BH176	0																											
Grid 35	BH159	5	0.09	0.09	0.09	0.09	0.09																						
Grid 27	TB14	3																0.50	0.50	0.50									
Grid 27	TB24	4																0.70	0.50	0.80	0.50								
Zone 1B+1C																													
Grid 17	BH126	0																											
Grid 17	BH128	0																											
Grid 17	BH129	0																											
Grid 17	BH130	0																											
Grid 17	BH131	0																											
Grid 17	BH132	0																											
Grid 17	BH134	7		0.09	1.20	0.60		60.00	0.09	0.09	0.09																		
Grid 17	BH139	0																											
Grid 18	BH116	0																											
Grid 18	BH117	0																											
Grid 18	BH118	0																											
Grid 18	BH119	0																											
Grid 18	BH120	0																											
Grid 18	BH121	0																											
Grid 18	BH122	0																											
Grid 18	BH123	0																											
Grid 18	BH124	0																											
Grid 18	BH125	6	0.09	0.09	0.09	0.09					0.54	0.48																	
Grid 19	BH179	5		0.09		0.09	0.09	0.09	0.34																				
Grid 20	BH108	6	0.09	0.09	0.09	0.09		0.09		0.09																			
Grid 20	BH109	6	0.36	0.09	0.09			0.89	0.09		0.32																		
Grid 20	BH110	7	0.09	0.09	0.09	1.70	0.09			0.09	0.09																		
Grid 20	BH111	3	1.40		0.09						0.09																		
Grid 20	BH112	8	0.09	0.09	0.09	0.09	0.28	1.10	0.62		25.00																		
Grid 20	BH113	0																											
Grid 20	BH114	7	0.09	0.44	0.09	0.09	1.10	0.09	0.09																				
Grid 20	BH115	8	0.09	0.09	0.09	0.09	0.09		0.09	0.75	0.09																		
Grid 21	BH178	7	0.37	0.09	0.09	0.09		0.09	0.09	0.09																			
Grid 22	BH151	9	0.22	0.23		180.00	0.38	0.09	0.29	0.09	0.09	0.09																	
Grid C	BH133	8	0.21	6.40	0.53		0.09		0.09	0.23	0.09	0.09																	
Grid 15	TB16	3																0.50	0.50	0.50									
Grid 15	TB30	3																0.50	0.50	0.50									
Grid 16	TB15	3																2.70	0.50	0.50									
Grid 17	TB17	3																0.50	0.50	0.50									
Grid 17	TB19	3																0.50	0.50	0.50									
Grid 18	TB18	3																0.50	0.50	0.50									
Grid 18	TB29	5																0.50	0.50	0.50	0.50	0.70							
Grid 20	TB20	3																9.20	18.30	0.50									

Zone	1A+3	1B+1C	2
Average Concentrations (mg/kg)	0.42	2.95	1.53

Pyrene

Grid	Depth (m)	Counter	0.5	1.5	3	4.5	6	7.5	9	10.5	12	13.5	15	16.5	18	19.5	21	D1	D2	D3	D4	D5	0.0M-0.5M	0.5M-1.5M	1.5M-3.0M	3.0M-4.5M	4.5M-6.0M	6.0M-7.5M	7.5M-9.0M
Zone 1A+3																													
Grid 1	BH82	5	0.09	0.09						0.09	0.09	0.09																	
Grid 1	BH83	0																											
Grid 1	BH85	13	0.09	0.09		0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09		0.09												
Grid 1	BH86	0																											
Grid 2	BH88	9			0.09			0.09	0.40	0.09	0.09	0.09	0.09	0.09	0.09														
Grid 2	BH91	0																											
Grid 2	BH92	0																											
Grid 2	BH93	0																											
Grid 2	BH94	0																											
Grid 2	BH95	0																											
Grid 2	BH97	0																											
Grid 2	BH99	9	0.09	0.09	0.09	0.09		0.09	0.09	0.09	0.09		0.09																
Grid 3R	BH8	5	0.94	0.40	0.09	0.09		0.09																					
Grid 3R	BH96	0																											
Grid 4R	BH1	0																											
Grid 4R	BH3	0																											
Grid 4R	BH5	0																											
Grid 4R	BH7	0																											
Grid 4R	BH9	4	0.09	0.09	0.09	1.90																							
Grid 4R	BH10a	5	5.80	0.09	2.20	0.09	0.09																						
Grid 5	BH65	0																											
Grid 5	BH69	0																											
Grid 5	BH70	0																											
Grid 5	BH71	0																											
Grid 5	BH72	0																											
Grid 5	BH73	0																											
Grid 5	BH74	0																											
Grid 5	BH76	0																											
Grid 5	BH77	0																											
Grid 5	BH78	6		0.09	0.09				0.58	0.27	0.09	0.09																	
Grid 5	BH79	0																											
Grid 5	BH84	0																											
Grid 6	BH53	0																											
Grid 6	BH55	0																											
Grid 6	BH56	0																											
Grid 6	BH57	0																											
Grid 6	BH58	0																											
Grid 6	BH59	0																											
Grid 6	BH61	10		0.09	0.09	0.09	0.09		0.09	0.31	0.09	0.09	0.09	0.09															
Grid 6	BH75	7		0.09		0.09	0.09		0.09	0.09	0.09		0.09																
Grid 6	BH81	9	0.20	0.09	0.09	0.09	0.09	0.09	0.09	0.26	0.09																		
Grid 6	BH89	0																											
Grid 6	BH90	10	0.50	0.50	4.00	0.09	0.09	0.09	0.09	0.25	0.09	0.09																	
Grid 6	BH100	0																											
Grid 7R	BH31	0																											
Grid 7R	BH32	1							0.09																				
Grid 7R	BH33	0																											
Grid 7R	BH37	0																											
Grid 8R	BH10	4	0.50	0.50	2.10	0.09																							
Grid 8R	BH11	4	0.09	0.09	0.09	0.70																							
Grid 8R	BH15	4	1.30	0.09	0.09	1.40																							
Grid 8R	BH16	0																											
Grid 8R	BH30	0																											
Grid 9	BH54	0																											
Grid 9	BH62	0																											
Grid 9	BH63	0																											
Grid 9	BH64	0																											
Grid 9	BH66	0																											
Grid 9	BH68	9		0.09	0.09		0.09	0.42	0.09	0.09	0.09	0.09	0.09																
Grid 10	BH47	0																											
Grid 10	BH48	0																											
Grid 10	BH49	6	0.39		0.32		0.09	0.29		0.09	0.09																		
Grid 10	BH50	0																											
Grid 10	BH51	0																											
Grid 10	BH52	0																											
Grid 26	BH38	0																											
Grid 26	BH40	0																											
Grid 26	BH41	0																											
Grid 26	BH46	0																											
Grid 33R	BH36	0																											
Grid AR	BH39	0																											
Grid AR	BH43	0																											
Grid AR	BH45	0																											
Grid D	BH22	0																											
Grid D	BH27	0																											
Grid D	BH27a	6	0.09	0.09	0.09	0.24	0.27	0.09																					
Grid D	BH24	0																											
Grid D	BH25	1					0.09																						
Grid D	BH34	0																											
Grid 1	TB10	3																0.50	0.50	0.50									
Grid 1	TB10A	2																	0.50	0.50									
Grid 2	TB5	3																0.60	0.50	0.50									
Grid 2	TB7	3																0.50	0.50	0.50									
Grid 2	TB9	3																0.50	1.10	0.50									
Grid 4R	TB23	3																0.50	0.50	0.50									
Grid 5	TB11	3																0.50	0.50	0.50									
Grid 5	TB28	3																0.50	0.50	1.10									
Grid 6	TB4	3																0.50	0.50	0.50									
Grid 6	TB6	3																0.50	0.50	0.50									
Grid 6	TB8	3																0.50	0.50	4.00									

Grid 8R	TB27	3																0.50	0.50	2.10									
Grid 9	TB13	3																0.50	0.50	0.50									
Grid 10	TB3	2																	0.80	0.50									
Grid 10	TB12	3																0.50	0.50	0.50									
Grid 26	TB2	3																0.50	0.50	0.50									
Grid D	TB1	4																0.50	1.00	0.60	0.50								
Grid D	TB21	4																0.70	0.50	0.50	0.50								
Grid D	TB22	3																0.50	0.50	0.50									
Grid D	TB26	4																1.00	0.50	0.50	0.50								
Grid 4R	BD1	7																					0.50	0.50	0.50	0.50	0.50	0.50	0.50
Grid 8R	BD2	6																					0.53	0.64	4.27		0.50	0.50	0.50
Grid D	BD3	7																					0.50	0.59	0.50	0.50	0.50	0.50	0.50
Grid D	BD4	7																					0.76	1.65	0.97	0.50	0.96	0.50	0.50
Zone 2																													
Grid 11	BH170	9	0.60	0.09	4.10	0.09	1.00	0.09	0.90	0.09	0.70																		
Grid 12	BH172	9	0.09	0.09	0.70	0.09	0.09	0.80	5.20	1.10	0.50																		
Grid 13	BH171	6			0.09	0.09	0.09	0.09	0.09		0.09																		
Grid 14	BH173	7	0.09			0.09	0.09	0.09	0.50	0.09	6.50																		
Grid 15	BH135	0																											
Grid 15	BH136	0																											
Grid 15	BH137	0																											
Grid 15	BH142	0																											
Grid 15	BH143	9	0.74	0.34	0.09	0.09	0.09		0.09	0.09	0.17		0.09																
Grid 15	BH144	0																											
Grid 15	BH145	0																											
Grid 15	BH150	8	0.09	0.88	0.09			0.21	0.09	0.09	0.54	0.20																	
Grid 16	BH146	7	0.09	0.09	0.09	0.09	0.09	0.09		16.00																			
Grid 16	BH147	8	0.09	0.19		0.78	1.60	110.00	2.50	1.30	0.29																		
Grid 16	BH148	6	0.34			0.26	1.20	1.30	2.00		0.09																		
Grid 16	BH149	8	0.34	0.81	0.44	0.38	3.40	9.80	21.00	0.35																			
Grid 16	BH177	6		2.30			0.09	0.31	0.09	6.60	7.90																		
Grid 26	BH42	0																											
Grid 26	BH44	0																											
Grid 26	BH154	3	0.30	0.09		0.09																							
Grid 27	BH153	0																											
Grid 27	BH156	9	0.70	0.09	0.09	0.09	3.20	0.09	0.09	0.09	0.09																		
Grid 28	BH158	9	0.70	0.09	1.20	0.09	0.09	1.60	0.09	0.09	0.09																		
Grid 33R	BH155	5	2.50	0.09	0.09	0.09	0.09																						
Grid 34	BH157	5	0.09	1.10	0.80	0.09	0.09																						
Grid 34	BH174	0																											
Grid 34	BH175	0																											
Grid 34	BH176	0																											
Grid 35	BH159	5	0.09	0.09	0.09	0.09	0.09																						
Grid 27	TB14	3																0.50	0.50	0.50									
Grid 27	TB24	4																0.90	0.50	0.90	0.50								
Zone 1B+1C																													
Grid 17	BH126	0																											
Grid 17	BH128	0																											
Grid 17	BH129	0																											
Grid 17	BH130	0																											
Grid 17	BH131	0																											
Grid 17	BH132	0																											
Grid 17	BH134	7		0.09	1.40	0.83		54.00	0.09	0.09	0.09																		
Grid 17	BH139	0																											
Grid 18	BH116	0																											
Grid 18	BH117	0																											
Grid 18	BH118	0																											
Grid 18	BH119	0																											
Grid 18	BH120	0																											
Grid 18	BH121	0																											
Grid 18	BH122	0																											
Grid 18	BH123	0																											
Grid 18	BH124	0																											
Grid 18	BH125	6	0.09	0.09	0.09	0.09					0.56	0.48																	
Grid 19	BH179	5		1.10		0.42	1.10	1.00	0.32																				
Grid 20	BH108	6	0.09	0.35	0.09	0.09		0.09		0.09																			
Grid 20	BH109	6	2.30	0.91	0.09			0.91	0.09		0.42																		
Grid 20	BH110	7	0.09	0.09	0.09	1.60	0.09			0.53	0.09																		
Grid 20	BH111	3	1.90		0.09						0.09																		
Grid 20	BH112	8	0.09	0.09	0.09	0.09	0.33	1.10	0.70		28.00																		
Grid 20	BH113	0																											
Grid 20	BH114	7	0.09	0.42	0.09	0.09	1.80	0.09	0.09																				
Grid 20	BH115	8	0.09	0.09	0.09	0.09	0.09		0.09	0.71	0.09																		
Grid 21	BH178	7	0.35	0.09	0.09	0.18		0.09	0.09	0.09																			
Grid 22	BH151	9	0.25	0.23		140.00	0.51	0.09	0.48	0.20	0.09	0.09																	
Grid C	BH133	8	0.21	6.70	0.58		0.09		0.09	0.27	0.09	0.09																	
Grid 15	TB16	3																0.50	0.50	0.50									
Grid 15	TB30	3																0.50	0.50	0.50									
Grid 16	TB15	3																3.00	0.50	0.50									
Grid 17	TB17	3																0.50	0.50	0.50									
Grid 17	TB19	3																0.50	0.50	0.50									
Grid 18	TB18	3																0.50	0.50	0.60									
Grid 18	TB29	5																0.50	0.50	0.50	0.50	0.80							
Grid 20	TB20	3																11.00	120.00	0.50									

Zone	1A+3	1B+1C	2
Average Concentrations (mg/kg)	0.44	3.57	1.90

Benzo(a)pyrene

Grid	Depth (m)	Counter	0.5	1.5	3	4.5	6	7.5	9	10.5	12	13.5	15	16.5	18	19.5	21	D1	D2	D3	D4	D5	0.0M-0.5M	0.5M-1.5M	1.5M-3.0M	3.0M-4.5M	4.5M-6.0M	6.0M-7.5M	7.5M-9.0M
Zone 1A+3																													
Grid 1	BH82	5	0.09	0.09						0.09	0.09	0.09																	
Grid 1	BH83	0																											
Grid 1	BH85	13	0.09	0.09		0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09		0.09												
Grid 1	BH86	0																											
Grid 2	BH88	9			0.09			0.09	0.26	0.09	0.09	0.09	0.09	0.09	0.09														
Grid 2	BH91	0																											
Grid 2	BH92	0																											
Grid 2	BH93	0																											
Grid 2	BH94	0																											
Grid 2	BH95	0																											
Grid 2	BH97	0																											
Grid 2	BH99	9	0.09	0.09	0.09	0.09		0.09	0.09	0.09	0.09		0.09																
Grid 3R	BH8	5	0.62	0.27	0.09	0.09		0.09																					
Grid 3R	BH96	0																											
Grid 4R	BH1	0																											
Grid 4R	BH3	0																											
Grid 4R	BH5	0																											
Grid 4R	BH7	0																											
Grid 4R	BH9	4	0.09	0.09	0.09	1.20																							
Grid 4R	BH10a	5	6.00	0.09	1.50	0.09	0.09																						
Grid 5	BH65	0																											
Grid 5	BH69	0																											
Grid 5	BH70	0																											
Grid 5	BH71	0																											
Grid 5	BH72	0																											
Grid 5	BH73	0																											
Grid 5	BH74	0																											
Grid 5	BH76	0																											
Grid 5	BH77	0																											
Grid 5	BH78	6		0.09	0.09				0.19	0.09	0.09	0.09																	
Grid 5	BH79	0																											
Grid 5	BH84	0																											
Grid 6	BH53	0																											
Grid 6	BH55	0																											
Grid 6	BH56	0																											
Grid 6	BH57	0																											
Grid 6	BH58	0																											
Grid 6	BH59	0																											
Grid 6	BH61	10		0.09	0.09	0.09	0.09		0.09	0.40	0.09	0.09	0.09	0.09															
Grid 6	BH75	7		0.09		0.09	0.09		0.09	0.09	0.09		0.09																
Grid 6	BH81	9	0.23	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09																		
Grid 6	BH89	0																											
Grid 6	BH90	10	0.50	0.50	1.80	0.09	0.09	0.09	0.09	0.09	0.09	0.09																	
Grid 6	BH100	0																											
Grid 7R	BH31	0																											
Grid 7R	BH32	1							0.09																				
Grid 7R	BH33	0																											
Grid 7R	BH37	0																											
Grid 8R	BH10	4	0.50	0.50	1.90	0.09																							
Grid 8R	BH11	4	0.09	0.09	0.09	1.20																							
Grid 8R	BH15	4	0.90	0.09	0.50	0.90																							
Grid 8R	BH16	0																											
Grid 8R	BH30	0																											
Grid 9	BH54	0																											
Grid 9	BH62	0																											
Grid 9	BH63	0																											
Grid 9	BH64	0																											
Grid 9	BH66	0																											
Grid 9	BH68	9		0.09	0.09		0.09	0.09	0.09	0.09	0.09	0.09	0.09																
Grid 10	BH47	0																											
Grid 10	BH48	0																											
Grid 10	BH49	6	0.35		0.19		0.09	0.20		0.09	0.09																		
Grid 10	BH50	0																											
Grid 10	BH51	0																											
Grid 10	BH52	0																											
Grid 26	BH38	0																											
Grid 26	BH40	0																											
Grid 26	BH41	0																											
Grid 26	BH46	0																											
Grid 33R	BH36	0																											
Grid AR	BH39	0																											
Grid AR	BH43	0																											
Grid AR	BH45	0																											
Grid D	BH22	0																											
Grid D	BH27	0																											
Grid D	BH27a	6	0.09	0.09	0.09	0.09	0.09	0.09																					
Grid D	BH24	0																											
Grid D	BH25	1					0.09																						
Grid D	BH34	0																											
Grid 1	TB10	3																0.50	0.50	0.50									
Grid 1	TB10A	2																	0.50	0.50									
Grid 2	TB5	3																0.50	0.50	0.50									
Grid 2	TB7	3																0.50	0.50	0.50									
Grid 2	TB9	3																0.50	0.90	0.50									
Grid 4R	TB23	3																0.50	0.50	0.50									
Grid 5	TB11	3																0.50	0.50	0.50									
Grid 5	TB28	3																0.50	0.50	0.50									
Grid 6	TB4	3																0.50	0.50	0.50									
Grid 6	TB6	3																0.50	0.50	0.50									
Grid 6	TB8	3																0.50	0.50	1.80									

Grid 8R	TB27	3																0.50	0.50	1.90									
Grid 9	TB13	3																0.50	0.50	0.50									
Grid 10	TB3	2																	0.50	0.50									
Grid 10	TB12	3																0.50	0.50	0.50									
Grid 26	TB2	3																0.50	0.50	0.50									
Grid D	TB1	0																											
Grid D	TB21	4																0.50	0.50	0.50	0.50								
Grid D	TB22	3																0.50	0.50	0.50									
Grid D	TB26	4																0.80	0.50	0.50	0.50								
Grid 4R	BD1	7																					0.50	0.50	0.50	0.50	0.50	0.50	0.50
Grid 8R	BD2	6																					0.50	0.50	2.18		0.50	0.50	0.50
Grid D	BD3	7																					0.50	0.50	0.50	0.50	0.50	0.50	0.50
Grid D	BD4	7																					0.50	0.50	0.50	0.50	0.50	0.50	0.50
Zone 2																													
Grid 11	BH170	9	0.50	0.09	1.80	0.09	0.80	0.09	0.09	0.09	0.09																		
Grid 12	BH172	9	0.09	0.09	1.30	0.50	0.09	0.60	2.50	0.09	0.09																		
Grid 13	BH171	6			0.09	0.09	0.09	0.09	0.09		0.09																		
Grid 14	BH173	7	0.09			0.09	0.09	0.09	0.50	0.09	3.60																		
Grid 15	BH135	0																											
Grid 15	BH136	0																											
Grid 15	BH137	0																											
Grid 15	BH142	0																											
Grid 15	BH143	9	0.77	0.20	0.09	0.09	0.09		0.09	0.09	0.09		0.09																
Grid 15	BH144	0																											
Grid 15	BH145	0																											
Grid 15	BH150	8	0.09	0.99	0.09			0.09	0.09	0.09	0.57	0.09																	
Grid 16	BH146	7	0.09	0.09	0.09	0.09	0.09	0.09		10.00																			
Grid 16	BH147	8	0.09	0.09		0.70	1.70	68.00	1.40	1.60	0.22																		
Grid 16	BH148	6	0.19			0.09	0.72	0.37	0.67		0.09																		
Grid 16	BH149	8	0.09	0.74	0.30	0.22	2.00	11.00	15.00	0.44																			
Grid 16	BH177	6		1.40			0.09	0.34	0.09	5.50	3.80																		
Grid 26	BH42	0																											
Grid 26	BH44	0																											
Grid 26	BH154	3	0.09	0.09		0.09																							
Grid 27	BH153	0																											
Grid 27	BH156	9	0.90	0.09	0.09	0.09	2.00	0.09	0.09	0.09	0.09																		
Grid 28	BH158	9	0.60	0.09	0.90	0.09	0.09	1.30	0.09	0.09	0.09																		
Grid 33R	BH155	5	1.30	0.09	0.09	0.09	0.09																						
Grid 34	BH157	5	0.09	0.80	1.00	0.09	0.09																						
Grid 34	BH174	0																											
Grid 34	BH175	0																											
Grid 34	BH176	0																											
Grid 35	BH159	5	0.09	0.09	0.09	0.09	0.09																						
Grid 27	TB14	3																0.50	0.50	0.50									
Grid 27	TB24	4																0.60	0.50	0.60	0.50								
Zone 1B+1C																													
Grid 17	BH126	0																											
Grid 17	BH128	0																											
Grid 17	BH129	0																											
Grid 17	BH130	0																											
Grid 17	BH131	0																											
Grid 17	BH132	0																											
Grid 17	BH134	7		0.09	1.10	1.30		31.00	0.09	0.09	0.09																		
Grid 17	BH139	0																											
Grid 18	BH116	0																											
Grid 18	BH117	0																											
Grid 18	BH118	0																											
Grid 18	BH119	0																											
Grid 18	BH120	0																											
Grid 18	BH121	0																											
Grid 18	BH122	0																											
Grid 18	BH123	0																											
Grid 18	BH124	0																											
Grid 18	BH125	6	0.09	0.09	0.09	0.09					0.50	0.21																	
Grid 19	BH179	5		5.70		0.20	0.32	1.60	0.23																				
Grid 20	BH108	6	0.09	0.18	0.09	0.09		0.09		0.09																			
Grid 20	BH109	6	1.90	0.46	0.09			0.47	0.09		0.32																		
Grid 20	BH110	7	0.09	0.09	0.09	1.10	0.09			0.31	0.09																		
Grid 20	BH111	3	1.10		0.09						0.09																		
Grid 20	BH112	8	0.09	0.09	0.09	0.09	0.30	0.99	0.52		13.00																		
Grid 20	BH113	0																											
Grid 20	BH114	7	0.09	0.68	0.09	0.09	6.10	0.09	0.09																				
Grid 20	BH115	8	0.18	0.09	0.09	0.09	0.09		0.09	1.20	0.09																		
Grid 21	BH178	7	0.21	0.09	0.09	0.30		0.09	0.09	0.09																			
Grid 22	BH151	9	0.54	0.34		78.00	0.61	0.09	0.54	0.18	0.09	0.09																	
Grid C	BH133	8	0.24	23.00	1.40		0.09		0.09	0.45	0.09	0.09																	
Grid 15	TB16	3																0.50	0.50	0.50									
Grid 15	TB30	3																0.50	0.50	0.50									
Grid 16	TB15	3																3.10	0.50	0.50									
Grid 17	TB17	3																0.50	0.80	0.50									
Grid 17	TB19	3																0.50	0.50	0.50									
Grid 18	TB18	3																0.50	0.50	0.60									
Grid 18	TB29	5																0.50	0.50	0.50	0.50	0.70							
Grid 20	TB20	3																4.40	110.00	0.50									

	Zone	1A+3	1B+1C	2
Average Concentrations (mg/kg)		0.37	2.75	1.27

Benzene

Grid	Depth (m)	Counter	0.5	1.5	3	4.5	6	7.5	9	10.5	12	13.5	15	16.5	18	19.5	21	D1	D2	D3	D4	D5	0.0M-0.5M	0.5M-1.5M	1.5M-3.0M	3.0M-4.5M	4.5M-6.0M	6.0M-7.5M	7.5M-9.0M
Zone 1A+3																													
Grid 1	BH82	5	0.10	0.10						0.10	0.10	0.10																	
Grid 1	BH83	5				0.10		0.10		0.10	0.10	0.10																	
Grid 1	BH85	0																											
Grid 1	BH86	0																											
Grid 2	BH88	0																											
Grid 2	BH91	0																											
Grid 2	BH92	0																											
Grid 2	BH93	0																											
Grid 2	BH94	0																											
Grid 2	BH95	0																											
Grid 2	BH97	0																											
Grid 2	BH99	2	0.10	0.10																									
Grid 3R	BH8	4	0.10	0.10	0.10			0.10																					
Grid 3R	BH96	0																											
Grid 4R	BH1	0																											
Grid 4R	BH3	0																											
Grid 4R	BH5	0																											
Grid 4R	BH7	0																											
Grid 4R	BH9	0																											
Grid 4R	BH10a	5	0.10	0.10	0.10	0.10	0.10																						
Grid 5	BH65	5	0.10	0.10	0.10	0.10	0.10																						
Grid 5	BH69	0																											
Grid 5	BH70	0																											
Grid 5	BH71	0																											
Grid 5	BH72	0																											
Grid 5	BH73	0																											
Grid 5	BH74	2	0.10	0.10																									
Grid 5	BH76	0																											
Grid 5	BH77	0																											
Grid 5	BH78	7		0.10	0.10	0.10			0.10	0.10	0.10	0.10																	
Grid 5	BH79	0																											
Grid 5	BH84	0																											
Grid 6	BH53	0																											
Grid 6	BH55	0																											
Grid 6	BH56	0																											
Grid 6	BH57	0																											
Grid 6	BH58	0																											
Grid 6	BH59	0																											
Grid 6	BH61	0																											
Grid 6	BH75	0																											
Grid 6	BH81	9	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10																		
Grid 6	BH89	0																											
Grid 6	BH90	0																											
Grid 6	BH100	0																											
Grid 7R	BH31	0																											
Grid 7R	BH32	1							0.10																				
Grid 7R	BH33	6				0.10	0.10	0.10	0.10	0.10	0.10																		
Grid 7R	BH37	0																											
Grid 8R	BH10	0																											
Grid 8R	BH11	0																											
Grid 8R	BH15	0																											
Grid 8R	BH16	2	0.10	0.10																									
Grid 8R	BH30	0																											
Grid 9	BH54	1									0.10																		
Grid 9	BH62	0																											
Grid 9	BH63	0																											
Grid 9	BH64	0																											
Grid 9	BH66	0																											
Grid 9	BH68	3		0.10	0.10		0.10																						
Grid 10	BH47	0																											
Grid 10	BH48	0																											
Grid 10	BH49	2	0.10				0.10																						
Grid 10	BH50	0																											
Grid 10	BH51	0																											
Grid 10	BH52	0																											
Grid 26	BH38	2				0.10		0.10																					
Grid 26	BH40	0																											
Grid 26	BH41	0																											
Grid 26	BH46	0																											
Grid 33R	BH36	0																											
Grid AR	BH39	0																											
Grid AR	BH43	2			0.10	0.10																							
Grid AR	BH45	0																											
Grid D	BH22	3	0.10	0.10	0.10																								
Grid D	BH27	0																											
Grid D	BH27a	6	0.10	0.10	0.10	0.10	0.10	0.10																					
Grid D	BH24	0																											
Grid D	BH25	0																											
Grid D	BH34	0																											
Grid 1	TB10	3																0.20	0.20	0.20									
Grid 1	TB10A	2																	0.20	0.20									
Grid 2	TB5	3																0.20	0.20	0.20									
Grid 2	TB7	3																0.20	0.20	0.20									
Grid 2	TB9	3																0.20	0.20	0.20									
Grid 4R	TB23	3																0.20	0.20	0.20									
Grid 5	TB11	3																0.20	0.20	0.20									
Grid 5	TB28	3																0.20	0.20	0.20									
Grid 6	TB4	3																0.20	0.20	0.20									
Grid 6	TB6	3																0.20	0.20	0.20									
Grid 6	TB8	3																0.20	0.20	0.20									

Grid 8R	TB27	3																0.20	0.20	0.20									
Grid 9	TB13	3																0.20	0.20	0.20									
Grid 10	TB3	2																	0.20	0.20									
Grid 10	TB12	3																0.20	0.20	0.20									
Grid 26	TB2	3																0.20	0.20	0.20									
Grid D	TB1	4																0.20	0.20	0.20	0.20								
Grid D	TB21	4																0.20	0.20	0.20	0.20								
Grid D	TB22	3																0.20	0.20	0.20									
Grid D	TB26	4																0.20	0.20	0.20	0.20								
Grid 4R	BD1	7																					0.20	0.20	0.20	0.20	0.20	0.20	0.20
Grid 8R	BD2	6																					0.20	0.20	0.20		0.20	0.20	0.20
Grid D	BD3	7																					0.20	0.20	0.20	0.20	0.20	0.20	0.20
Grid D	BD4	7																					0.20	0.20	0.20	0.20	0.20	0.20	0.20
Zone 2																													
Grid 11	BH170	9	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10																		
Grid 12	BH172	9	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10																		
Grid 13	BH171	6			0.10	0.10	0.10	0.10	0.10		0.10																		
Grid 14	BH173	7	0.10			0.10	0.10	0.10	0.10	0.10	0.10																		
Grid 15	BH135	0																											
Grid 15	BH136	0																											
Grid 15	BH137	0																											
Grid 15	BH142	0																											
Grid 15	BH143	0																											
Grid 15	BH144	0																											
Grid 15	BH145	0																											
Grid 15	BH150	0																											
Grid 16	BH146	0																											
Grid 16	BH147	0																											
Grid 16	BH148	4				0.10		0.10	0.10		0.10																		
Grid 16	BH149	0																											
Grid 16	BH177	0																											
Grid 26	BH42	0																											
Grid 26	BH44	5	0.10	0.10	0.10	0.10	0.10																						
Grid 26	BH154	4	0.10	0.10		0.10	0.10																						
Grid 27	BH153	0																											
Grid 27	BH156	9	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10																		
Grid 28	BH158	9	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10																		
Grid 33R	BH155	5	0.10	0.10	0.10	0.10	0.10																						
Grid 34	BH157	5	0.10	0.10	0.10	0.10	0.10																						
Grid 34	BH174	0																											
Grid 34	BH175	0																											
Grid 34	BH176	0																											
Grid 35	BH159	5	0.10	0.10	0.10	0.10	0.10																						
Grid 27	TB14	3																0.20	0.20	0.20									
Grid 27	TB24	4																0.20	0.20	0.20	0.20								
Zone 1B+1C																													
Grid 17	BH126	0																											
Grid 17	BH128	0																											
Grid 17	BH129	0																											
Grid 17	BH130	0																											
Grid 17	BH131	0																											
Grid 17	BH132	0																											
Grid 17	BH134	3		0.10	0.10	0.10																							
Grid 17	BH139	0																											
Grid 18	BH116	0																											
Grid 18	BH117	0																											
Grid 18	BH118	0																											
Grid 18	BH119	0																											
Grid 18	BH120	0																											
Grid 18	BH121	0																											
Grid 18	BH122	0																											
Grid 18	BH123	0																											
Grid 18	BH124	0																											
Grid 18	BH125	6	0.10	0.10	0.10	0.10					0.10	0.10																	
Grid 19	BH179	5		0.10		0.10	0.10	0.10	0.10																				
Grid 20	BH108	0																											
Grid 20	BH109	3		0.10	0.10						0.10																		
Grid 20	BH110	5	0.10		0.10			0.10		0.10	0.10																		
Grid 20	BH111	0																											
Grid 20	BH112	0																											
Grid 20	BH113	0																											
Grid 20	BH114	0																											
Grid 20	BH115	0																											
Grid 21	BH178	7	0.10	0.10	0.10	0.10		0.10	0.10	0.10																			
Grid 22	BH151	0																											
Grid C	BH133	8	0.10	0.10	0.10		0.10		0.10	0.10	0.10	0.10																	
Grid 15	TB16	3																0.20	0.20	0.20									
Grid 15	TB30	3																0.20	0.20	0.20									
Grid 16	TB15	3																0.20	0.20	0.20									
Grid 17	TB17	3																0.20	0.20	0.20									
Grid 17	TB19	3																0.20	0.20	0.20									
Grid 18	TB18	3																0.20	0.20	0.20									
Grid 18	TB29	5																0.20	0.20	0.20	0.20	0.20							
Grid 20	TB20	3																0.20	0.20	0.20									

Zone	1A+3	1B+1C	2
Average Concentrations (mg/kg)	0.16	0.14	0.11

Toluene

Grid	Depth (m)	Counter	0.5	1.5	3	4.5	6	7.5	9	10.5	12	13.5	15	16.5	18	19.5	21	D1	D2	D3	D4	D5	0.0M-0.5M	0.5M-1.5M	1.5M-3.0M	3.0M-4.5M	4.5M-6.0M	6.0M-7.5M	7.5M-9.0M
Zone 1A+3																													
Grid 1	BH82	5	0.10	0.10						0.10	0.10	0.10																	
Grid 1	BH83	5				0.10		0.10		0.10	0.10	0.10																	
Grid 1	BH85	0																											
Grid 1	BH86	0																											
Grid 2	BH88	0																											
Grid 2	BH91	0																											
Grid 2	BH92	0																											
Grid 2	BH93	0																											
Grid 2	BH94	0																											
Grid 2	BH95	0																											
Grid 2	BH97	0																											
Grid 2	BH99	2	0.10	0.10																									
Grid 3R	BH8	4	0.10	0.10	0.10			0.10																					
Grid 3R	BH96	0																											
Grid 4R	BH1	0																											
Grid 4R	BH3	0																											
Grid 4R	BH5	0																											
Grid 4R	BH7	0																											
Grid 4R	BH9	0																											
Grid 4R	BH10a	5	0.10	0.10	0.10	0.10	0.10																						
Grid 5	BH65	5	0.10	0.10	0.10	0.10	0.10																						
Grid 5	BH69	0																											
Grid 5	BH70	0																											
Grid 5	BH71	0																											
Grid 5	BH72	0																											
Grid 5	BH73	0																											
Grid 5	BH74	2	0.10	0.10																									
Grid 5	BH76	0																											
Grid 5	BH77	0																											
Grid 5	BH78	7		0.10	0.10	0.10			0.10	0.10	0.10	0.10																	
Grid 5	BH79	0																											
Grid 5	BH84	0																											
Grid 6	BH53	0																											
Grid 6	BH55	0																											
Grid 6	BH56	0																											
Grid 6	BH57	0																											
Grid 6	BH58	0																											
Grid 6	BH59	0																											
Grid 6	BH61	0																											
Grid 6	BH75	0																											
Grid 6	BH81	9	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10																		
Grid 6	BH89	0																											
Grid 6	BH90	0																											
Grid 6	BH100	0																											
Grid 7R	BH31	0																											
Grid 7R	BH32	1							0.10																				
Grid 7R	BH33	6				0.10	0.10	0.10	0.10	0.10	0.10																		
Grid 7R	BH37	0																											
Grid 8R	BH10	0																											
Grid 8R	BH11	0																											
Grid 8R	BH15	0																											
Grid 8R	BH16	2	0.10	0.10																									
Grid 8R	BH30	0																											
Grid 9	BH54	1									0.10																		
Grid 9	BH62	0																											
Grid 9	BH63	0																											
Grid 9	BH64	0																											
Grid 9	BH66	0																											
Grid 9	BH68	3		0.10	0.10		0.10																						
Grid 10	BH47	0																											
Grid 10	BH48	0																											
Grid 10	BH49	2	0.10				0.10																						
Grid 10	BH50	0																											
Grid 10	BH51	0																											
Grid 10	BH52	0																											
Grid 26	BH38	2				0.10		0.10																					
Grid 26	BH40	0																											
Grid 26	BH41	0																											
Grid 26	BH46	0																											
Grid 33R	BH36	0																											
Grid AR	BH39	0																											
Grid AR	BH43	2			0.10	0.10																							
Grid AR	BH45	0																											
Grid D	BH22	3	0.10	0.10	0.10																								
Grid D	BH27	0																											
Grid D	BH27a	6	0.10	0.10	0.10	0.10	0.10	0.10																					
Grid D	BH24	0																											
Grid D	BH25	0																											
Grid D	BH34	0																											
Grid 1	TB10	3																0.20	0.20	0.20									
Grid 1	TB10A	2																	0.20	0.20									
Grid 2	TB5	3																0.20	0.20	0.20									
Grid 2	TB7	3																0.20	0.20	0.20									
Grid 2	TB9	3																0.20	0.20	0.20									
Grid 4R	TB23	3																0.20	0.20	0.20									
Grid 5	TB11	3																0.20	0.20	0.20									
Grid 5	TB28	3																0.20	0.20	0.20									
Grid 6	TB4	3																0.20	0.20	0.20									
Grid 6	TB6	3																0.20	0.20	0.20									
Grid 6	TB8	3																0.20	0.20	0.20									

Grid 8R	TB27	3																0.20	0.20	0.20									
Grid 9	TB13	3																0.20	0.20	0.20									
Grid 10	TB3	2																	0.20	0.20									
Grid 10	TB12	3																0.20	0.20	0.20									
Grid 26	TB2	3																0.20	0.20	0.20									
Grid D	TB1	4																0.20	0.20	0.20	0.20								
Grid D	TB21	4																0.20	0.20	0.20	0.20								
Grid D	TB22	3																0.20	0.20	0.20									
Grid D	TB26	4																0.20	0.20	0.20	0.20								
Grid 4R	BD1	7																					0.50	0.50	0.50	0.50	0.50	0.50	0.50
Grid 8R	BD2	6																					0.50	0.50	0.50		0.50	0.50	0.50
Grid D	BD3	7																					0.50	0.50	0.50	0.50	0.50	0.50	0.50
Grid D	BD4	7																					0.50	0.50	0.50	0.50	0.50	0.50	0.50
Zone 2																													
Grid 11	BH170	9	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10																		
Grid 12	BH172	9	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10																		
Grid 13	BH171	6			0.10	0.10	0.10	0.10	0.10		0.10																		
Grid 14	BH173	7	0.10			0.10	0.10	0.10	0.10	0.10	0.10																		
Grid 15	BH135	0																											
Grid 15	BH136	0																											
Grid 15	BH137	0																											
Grid 15	BH142	0																											
Grid 15	BH143	0																											
Grid 15	BH144	0																											
Grid 15	BH145	0																											
Grid 15	BH150	0																											
Grid 16	BH146	0																											
Grid 16	BH147	0																											
Grid 16	BH148	4				0.10		0.10	0.10		0.10																		
Grid 16	BH149	0																											
Grid 16	BH177	0																											
Grid 26	BH42	0																											
Grid 26	BH44	5	0.10	0.10	0.10	0.10	0.10																						
Grid 26	BH154	4	0.10	0.10		0.10	0.10																						
Grid 27	BH153	0																											
Grid 27	BH156	9	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10																		
Grid 28	BH158	9	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10																		
Grid 33R	BH155	5	0.10	0.10	0.10	0.10	0.10																						
Grid 34	BH157	5	0.10	0.10	0.10	0.10	0.10																						
Grid 34	BH174	0																											
Grid 34	BH175	0																											
Grid 34	BH176	0																											
Grid 35	BH159	5	0.10	0.10	0.10	0.10	0.10																						
Grid 27	TB14	3																0.20	0.20	0.20									
Grid 27	TB24	4																0.20	0.20	0.20	0.20								
Zone 1B+1C																													
Grid 17	BH126	0																											
Grid 17	BH128	0																											
Grid 17	BH129	0																											
Grid 17	BH130	0																											
Grid 17	BH131	0																											
Grid 17	BH132	0																											
Grid 17	BH134	3		0.10	0.10	0.10																							
Grid 17	BH139	0																											
Grid 18	BH116	0																											
Grid 18	BH117	0																											
Grid 18	BH118	0																											
Grid 18	BH119	0																											
Grid 18	BH120	0																											
Grid 18	BH121	0																											
Grid 18	BH122	0																											
Grid 18	BH123	0																											
Grid 18	BH124	0																											
Grid 18	BH125	6	0.10	0.10	0.10	0.10					0.10	0.10																	
Grid 19	BH179	5		0.10		0.10	0.10	0.10	0.10																				
Grid 20	BH108	0																											
Grid 20	BH109	3		0.10	0.10						0.10																		
Grid 20	BH110	5	0.10		0.10			0.10		0.10	0.10																		
Grid 20	BH111	0																											
Grid 20	BH112	0																											
Grid 20	BH113	0																											
Grid 20	BH114	0																											
Grid 20	BH115	0																											
Grid 21	BH178	7	0.10	0.10	0.10	0.10		0.10	0.10	0.10																			
Grid 22	BH151	0																											
Grid C	BH133	8	0.10	0.10	0.10		0.10		0.10	0.10	0.10	0.10																	
Grid 15	TB16	3																0.20	0.20	0.20									
Grid 15	TB30	3																0.20	0.20	0.20									
Grid 16	TB15	3																0.20	0.20	0.20									
Grid 17	TB17	3																0.20	0.20	0.20									
Grid 17	TB19	3																0.20	0.20	0.20									
Grid 18	TB18	3																0.20	0.20	0.20									
Grid 18	TB29	5																0.20	0.20	0.20	0.20	0.20							
Grid 20	TB20	3																0.20	0.20	0.20									

	Zone	1A+3	1B+1C	2
Average Concentrations (mg/kg)		0.21	0.14	0.11

Ethylbenzene

Grid	Depth (m)	Counter	0.5	1.5	3	4.5	6	7.5	9	10.5	12	13.5	15	16.5	18	19.5	21	D1	D2	D3	D4	D5	0.0M-0.5M	0.5M-1.5M	1.5M-3.0M	3.0M-4.5M	4.5M-6.0M	6.0M-7.5M	7.5M-9.0M
Zone 1A+3																													
Grid 1	BH82	5	0.10	0.10						0.10	0.10	0.10																	
Grid 1	BH83	5				0.10		0.10		0.10	0.10	0.10																	
Grid 1	BH85	0																											
Grid 1	BH86	0																											
Grid 2	BH88	0																											
Grid 2	BH91	0																											
Grid 2	BH92	0																											
Grid 2	BH93	0																											
Grid 2	BH94	0																											
Grid 2	BH95	0																											
Grid 2	BH97	0																											
Grid 2	BH99	2	0.10	0.10																									
Grid 3R	BH8	4	0.10	0.10	0.10			0.10																					
Grid 3R	BH96	0																											
Grid 4R	BH1	0																											
Grid 4R	BH3	0																											
Grid 4R	BH5	0																											
Grid 4R	BH7	0																											
Grid 4R	BH9	0																											
Grid 4R	BH10a	5	0.10	0.10	0.10	0.10	0.10																						
Grid 5	BH65	5	0.10	0.10	0.10	0.10	0.10																						
Grid 5	BH69	0																											
Grid 5	BH70	0																											
Grid 5	BH71	0																											
Grid 5	BH72	0																											
Grid 5	BH73	0																											
Grid 5	BH74	2	0.10	0.10																									
Grid 5	BH76	0																											
Grid 5	BH77	0																											
Grid 5	BH78	7		0.10	0.10	0.10			0.10	0.10	0.10	0.10																	
Grid 5	BH79	0																											
Grid 5	BH84	0																											
Grid 6	BH53	0																											
Grid 6	BH55	0																											
Grid 6	BH56	0																											
Grid 6	BH57	0																											
Grid 6	BH58	0																											
Grid 6	BH59	0																											
Grid 6	BH61	0																											
Grid 6	BH75	0																											
Grid 6	BH81	9	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10																		
Grid 6	BH89	0																											
Grid 6	BH90	0																											
Grid 6	BH100	0																											
Grid 7R	BH31	0																											
Grid 7R	BH32	1							0.10																				
Grid 7R	BH33	6				0.10	0.10	0.10	0.10	0.10	0.10																		
Grid 7R	BH37	0																											
Grid 8R	BH10	0																											
Grid 8R	BH11	0																											
Grid 8R	BH15	0																											
Grid 8R	BH16	2	0.10	0.10																									
Grid 8R	BH30	0																											
Grid 9	BH54	1									0.10																		
Grid 9	BH62	0																											
Grid 9	BH63	0																											
Grid 9	BH64	0																											
Grid 9	BH66	0																											
Grid 9	BH68	3		0.10	0.10		0.10																						
Grid 10	BH47	0																											
Grid 10	BH48	0																											
Grid 10	BH49	2	0.10				0.10																						
Grid 10	BH50	0																											
Grid 10	BH51	0																											
Grid 10	BH52	0																											
Grid 26	BH38	2				0.10		0.10																					
Grid 26	BH40	0																											
Grid 26	BH41	0																											
Grid 26	BH46	0																											
Grid 33R	BH36	0																											
Grid AR	BH39	0																											
Grid AR	BH43	2			0.10	0.10																							
Grid AR	BH45	0																											
Grid D	BH22	3	0.10	0.10	0.10																								
Grid D	BH27	0																											
Grid D	BH27a	6	0.10	0.10	0.10	0.10	0.10	0.10																					
Grid D	BH24	0																											
Grid D	BH25	0																											
Grid D	BH34	0																											
Grid 1	TB10	3																0.20	0.20	0.20									
Grid 1	TB10A	2																	0.20	0.20									
Grid 2	TB5	3																0.20	0.20	0.20									
Grid 2	TB7	3																0.20	0.20	0.20									
Grid 2	TB9	3																0.20	0.20	0.20									
Grid 4R	TB23	3																0.20	0.20	0.20									
Grid 5	TB11	3																0.20	0.20	0.20									
Grid 5	TB28	3																0.20	0.20	0.20									
Grid 6	TB4	3																0.20	0.20	0.20									
Grid 6	TB6	3																0.20	0.20	0.20									
Grid 6	TB8	3																0.20	0.20	0.20									

Grid 8R	TB27	3																0.20	0.20	0.20									
Grid 9	TB13	3																0.20	0.20	0.20									
Grid 10	TB3	2																	0.20	0.20									
Grid 10	TB12	3																0.20	0.20	0.20									
Grid 26	TB2	3																0.20	0.20	0.20									
Grid D	TB1	4																0.20	0.20	0.20	0.20								
Grid D	TB21	4																0.20	0.20	0.20	0.20								
Grid D	TB22	3																0.20	0.20	0.20									
Grid D	TB26	4																0.20	0.20	0.20	0.20								
Grid 4R	BD1	7																					0.50	0.50	0.50	0.50	0.50	0.50	0.50
Grid 8R	BD2	6																					0.50	0.50	0.50		0.50	0.50	0.50
Grid D	BD3	7																					0.50	0.50	0.50	0.50	0.50	0.50	0.50
Grid D	BD4	7																					0.50	0.50	0.50	0.50	0.50	0.50	0.50
Zone 2																													
Grid 11	BH170	9	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10																		
Grid 12	BH172	9	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10																		
Grid 13	BH171	6			0.10	0.10	0.10	0.10		0.10																			
Grid 14	BH173	7	0.10			0.10	0.10	0.10	0.10	0.10	0.10																		
Grid 15	BH135	0																											
Grid 15	BH136	0																											
Grid 15	BH137	0																											
Grid 15	BH142	0																											
Grid 15	BH143	0																											
Grid 15	BH144	0																											
Grid 15	BH145	0																											
Grid 15	BH150	0																											
Grid 16	BH146	0																											
Grid 16	BH147	0																											
Grid 16	BH148	4				0.10		0.10	0.10		0.10																		
Grid 16	BH149	0																											
Grid 16	BH177	0																											
Grid 26	BH42	0																											
Grid 26	BH44	5	0.10	0.10	0.10	0.10	0.10																						
Grid 26	BH154	4	0.10	0.10		0.10	0.10																						
Grid 27	BH153	0																											
Grid 27	BH156	9	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10																		
Grid 28	BH158	9	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10																		
Grid 33R	BH155	5	0.10	0.10	0.10	0.10	0.10																						
Grid 34	BH157	5	0.10	0.10	0.10	0.10	0.10																						
Grid 34	BH174	0																											
Grid 34	BH175	0																											
Grid 34	BH176	0																											
Grid 35	BH159	5	0.10	0.10	0.10	0.10	0.10																						
Grid 27	TB14	3																0.20	0.20	0.20									
Grid 27	TB24	4																0.20	0.20	0.20	0.20								
Zone 1B+1C																													
Grid 17	BH126	0																											
Grid 17	BH128	0																											
Grid 17	BH129	0																											
Grid 17	BH130	0																											
Grid 17	BH131	0																											
Grid 17	BH132	0																											
Grid 17	BH134	3		0.10	0.10	0.10																							
Grid 17	BH139	0																											
Grid 18	BH116	0																											
Grid 18	BH117	0																											
Grid 18	BH118	0																											
Grid 18	BH119	0																											
Grid 18	BH120	0																											
Grid 18	BH121	0																											
Grid 18	BH122	0																											
Grid 18	BH123	0																											
Grid 18	BH124	0																											
Grid 18	BH125	6	0.10	0.10	0.10	0.10					0.10	0.10																	
Grid 19	BH179	5		0.10		0.10	0.10	0.10	0.10																				
Grid 20	BH108	0																											
Grid 20	BH109	3		0.10	0.10						0.10																		
Grid 20	BH110	5	0.10		0.10			0.10		0.10	0.10																		
Grid 20	BH111	0																											
Grid 20	BH112	0																											
Grid 20	BH113	0																											
Grid 20	BH114	0																											
Grid 20	BH115	0																											
Grid 21	BH178	7	0.10	0.10	0.10	0.10		0.10	0.10	0.10																			
Grid 22	BH151	0																											
Grid C	BH133	8	0.10	0.10	0.10		0.10		0.10	0.10	0.10	0.10																	
Grid 15	TB16	3																0.20	0.20	0.20									
Grid 15	TB30	3																0.20	0.20	0.20									
Grid 16	TB15	3																0.20	0.20	0.20									
Grid 17	TB17	3																0.20	0.20	0.20									
Grid 17	TB19	3																0.20	0.20	0.20									
Grid 18	TB18	3																0.20	0.20	0.20									
Grid 18	TB29	5																0.20	0.20	0.20	0.20	0.20							
Grid 20	TB20	3																0.20	0.20	0.20									

Zone	1A+3	1B+1C	2
Average Concentrations (mg/kg)	0.21	0.14	0.11

Xylenes (Total)

Grid	Depth (m)	Counter	0.5	1.5	3	4.5	6	7.5	9	10.5	12	13.5	15	16.5	18	19.5	21	D1	D2	D3	D4	D5	0.0M-0.5M	0.5M-1.5M	1.5M-3.0M	3.0M-4.5M	4.5M-6.0M	6.0M-7.5M	7.5M-9.0M
Zone 1A+3																													
Grid 1	BH82	5	0.30	0.30						0.30	0.30	0.30																	
Grid 1	BH83	5				0.30		0.30		0.30	0.30	0.30																	
Grid 1	BH85	0																											
Grid 1	BH86	0																											
Grid 2	BH88	0																											
Grid 2	BH91	0																											
Grid 2	BH92	0																											
Grid 2	BH93	0																											
Grid 2	BH94	0																											
Grid 2	BH95	0																											
Grid 2	BH97	0																											
Grid 2	BH99	2	0.30	0.30																									
Grid 3R	BH8	4	0.30	0.30	0.30			0.30																					
Grid 3R	BH96	0																											
Grid 4R	BH1	0																											
Grid 4R	BH3	0																											
Grid 4R	BH5	0																											
Grid 4R	BH7	0																											
Grid 4R	BH9	0																											
Grid 4R	BH10a	5	0.30	0.30	0.30	0.30	0.30																						
Grid 5	BH65	5	0.30	0.30	0.30	0.30	0.30																						
Grid 5	BH69	0																											
Grid 5	BH70	0																											
Grid 5	BH71	0																											
Grid 5	BH72	0																											
Grid 5	BH73	0																											
Grid 5	BH74	2	0.30	0.30																									
Grid 5	BH76	0																											
Grid 5	BH77	0																											
Grid 5	BH78	7		0.30	0.30	0.30			0.30	0.30	0.30	0.30																	
Grid 5	BH79	0																											
Grid 5	BH84	0																											
Grid 6	BH53	0																											
Grid 6	BH55	0																											
Grid 6	BH56	0																											
Grid 6	BH57	0																											
Grid 6	BH58	0																											
Grid 6	BH59	0																											
Grid 6	BH61	0																											
Grid 6	BH75	0																											
Grid 6	BH81	9	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30																		
Grid 6	BH89	0																											
Grid 6	BH90	0																											
Grid 6	BH100	0																											
Grid 7R	BH31	0																											
Grid 7R	BH32	1							0.30																				
Grid 7R	BH33	6				0.30	0.30	0.30	0.30	0.30	0.30																		
Grid 7R	BH37	0																											
Grid 8R	BH10	0																											
Grid 8R	BH11	0																											
Grid 8R	BH15	0																											
Grid 8R	BH16	2	0.30	0.30																									
Grid 8R	BH30	0																											
Grid 9	BH54	1									0.30																		
Grid 9	BH62	0																											
Grid 9	BH63	0																											
Grid 9	BH64	0																											
Grid 9	BH66	0																											
Grid 9	BH68	3		0.30	0.30		0.30																						
Grid 10	BH47	0																											
Grid 10	BH48	0																											
Grid 10	BH49	2	0.30				0.30																						
Grid 10	BH50	0																											
Grid 10	BH51	0																											
Grid 10	BH52	0																											
Grid 26	BH38	2				0.30		0.30																					
Grid 26	BH40	0																											
Grid 26	BH41	0																											
Grid 26	BH46	0																											
Grid 33R	BH36	0																											
Grid AR	BH39	0																											
Grid AR	BH43	2			0.30	0.30																							
Grid AR	BH45	0																											
Grid D	BH22	3	0.30	0.30	0.30																								
Grid D	BH27	0																											
Grid D	BH27a	6	0.30	0.30	0.30	0.30	0.30	0.30																					
Grid D	BH24	0																											
Grid D	BH25	0																											
Grid D	BH34	0																											
Grid 1	TB10	3																0.60	0.60	0.60									
Grid 1	TB10A	2																	0.60	0.60									
Grid 2	TB5	3																0.60	0.60	0.60									
Grid 2	TB7	3																0.60	0.60	0.60									
Grid 2	TB9	3																0.60	0.60	0.60									
Grid 4R	TB23	3																0.60	0.60	0.60									
Grid 5	TB11	3																0.60	0.60	0.60									
Grid 5	TB28	3																0.60	0.60	0.60									
Grid 6	TB4	3																0.60	0.60	0.60									
Grid 6	TB6	3																0.60	0.60	0.60									
Grid 6	TB8	3																0.60	0.60	0.60									

Grid 8R	TB27	3																0.60	0.60	0.60									
Grid 9	TB13	3																0.60	0.60	0.60									
Grid 10	TB3	2																	0.60	0.60									
Grid 10	TB12	3																0.60	0.60	0.60									
Grid 26	TB2	3																0.60	0.60	0.60									
Grid D	TB1	4																0.60	0.60	0.60	0.60								
Grid D	TB21	4																0.60	0.60	0.60	0.60								
Grid D	TB22	3																0.60	0.60	0.60									
Grid D	TB26	4																0.60	0.60	1.30	0.60								
Grid 4R	BD1	7																					2.00	2.00	2.00	2.00	2.00	2.00	2.00
Grid 8R	BD2	6																					2.00	2.00	2.00		2.00	2.00	2.00
Grid D	BD3	7																					2.00	2.00	2.00	2.00	2.00	2.00	2.00
Grid D	BD4	7																					2.00	2.00	2.00	2.00	2.00	2.00	2.00
Zone 2																													
Grid 11	BH170	9	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30																		
Grid 12	BH172	9	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30																		
Grid 13	BH171	6			0.30	0.30	0.30	0.30		0.30																			
Grid 14	BH173	7	0.30			0.30	0.30	0.30	0.30	0.30	0.30																		
Grid 15	BH135	0																											
Grid 15	BH136	0																											
Grid 15	BH137	0																											
Grid 15	BH142	0																											
Grid 15	BH143	0																											
Grid 15	BH144	0																											
Grid 15	BH145	0																											
Grid 15	BH150	0																											
Grid 16	BH146	0																											
Grid 16	BH147	0																											
Grid 16	BH148	4				0.30		0.30	0.30		0.30																		
Grid 16	BH149	0																											
Grid 16	BH177	0																											
Grid 26	BH42	0																											
Grid 26	BH44	5	0.30	0.30	0.30	0.30	0.30																						
Grid 26	BH154	4	0.30	0.30		0.30	0.30																						
Grid 27	BH153	0																											
Grid 27	BH156	9	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30																		
Grid 28	BH158	9	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30																		
Grid 33R	BH155	5	0.30	0.30	0.30	0.30	0.30																						
Grid 34	BH157	5	0.30	0.30	0.30	0.30	0.30																						
Grid 34	BH174	0																											
Grid 34	BH175	0																											
Grid 34	BH176	0																											
Grid 35	BH159	5	0.30	0.30	0.30	0.30	0.30																						
Grid 27	TB14	3																0.60	0.60	0.60									
Grid 27	TB24	4																0.60	0.60	0.60	0.60								
Zone 1B+1C																													
Grid 17	BH126	0																											
Grid 17	BH128	0																											
Grid 17	BH129	0																											
Grid 17	BH130	0																											
Grid 17	BH131	0																											
Grid 17	BH132	0																											
Grid 17	BH134	3		0.30	0.30	0.30																							
Grid 17	BH139	0																											
Grid 18	BH116	0																											
Grid 18	BH117	0																											
Grid 18	BH118	0																											
Grid 18	BH119	0																											
Grid 18	BH120	0																											
Grid 18	BH121	0																											
Grid 18	BH122	0																											
Grid 18	BH123	0																											
Grid 18	BH124	0																											
Grid 18	BH125	6	0.30	0.30	0.30	0.30					0.30	0.30																	
Grid 19	BH179	5		0.30		0.30	0.30	0.30	0.30																				
Grid 20	BH108	0																											
Grid 20	BH109	3		0.30	0.30						0.30																		
Grid 20	BH110	5	0.30		0.30			0.30		0.30	0.30																		
Grid 20	BH111	0																											
Grid 20	BH112	0																											
Grid 20	BH113	0																											
Grid 20	BH114	0																											
Grid 20	BH115	0																											
Grid 21	BH178	7	0.30	0.30	0.30	0.30		0.30	0.30	0.30																			
Grid 22	BH151	0																											
Grid C	BH133	8	0.30	0.30	0.30		0.30		0.30	0.30	0.30	0.30																	
Grid 15	TB16	3																0.60	0.60	0.60									
Grid 15	TB30	3																0.60	0.60	0.60									
Grid 16	TB15	3																0.60	0.60	0.60									
Grid 17	TB17	3																0.60	0.60	0.60									
Grid 17	TB19	3																0.60	0.60	0.60									
Grid 18	TB18	3																0.60	0.60	0.60									
Grid 18	TB29	5																0.60	0.60	0.60	0.60	0.60							
Grid 20	TB20	3																0.60	0.60	0.60									

Zone	1A+3	1B+1C	2
Average Concentrations (mg/kg)	0.71	0.42	0.33

Acenaphthylene

Grid	Depth (m)	Counter	0.5	1.5	3	4.5	6	7.5	9	10.5	12	13.5	15	16.5	18	19.5	21	D1	D2	D3	D4	D5	0.0M-0.5M	0.5M-1.5M	1.5M-3.0M	3.0M-4.5M	4.5M-6.0M	6.0M-7.5M	7.5M-9.0M
Zone 1A+3																													
Grid 1	BH82	5	0.03	0.03						0.03	0.03	0.03																	
Grid 1	BH83	0																											
Grid 1	BH85	13	0.03	0.03		0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03		0.03												
Grid 1	BH86	0																											
Grid 2	BH88	9			0.03			0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03														
Grid 2	BH91	0																											
Grid 2	BH92	0																											
Grid 2	BH93	0																											
Grid 2	BH94	0																											
Grid 2	BH95	0																											
Grid 2	BH97	0																											
Grid 2	BH99	9	0.03	0.03	0.03	0.03		0.03	0.03	0.03	0.03		0.03																
Grid 3R	BH8	5	0.23	0.18	0.03	0.03		0.03																					
Grid 3R	BH96	0																											
Grid 4R	BH1	0																											
Grid 4R	BH3	0																											
Grid 4R	BH5	0																											
Grid 4R	BH7	0																											
Grid 4R	BH9	4	0.03	0.03	0.03	0.03																							
Grid 4R	BH10a	5	1.70	0.03	0.40	0.03	0.03																						
Grid 5	BH65	0																											
Grid 5	BH69	0																											
Grid 5	BH70	0																											
Grid 5	BH71	0																											
Grid 5	BH72	0																											
Grid 5	BH73	0																											
Grid 5	BH74	0																											
Grid 5	BH76	0																											
Grid 5	BH77	0																											
Grid 5	BH78	6		0.03	0.03				0.08	0.03	0.03	0.03																	
Grid 5	BH79	0																											
Grid 5	BH84	0																											
Grid 6	BH53	0																											
Grid 6	BH55	0																											
Grid 6	BH56	0																											
Grid 6	BH57	0																											
Grid 6	BH58	0																											
Grid 6	BH59	0																											
Grid 6	BH61	10		0.03	0.03	0.03	0.03		0.03	0.03	0.03	0.03	0.03	0.03															
Grid 6	BH75	7		0.03		0.03	0.03		0.03	0.03	0.03		0.03																
Grid 6	BH81	9	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03																		
Grid 6	BH89	0																											
Grid 6	BH90	9	0.03	0.03		0.03	0.03	0.03	0.03	0.03	0.03	0.03																	
Grid 6	BH100	0																											
Grid 7R	BH31	0																											
Grid 7R	BH32	1							0.03																				
Grid 7R	BH33	0																											
Grid 7R	BH37	0																											
Grid 8R	BH10	1				0.03																							
Grid 8R	BH11	4	0.03	0.03	0.03	0.03																							
Grid 8R	BH15	4	0.03	0.03	0.03	0.03																							
Grid 8R	BH16	0																											
Grid 8R	BH30	0																											
Grid 9	BH54	0																											
Grid 9	BH62	0																											
Grid 9	BH63	0																											
Grid 9	BH64	0																											
Grid 9	BH66	0																											
Grid 9	BH68	9		0.03	0.03		0.03	0.03	0.03	0.03	0.03	0.03	0.03																
Grid 10	BH47	0																											
Grid 10	BH48	0																											
Grid 10	BH49	6	0.32		0.11		0.03	0.03		0.03	0.03																		
Grid 10	BH50	0																											
Grid 10	BH51	0																											
Grid 10	BH52	0																											
Grid 26	BH38	0																											
Grid 26	BH40	0																											
Grid 26	BH41	0																											
Grid 26	BH46	0																											
Grid 33R	BH36	0																											
Grid AR	BH39	0																											
Grid AR	BH43	0																											
Grid AR	BH45	0																											
Grid D	BH22	0																											
Grid D	BH27	0																											
Grid D	BH27a	6	0.03	0.03	0.03	0.03	0.03	0.03																					
Grid D	BH24	0																											
Grid D	BH25	1					0.03																						
Grid D	BH34	0																											
Grid 1	TB10	3																0.50	0.50	0.50									
Grid 1	TB10A	2																	0.50	0.50									
Grid 2	TB5	3																0.50	0.50	0.50									
Grid 2	TB7	3																0.50	0.50	0.50									
Grid 2	TB9	3																0.50	0.50	0.50									
Grid 4R	TB23	3																0.50	0.50	0.50									
Grid 5	TB11	3																0.50	0.50	0.50									
Grid 5	TB28	3																0.50	0.50	0.50									
Grid 6	TB4	3																0.50	0.50	0.50									
Grid 6	TB6	3																0.50	0.50	0.50									
Grid 6	TB8	3																0.50	0.50	0.50									

Grid 8R	TB27	3																0.50	0.50	0.50									
Grid 9	TB13	3																0.50	0.50	0.50									
Grid 10	TB3	2																	0.50	0.50									
Grid 10	TB12	3																0.50	0.50	0.50									
Grid 26	TB2	3																0.50	0.50	0.50									
Grid D	TB1	4																0.50	0.60	0.50	0.50								
Grid D	TB21	4																0.50	0.50	0.50	0.50								
Grid D	TB22	3																0.50	0.50	0.50									
Grid D	TB26	4																0.50	0.50	0.50	0.50								
Grid 4R	BD1	7																					0.50	0.50	0.50	0.50	0.50	0.50	0.50
Grid 8R	BD2	6																					0.50	0.50	0.50		0.50	0.50	0.50
Grid D	BD3	7																					0.50	0.50	0.50	0.50	0.50	0.50	0.50
Grid D	BD4	7																					0.50	0.50	0.50	0.50	0.50	0.50	0.50
Zone 2																													
Grid 11	BH170	9	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03																		
Grid 12	BH172	9	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03																		
Grid 13	BH171	6			0.03	0.03	0.03	0.03		0.03																			
Grid 14	BH173	7	0.03			0.03	0.03	0.03	0.03	0.03	1.40																		
Grid 15	BH135	0																											
Grid 15	BH136	0																											
Grid 15	BH137	0																											
Grid 15	BH142	0																											
Grid 15	BH143	9	0.24	0.09	0.03	0.03	0.03		0.03	0.03	0.03		0.03																
Grid 15	BH144	0																											
Grid 15	BH145	0																											
Grid 15	BH150	8	0.03	0.25	0.03			0.03	0.03	0.03	0.15	0.03																	
Grid 16	BH146	7	0.03	0.03	0.03	0.16	0.03	0.03		2.50																			
Grid 16	BH147	8	0.03	0.03		0.03	0.42	28.00	1.40	0.39	0.03																		
Grid 16	BH148	6	0.09			0.09	0.42	0.28	0.22		0.03																		
Grid 16	BH149	8	0.08	0.35	0.03	0.57	0.32	2.00	6.90	0.12																			
Grid 16	BH177	6		1.10			0.03	0.08	0.03	1.70	1.00																		
Grid 26	BH42	0																											
Grid 26	BH44	0																											
Grid 26	BH154	3	0.03	0.03		0.03																							
Grid 27	BH153	0																											
Grid 27	BH156	9	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03																		
Grid 28	BH158	9	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03																		
Grid 33R	BH155	5	0.03	0.03	0.03	0.03	0.03																						
Grid 34	BH157	5	0.03	0.03	0.03	0.03	0.03																						
Grid 34	BH174	0																											
Grid 34	BH175	0																											
Grid 34	BH176	0																											
Grid 35	BH159	5	0.03	0.03	0.03	0.03	0.03																						
Grid 27	TB14	3																0.50	0.50	0.50									
Grid 27	TB24	4																0.50	0.50	0.50	0.50								
Zone 1B+1C																													
Grid 17	BH126	0																											
Grid 17	BH128	0																											
Grid 17	BH129	0																											
Grid 17	BH130	0																											
Grid 17	BH131	0																											
Grid 17	BH132	0																											
Grid 17	BH134	7		0.03	0.44	0.14		6.00	0.03	0.03	0.03																		
Grid 17	BH139	0																											
Grid 18	BH116	0																											
Grid 18	BH117	0																											
Grid 18	BH118	0																											
Grid 18	BH119	0																											
Grid 18	BH120	0																											
Grid 18	BH121	0																											
Grid 18	BH122	0																											
Grid 18	BH123	0																											
Grid 18	BH124	0																											
Grid 18	BH125	6	0.03	0.03	0.03	0.03					0.13	0.03																	
Grid 19	BH179	5		0.96		0.03	0.18	0.40	0.10																				
Grid 20	BH108	6	0.03	0.10	0.03	0.03		0.03		0.03																			
Grid 20	BH109	6	0.30	0.13	0.03			0.22	0.03		0.09																		
Grid 20	BH110	7	0.03	0.03	0.03	0.10	0.03			0.03	0.03																		
Grid 20	BH111	3	0.30		0.03						0.03																		
Grid 20	BH112	8	0.03	0.03	0.03	0.03	0.08	0.20	0.12		4.30																		
Grid 20	BH113	0																											
Grid 20	BH114	7	0.03	0.14	0.03	0.03	1.50	0.03	0.03																				
Grid 20	BH115	8	0.06	0.03	0.03	0.03	0.03		0.03	0.12	0.03																		
Grid 21	BH178	7	0.03	0.03	0.03	0.08		0.09	0.03	0.03																			
Grid 22	BH151	9	0.11	0.09		54.00	0.38	0.09	0.18	0.07	0.03	0.03																	
Grid C	BH133	8	0.21	6.80	0.44		0.03		0.03	0.09	0.03	0.03																	
Grid 15	TB16	3																0.50	0.50	0.50									
Grid 15	TB30	3																0.50	0.50	0.50									
Grid 16	TB15	3																0.60	0.50	0.50									
Grid 17	TB17	3																0.50	0.50	0.50									
Grid 17	TB19	3																0.50	0.50	0.50									
Grid 18	TB18	3																0.50	0.50	0.50									
Grid 18	TB29	5																0.50	0.50	0.50	0.50	0.50							
Grid 20	TB20	3																1.10	5.80	0.50									

Zone	1A+3	1B+1C	2
Average Concentrations (mg/kg)	0.24	0.88	0.45

Acenaphthene

Grid	Depth (m)	Counter	0.5	1.5	3	4.5	6	7.5	9	10.5	12	13.5	15	16.5	18	19.5	21	D1	D2	D3	D4	D5	0.0M-0.5M	0.5M-1.5M	1.5M-3.0M	3.0M-4.5M	4.5M-6.0M	6.0M-7.5M	7.5M-9.0M
Zone 1A+3																													
Grid 1	BH82	5	0.03	0.03						0.03	0.03	0.03																	
Grid 1	BH83	0																											
Grid 1	BH85	13	0.03	0.03		0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03		0.03												
Grid 1	BH86	0																											
Grid 2	BH88	9			0.03			0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03														
Grid 2	BH91	0																											
Grid 2	BH92	0																											
Grid 2	BH93	0																											
Grid 2	BH94	0																											
Grid 2	BH95	0																											
Grid 2	BH97	0																											
Grid 2	BH99	9	0.03	0.03	0.03	0.03		0.03	0.03	0.03	0.03		0.03																
Grid 3R	BH8	5	0.03	0.03	0.03	0.03		0.03																					
Grid 3R	BH96	0																											
Grid 4R	BH1	0																											
Grid 4R	BH3	0																											
Grid 4R	BH5	0																											
Grid 4R	BH7	0																											
Grid 4R	BH9	4	0.03	0.03	0.03	0.03																							
Grid 4R	BH10a	5	0.08	0.03	0.03	0.03	0.03																						
Grid 5	BH65	0																											
Grid 5	BH69	0																											
Grid 5	BH70	0																											
Grid 5	BH71	0																											
Grid 5	BH72	0																											
Grid 5	BH73	0																											
Grid 5	BH74	0																											
Grid 5	BH76	0																											
Grid 5	BH77	0																											
Grid 5	BH78	6		0.03	0.03				0.03	0.03	0.03	0.03																	
Grid 5	BH79	0																											
Grid 5	BH84	0																											
Grid 6	BH53	0																											
Grid 6	BH55	0																											
Grid 6	BH56	0																											
Grid 6	BH57	0																											
Grid 6	BH58	0																											
Grid 6	BH59	0																											
Grid 6	BH61	10		0.03	0.03	0.03	0.03		0.03	0.03	0.03	0.03	0.03	0.03															
Grid 6	BH75	7		0.03		0.03	0.03		0.03	0.03	0.03		0.03																
Grid 6	BH81	9	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03																		
Grid 6	BH89	0																											
Grid 6	BH90	9	0.03	0.03		0.03	0.03	0.03	0.03	0.03	0.03	0.03																	
Grid 6	BH100	0																											
Grid 7R	BH31	0																											
Grid 7R	BH32	1							0.03																				
Grid 7R	BH33	0																											
Grid 7R	BH37	0																											
Grid 8R	BH10	1				0.03																							
Grid 8R	BH11	4	0.03	0.03	0.03	0.03																							
Grid 8R	BH15	4	0.03	0.03	0.03	0.03																							
Grid 8R	BH16	0																											
Grid 8R	BH30	0																											
Grid 9	BH54	0																											
Grid 9	BH62	0																											
Grid 9	BH63	0																											
Grid 9	BH64	0																											
Grid 9	BH66	0																											
Grid 9	BH68	9		0.03	0.03		0.03	0.03	0.03	0.03	0.03	0.03	0.03																
Grid 10	BH47	0																											
Grid 10	BH48	0																											
Grid 10	BH49	6	0.03		0.03		0.03	0.03		0.03	0.03																		
Grid 10	BH50	0																											
Grid 10	BH51	0																											
Grid 10	BH52	0																											
Grid 26	BH38	0																											
Grid 26	BH40	0																											
Grid 26	BH41	0																											
Grid 26	BH46	0																											
Grid 33R	BH36	0																											
Grid AR	BH39	0																											
Grid AR	BH43	0																											
Grid AR	BH45	0																											
Grid D	BH22	0																											
Grid D	BH27	0																											
Grid D	BH27a	6	0.03	0.03	0.03	0.03	0.03	0.03																					
Grid D	BH24	0																											
Grid D	BH25	1					0.03																						
Grid D	BH34	0																											
Grid 1	TB10	3																0.50	0.50	0.50									
Grid 1	TB10A	2																	0.50	0.50									
Grid 2	TB5	3																0.50	0.50	0.50									
Grid 2	TB7	3																0.50	0.50	0.50									
Grid 2	TB9	3																0.50	0.50	0.50									
Grid 4R	TB23	3																0.50	0.50	0.50									
Grid 5	TB11	3																0.50	0.50	0.50									
Grid 5	TB28	3																0.50	0.50	0.50									
Grid 6	TB4	3																0.50	0.50	0.50									
Grid 6	TB6	3																0.50	0.50	0.50									
Grid 6	TB8	3																0.50	0.50	0.50									

Grid 8R	TB27	3																0.50	0.50	0.50									
Grid 9	TB13	3																0.50	0.50	0.50									
Grid 10	TB3	2																	0.50	0.50									
Grid 10	TB12	3																0.50	0.50	0.50									
Grid 26	TB2	3																0.50	0.50	0.50									
Grid D	TB1	4																0.50	0.50	0.50	0.50								
Grid D	TB21	4																0.50	0.50	0.50	0.50								
Grid D	TB22	3																0.50	0.50	0.50									
Grid D	TB26	4																0.50	0.50	0.50	0.50								
Grid 4R	BD1	7																					0.50	0.50	0.50	0.50	0.50	0.50	0.50
Grid 8R	BD2	6																					0.50	0.50	0.50		0.50	0.50	0.50
Grid D	BD3	7																					0.50	0.50	0.50	0.50	0.50	0.50	0.50
Grid D	BD4	7																					0.50	0.79	0.50	0.50	0.50	0.50	0.50
Zone 2																													
Grid 11	BH170	9	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03																		
Grid 12	BH172	9	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03																		
Grid 13	BH171	6			0.03	0.03	0.03	0.03		0.03																			
Grid 14	BH173	7	0.03			0.03	0.03	0.03	0.03	0.03	0.03																		
Grid 15	BH135	0																											
Grid 15	BH136	0																											
Grid 15	BH137	0																											
Grid 15	BH142	0																											
Grid 15	BH143	9	0.03	0.03	0.03	0.03	0.03		0.03	0.03	0.03		0.03																
Grid 15	BH144	0																											
Grid 15	BH145	0																											
Grid 15	BH150	8	0.03	0.03	0.03			0.03	0.03	0.03	0.03	0.03																	
Grid 16	BH146	7	0.03	0.03	0.03	0.03	0.03	0.03		0.18																			
Grid 16	BH147	8	0.03	0.03		0.03	0.03	3.60	0.07	0.03	0.03																		
Grid 16	BH148	6	0.03			0.03	0.03	0.03	0.03		0.03																		
Grid 16	BH149	8	0.03	0.03	0.03	0.03	0.03	0.27	1.30	0.03																			
Grid 16	BH177	6		0.03			0.03	0.03	0.03	0.15	0.16																		
Grid 26	BH42	0																											
Grid 26	BH44	0																											
Grid 26	BH154	3	0.03	0.03		0.03																							
Grid 27	BH153	0																											
Grid 27	BH156	9	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03																		
Grid 28	BH158	9	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03																		
Grid 33R	BH155	5	0.03	0.03	0.03	0.03	0.03																						
Grid 34	BH157	5	0.03	0.03	0.03	0.03	0.03																						
Grid 34	BH174	0																											
Grid 34	BH175	0																											
Grid 34	BH176	0																											
Grid 35	BH159	5	0.03	0.03	0.03	0.03	0.03																						
Grid 27	TB14	3																0.50	0.50	0.50									
Grid 27	TB24	4																0.50	0.50	0.50	0.50								
Zone 1B+1C																													
Grid 17	BH126	0																											
Grid 17	BH128	0																											
Grid 17	BH129	0																											
Grid 17	BH130	0																											
Grid 17	BH131	0																											
Grid 17	BH132	0																											
Grid 17	BH134	7		0.03	0.03	0.03		0.31	0.03	0.03	0.03																		
Grid 17	BH139	0																											
Grid 18	BH116	0																											
Grid 18	BH117	0																											
Grid 18	BH118	0																											
Grid 18	BH119	0																											
Grid 18	BH120	0																											
Grid 18	BH121	0																											
Grid 18	BH122	0																											
Grid 18	BH123	0																											
Grid 18	BH124	0																											
Grid 18	BH125	6	0.03	0.03	0.03	0.03					0.03	0.03																	
Grid 19	BH179	5		0.03		0.03	0.03	0.03	0.03																				
Grid 20	BH108	6	0.03	0.03	0.03	0.03		0.03		0.03																			
Grid 20	BH109	6	0.03	0.03	0.03			0.03	0.03		0.03																		
Grid 20	BH110	7	0.03	0.03	0.03	0.03	0.03			0.03	0.03																		
Grid 20	BH111	3	0.03		0.03						0.03																		
Grid 20	BH112	8	0.03	0.03	0.03	0.03	0.03	0.03	0.03		0.24																		
Grid 20	BH113	0																											
Grid 20	BH114	7	0.03	0.03	0.03	0.03	0.03	0.03	0.03																				
Grid 20	BH115	8	0.03	0.03	0.03	0.03	0.03		0.03	0.03	0.03																		
Grid 21	BH178	7	0.03	0.03	0.03	0.03		0.03	0.03	0.03																			
Grid 22	BH151	9	0.03	0.03		8.20	0.06	0.03	0.03	0.03	0.03	0.03																	
Grid C	BH133	8	0.03	0.11	0.03		0.03		0.03	0.03	0.03	0.03																	
Grid 15	TB16	3																0.50	0.50	0.50									
Grid 15	TB30	3																0.50	0.50	0.50									
Grid 16	TB15	3																0.50	0.50	0.50									
Grid 17	TB17	3																0.50	0.50	0.50									
Grid 17	TB19	3																0.50	0.50	0.50									
Grid 18	TB18	3																0.50	0.50	0.50									
Grid 18	TB29	5																0.50	0.50	0.50	0.50	0.50							
Grid 20	TB20	3																0.50	1.00	0.50									

Zone	1A+3	1B+1C	2
Average Concentrations (mg/kg)	0.23	0.22	0.10

Fluorene

Grid	Depth (m)	Counter	0.5	1.5	3	4.5	6	7.5	9	10.5	12	13.5	15	16.5	18	19.5	21	D1	D2	D3	D4	D5	0.0M-0.5M	0.5M-1.5M	1.5M-3.0M	3.0M-4.5M	4.5M-6.0M	6.0M-7.5M	7.5M-9.0M
Zone 1A+3																													
Grid 1	BH82	5	0.03	0.03						0.03	0.03	0.03																	
Grid 1	BH83	0																											
Grid 1	BH85	13	0.03	0.03		0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03		0.03												
Grid 1	BH86	0																											
Grid 2	BH88	9			0.03			0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03														
Grid 2	BH91	0																											
Grid 2	BH92	0																											
Grid 2	BH93	0																											
Grid 2	BH94	0																											
Grid 2	BH95	0																											
Grid 2	BH97	0																											
Grid 2	BH99	9	0.03	0.03	0.03	0.03		0.03	0.03	0.03	0.03		0.03																
Grid 3R	BH8	5	0.03	0.03	0.03	0.03		0.03																					
Grid 3R	BH96	0																											
Grid 4R	BH1	0																											
Grid 4R	BH3	0																											
Grid 4R	BH5	0																											
Grid 4R	BH7	0																											
Grid 4R	BH9	4	0.03	0.03	0.03	0.03																							
Grid 4R	BH10a	5	0.15	0.03	0.03	0.03	0.03																						
Grid 5	BH65	0																											
Grid 5	BH69	0																											
Grid 5	BH70	0																											
Grid 5	BH71	0																											
Grid 5	BH72	0																											
Grid 5	BH73	0																											
Grid 5	BH74	0																											
Grid 5	BH76	0																											
Grid 5	BH77	0																											
Grid 5	BH78	6		0.03	0.03				0.03	0.03	0.03	0.03																	
Grid 5	BH79	0																											
Grid 5	BH84	0																											
Grid 6	BH53	0																											
Grid 6	BH55	0																											
Grid 6	BH56	0																											
Grid 6	BH57	0																											
Grid 6	BH58	0																											
Grid 6	BH59	0																											
Grid 6	BH61	10		0.03	0.03	0.03	0.03		0.03	0.03	0.03	0.03	0.03	0.03															
Grid 6	BH75	7		0.03		0.03	0.03		0.03	0.03	0.03		0.03																
Grid 6	BH81	9	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03																		
Grid 6	BH89	0																											
Grid 6	BH90	9	0.03	0.03		0.03	0.03	0.03	0.03	0.03	0.03	0.03																	
Grid 6	BH100	0																											
Grid 7R	BH31	0																											
Grid 7R	BH32	1							0.03																				
Grid 7R	BH33	0																											
Grid 7R	BH37	0																											
Grid 8R	BH10	1				0.03																							
Grid 8R	BH11	4	0.03	0.03	0.03	0.03																							
Grid 8R	BH15	4	0.03	0.03	0.03	0.03																							
Grid 8R	BH16	0																											
Grid 8R	BH30	0																											
Grid 9	BH54	0																											
Grid 9	BH62	0																											
Grid 9	BH63	0																											
Grid 9	BH64	0																											
Grid 9	BH66	0																											
Grid 9	BH68	9		0.03	0.03		0.03	0.03	0.03	0.03	0.03	0.03	0.03																
Grid 10	BH47	0																											
Grid 10	BH48	0																											
Grid 10	BH49	6	0.03		0.03		0.03	0.03		0.03	0.03																		
Grid 10	BH50	0																											
Grid 10	BH51	0																											
Grid 10	BH52	0																											
Grid 26	BH38	0																											
Grid 26	BH40	0																											
Grid 26	BH41	0																											
Grid 26	BH46	0																											
Grid 33R	BH36	0																											
Grid AR	BH39	0																											
Grid AR	BH43	0																											
Grid AR	BH45	0																											
Grid D	BH22	0																											
Grid D	BH27	0																											
Grid D	BH27a	6	0.03	0.03	0.03	0.03	0.03	0.03																					
Grid D	BH24	0																											
Grid D	BH25	1					0.03																						
Grid D	BH34	0																											
Grid 1	TB10	3																0.50	0.50	0.50									
Grid 1	TB10A	2																	0.50	0.50									
Grid 2	TB5	3																0.50	0.50	0.50									
Grid 2	TB7	3																0.50	0.50	0.50									
Grid 2	TB9	3																0.50	0.50	0.50									
Grid 4R	TB23	3																0.50	0.50	0.50									
Grid 5	TB11	3																0.50	0.50	0.50									
Grid 5	TB28	3																0.50	0.50	0.50									
Grid 6	TB4	3																0.50	0.50	0.50									
Grid 6	TB6	3																0.50	0.50	0.50									
Grid 6	TB8	3																0.50	0.50	0.50									

Grid 8R	TB27	3																0.50	0.50	0.50									
Grid 9	TB13	3																0.50	0.50	0.50									
Grid 10	TB3	2																	0.50	0.50									
Grid 10	TB12	3																0.50	0.50	0.50									
Grid 26	TB2	3																0.50	0.50	0.50									
Grid D	TB1	4																0.50	0.50	0.50	0.50								
Grid D	TB21	4																0.50	0.50	0.50	0.50								
Grid D	TB22	3																0.50	0.50	0.50									
Grid D	TB26	4																0.50	0.50	0.60	0.50								
Grid 4R	BD1	7																					0.50	0.50	0.50	0.50	0.50	0.50	0.50
Grid 8R	BD2	6																					0.50	0.50	0.50		0.50	0.50	0.50
Grid D	BD3	7																					0.50	0.50	0.50	0.50	0.50	0.50	0.50
Grid D	BD4	7																					0.88	2.61	0.50	0.50	0.50	0.50	0.50
Zone 2																													
Grid 11	BH170	9	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03																		
Grid 12	BH172	9	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03																		
Grid 13	BH171	6			0.03	0.03	0.03	0.03		0.03																			
Grid 14	BH173	7	0.03			0.03	0.03	0.03	0.03	0.03	0.03																		
Grid 15	BH135	0																											
Grid 15	BH136	0																											
Grid 15	BH137	0																											
Grid 15	BH142	0																											
Grid 15	BH143	9	0.03	0.03	0.03	0.03	0.03		0.03	0.03	0.03		0.03																
Grid 15	BH144	0																											
Grid 15	BH145	0																											
Grid 15	BH150	8	0.03	0.03	0.03			0.03	0.03	0.03	0.03	0.03																	
Grid 16	BH146	7	0.03	0.03	0.03	0.03	0.03	0.03		0.42																			
Grid 16	BH147	8	0.03	0.03		0.03	0.07	13.00	0.03	0.06	0.03																		
Grid 16	BH148	6	0.03			0.03	0.03	0.03	0.03		0.03																		
Grid 16	BH149	8	0.03	0.03	0.03	0.03	0.03	1.40	6.50	0.03																			
Grid 16	BH177	6		0.23			0.03	0.03	0.03	0.60	0.30																		
Grid 26	BH42	0																											
Grid 26	BH44	0																											
Grid 26	BH154	3	0.03	0.03		0.03																							
Grid 27	BH153	0																											
Grid 27	BH156	9	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03																		
Grid 28	BH158	9	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03																		
Grid 33R	BH155	5	0.03	0.03	0.03	0.03	0.03																						
Grid 34	BH157	5	0.03	0.03	0.03	0.03	0.03																						
Grid 34	BH174	0																											
Grid 34	BH175	0																											
Grid 34	BH176	0																											
Grid 35	BH159	5	0.03	0.03	0.03	0.03	0.03																						
Grid 27	TB14	3																0.50	0.50	0.50									
Grid 27	TB24	4																0.50	0.50	0.50	0.50								
Zone 1B+1C																													
Grid 17	BH126	0																											
Grid 17	BH128	0																											
Grid 17	BH129	0																											
Grid 17	BH130	0																											
Grid 17	BH131	0																											
Grid 17	BH132	0																											
Grid 17	BH134	7		0.03	0.08	0.03		2.00	0.03	0.03	0.03																		
Grid 17	BH139	0																											
Grid 18	BH116	0																											
Grid 18	BH117	0																											
Grid 18	BH118	0																											
Grid 18	BH119	0																											
Grid 18	BH120	0																											
Grid 18	BH121	0																											
Grid 18	BH122	0																											
Grid 18	BH123	0																											
Grid 18	BH124	0																											
Grid 18	BH125	6	0.03	0.03	0.03	0.03					0.03	0.03																	
Grid 19	BH179	5		0.03		0.03	0.19	0.03	0.03																				
Grid 20	BH108	6	0.03	0.06	0.03	0.03		0.03		0.03																			
Grid 20	BH109	6	0.03	0.03	0.03			0.03	0.03		0.03																		
Grid 20	BH110	7	0.03	0.03	0.03	0.07	0.03			0.03	0.03																		
Grid 20	BH111	3	0.03		0.03						0.03																		
Grid 20	BH112	8	0.03	0.03	0.03	0.03	0.03	0.09	0.03		1.00																		
Grid 20	BH113	0																											
Grid 20	BH114	7	0.03	0.03	0.03	0.03	0.12	0.03	0.03																				
Grid 20	BH115	8	0.03	0.03	0.03	0.03	0.03		0.03	0.03	0.03																		
Grid 21	BH178	7	0.03	0.03	0.03	0.03		0.03	0.03	0.03																			
Grid 22	BH151	9	0.03	0.03		8.30	0.07	0.03	0.03	0.03	0.03	0.03																	
Grid C	BH133	8	0.03	0.27	0.03		0.03		0.03	0.03	0.03	0.03																	
Grid 15	TB16	3																0.50	0.50	0.50									
Grid 15	TB30	3																0.50	0.50	0.50									
Grid 16	TB15	3																0.50	0.50	0.50									
Grid 17	TB17	3																0.50	0.50	0.50									
Grid 17	TB19	3																0.50	0.50	0.50									
Grid 18	TB18	3																0.50	0.50	0.50									
Grid 18	TB29	5																0.50	0.50	0.50	0.50	0.50							
Grid 20	TB20	3																0.50	0.90	0.50									

Zone	1A+3	1B+1C	2
Average Concentrations (mg/kg)	0.24	0.25	0.23

Chrysene

Grid	Depth (m)	Counter	0.5	1.5	3	4.5	6	7.5	9	10.5	12	13.5	15	16.5	18	19.5	21	D1	D2	D3	D4	D5	0.0M-0.5M	0.5M-1.5M	1.5M-3.0M	3.0M-4.5M	4.5M-6.0M	6.0M-7.5M	7.5M-9.0M
Zone 1A+3																													
Grid 1	BH82	5	0.09	0.09						0.09	0.09	0.09																	
Grid 1	BH83	0																											
Grid 1	BH85	13	0.09	0.09		0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09		0.09												
Grid 1	BH86	0																											
Grid 2	BH88	9			0.09			0.09	0.28	0.09	0.09	0.09	0.09	0.09	0.09														
Grid 2	BH91	0																											
Grid 2	BH92	0																											
Grid 2	BH93	0																											
Grid 2	BH94	0																											
Grid 2	BH95	0																											
Grid 2	BH97	0																											
Grid 2	BH99	9	0.09	0.09	0.09	0.09		0.09	0.09	0.09	0.09		0.09																
Grid 3R	BH8	5	0.51	0.28	0.09	0.09		0.09																					
Grid 3R	BH96	0																											
Grid 4R	BH1	0																											
Grid 4R	BH3	0																											
Grid 4R	BH5	0																											
Grid 4R	BH7	0																											
Grid 4R	BH9	4	0.09	0.09	0.09	1.10																							
Grid 4R	BH10a	5	3.30	0.09	1.10	0.09	0.09																						
Grid 5	BH65	0																											
Grid 5	BH69	0																											
Grid 5	BH70	0																											
Grid 5	BH71	0																											
Grid 5	BH72	0																											
Grid 5	BH73	0																											
Grid 5	BH74	0																											
Grid 5	BH76	0																											
Grid 5	BH77	0																											
Grid 5	BH78	6		0.09	0.09				0.20	0.09	0.09	0.09																	
Grid 5	BH79	0																											
Grid 5	BH84	0																											
Grid 6	BH53	0																											
Grid 6	BH55	0																											
Grid 6	BH56	0																											
Grid 6	BH57	0																											
Grid 6	BH58	0																											
Grid 6	BH59	0																											
Grid 6	BH61	10		0.09	0.09	0.09	0.09		0.09	0.25	0.09	0.09	0.09	0.09															
Grid 6	BH75	7		0.09		0.09	0.09		0.09	0.09	0.09		0.09																
Grid 6	BH81	9	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09																		
Grid 6	BH89	0																											
Grid 6	BH90	9	0.09	0.09		0.09	0.09	0.09	0.09	0.09	0.09	0.09																	
Grid 6	BH100	0																											
Grid 7R	BH31	0																											
Grid 7R	BH32	1							0.09																				
Grid 7R	BH33	0																											
Grid 7R	BH37	0																											
Grid 8R	BH10	1				0.09																							
Grid 8R	BH11	4	0.09	0.09	0.09	0.60																							
Grid 8R	BH15	4	0.70	0.09	0.09	0.70																							
Grid 8R	BH16	0																											
Grid 8R	BH30	0																											
Grid 9	BH54	0																											
Grid 9	BH62	0																											
Grid 9	BH63	0																											
Grid 9	BH64	0																											
Grid 9	BH66	0																											
Grid 9	BH68	9		0.09	0.09		0.09	0.09	0.09	0.09	0.09	0.09	0.09																
Grid 10	BH47	0																											
Grid 10	BH48	0																											
Grid 10	BH49	6	0.25		0.20		0.09	0.09		0.09	0.09																		
Grid 10	BH50	0																											
Grid 10	BH51	0																											
Grid 10	BH52	0																											
Grid 26	BH38	0																											
Grid 26	BH40	0																											
Grid 26	BH41	0																											
Grid 26	BH46	0																											
Grid 33R	BH36	0																											
Grid AR	BH39	0																											
Grid AR	BH43	0																											
Grid AR	BH45	0																											
Grid D	BH22	0																											
Grid D	BH27	0																											
Grid D	BH27a	6	0.09	0.09	0.09	0.09	0.09	0.09																					
Grid D	BH24	0																											
Grid D	BH25	1					0.09																						
Grid D	BH34	0																											
Grid 1	TB10	3																0.50	0.50	0.50									
Grid 1	TB10A	2																	0.50	0.50									
Grid 2	TB5	3																0.50	0.50	0.50									
Grid 2	TB7	3																0.50	0.50	0.50									
Grid 2	TB9	3																0.50	0.70	0.50									
Grid 4R	TB23	3																0.50	0.50	0.50									
Grid 5	TB11	3																0.50	0.50	0.50									
Grid 5	TB28	3																0.50	0.50	0.50									
Grid 6	TB4	3																0.50	0.50	0.50									
Grid 6	TB6	3																0.50	0.50	0.50									
Grid 6	TB8	3																0.50	0.50	1.90									

Grid 8R	TB27	3																0.50	0.50	1.40									
Grid 9	TB13	3																0.50	0.50	0.50									
Grid 10	TB3	2																	0.50	0.50									
Grid 10	TB12	3																0.50	0.50	0.50									
Grid 26	TB2	3																0.50	0.50	0.50									
Grid D	TB1	4																0.50	0.60	0.50	0.50								
Grid D	TB21	4																0.50	0.50	0.50	0.50								
Grid D	TB22	3																0.50	0.50	0.50									
Grid D	TB26	4																0.60	0.50	0.50	0.50								
Grid 4R	BD1	7																					0.50	0.50	0.50	0.50	0.50	0.50	0.50
Grid 8R	BD2	6																					0.50	0.50	1.98		0.50	0.50	0.50
Grid D	BD3	7																					0.50	0.50	0.50	0.50	0.50	0.50	0.50
Grid D	BD4	7																					0.50	0.50	0.50	0.50	0.50	0.50	0.50
Zone 2																													
Grid 11	BH170	9	0.09	0.09	2.00	0.09	0.60	0.09	0.09	0.09	0.09																		
Grid 12	BH172	9	0.09	0.09	0.70	0.09	0.09	0.50	2.50	0.09	0.09																		
Grid 13	BH171	6			0.09	0.09	0.09	0.09	0.09		0.09																		
Grid 14	BH173	7	0.09			0.09	0.09	0.50	0.09	0.09	3.00																		
Grid 15	BH135	0																											
Grid 15	BH136	0																											
Grid 15	BH137	0																											
Grid 15	BH142	0																											
Grid 15	BH143	9	0.51	0.23	0.09	0.09	0.09		0.09	0.09	0.09		0.09																
Grid 15	BH144	0																											
Grid 15	BH145	0																											
Grid 15	BH150	8	0.09	0.60	0.09			0.09	0.09	0.09	0.29	0.09																	
Grid 16	BH146	7	0.09	0.09	0.09	0.09	0.09	0.09		5.60																			
Grid 16	BH147	8	0.09	0.09		0.46	0.89	37.00	0.61	0.56	0.09																		
Grid 16	BH148	6	0.19			0.09	0.50	0.60	0.96		0.09																		
Grid 16	BH149	8	0.19	0.48	0.29	0.25	0.98	5.30	15.00	0.09																			
Grid 16	BH177	6		0.68			0.09	0.24	0.09	3.20	2.20																		
Grid 26	BH42	0																											
Grid 26	BH44	0																											
Grid 26	BH154	3	0.21	0.09		0.09																							
Grid 27	BH153	0																											
Grid 27	BH156	9	0.70	0.09	0.09	0.09	2.00	0.09	0.09	0.09	0.09																		
Grid 28	BH158	9	0.09	0.09	0.80	0.09	0.09	1.10	0.09	0.09	0.09																		
Grid 33R	BH155	5	1.40	0.09	0.09	0.09	0.09																						
Grid 34	BH157	5	0.09	0.60	0.70	0.09	0.09																						
Grid 34	BH174	0																											
Grid 34	BH175	0																											
Grid 34	BH176	0																											
Grid 35	BH159	5	0.09	0.09	0.09	0.09	0.09																						
Grid 27	TB14	3																0.50	0.50	0.50									
Grid 27	TB24	4																0.50	0.50	0.50	0.50								
Zone 1B+1C																													
Grid 17	BH126	0																											
Grid 17	BH128	0																											
Grid 17	BH129	0																											
Grid 17	BH130	0																											
Grid 17	BH131	0																											
Grid 17	BH132	0																											
Grid 17	BH134	7		0.09	0.65	0.61		27.00	0.09	0.09	0.09																		
Grid 17	BH139	0																											
Grid 18	BH116	0																											
Grid 18	BH117	0																											
Grid 18	BH118	0																											
Grid 18	BH119	0																											
Grid 18	BH120	0																											
Grid 18	BH121	0																											
Grid 18	BH122	0																											
Grid 18	BH123	0																											
Grid 18	BH124	0																											
Grid 18	BH125	6	0.09	0.09	0.09	0.09					0.33	0.23																	
Grid 19	BH179	5		2.50		0.20	0.35	0.63	0.09																				
Grid 20	BH108	6	0.09	0.09	0.09	0.09		0.09		0.09																			
Grid 20	BH109	6	0.96	0.45	0.09			0.31	0.09		0.19																		
Grid 20	BH110	7	0.09	0.09	0.09	0.79	0.09			0.21	0.09																		
Grid 20	BH111	3	0.83		0.09						0.09																		
Grid 20	BH112	8	0.09	0.09	0.09	0.09	0.20	0.65	0.40		7.50																		
Grid 20	BH113	0																											
Grid 20	BH114	7	0.09	0.36	0.09	0.09	2.40	0.09	0.09																				
Grid 20	BH115	8	0.09	0.09	0.09	0.09	0.09		0.09	0.58	0.09																		
Grid 21	BH178	7	0.22	0.09	0.09	0.09		0.09	0.09	0.09																			
Grid 22	BH151	9	0.29	0.22		61.00	0.34	0.09	0.20	0.09	0.09	0.09																	
Grid C	BH133	8	0.09	13.00	0.70		0.09		0.09	0.18	0.09	0.09																	
Grid 15	TB16	3																0.50	0.50	0.50									
Grid 15	TB30	3																0.50	0.50	0.50									
Grid 16	TB15	3																2.70	0.50	0.50									
Grid 17	TB17	3																0.50	0.50	0.50									
Grid 17	TB19	3																0.50	0.50	0.50									
Grid 18	TB18	3																0.50	0.50	0.50									
Grid 18	TB29	5																0.50	0.50	0.50	0.50	0.60							
Grid 20	TB20	3																4.60	33.80	0.50									

Zone	1A+3	1B+1C	2
Average Concentrations (mg/kg)	0.32	1.61	0.84

Benzo(a)anthracene

Grid	Depth (m)	Counter	0.5	1.5	3	4.5	6	7.5	9	10.5	12	13.5	15	16.5	18	19.5	21	D1	D2	D3	D4	D5	0.0M-0.5M	0.5M-1.5M	1.5M-3.0M	3.0M-4.5M	4.5M-6.0M	6.0M-7.5M	7.5M-9.0M
Zone 1A+3																													
Grid 1	BH82	5	0.09	0.09						0.09	0.09	0.09																	
Grid 1	BH83	0																											
Grid 1	BH85	13	0.09	0.09		0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09		0.09												
Grid 1	BH86	0																											
Grid 2	BH88	9			0.09			0.09	0.33	0.09	0.09	0.09	0.09	0.09	0.09														
Grid 2	BH91	0																											
Grid 2	BH92	0																											
Grid 2	BH93	0																											
Grid 2	BH94	0																											
Grid 2	BH95	0																											
Grid 2	BH97	0																											
Grid 2	BH99	9	0.09	0.09	0.09	0.09		0.09	0.09	0.09	0.09		0.09																
Grid 3R	BH8	5	0.45	0.21	0.09	0.09		0.09																					
Grid 3R	BH96	0																											
Grid 4R	BH1	0																											
Grid 4R	BH3	0																											
Grid 4R	BH5	0																											
Grid 4R	BH7	0																											
Grid 4R	BH9	4	0.09	0.09	0.09	0.90																							
Grid 4R	BH10a	5	5.00	0.09	1.10	0.09	0.09																						
Grid 5	BH65	0																											
Grid 5	BH69	0																											
Grid 5	BH70	0																											
Grid 5	BH71	0																											
Grid 5	BH72	0																											
Grid 5	BH73	0																											
Grid 5	BH74	0																											
Grid 5	BH76	0																											
Grid 5	BH77	0																											
Grid 5	BH78	6		0.09	0.09				0.09	0.09	0.09	0.09																	
Grid 5	BH79	0																											
Grid 5	BH84	0																											
Grid 6	BH53	0																											
Grid 6	BH55	0																											
Grid 6	BH56	0																											
Grid 6	BH57	0																											
Grid 6	BH58	0																											
Grid 6	BH59	0																											
Grid 6	BH61	10		0.09	0.09	0.09	0.09		0.09	0.21	0.09	0.09	0.09	0.09															
Grid 6	BH75	7		0.09		0.09	0.09		0.09	0.09	0.09		0.09																
Grid 6	BH81	9	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09																		
Grid 6	BH89	0																											
Grid 6	BH90	9	0.09	0.09		0.09	0.09	0.09	0.09	0.09	0.09	0.09																	
Grid 6	BH100	0																											
Grid 7R	BH31	0																											
Grid 7R	BH32	1							0.09																				
Grid 7R	BH33	0																											
Grid 7R	BH37	0																											
Grid 8R	BH10	1				0.09																							
Grid 8R	BH11	4	0.09	0.09	0.09	0.09																							
Grid 8R	BH15	4	0.70	0.09	0.09	0.50																							
Grid 8R	BH16	0																											
Grid 8R	BH30	0																											
Grid 9	BH54	0																											
Grid 9	BH62	0																											
Grid 9	BH63	0																											
Grid 9	BH64	0																											
Grid 9	BH66	0																											
Grid 9	BH68	9		0.09	0.09		0.09	0.09	0.09	0.09	0.09	0.09	0.09																
Grid 10	BH47	0																											
Grid 10	BH48	0																											
Grid 10	BH49	6	0.20		0.09		0.09	0.09		0.09	0.09																		
Grid 10	BH50	0																											
Grid 10	BH51	0																											
Grid 10	BH52	0																											
Grid 26	BH38	0																											
Grid 26	BH40	0																											
Grid 26	BH41	0																											
Grid 26	BH46	0																											
Grid 33R	BH36	0																											
Grid AR	BH39	0																											
Grid AR	BH43	0																											
Grid AR	BH45	0																											
Grid D	BH22	0																											
Grid D	BH27	0																											
Grid D	BH27a	6	0.09	0.09	0.09	0.09	0.09	0.09																					
Grid D	BH24	0																											
Grid D	BH25	1					0.09																						
Grid D	BH34	0																											
Grid 1	TB10	3																0.50	0.50	0.50									
Grid 1	TB10A	2																	0.50	0.50									
Grid 2	TB5	3																0.50	0.50	0.50									
Grid 2	TB7	3																0.50	0.50	0.50									
Grid 2	TB9	3																0.50	0.70	0.50									
Grid 4R	TB23	3																0.50	0.50	0.50									
Grid 5	TB11	3																0.50	0.50	0.50									
Grid 5	TB28	3																0.50	0.50	0.50									
Grid 6	TB4	3																0.50	0.50	0.50									
Grid 6	TB6	3																0.50	0.50	0.50									
Grid 6	TB8	3																0.50	0.50	2.00									

Grid 8R	TB27	3																0.50	0.50	1.30										
Grid 9	TB13	3																0.50	0.50	0.50										
Grid 10	TB3	2																	0.50	0.50										
Grid 10	TB12	3																0.50	0.50	0.50										
Grid 26	TB2	3																0.50	0.50	0.50										
Grid D	TB1	4																0.50	0.70	0.50	0.50									
Grid D	TB21	4																0.50	0.50	0.50	0.50									
Grid D	TB22	3																0.50	0.50	0.50										
Grid D	TB26	4																0.60	0.50	0.50	0.50									
Grid 4R	BD1	0																												
Grid 8R	BD2	0																												
Grid D	BD3	0																												
Grid D	BD4	0																												
Zone 2																														
Grid 11	BH170	9	0.09	0.09	1.80	0.09	0.60	0.09	0.09	0.09	0.09																			
Grid 12	BH172	9	0.09	0.09	0.09	0.09	0.09	0.09	2.30	0.09	0.09																			
Grid 13	BH171	6			0.09	0.09	0.09	0.09	0.09		0.09																			
Grid 14	BH173	7	0.09			0.09	0.09	0.09	0.09	0.09	3.40																			
Grid 15	BH135	0																												
Grid 15	BH136	0																												
Grid 15	BH137	0																												
Grid 15	BH142	0																												
Grid 15	BH143	9	0.52	0.18	0.09	0.09	0.09		0.09	0.09	0.09		0.09																	
Grid 15	BH144	0																												
Grid 15	BH145	0																												
Grid 15	BH150	8	0.09	0.55	0.09			0.09	0.09	0.09	0.27	0.09																		
Grid 16	BH146	7	0.09	0.09	0.09	0.09	0.09	0.09		8.10																				
Grid 16	BH147	8	0.09	0.09		0.27	0.96	56.00	0.63	0.69	0.09																			
Grid 16	BH148	6	0.09			0.09	0.62	0.49	0.91		0.09																			
Grid 16	BH149	8	0.15	0.51	0.19	0.09	1.30	8.10	26.00	0.20																				
Grid 16	BH177	6		0.63			0.09	0.19	0.09	3.30	2.10																			
Grid 26	BH42	0																												
Grid 26	BH44	0																												
Grid 26	BH154	3	0.09	0.09		0.09																								
Grid 27	BH153	0																												
Grid 27	BH156	9	0.60	0.09	0.09	0.09	2.00	0.09	0.09	0.09	0.09																			
Grid 28	BH158	9	0.09	0.09	0.70	0.09	0.09	1.00	0.09	0.09	0.09																			
Grid 33R	BH155	5	1.00	0.09	0.09	0.09	0.09																							
Grid 34	BH157	5	0.09	0.60	0.60	0.09	0.09																							
Grid 34	BH174	0																												
Grid 34	BH175	0																												
Grid 34	BH176	0																												
Grid 35	BH159	5	0.09	0.09	0.09	0.09	0.09																							
Grid 27	TB14	3																0.50	0.50	0.50										
Grid 27	TB24	4																0.50	0.50	0.50	0.50									
Zone 1B+1C																														
Grid 17	BH126	0																												
Grid 17	BH128	0																												
Grid 17	BH129	0																												
Grid 17	BH130	0																												
Grid 17	BH131	0																												
Grid 17	BH132	0																												
Grid 17	BH134	7		0.09	0.78	0.31		25.00	0.09	0.09	0.09																			
Grid 17	BH139	0																												
Grid 18	BH116	0																												
Grid 18	BH117	0																												
Grid 18	BH118	0																												
Grid 18	BH119	0																												
Grid 18	BH120	0																												
Grid 18	BH121	0																												
Grid 18	BH122	0																												
Grid 18	BH123	0																												
Grid 18	BH124	0																												
Grid 18	BH125	6	0.09	0.09	0.09	0.09					0.26	0.21																		
Grid 19	BH179	5		2.70		0.20	0.44	0.81	0.09																					
Grid 20	BH108	6	0.09	0.09	0.09	0.09		0.09		0.09																				
Grid 20	BH109	6	0.82	0.61	0.09			0.37	0.09		0.09																			
Grid 20	BH110	7	0.09	0.09	0.09	0.82	0.09			0.09	0.09																			
Grid 20	BH111	3	0.53		0.09						0.09																			
Grid 20	BH112	8	0.09	0.09	0.09	0.09	0.09	0.48	0.27		6.00																			
Grid 20	BH113	0																												
Grid 20	BH114	7	0.09	0.32	0.09	0.09	2.10	0.09	0.09																					
Grid 20	BH115	8	0.09	0.09	0.09	0.09	0.09		0.09	0.70	0.09																			
Grid 21	BH178	7	0.09	0.09	0.09	0.09		0.09	0.09	0.09																				
Grid 22	BH151	9	0.28	0.09		63.00	0.39	0.09	0.22	0.09	0.09	0.09																		
Grid C	BH133	8	0.09	12.00	0.72		0.09		0.09	0.09	0.09	0.09																		
Grid 15	TB16	3																0.50	0.50	0.50										
Grid 15	TB30	3																0.50	0.50	0.50										
Grid 16	TB15	3																2.50	0.50	0.50										
Grid 17	TB17	3																0.50	0.50	0.50										
Grid 17	TB19	3																0.50	0.50	0.50										
Grid 18	TB18	3																0.50	0.50	0.50										
Grid 18	TB29	5																0.50	0.50	0.50	0.50	0.50								
Grid 20	TB20	3																2.30	11.50	0.50										

Zone	1A+3	1B+1C	2
Average Concentrations (mg/kg)	0.29	1.36	1.10

Benzo(b)fluoranthene

Grid	Depth (m)	Counter	0.5	1.5	3	4.5	6	7.5	9	10.5	12	13.5	15	16.5	18	19.5	21	D1	D2	D3	D4	D5	0.0M-0.5M	0.5M-1.5M	1.5M-3.0M	3.0M-4.5M	4.5M-6.0M	6.0M-7.5M	7.5M-9.0M
Zone 1A+3																													
Grid 1	BH82	5	0.09	0.09						0.09	0.09	0.09																	
Grid 1	BH83	0																											
Grid 1	BH85	13	0.09	0.09		0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09		0.09												
Grid 1	BH86	0																											
Grid 2	BH88	9			0.09			0.09	0.25	0.09	0.09	0.09	0.09	0.09	0.09														
Grid 2	BH91	0																											
Grid 2	BH92	0																											
Grid 2	BH93	0																											
Grid 2	BH94	0																											
Grid 2	BH95	0																											
Grid 2	BH97	0																											
Grid 2	BH99	9	0.09	0.09	0.09	0.09		0.09	0.09	0.09	0.09		0.09																
Grid 3R	BH8	5	0.95	0.59	0.09	0.09		0.09																					
Grid 3R	BH96	0																											
Grid 4R	BH1	0																											
Grid 4R	BH3	0																											
Grid 4R	BH5	0																											
Grid 4R	BH7	0																											
Grid 4R	BH9	4	0.09	0.09	0.09	2.00																							
Grid 4R	BH10a	5	2.60	0.09	2.20	0.09	0.09																						
Grid 5	BH65	0																											
Grid 5	BH69	0																											
Grid 5	BH70	0																											
Grid 5	BH71	0																											
Grid 5	BH72	0																											
Grid 5	BH73	0																											
Grid 5	BH74	0																											
Grid 5	BH76	0																											
Grid 5	BH77	0																											
Grid 5	BH78	6		0.09	0.09				0.31	0.17	0.09	0.09																	
Grid 5	BH79	0																											
Grid 5	BH84	0																											
Grid 6	BH53	0																											
Grid 6	BH55	0																											
Grid 6	BH56	0																											
Grid 6	BH57	0																											
Grid 6	BH58	0																											
Grid 6	BH59	0																											
Grid 6	BH61	10		0.09	0.09	0.09	0.09		0.09	0.35	0.09	0.09	0.09	0.09															
Grid 6	BH75	7		0.09		0.09	0.09		0.09	0.09	0.09		0.09																
Grid 6	BH81	9	0.17	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09																		
Grid 6	BH89	0																											
Grid 6	BH90	9	0.09	0.09		0.09	0.09	0.09	0.09	0.09	0.09	0.09																	
Grid 6	BH100	0																											
Grid 7R	BH31	0																											
Grid 7R	BH32	1							0.09																				
Grid 7R	BH33	0																											
Grid 7R	BH37	0																											
Grid 8R	BH10	1				0.09																							
Grid 8R	BH11	4	0.09	0.09	0.09	1.00																							
Grid 8R	BH15	4	1.00	0.09	0.09	1.00																							
Grid 8R	BH16	0																											
Grid 8R	BH30	0																											
Grid 9	BH54	0																											
Grid 9	BH62	0																											
Grid 9	BH63	0																											
Grid 9	BH64	0																											
Grid 9	BH66	0																											
Grid 9	BH68	9		0.09	0.09		0.09	0.09	0.09	0.09	0.09	0.09	0.09																
Grid 10	BH47	0																											
Grid 10	BH48	0																											
Grid 10	BH49	6	0.28		0.09		0.09	0.09		0.09	0.09																		
Grid 10	BH50	0																											
Grid 10	BH51	0																											
Grid 10	BH52	0																											
Grid 26	BH38	0																											
Grid 26	BH40	0																											
Grid 26	BH41	0																											
Grid 26	BH46	0																											
Grid 33R	BH36	0																											
Grid AR	BH39	0																											
Grid AR	BH43	0																											
Grid AR	BH45	0																											
Grid D	BH22	0																											
Grid D	BH27	0																											
Grid D	BH27a	6	0.09	0.09	0.09	0.09	0.17	0.09																					
Grid D	BH24	0																											
Grid D	BH25	1					0.09																						
Grid D	BH34	0																											
Grid 1	TB10	3																1.00	1.00	1.00									
Grid 1	TB10A	2																	1.00	1.00									
Grid 2	TB5	3																1.00	1.00	1.00									
Grid 2	TB7	3																1.00	1.00	1.00									
Grid 2	TB9	3																1.00	2.00	1.00									
Grid 4R	TB23	3																1.00	1.00	1.00									
Grid 5	TB11	3																1.00	1.00	1.00									
Grid 5	TB28	3																1.00	1.00	1.00									
Grid 6	TB4	3																1.00	1.00	1.00									
Grid 6	TB6	3																1.00	1.00	1.00									
Grid 6	TB8	3																1.00	1.00	3.00									

Grid 8R	TB27	3																1.00	1.00	4.00									
Grid 9	TB13	3																1.00	1.00	1.00									
Grid 10	TB3	2																	1.00	1.00									
Grid 10	TB12	3																1.00	1.00	1.00									
Grid 26	TB2	3																1.00	1.00	1.00									
Grid D	TB1	4																1.00	2.00	1.00	1.00								
Grid D	TB21	4																1.00	1.00	1.00	1.00								
Grid D	TB22	3																1.00	1.00	1.00									
Grid D	TB26	4																1.00	1.00	1.00	1.00								
Grid 4R	BD1	7																					0.50	0.50	0.50	0.50	0.50	0.50	0.50
Grid 8R	BD2	6																					0.50	0.59	2.69		0.50	0.50	0.50
Grid D	BD3	7																					0.50	0.51	0.50	0.50	0.50	0.50	0.50
Grid D	BD4	7																					0.50	0.50	0.50	0.50	0.54	0.50	0.50
Zone 2																													
Grid 11	BH170	9	0.09	0.09	2.70	0.09	1.30	0.09	0.70	0.09	0.09																		
Grid 12	BH172	9	0.09	0.09	2.00	0.09	0.09	0.09	4.00	0.09	0.09																		
Grid 13	BH171	6			0.09	0.09	0.09	0.09	0.09		0.09																		
Grid 14	BH173	7	0.09			0.09	0.09	0.09	0.09	0.09	8.00																		
Grid 15	BH135	0																											
Grid 15	BH136	0																											
Grid 15	BH137	0																											
Grid 15	BH142	0																											
Grid 15	BH143	9	0.77	0.21	0.09	0.09	0.09		0.09	0.09	0.09		0.09																
Grid 15	BH144	0																											
Grid 15	BH145	0																											
Grid 15	BH150	8	0.09	0.65	0.09			0.09	0.09	0.09	0.42	0.09																	
Grid 16	BH146	7	0.09	0.09	0.09	0.09	0.09	0.09		7.60																			
Grid 16	BH147	8	0.09	0.09		0.94	3.30	44.00	1.50	1.30	0.18																		
Grid 16	BH148	6	0.27			0.30	1.00	0.48	0.88		0.09																		
Grid 16	BH149	8	0.25	0.66	0.22	0.20	1.60	3.10	9.50	0.23																			
Grid 16	BH177	6		1.10			0.09	0.25	0.09	2.80	3.40																		
Grid 26	BH42	0																											
Grid 26	BH44	0																											
Grid 26	BH154	3	0.09	0.09		0.09																							
Grid 27	BH153	0																											
Grid 27	BH156	9	1.00	0.09	0.09	0.09	3.30	0.09	0.09	0.09	0.09																		
Grid 28	BH158	9	0.09	0.09	1.00	0.09	0.09	2.00	0.09	0.09	0.09																		
Grid 33R	BH155	5	2.20	0.09	0.09	0.09	0.09																						
Grid 34	BH157	5	0.09	1.00	2.00	0.09	0.09																						
Grid 34	BH174	0																											
Grid 34	BH175	0																											
Grid 34	BH176	0																											
Grid 35	BH159	5	0.09	0.09	0.09	0.09	0.09																						
Grid 27	TB14	3																1.00	1.00	1.00									
Grid 27	TB24	4																1.00	1.00	1.00	1.00								
Zone 1B+1C																													
Grid 17	BH126	0																											
Grid 17	BH128	0																											
Grid 17	BH129	0																											
Grid 17	BH130	0																											
Grid 17	BH131	0																											
Grid 17	BH132	0																											
Grid 17	BH134	7		0.09	0.93	0.99		26.00	0.09	0.09	0.09																		
Grid 17	BH139	0																											
Grid 18	BH116	0																											
Grid 18	BH117	0																											
Grid 18	BH118	0																											
Grid 18	BH119	0																											
Grid 18	BH120	0																											
Grid 18	BH121	0																											
Grid 18	BH122	0																											
Grid 18	BH123	0																											
Grid 18	BH124	0																											
Grid 18	BH125	6	0.09	0.09	0.09	0.09					0.81	0.47																	
Grid 19	BH179	5		2.90		0.28	0.31	1.10	0.30																				
Grid 20	BH108	6	0.09	0.09	0.09	0.09		0.09		0.09																			
Grid 20	BH109	6	1.10	0.61	0.09			0.60	0.09		0.30																		
Grid 20	BH110	7	0.09	0.09	0.09	0.88	0.09			0.27	0.09																		
Grid 20	BH111	3	1.20		0.09						0.09																		
Grid 20	BH112	8	0.09	0.09	0.09	0.09	0.22	0.71	0.40		9.10																		
Grid 20	BH113	0																											
Grid 20	BH114	7	0.09	0.47	0.09	0.09	5.20	0.09	0.09																				
Grid 20	BH115	8	0.09	0.09	0.09	0.09	0.09		0.09	0.64	0.09																		
Grid 21	BH178	7	0.31	0.09	0.09	0.32		0.25	0.09	0.09																			
Grid 22	BH151	9	0.37	0.25		38.00	0.46	0.09	0.34	0.09	0.09	0.09																	
Grid C	BH133	8	0.21	14.00	1.10		0.09		0.09	0.32	0.09	0.09																	
Grid 15	TB16	3																1.00	1.00	1.00									
Grid 15	TB30	3																1.00	1.00	1.00									
Grid 16	TB15	3																5.00	1.00	1.00									
Grid 17	TB17	3																1.00	1.00	1.00									
Grid 17	TB19	3																1.00	1.00	1.00									
Grid 18	TB18	3																1.00	1.00	1.00									
Grid 18	TB29	5																1.00	1.00	1.00	1.00	1.00							
Grid 20	TB20	3																9.00	160.00	1.00									

	Zone	1A+3	1B+1C	2
Average Concentrations (mg/kg)		0.51	2.77	1.05

Benzo(k)fluoranthene

Grid	Depth (m)	Counter	0.5	1.5	3	4.5	6	7.5	9	10.5	12	13.5	15	16.5	18	19.5	21	D1	D2	D3	D4	D5	0.0M-0.5M	0.5M-1.5M	1.5M-3.0M	3.0M-4.5M	4.5M-6.0M	6.0M-7.5M	7.5M-9.0M
Zone 1A+3																													
Grid 1	BH82	5	0.09	0.09						0.09	0.09	0.09																	
Grid 1	BH83	0																											
Grid 1	BH85	13	0.09	0.09		0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09		0.09												
Grid 1	BH86	0																											
Grid 2	BH88	9			0.09			0.09	0.31	0.09	0.09	0.09	0.09	0.09	0.09														
Grid 2	BH91	0																											
Grid 2	BH92	0																											
Grid 2	BH93	0																											
Grid 2	BH94	0																											
Grid 2	BH95	0																											
Grid 2	BH97	0																											
Grid 2	BH99	9	0.09	0.09	0.09	0.09		0.09	0.09	0.09	0.09		0.09																
Grid 3R	BH8	5	0.69	0.33	0.09	0.09		0.09																					
Grid 3R	BH96	0																											
Grid 4R	BH1	0																											
Grid 4R	BH3	0																											
Grid 4R	BH5	0																											
Grid 4R	BH7	0																											
Grid 4R	BH9	3	0.09	0.09	0.09																								
Grid 4R	BH10a	5	3.60	0.09	1.70	0.09	0.09																						
Grid 5	BH65	0																											
Grid 5	BH69	0																											
Grid 5	BH70	0																											
Grid 5	BH71	0																											
Grid 5	BH72	0																											
Grid 5	BH73	0																											
Grid 5	BH74	0																											
Grid 5	BH76	0																											
Grid 5	BH77	0																											
Grid 5	BH78	6		0.09	0.09				0.23	0.17	0.09	0.09																	
Grid 5	BH79	0																											
Grid 5	BH84	0																											
Grid 6	BH53	0																											
Grid 6	BH55	0																											
Grid 6	BH56	0																											
Grid 6	BH57	0																											
Grid 6	BH58	0																											
Grid 6	BH59	0																											
Grid 6	BH61	10		0.09	0.09	0.09	0.09		0.09	0.27	0.09	0.09	0.09	0.09															
Grid 6	BH75	7		0.09		0.09	0.09		0.09	0.09	0.09		0.09																
Grid 6	BH81	9	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09																		
Grid 6	BH89	0																											
Grid 6	BH90	9	0.09	0.09		0.09	0.09	0.09	0.09	0.09	0.09	0.09																	
Grid 6	BH100	0																											
Grid 7R	BH31	0																											
Grid 7R	BH32	1							0.09																				
Grid 7R	BH33	0																											
Grid 7R	BH37	0																											
Grid 8R	BH10	1				0.09																							
Grid 8R	BH11	3	0.09	0.09	0.09																								
Grid 8R	BH15	2		0.09	0.09																								
Grid 8R	BH16	0																											
Grid 8R	BH30	0																											
Grid 9	BH54	0																											
Grid 9	BH62	0																											
Grid 9	BH63	0																											
Grid 9	BH64	0																											
Grid 9	BH66	0																											
Grid 9	BH68	9		0.09	0.09		0.09	0.09	0.09	0.09	0.09	0.09	0.09																
Grid 10	BH47	0																											
Grid 10	BH48	0																											
Grid 10	BH49	6	0.23		0.09		0.09	0.09		0.09	0.09																		
Grid 10	BH50	0																											
Grid 10	BH51	0																											
Grid 10	BH52	0																											
Grid 26	BH38	0																											
Grid 26	BH40	0																											
Grid 26	BH41	0																											
Grid 26	BH46	0																											
Grid 33R	BH36	0																											
Grid AR	BH39	0																											
Grid AR	BH43	0																											
Grid AR	BH45	0																											
Grid D	BH22	0																											
Grid D	BH27	0																											
Grid D	BH27a	6	0.09	0.09	0.09	0.09	0.17	0.09																					
Grid D	BH24	0																											
Grid D	BH25	1					0.09																						
Grid D	BH34	0																											
Grid 1	TB10	0																											
Grid 1	TB10A	0																											
Grid 2	TB5	0																											
Grid 2	TB7	0																											
Grid 2	TB9	0																											
Grid 4R	TB23	0																											
Grid 5	TB11	0																											
Grid 5	TB28	0																											
Grid 6	TB4	0																											
Grid 6	TB6	0																											
Grid 6	TB8	0																											

Grid 8R	TB27	0																										
Grid 9	TB13	0																										
Grid 10	TB3	0																										
Grid 10	TB12	0																										
Grid 26	TB2	0																										
Grid D	TB1	0																										
Grid D	TB21	0																										
Grid D	TB22	0																										
Grid D	TB26	0																										
Grid 4R	BD1	7																			0.50	0.50	0.50	0.50	0.50	0.50	0.50	
Grid 8R	BD2	6																			0.50	0.50	0.84		0.50	0.50	0.50	
Grid D	BD3	7																			0.50	0.50	0.50	0.50	0.50	0.50	0.50	
Grid D	BD4	7																			0.50	0.50	0.50	0.50	0.50	0.50	0.50	
Zone 2																												
Grid 11	BH170	6	0.09	0.09		0.09		0.09		0.09	0.09																	
Grid 12	BH172	7	0.09	0.09		0.09	0.09	0.09		0.09	0.09																	
Grid 13	BH171	6			0.09	0.09	0.09	0.09	0.09		0.09																	
Grid 14	BH173	6	0.09			0.09	0.09	0.09	0.09	0.09																		
Grid 15	BH135	0																										
Grid 15	BH136	0																										
Grid 15	BH137	0																										
Grid 15	BH142	0																										
Grid 15	BH143	9	0.64	0.20	0.09	0.09	0.09		0.09	0.09	0.09		0.09															
Grid 15	BH144	0																										
Grid 15	BH145	0																										
Grid 15	BH150	8	0.09	0.42	0.09			0.09	0.09	0.09	0.25	0.09																
Grid 16	BH146	7	0.09	0.09	0.09	0.09	0.09	0.09		10.00																		
Grid 16	BH147	8	0.09	0.09		0.92	2.10	37.00	2.10	0.99	0.23																	
Grid 16	BH148	6	0.25			0.18	0.42	0.65	1.00		0.09																	
Grid 16	BH149	8	0.22	0.74	0.27	0.25	3.10	7.70	13.00	0.32																		
Grid 16	BH177	6		0.90			0.09	0.30	0.09	2.60	2.60																	
Grid 26	BH42	0																										
Grid 26	BH44	0																										
Grid 26	BH154	3	0.09	0.09		0.09																						
Grid 27	BH153	0																										
Grid 27	BH156	7		0.09	0.09	0.09		0.09	0.09	0.09	0.09																	
Grid 28	BH158	7	0.09	0.09		0.09	0.09		0.09	0.09	0.09																	
Grid 33R	BH155	4		0.09	0.09	0.09	0.09																					
Grid 34	BH157	3	0.09			0.09	0.09																					
Grid 34	BH174	0																										
Grid 34	BH175	0																										
Grid 34	BH176	0																										
Grid 35	BH159	5	0.09	0.09	0.09	0.09	0.09																					
Grid 27	TB14	0																										
Grid 27	TB24	0																										
Zone 1B+1C																												
Grid 17	BH126	0																										
Grid 17	BH128	0																										
Grid 17	BH129	0																										
Grid 17	BH130	0																										
Grid 17	BH131	0																										
Grid 17	BH132	0																										
Grid 17	BH134	7		0.09	1.50	0.81		33.00	0.09	0.09	0.09																	
Grid 17	BH139	0																										
Grid 18	BH116	0																										
Grid 18	BH117	0																										
Grid 18	BH118	0																										
Grid 18	BH119	0																										
Grid 18	BH120	0																										
Grid 18	BH121	0																										
Grid 18	BH122	0																										
Grid 18	BH123	0																										
Grid 18	BH124	0																										
Grid 18	BH125	6	0.09	0.17	0.09	0.09					0.57	0.35																
Grid 19	BH179	5		2.80		0.21	0.34	1.20	0.30																			
Grid 20	BH108	6	0.09	0.09	0.09	0.09		0.09		0.09																		
Grid 20	BH109	6	0.84	0.62	0.09			0.71	0.09		0.27																	
Grid 20	BH110	7	0.09	0.09	0.09	0.87	0.09			0.23	0.09																	
Grid 20	BH111	3	0.59		0.09						0.09																	
Grid 20	BH112	8	0.09	0.09	0.09	0.09	0.27	0.64	0.38		10.00																	
Grid 20	BH113	0																										
Grid 20	BH114	7	0.09	0.31	0.09	0.09	4.00	0.09	0.09																			
Grid 20	BH115	8	0.09	0.09	0.09	0.09	0.09		0.09	0.39	0.09																	
Grid 21	BH178	7	0.19	0.09	0.09	0.40		0.24	0.09	0.09																		
Grid 22	BH151	9	0.27	0.09		31.00	0.32	0.09	0.22	0.09	0.09	0.09																
Grid C	BH133	8	0.09	14.00	0.73		0.09		0.09	0.18	0.09	0.09																
Grid 15	TB16	0																										
Grid 15	TB30	0																										
Grid 16	TB15	0																										
Grid 17	TB17	0																										
Grid 17	TB19	0																										
Grid 18	TB18	0																										
Grid 18	TB29	0																										
Grid 20	TB20	0																										

	Zone	1A+3	1B+1C	2
Average Concentrations (mg/kg)		0.21	1.31	0.91

Dibenzo(a,h)anthracene

Grid	Depth (m)	Counter	0.5	1.5	3	4.5	6	7.5	9	10.5	12	13.5	15	16.5	18	19.5	21	D1	D2	D3	D4	D5	0.0M-0.5M	0.5M-1.5M	1.5M-3.0M	3.0M-4.5M	4.5M-6.0M	6.0M-7.5M	7.5M-9.0M
Zone 1A+3																													
Grid 1	BH82	5	0.09	0.09						0.09	0.09	0.09																	
Grid 1	BH83	0																											
Grid 1	BH85	13	0.09	0.09		0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09		0.09												
Grid 1	BH86	0																											
Grid 2	BH88	9			0.09			0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09														
Grid 2	BH91	0																											
Grid 2	BH92	0																											
Grid 2	BH93	0																											
Grid 2	BH94	0																											
Grid 2	BH95	0																											
Grid 2	BH97	0																											
Grid 2	BH99	9	0.09	0.09	0.09	0.09		0.09	0.09	0.09	0.09		0.09																
Grid 3R	BH8	5	0.09	0.09	0.09	0.09		0.09																					
Grid 3R	BH96	0																											
Grid 4R	BH1	0																											
Grid 4R	BH3	0																											
Grid 4R	BH5	0																											
Grid 4R	BH7	0																											
Grid 4R	BH9	4	0.09	0.09	0.09	0.09																							
Grid 4R	BH10a	5	1.30	0.09	0.24	0.09	0.09																						
Grid 5	BH65	0																											
Grid 5	BH69	0																											
Grid 5	BH70	0																											
Grid 5	BH71	0																											
Grid 5	BH72	0																											
Grid 5	BH73	0																											
Grid 5	BH74	0																											
Grid 5	BH76	0																											
Grid 5	BH77	0																											
Grid 5	BH78	6		0.09	0.09				0.09	0.09	0.09	0.09																	
Grid 5	BH79	0																											
Grid 5	BH84	0																											
Grid 6	BH53	0																											
Grid 6	BH55	0																											
Grid 6	BH56	0																											
Grid 6	BH57	0																											
Grid 6	BH58	0																											
Grid 6	BH59	0																											
Grid 6	BH61	10		0.09	0.09	0.09	0.09		0.09	0.09	0.09	0.09	0.09	0.09															
Grid 6	BH75	7		0.09		0.09	0.09		0.09	0.09	0.09		0.09																
Grid 6	BH81	9	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09																		
Grid 6	BH89	0																											
Grid 6	BH90	9	0.09	0.09		0.09	0.09	0.09	0.09	0.09	0.09	0.09																	
Grid 6	BH100	0																											
Grid 7R	BH31	0																											
Grid 7R	BH32	1							0.09																				
Grid 7R	BH33	0																											
Grid 7R	BH37	0																											
Grid 8R	BH10	1				0.09																							
Grid 8R	BH11	4	0.09	0.09	0.09	0.09																							
Grid 8R	BH15	4	0.09	0.09	0.09	0.09																							
Grid 8R	BH16	0																											
Grid 8R	BH30	0																											
Grid 9	BH54	0																											
Grid 9	BH62	0																											
Grid 9	BH63	0																											
Grid 9	BH64	0																											
Grid 9	BH66	0																											
Grid 9	BH68	9		0.09	0.09		0.09	0.09	0.09	0.09	0.09	0.09	0.09																
Grid 10	BH47	0																											
Grid 10	BH48	0																											
Grid 10	BH49	6	0.09		0.09		0.09	0.09		0.09	0.09																		
Grid 10	BH50	0																											
Grid 10	BH51	0																											
Grid 10	BH52	0																											
Grid 26	BH38	0																											
Grid 26	BH40	0																											
Grid 26	BH41	0																											
Grid 26	BH46	0																											
Grid 33R	BH36	0																											
Grid AR	BH39	0																											
Grid AR	BH43	0																											
Grid AR	BH45	0																											
Grid D	BH22	0																											
Grid D	BH27	0																											
Grid D	BH27a	6	0.09	0.09	0.09	0.09	0.09	0.09																					
Grid D	BH24	0																											
Grid D	BH25	1					0.09																						
Grid D	BH34	0																											
Grid 1	TB10	3																0.50	0.50	0.50									
Grid 1	TB10A	2																	0.50	0.50									
Grid 2	TB5	3																0.50	0.50	0.50									
Grid 2	TB7	3																0.50	0.50	0.50									
Grid 2	TB9	3																0.50	0.50	0.50									
Grid 4R	TB23	3																0.50	0.50	0.50									
Grid 5	TB11	3																0.50	0.50	0.50									
Grid 5	TB28	3																0.50	0.50	0.50									
Grid 6	TB4	3																0.50	0.50	0.50									
Grid 6	TB6	3																0.50	0.50	0.50									
Grid 6	TB8	3																0.50	0.50	0.50									

Grid 8R	TB27	3																0.50	0.50	0.50									
Grid 9	TB13	3																0.50	0.50	0.50									
Grid 10	TB3	2																	0.50	0.50									
Grid 10	TB12	3																0.50	0.50	0.50									
Grid 26	TB2	3																0.50	0.50	0.50									
Grid D	TB1	4																0.50	0.50	0.50	0.50								
Grid D	TB21	4																0.50	0.50	0.50	0.50								
Grid D	TB22	3																0.50	0.50	0.50									
Grid D	TB26	4																0.50	0.50	0.50	0.50								
Grid 4R	BD1	7																					0.50	0.50	0.50	0.50	0.50	0.50	0.50
Grid 8R	BD2	6																					0.50	0.50	0.50		0.50	0.50	0.50
Grid D	BD3	7																					0.50	0.50	0.50	0.50	0.50	0.50	0.50
Grid D	BD4	7																					0.50	0.50	0.50	0.50	0.50	0.50	0.50
Zone 2																													
Grid 11	BH170	9	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09																		
Grid 12	BH172	9	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09																		
Grid 13	BH171	6			0.09	0.09	0.09	0.09		0.09																			
Grid 14	BH173	7	0.09			0.09	0.09	0.09	0.09	0.09	0.60																		
Grid 15	BH135	0																											
Grid 15	BH136	0																											
Grid 15	BH137	0																											
Grid 15	BH142	0																											
Grid 15	BH143	9	0.21	0.09	0.09	0.09	0.09		0.09	0.09	0.09		0.09																
Grid 15	BH144	0																											
Grid 15	BH145	0																											
Grid 15	BH150	8	0.09	0.09	0.09			0.09	0.09	0.09	0.09	0.09																	
Grid 16	BH146	7	0.09	0.09	0.09	0.09	0.09	0.09		3.00																			
Grid 16	BH147	8	0.09	0.09		0.09	0.41	12.00	0.26	0.36	0.09																		
Grid 16	BH148	6	0.09			0.09	0.09	0.09	0.09		0.09																		
Grid 16	BH149	8	0.09	0.18	0.09	0.09	0.49	2.00	4.90	0.09																			
Grid 16	BH177	6		0.24			0.09	0.09	0.09	0.73	0.82																		
Grid 26	BH42	0																											
Grid 26	BH44	0																											
Grid 26	BH154	3	0.09	0.09		0.09																							
Grid 27	BH153	0																											
Grid 27	BH156	9	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09																		
Grid 28	BH158	9	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09																		
Grid 33R	BH155	5	0.09	0.09	0.09	0.09	0.09																						
Grid 34	BH157	5	0.09	0.09	0.09	0.09	0.09																						
Grid 34	BH174	0																											
Grid 34	BH175	0																											
Grid 34	BH176	0																											
Grid 35	BH159	5	0.09	0.09	0.09	0.09	0.09																						
Grid 27	TB14	3																0.50	0.50	0.50									
Grid 27	TB24	4																0.50	0.50	0.50	0.50								
Zone 1B+1C																													
Grid 17	BH126	0																											
Grid 17	BH128	0																											
Grid 17	BH129	0																											
Grid 17	BH130	0																											
Grid 17	BH131	0																											
Grid 17	BH132	0																											
Grid 17	BH134	7		0.09	0.35	0.28		7.10	0.09	0.09	0.09																		
Grid 17	BH139	0																											
Grid 18	BH116	0																											
Grid 18	BH117	0																											
Grid 18	BH118	0																											
Grid 18	BH119	0																											
Grid 18	BH120	0																											
Grid 18	BH121	0																											
Grid 18	BH122	0																											
Grid 18	BH123	0																											
Grid 18	BH124	0																											
Grid 18	BH125	6	0.09	0.09	0.09	0.09					0.09	0.09																	
Grid 19	BH179	5		1.60		0.09	0.09	0.44	0.09																				
Grid 20	BH108	6	0.09	0.19	0.09	0.09		0.09		0.09																			
Grid 20	BH109	6	0.81	0.09	0.09			0.09	0.09		0.09																		
Grid 20	BH110	7	0.09	0.09	0.09	0.09	0.09			0.09	0.09																		
Grid 20	BH111	3	0.23		0.09						0.09																		
Grid 20	BH112	8	0.09	0.09	0.09	0.09	0.09	0.09	0.09		2.90																		
Grid 20	BH113	0																											
Grid 20	BH114	7	0.09	0.09	0.09	0.09	1.30	0.09	0.09																				
Grid 20	BH115	8	0.09	0.09	0.09	0.09	0.09		0.09	0.21	0.09																		
Grid 21	BH178	7	0.09	0.09	0.09	0.09		0.09	0.09	0.09																			
Grid 22	BH151	9	0.09	0.09		9.60	0.09	0.09	0.09	0.09	0.09	0.09																	
Grid C	BH133	8	0.09	5.40	0.29		0.09		0.09	0.09	0.09	0.09																	
Grid 15	TB16	3																0.50	0.50	0.50									
Grid 15	TB30	3																0.50	0.50	0.50									
Grid 16	TB15	3																0.60	0.50	0.50									
Grid 17	TB17	3																0.50	0.50	0.50									
Grid 17	TB19	3																0.50	0.50	0.50									
Grid 18	TB18	3																0.50	0.50	0.50									
Grid 18	TB29	5																0.50	0.50	0.50	0.50	0.50							
Grid 20	TB20	3																2.90	1.00	0.50									

Zone	1A+3	1B+1C	2
Average Concentrations (mg/kg)	0.27	0.47	0.31

Indeno(1,2,3-cd)pyrene

Grid	Depth (m)	Counter	0.5	1.5	3	4.5	6	7.5	9	10.5	12	13.5	15	16.5	18	19.5	21	D1	D2	D3	D4	D5	0.0M-0.5M	0.5M-1.5M	1.5M-3.0M	3.0M-4.5M	4.5M-6.0M	6.0M-7.5M	7.5M-9.0M
Zone 1A+3																													
Grid 1	BH82	5	0.09	0.09						0.09	0.09	0.09																	
Grid 1	BH83	0																											
Grid 1	BH85	13	0.09	0.09		0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09		0.09												
Grid 1	BH86	0																											
Grid 2	BH88	9			0.09			0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09														
Grid 2	BH91	0																											
Grid 2	BH92	0																											
Grid 2	BH93	0																											
Grid 2	BH94	0																											
Grid 2	BH95	0																											
Grid 2	BH97	0																											
Grid 2	BH99	9	0.09	0.09	0.09	0.09		0.09	0.09	0.09	0.09		0.09																
Grid 3R	BH8	5	0.09	0.12	0.09	0.09		0.09																					
Grid 3R	BH96	0																											
Grid 4R	BH1	0																											
Grid 4R	BH3	0																											
Grid 4R	BH5	0																											
Grid 4R	BH7	0																											
Grid 4R	BH9	4	0.09	0.09	0.09	1.00																							
Grid 4R	BH10a	5	2.00	0.09	0.59	0.09	0.09																						
Grid 5	BH65	0																											
Grid 5	BH69	0																											
Grid 5	BH70	0																											
Grid 5	BH71	0																											
Grid 5	BH72	0																											
Grid 5	BH73	0																											
Grid 5	BH74	0																											
Grid 5	BH76	0																											
Grid 5	BH77	0																											
Grid 5	BH78	6		0.09	0.09				0.09	0.09	0.09	0.09																	
Grid 5	BH79	0																											
Grid 5	BH84	0																											
Grid 6	BH53	0																											
Grid 6	BH55	0																											
Grid 6	BH56	0																											
Grid 6	BH57	0																											
Grid 6	BH58	0																											
Grid 6	BH59	0																											
Grid 6	BH61	10		0.09	0.09	0.09	0.09		0.09	0.09	0.09	0.09	0.09	0.09															
Grid 6	BH75	7		0.09		0.09	0.09		0.09	0.09	0.09		0.09																
Grid 6	BH81	9	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09																		
Grid 6	BH89	0																											
Grid 6	BH90	9	0.09	0.09		0.09	0.09	0.09	0.09	0.09	0.09	0.09																	
Grid 6	BH100	0																											
Grid 7R	BH31	0																											
Grid 7R	BH32	1							0.09																				
Grid 7R	BH33	0																											
Grid 7R	BH37	0																											
Grid 8R	BH10	1				0.09																							
Grid 8R	BH11	4	0.09	0.09	0.09	1.70																							
Grid 8R	BH15	4	0.80	0.09	0.60	1.10																							
Grid 8R	BH16	0																											
Grid 8R	BH30	0																											
Grid 9	BH54	0																											
Grid 9	BH62	0																											
Grid 9	BH63	0																											
Grid 9	BH64	0																											
Grid 9	BH66	0																											
Grid 9	BH68	9		0.09	0.09		0.09	0.09	0.09	0.09	0.09	0.09	0.09																
Grid 10	BH47	0																											
Grid 10	BH48	0																											
Grid 10	BH49	6	0.19		0.09		0.09	0.09		0.09	0.09																		
Grid 10	BH50	0																											
Grid 10	BH51	0																											
Grid 10	BH52	0																											
Grid 26	BH38	0																											
Grid 26	BH40	0																											
Grid 26	BH41	0																											
Grid 26	BH46	0																											
Grid 33R	BH36	0																											
Grid AR	BH39	0																											
Grid AR	BH43	0																											
Grid AR	BH45	0																											
Grid D	BH22	0																											
Grid D	BH27	0																											
Grid D	BH27a	6	0.09	0.09	0.09	0.09	0.09	0.09																					
Grid D	BH24	0																											
Grid D	BH25	1					0.09																						
Grid D	BH34	0																											
Grid 1	TB10	3																0.50	0.50	0.50									
Grid 1	TB10A	2																	0.50	0.50									
Grid 2	TB5	3																0.50	0.50	0.50									
Grid 2	TB7	3																0.50	0.50	0.50									
Grid 2	TB9	3																0.50	1.00	0.50									
Grid 4R	TB23	3																0.50	0.50	0.50									
Grid 5	TB11	3																0.50	0.50	0.50									
Grid 5	TB28	3																0.50	0.50	0.50									
Grid 6	TB4	3																0.50	0.50	0.50									
Grid 6	TB6	3																0.50	0.50	0.50									
Grid 6	TB8	3																0.50	0.50	1.20									

Grid 8R	TB27	3																0.50	0.50	1.40									
Grid 9	TB13	3																0.50	0.50	0.50									
Grid 10	TB3	2																	0.50	0.50									
Grid 10	TB12	3																0.50	0.50	0.50									
Grid 26	TB2	3																0.60	0.50	0.50									
Grid D	TB1	4																0.50	0.90	0.50	0.50								
Grid D	TB21	4																0.50	0.50	0.50	0.50								
Grid D	TB22	3																0.50	0.50	0.50									
Grid D	TB26	4																0.60	0.50	0.50	0.50								
Grid 4R	BD1	7																					0.50	0.50	0.50	0.50	0.50	0.50	0.50
Grid 8R	BD2	6																					0.50	0.50	1.72		0.50	0.50	0.50
Grid D	BD3	7																					0.50	0.50	0.50	0.50	0.50	0.50	0.50
Grid D	BD4	7																					0.50	0.50	0.50	0.50	0.50	0.50	0.50
Zone 2																													
Grid 11	BH170	9	0.09	0.09	1.40	0.09	0.60	0.09	0.09	0.09	0.09																		
Grid 12	BH172	9	0.09	0.09	1.30	0.50	0.09	0.60	1.70	0.09	0.09																		
Grid 13	BH171	6			0.09	0.09	0.09	0.09	0.09		0.09																		
Grid 14	BH173	7	0.09			0.09	0.09	0.09	0.09	0.09	2.20																		
Grid 15	BH135	0																											
Grid 15	BH136	0																											
Grid 15	BH137	0																											
Grid 15	BH142	0																											
Grid 15	BH143	9	0.37	0.09	0.09	0.09	0.09		0.09	0.09	0.09		0.09																
Grid 15	BH144	0																											
Grid 15	BH145	0																											
Grid 15	BH150	8	0.09	0.57	0.09			0.09	0.09	0.09	0.38	0.09																	
Grid 16	BH146	7	0.09	0.09	0.09	0.09	0.09	0.09		6.20																			
Grid 16	BH147	8	0.09	0.09		0.09	0.55	11.00	0.54	0.51	0.09																		
Grid 16	BH148	6	0.09			0.09	0.23	0.09	0.17		0.09																		
Grid 16	BH149	8	0.09	0.34	0.09	0.09	0.86	2.90	9.50	0.09																			
Grid 16	BH177	6		0.63			0.09	0.19	0.09	2.10	2.10																		
Grid 26	BH42	0																											
Grid 26	BH44	0																											
Grid 26	BH154	3	0.09	0.09		0.09																							
Grid 27	BH153	0																											
Grid 27	BH156	9	0.80	0.09	0.09	0.09	1.30	0.09	0.09	0.09	0.09																		
Grid 28	BH158	9	0.09	0.09	0.70	0.09	0.09	1.00	0.09	0.09	0.09																		
Grid 33R	BH155	5	1.10	0.09	0.09	0.09	0.09																						
Grid 34	BH157	5	0.09	0.60	0.80	0.09	0.09																						
Grid 34	BH174	0																											
Grid 34	BH175	0																											
Grid 34	BH176	0																											
Grid 35	BH159	5	0.09	0.09	0.09	0.09	0.09																						
Grid 27	TB14	3																0.50	0.50	0.50									
Grid 27	TB24	4																0.50	0.50	0.60	0.50								
Zone 1B+1C																													
Grid 17	BH126	0																											
Grid 17	BH128	0																											
Grid 17	BH129	0																											
Grid 17	BH130	0																											
Grid 17	BH131	0																											
Grid 17	BH132	0																											
Grid 17	BH134	7		0.09	0.55	0.50		9.60	0.09	0.09	0.09																		
Grid 17	BH139	0																											
Grid 18	BH116	0																											
Grid 18	BH117	0																											
Grid 18	BH118	0																											
Grid 18	BH119	0																											
Grid 18	BH120	0																											
Grid 18	BH121	0																											
Grid 18	BH122	0																											
Grid 18	BH123	0																											
Grid 18	BH124	0																											
Grid 18	BH125	6	0.09	0.09	0.09	0.09					0.19	0.09																	
Grid 19	BH179	5		2.80		0.09	0.12	0.65	0.09																				
Grid 20	BH108	6	0.09	0.09	0.09	0.09		0.09		0.09																			
Grid 20	BH109	6	1.00	0.09	0.09			0.09	0.09		0.09																		
Grid 20	BH110	7	0.09	0.09	0.09	0.34	0.09			0.09	0.09																		
Grid 20	BH111	3	0.32		0.09						0.09																		
Grid 20	BH112	8	0.09	0.09	0.09	0.09	0.09	0.39	0.25		2.90																		
Grid 20	BH113	0																											
Grid 20	BH114	7	0.09	0.41	0.09	0.09	3.70	0.09	0.09																				
Grid 20	BH115	8	0.09	0.09	0.09	0.09	0.09		0.09	0.56	0.09																		
Grid 21	BH178	7	0.09	0.09	0.09	0.09		0.09	0.09	0.09																			
Grid 22	BH151	9	0.33	0.23		32.00	0.58	0.09	0.46	0.19	0.09	0.09																	
Grid C	BH133	8	0.21	16.00	0.98		0.09		0.09	0.27	0.09	0.09																	
Grid 15	TB16	3																0.50	0.50	0.50									
Grid 15	TB30	3																0.50	0.50	0.50									
Grid 16	TB15	3																3.40	0.50	0.50									
Grid 17	TB17	3																0.50	0.60	0.50									
Grid 17	TB19	3																0.50	0.70	0.50									
Grid 18	TB18	3																0.50	0.50	0.50									
Grid 18	TB29	5																0.50	0.50	0.50	0.50	0.80							
Grid 20	TB20	3																5.40	4.50	0.50									

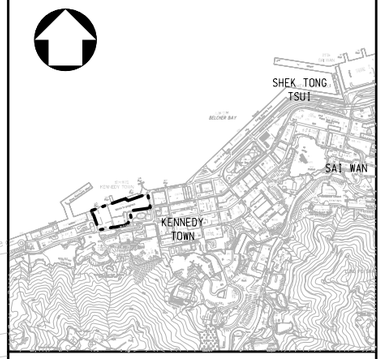
	Zone	1A+3	1B+1C	2
Average Concentrations (mg/kg)		0.31	0.94	0.52

Benzo(g,h,i)perylene

Grid	Depth (m)	Counter	0.5	1.5	3	4.5	6	7.5	9	10.5	12	13.5	15	16.5	18	19.5	21	D1	D2	D3	D4	D5	0.0M-0.5M	0.5M-1.5M	1.5M-3.0M	3.0M-4.5M	4.5M-6.0M	6.0M-7.5M	7.5M-9.0M
Zone 1A+3																													
Grid 1	BH82	5	0.09	0.09						0.09	0.09	0.09																	
Grid 1	BH83	0																											
Grid 1	BH85	13	0.09	0.09		0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09		0.09												
Grid 1	BH86	0																											
Grid 2	BH88	9			0.09			0.09	0.19	0.09	0.09	0.09	0.09	0.09	0.09														
Grid 2	BH91	0																											
Grid 2	BH92	0																											
Grid 2	BH93	0																											
Grid 2	BH94	0																											
Grid 2	BH95	0																											
Grid 2	BH97	0																											
Grid 2	BH99	9	0.09	0.09	0.09	0.09		0.09	0.09	0.09	0.09		0.09																
Grid 3R	BH8	5	0.53	0.26	0.09	0.09		0.09																					
Grid 3R	BH96	0																											
Grid 4R	BH1	0																											
Grid 4R	BH3	0																											
Grid 4R	BH5	0																											
Grid 4R	BH7	0																											
Grid 4R	BH9	4	0.09	0.09	0.09	1.00																							
Grid 4R	BH10a	5	3.10	0.09	1.20	0.09	0.09																						
Grid 5	BH65	0																											
Grid 5	BH69	0																											
Grid 5	BH70	0																											
Grid 5	BH71	0																											
Grid 5	BH72	0																											
Grid 5	BH73	0																											
Grid 5	BH74	0																											
Grid 5	BH76	0																											
Grid 5	BH77	0																											
Grid 5	BH78	6		0.09	0.09				0.09	0.19	0.09	0.09																	
Grid 5	BH79	0																											
Grid 5	BH84	0																											
Grid 6	BH53	0																											
Grid 6	BH55	0																											
Grid 6	BH56	0																											
Grid 6	BH57	0																											
Grid 6	BH58	0																											
Grid 6	BH59	0																											
Grid 6	BH61	10		0.09	0.09	0.21	0.09		0.09	0.25	0.09	0.09	0.09	0.09															
Grid 6	BH75	7		0.09		0.09	0.09		0.09	0.09	0.09		0.09																
Grid 6	BH81	9	0.20	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09																		
Grid 6	BH89	0																											
Grid 6	BH90	9	0.09	0.09		0.09	0.09	0.09	0.09	0.09	0.09	0.09																	
Grid 6	BH100	0																											
Grid 7R	BH31	0																											
Grid 7R	BH32	1							0.09																				
Grid 7R	BH33	0																											
Grid 7R	BH37	0																											
Grid 8R	BH10	1				0.09																							
Grid 8R	BH11	4	0.09	0.09	0.09	1.40																							
Grid 8R	BH15	4	0.09	0.09	0.09	0.80																							
Grid 8R	BH16	0																											
Grid 8R	BH30	0																											
Grid 9	BH54	0																											
Grid 9	BH62	0																											
Grid 9	BH63	0																											
Grid 9	BH64	0																											
Grid 9	BH66	0																											
Grid 9	BH68	9		0.09	0.09		0.09	0.09	0.09	0.09	0.09	0.09	0.09																
Grid 10	BH47	0																											
Grid 10	BH48	0																											
Grid 10	BH49	6	0.41		0.09		0.09	0.18		0.09	0.09																		
Grid 10	BH50	0																											
Grid 10	BH51	0																											
Grid 10	BH52	0																											
Grid 26	BH38	0																											
Grid 26	BH40	0																											
Grid 26	BH41	0																											
Grid 26	BH46	0																											
Grid 33R	BH36	0																											
Grid AR	BH39	0																											
Grid AR	BH43	0																											
Grid AR	BH45	0																											
Grid D	BH22	0																											
Grid D	BH27	0																											
Grid D	BH27a	6	0.09	0.09	0.09	0.09	0.19	0.09																					
Grid D	BH24	0																											
Grid D	BH25	1					0.09																						
Grid D	BH34	0																											
Grid 1	TB10	3																0.50	0.50	0.50									
Grid 1	TB10A	2																	0.50	0.50									
Grid 2	TB5	3																0.50	0.50	0.50									
Grid 2	TB7	3																0.50	0.50	0.50									
Grid 2	TB9	3																0.50	0.80	0.50									
Grid 4R	TB23	3																0.50	0.50	0.50									
Grid 5	TB11	3																0.50	0.50	0.50									
Grid 5	TB28	3																0.50	0.50	0.50									
Grid 6	TB4	3																0.50	0.50	0.50									
Grid 6	TB6	3																0.50	0.50	0.50									
Grid 6	TB8	3																0.50	0.50	1.10									

Grid 8R	TB27	3																0.50	0.50	1.40									
Grid 9	TB13	3																0.50	0.50	0.50									
Grid 10	TB3	2																	0.50	0.50									
Grid 10	TB12	3																0.50	0.50	0.50									
Grid 26	TB2	3																0.50	0.50	0.50									
Grid D	TB1	4																0.50	0.70	0.50	0.50								
Grid D	TB21	4																0.50	0.50	0.50	0.50								
Grid D	TB22	3																0.50	0.50	0.50									
Grid D	TB26	4																0.50	0.50	0.50	0.50								
Grid 4R	BD1	7																					0.50	0.50	0.50	0.50	0.50	0.50	0.50
Grid 8R	BD2	6																					0.50	0.50	1.74		0.50	0.50	0.50
Grid D	BD3	7																					0.50	0.50	0.50	0.50	0.50	0.50	0.50
Grid D	BD4	7																					0.50	0.50	0.50	0.50	0.50	0.50	0.50
Zone 2																													
Grid 11	BH170	9	0.09	0.09	1.30	0.09	0.60	0.09	0.09	0.09	0.09																		
Grid 12	BH172	9	0.09	0.09	1.10	0.09	0.09	0.09	1.20	0.09	0.09																		
Grid 13	BH171	6			0.09	0.09	0.09	0.09	0.09		0.09																		
Grid 14	BH173	7	0.09			0.09	0.09	0.09	0.09	0.09	1.70																		
Grid 15	BH135	0																											
Grid 15	BH136	0																											
Grid 15	BH137	0																											
Grid 15	BH142	0																											
Grid 15	BH143	9	0.57	0.18	0.09	0.09	0.09		0.09	0.09	0.09		0.09																
Grid 15	BH144	0																											
Grid 15	BH145	0																											
Grid 15	BH150	8	0.09	0.63	0.09			0.09	0.09	0.09	0.51	0.18																	
Grid 16	BH146	7	0.09	0.09	0.09	0.09	0.09	0.09		13.00																			
Grid 16	BH147	8	0.09	0.09		0.46	0.09	21.00	0.98	0.89	0.21																		
Grid 16	BH148	6	0.20			0.09	0.46	0.25	0.44		0.09																		
Grid 16	BH149	8	0.21	0.70	0.26	0.22	1.70	5.00	12.00	0.09																			
Grid 16	BH177	6		0.61			0.09	0.24	0.09	2.10	2.20																		
Grid 26	BH42	0																											
Grid 26	BH44	0																											
Grid 26	BH154	3	0.09	0.09		0.09																							
Grid 27	BH153	0																											
Grid 27	BH156	9	0.90	0.09	0.09	0.09	1.10	0.09	0.09	0.09	0.09																		
Grid 28	BH158	9	0.09	0.09	0.70	0.09	0.09	0.90	0.09	0.09	0.09																		
Grid 33R	BH155	5	1.00	0.09	0.09	0.09	0.09																						
Grid 34	BH157	5	0.09	0.60	0.70	0.09	0.09																						
Grid 34	BH174	0																											
Grid 34	BH175	0																											
Grid 34	BH176	0																											
Grid 35	BH159	5	0.09	0.09	0.09	0.09	0.09																						
Grid 27	TB14	3																0.50	0.50	0.50									
Grid 27	TB24	4																0.50	0.50	0.60	0.50								
Zone 1B+1C																													
Grid 17	BH126	0																											
Grid 17	BH128	0																											
Grid 17	BH129	0																											
Grid 17	BH130	0																											
Grid 17	BH131	0																											
Grid 17	BH132	0																											
Grid 17	BH134	7		0.09	1.00	1.00		20.00	0.09	0.09	0.09																		
Grid 17	BH139	0																											
Grid 18	BH116	0																											
Grid 18	BH117	0																											
Grid 18	BH118	0																											
Grid 18	BH119	0																											
Grid 18	BH120	0																											
Grid 18	BH121	0																											
Grid 18	BH122	0																											
Grid 18	BH123	0																											
Grid 18	BH124	0																											
Grid 18	BH125	6	0.09	0.09	0.17	0.09					0.43	0.20																	
Grid 19	BH179	5		5.90		0.24	0.29	1.10	0.21																				
Grid 20	BH108	6	0.09	0.87	0.09	0.09		0.09		0.09																			
Grid 20	BH109	6	2.50	0.30	0.09			0.41	0.09		0.22																		
Grid 20	BH110	7	0.09	0.09	0.09	0.81	0.09			0.21	0.09																		
Grid 20	BH111	3	0.85		0.09						0.09																		
Grid 20	BH112	8	0.09	0.09	0.09	0.09	0.21	0.53	0.36		7.20																		
Grid 20	BH113	0																											
Grid 20	BH114	7	0.09	0.47	0.09	0.09	3.60	0.09	0.09																				
Grid 20	BH115	8	0.09	0.09	0.09	0.09	0.09		0.09	0.58	0.09																		
Grid 21	BH178	7	0.27	0.09	0.09	0.40		0.23	0.09	0.09																			
Grid 22	BH151	9	0.36	0.27		32.00	0.43	0.09	0.40	0.21	0.09	0.09																	
Grid C	BH133	8	0.28	15.00	1.20		0.09		0.09	0.29	0.09	0.09																	
Grid 15	TB16	3																0.50	0.50	0.50									
Grid 15	TB30	3																0.50	0.50	0.50									
Grid 16	TB15	3																2.90	0.50	0.50									
Grid 17	TB17	3																0.50	0.80	0.50									
Grid 17	TB19	3																0.50	0.60	0.50									
Grid 18	TB18	3																0.50	0.50	0.50									
Grid 18	TB29	5																0.50	0.50	0.50	0.50	0.70							
Grid 20	TB20	3																5.50	4.70	0.50									

Zone	1A+3	1B+1C	2
Average Concentrations (mg/kg)	0.32	1.16	0.70



LOCATION PLAN

LEGEND :

———	**PROJECT SITE BOUNDARY**
TB7	SI BOREHOLES OF EIA STUDY
BH66	SI BOREHOLES OF CCI (2003)
BH90/TB8	SI BOREHOLES OF EIA STUDY & SI BOREHOLES OF CCI (2003)
BD1	SI BOREHOLES OF SUPPLEMENTARY EIA STUDY (2013)

Rev	Description	By	Date

Consultant

wsp

Project title

GROUND DECONTAMINATION WORKS AT THE SITE OF EX-KENNEDY TOWN INCINCERATION PLANT/ ABATTOIR AND ADJOINING AREA - DESIGN AND CONSTRUCTION

Drawing title

LOCATION OF BOREHOLES DRILLED DURING SITE INVESTIGATIONS IN 2000, 2003 AND 2013

Drawing no.	Rev.
WSP/CE13/SK/085	–

Drawn	Date	Checked	Approved
CAD	–	–	–

Scale: AS SHOWN (A1) | Status: –

© COPYRIGHT RESERVED

土木工程拓展署
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

0 5 10 15 20 25
METRES
1 : 500

Date : 7/29/2021
Filename : X:\2512199A (CE13-2019-CEDD)\02_Drawing\Sketch\WSP_CE13_SK_085.dgn

APPENDIX 3.7

EMISSION RATES FOR HYDROCARBONS

Hydrocarbons (HC) Emission Calculations (Working Hours) **Reprovisioning Option A - 7.0 Years**

Reference from Appendix 3.5 of Kennedy Town Supplementary EIA (EIA-226/2014)

Zone 1A & 3

										Zone 1A	Zone 3
									Annual Active Area (%)	11.58%	9.47%
Item (#)	**Pollutant**	**Concentration from soil pollutant concentrations (ppm)**	**Molecular Weight**	**VOC concentration (µg/m³) = (Conc (ppm) x MW x 1000) / 24.45**	**Total average Excavation Rate (m³/hr)**	**Emission Rate (µg/s) = Conc x Excav rate / 3600**	**Total Excavation Area (m²)**	**Continuous Emission (g/m²/s) = Emmision rate / (1000 x 1000 x Total Excavation Area)**		**Continuous Annual Emission (g/m²/s) = Emmision rate / (1000 x 1000 x Total Excavation Area) x (Annual Average Acitve Area)**	**Continuous Annual Emission (g/m²/s) = Emmision rate / (1000 x 1000 x Total Excavation Area) x (Annual Average Acitve Area)**
01	Naphthalene	2.747E-01	128.19	1.44E+03	9.13	3.652E+00	9500	3.844E-10		4.451E-11	3.642E-11
02	Phenanthrene	3.377E-01	178.23	2.46E+03	9.13	6.242E+00	9500	6.571E-10		7.608E-11	6.225E-11
03	Anthracene	2.504E-01	178.23	1.83E+03	9.13	4.629E+00	9500	4.872E-10		5.642E-11	4.616E-11
04	Fluoranthene	4.197E-01	202.26	3.47E+03	9.13	8.804E+00	9500	9.268E-10		1.073E-10	8.780E-11
05	Pyrene	4.363E-01	202.26	3.61E+03	9.13	9.152E+00	9500	9.634E-10		1.116E-10	9.127E-11
06	Benzo(a)pyrene	3.631E-01	252.32	3.75E+03	9.13	9.502E+00	9500	1.000E-09		1.158E-10	9.476E-11
07	Benzene	1.550E-01	78.12	4.95E+02	9.13	1.256E+00	9500	1.322E-10		1.531E-11	1.252E-11
08	Toluene	2.056E-01	92.14	7.75E+02	9.13	1.965E+00	9500	2.068E-10		2.395E-11	1.959E-11
09	Ethylbenzene	2.056E-01	106.16	8.93E+02	9.13	2.264E+00	9500	2.383E-10		2.759E-11	2.257E-11
10	Xylenes (Total)	7.056E-01	106.20	3.06E+03	9.13	7.772E+00	9500	8.181E-10		9.473E-11	7.750E-11
11	Acenaphthylene	2.384E-01	152.19	1.48E+03	9.13	3.763E+00	9500	3.961E-10		4.586E-11	3.753E-11
12	Acenaphthene	2.262E-01	154.21	1.43E+03	9.13	3.618E+00	9500	3.808E-10		4.410E-11	3.608E-11
13	Fluorene	2.374E-01	166.22	1.61E+03	9.13	4.093E+00	9500	4.308E-10		4.988E-11	4.081E-11
14	Chrysene	3.175E-01	228.29	2.96E+03	9.13	7.517E+00	9500	7.913E-10		9.163E-11	7.497E-11
15	Benzo(a)anthracene	2.854E-01	228.29	2.66E+03	9.13	6.757E+00	9500	7.113E-10		8.236E-11	6.739E-11
16	Benzo(b)fluoranthene	5.026E-01	252.31	5.19E+03	9.13	1.315E+01	9500	1.384E-09		1.603E-10	1.312E-10
17	Benzo(k)fluoranthene	2.110E-01	252.31	2.18E+03	9.13	5.521E+00	9500	5.812E-10		6.730E-11	5.506E-11
18	Dibenzo(a,h)anthracene	2.646E-01	278.35	3.01E+03	9.13	7.639E+00	9500	8.041E-10		9.310E-11	7.618E-11
19	Indeno(1,2,3-cd)pyrene	3.114E-01	276.33	3.52E+03	9.13	8.925E+00	9500	9.394E-10		1.088E-10	8.900E-11
20	Benzo(g,h,i)perylene	3.153E-01	276.33	3.56E+03	9.13	9.036E+00	9500	9.512E-10		1.101E-10	9.011E-11

Volume of Zone 1A & 3	=	34124	m3	… V[1A&3]		
Excavation Duration on Zone 1A & 1C	=	336	days	… T[1A&1C]		
Excavation Duration on Zone 3	=	273	days	… T[3]	100.8	373.8
Area of Zone 1A	=	0.18	ha	… A[1A]		
Area of Zone 1C	=	0.42	ha	… A[1C]		
Total Average Excavation Rate (m³/hr)	**=**	**V[1A&3]/(((T[1A&1C]*A[1A]/(A[1A]+A[1C]))+T[3])*10 hours per day)**				
	=	**9.13**	**m3/hr**			

Annual Rates:		**For Zone 1A**			
Excavation Duration on Zone 1A & 1C	=	11	Months	… T[1A&1C]	**Annual Active Area (%) = (Excavation Area) / (Total Zone Group Area) * (Maximum Excavation Time) / 12 Months**
Excavation Area	=	1200	m2		= **11.58%**
Total Zone Group Area	=	9500	m2		

Annual Rates:		**For Zone 3**			
Excavation Duration on Zone 3	=	9	Months	… T[3]	**Annual Active Area (%) = (Excavation Area) / (Total Zone Group Area) * (Maximum Excavation Time) / 12 Months**
Excavation Area	=	1200	m2		= **9.47%**
Total Zone Group Area	=	9500	m2		

Hydrocarbons (HC) Emission Calculations (Working Hours) **Reprovisioning Option A - 7.0 Years**

Reference from Appendix 3.5 of Kennedy Town Supplementary EIA (EIA-226/2014)

Zone 1B & 1C

									Annual Active Area (%)	**Zone 1B & 1C** 7.52%
Item (#)	**Pollutant**	**Concentration from soil pollutant concentrations (ppm)**	**Molecular Weight**	**VOC concentration (µg/m³) = (Conc (ppm) x MW x 1000) / 24.45**	**Total average Excavation Rate (m³/hr)**	**Emission Rate (µg/s) = Conc x Excav rate / 3600**	**Total Excavation Area (m²)**	**Continuous Emission (g/m²/s) = Emmision rate / (1000 x 1000 x Total Excavation Area)**		**Continuous Annual Emission (g/m²/s) = Emmision rate / (1000 x 1000 x Total Excavation Area) x (Annual Average Acitve Area)**
01	Naphthalene	1.660E-01	128.19	8.70E+02	12.91	3.120E+00	7900	3.950E-10		2.970E-11
02	Phenanthrene	7.968E-01	178.23	5.81E+03	12.91	2.083E+01	7900	2.636E-09		1.982E-10
03	Anthracene	5.225E-01	178.23	3.81E+03	12.91	1.366E+01	7900	1.729E-09		1.300E-10
04	Fluoranthene	2.946E+00	202.26	2.44E+04	12.91	8.738E+01	7900	1.106E-08		8.316E-10
05	Pyrene	3.569E+00	202.26	2.95E+04	12.91	1.059E+02	7900	1.340E-08		1.008E-09
06	Benzo(a)pyrene	2.748E+00	252.32	2.84E+04	12.91	1.017E+02	7900	1.287E-08		9.677E-10
07	Benzene	1.413E-01	78.12	4.51E+02	12.91	1.619E+00	7900	2.049E-10		1.541E-11
08	Toluene	1.413E-01	92.14	5.32E+02	12.91	1.909E+00	7900	2.417E-10		1.817E-11
09	Ethylbenzene	1.413E-01	106.16	6.14E+02	12.91	2.200E+00	7900	2.784E-10		2.094E-11
10	Xylenes (Total)	4.238E-01	106.20	1.84E+03	12.91	6.600E+00	7900	8.354E-10		6.282E-11
11	Acenaphthylene	8.773E-01	152.19	5.46E+03	12.91	1.958E+01	7900	2.478E-09		1.863E-10
12	Acenaphthene	2.184E-01	154.21	1.38E+03	12.91	4.939E+00	7900	6.252E-10		4.701E-11
13	Fluorene	2.455E-01	166.22	1.67E+03	12.91	5.984E+00	7900	7.575E-10		5.695E-11
14	Chrysene	1.609E+00	228.29	1.50E+04	12.91	5.386E+01	7900	6.818E-09		5.127E-10
15	Benzo(a)anthracene	1.357E+00	228.29	1.27E+04	12.91	4.543E+01	7900	5.750E-09		4.324E-10
16	Benzo(b)fluoranthene	2.770E+00	252.31	2.86E+04	12.91	1.025E+02	7900	1.297E-08		9.755E-10
17	Benzo(k)fluoranthene	1.303E+00	252.31	1.34E+04	12.91	4.821E+01	7900	6.103E-09		4.588E-10
18	Dibenzo(a,h)anthracene	4.682E-01	278.35	5.33E+03	12.91	1.911E+01	7900	2.419E-09		1.819E-10
19	Indeno(1,2,3-cd)pyrene	9.391E-01	276.33	1.06E+04	12.91	3.805E+01	7900	4.817E-09		3.622E-10
20	Benzo(g,h,i)perylene	1.153E+00	276.33	1.30E+04	12.91	4.672E+01	7900	5.914E-09		4.447E-10

Volume of Zone 1B & 1C	=	69726	m3	… V[1B&1C]
Excavation Duration on Zone 1A & 1C	=	336	days	… T[1A&1C]
Excavation Duration on Zone 1B	=	305	days	… T[1B]
Area of Zone 1A	=	0.18	ha	… A[1A]
Area of Zone 1C	=	0.42	ha	… A[1C]
Total Average Excavation Rate (m³/hr)	**=**	**V[1B&1C]/(((T[1A&1C]*A[1C]/(A[1A]+A[1C]))+T[1B])*10 hours per day)**		
	=	**12.91**	**m3/hr**	

Annual Rates:		**For Zone 1B & 1C**		
Excavation Duration on Zone 1A & 1C	=	11	Months	… T[1A&1C]
Excavation Duration on Zone 1B	=	10	Months	… T[1B]
Maximum Duration of above	=	11	Months	
Excavation Area	=	648	m2	
Total Zone Group Area	=	7900	m2	

Annual Active Area (%) = (Excavation Area) / (Total Zone Group Area) * (Maximum Excavation Time) / 12 Months

= **7.52%**

Hydrocarbons (HC) Emission Calculations (Working Hours) **Reprovisioning Option A - 7.0 Years**

Reference from Appendix 3.5 of Kennedy Town Supplementary EIA (EIA-226/2014)

Zone 2

								Annual Active Area (%)		**Zone 2** 12.94%
Item (#)	**Pollutant**	**Concentration from soil pollutant concentrations (ppm)**	**Molecular Weight**	**VOC concentration (µg/m³) = (Conc (ppm) x MW x 1000) / 24.45**	**Total average Excavation Rate (m³/hr)**	**Emission Rate (µg/s) = Conc x Excav rate / 3600**	**Total Excavation Area (m²)**	**Continuous Emission (g/m²/s) = Emmision rate / (1000 x 1000 x Total Excavation Area)**		**Continuous Annual Emission (g/m²/s) = Emmision rate / (1000 x 1000 x Total Excavation Area) x (Annual Average Acitve Area)**
01	Naphthalene	7.849E-02	128.19	4.12E+02	18.24	2.085E+00	8500	2.453E-10		3.174E-11
02	Phenanthrene	8.900E-01	178.23	6.49E+03	18.24	3.287E+01	8500	3.866E-09		5.004E-10
03	Anthracene	4.094E-01	178.23	2.98E+03	18.24	1.512E+01	8500	1.779E-09		2.302E-10
04	Fluoranthene	1.526E+00	202.26	1.26E+04	18.24	6.395E+01	8500	7.523E-09		9.736E-10
05	Pyrene	1.897E+00	202.26	1.57E+04	18.24	7.950E+01	8500	9.352E-09		1.210E-09
06	Benzo(a)pyrene	1.269E+00	252.32	1.31E+04	18.24	6.634E+01	8500	7.805E-09		1.010E-09
07	Benzene	1.083E-01	78.12	3.46E+02	18.24	1.753E+00	8500	2.062E-10		2.669E-11
08	Toluene	1.083E-01	92.14	4.08E+02	18.24	2.067E+00	8500	2.432E-10		3.148E-11
09	Ethylbenzene	1.083E-01	106.16	4.70E+02	18.24	2.382E+00	8500	2.802E-10		3.627E-11
10	Xylenes (Total)	3.250E-01	106.20	1.41E+03	18.24	7.151E+00	8500	8.413E-10		1.089E-10
11	Acenaphthylene	4.472E-01	152.19	2.78E+03	18.24	1.410E+01	8500	1.659E-09		2.147E-10
12	Acenaphthene	9.771E-02	154.21	6.16E+02	18.24	3.122E+00	8500	3.673E-10		4.753E-11
13	Fluorene	2.309E-01	166.22	1.57E+03	18.24	7.952E+00	8500	9.355E-10		1.211E-10
14	Chrysene	8.360E-01	228.29	7.81E+03	18.24	3.954E+01	8500	4.652E-09		6.020E-10
15	Benzo(a)anthracene	1.096E+00	228.29	1.02E+04	18.24	5.184E+01	8500	6.099E-09		7.893E-10
16	Benzo(b)fluoranthene	1.047E+00	252.31	1.08E+04	18.24	5.473E+01	8500	6.439E-09		8.333E-10
17	Benzo(k)fluoranthene	9.055E-01	252.31	9.34E+03	18.24	4.734E+01	8500	5.569E-09		7.207E-10
18	Dibenzo(a,h)anthracene	3.065E-01	278.35	3.49E+03	18.24	1.768E+01	8500	2.080E-09		2.691E-10
19	Indeno(1,2,3-cd)pyrene	5.138E-01	276.33	5.81E+03	18.24	2.942E+01	8500	3.461E-09		4.479E-10
20	Benzo(g,h,i)perylene	6.943E-01	276.33	7.85E+03	18.24	3.975E+01	8500	4.677E-09		6.052E-10

Volume of Zone 2	=	61093	m3	… V[2]
Excavation Duration on Zone 2	=	335	days	… T[2]
Total Average Excavation Rate (m³/hr)	**=**	**V[2]/(T[2]*10 hours per day)**		
	=	**18.24**	**m3/hr**	

Annual Rates:		**For Zone 2**		
Excavation Duration on Zone 2	=	11	Months	… T[2]
Excavation Area	=	1200	m2	
Total Zone Group Area	=	8500	m2	

Annual Active Area (%) = (Excavation Area) / (Total Zone Group Area) * (Maximum Excavation Time) / 12 Months

= **12.94%**

Hydrocarbons (HC) Emission Calculations (Working Hours) **Reprovisioning Option B - 7.0 Years**

Reference from Appendix 3.5 of Kennedy Town Supplementary EIA (EIA-226/2014)

Zone 1A & 3

										Zone 1A & 30% of Zone 3	70% of Zone 3
									Annual Active Area (%)	11.58%	9.47%
Item (#)	**Pollutant**	**Concentration from soil pollutant concentrations (ppm)**	**Molecular Weight**	**VOC concentration (µg/m³) = (Conc (ppm) x MW x 1000) / 24.45**	**Total average Excavation Rate (m³/hr)**	**Emission Rate (µg/s) = Conc x Excav rate / 3600**	**Total Excavation Area (m²)**	**Continuous Emission (g/m²/s) = Emmision rate / (1000 x 1000 x Total Excavation Area)**		**Continuous Annual Emission (g/m²/s) = Emmision rate / (1000 x 1000 x Total Excavation Area) x (Annual Average Acitve Area)**	**Continuous Annual Emission (g/m²/s) = Emmision rate / (1000 x 1000 x Total Excavation Area) x (Annual Average Acitve Area)**
01	Naphthalene	2.747E-01	128.19	1.44E+03	7.30	2.920E+00	9500	3.073E-10		3.559E-11	2.912E-11
02	Phenanthrene	3.377E-01	178.23	2.46E+03	7.30	4.990E+00	9500	5.253E-10		6.082E-11	4.977E-11
03	Anthracene	2.504E-01	178.23	1.83E+03	7.30	3.700E+00	9500	3.895E-10		4.510E-11	3.690E-11
04	Fluoranthene	4.197E-01	202.26	3.47E+03	7.30	7.038E+00	9500	7.409E-10		8.579E-11	7.019E-11
05	Pyrene	4.363E-01	202.26	3.61E+03	7.30	7.317E+00	9500	7.702E-10		8.918E-11	7.296E-11
06	Benzo(a)pyrene	3.631E-01	252.32	3.75E+03	7.30	7.596E+00	9500	7.996E-10		9.259E-11	7.575E-11
07	Benzene	1.550E-01	78.12	4.95E+02	7.30	1.004E+00	9500	1.057E-10		1.224E-11	1.001E-11
08	Toluene	2.056E-01	92.14	7.75E+02	7.30	1.571E+00	9500	1.653E-10		1.914E-11	1.566E-11
09	Ethylbenzene	2.056E-01	106.16	8.93E+02	7.30	1.810E+00	9500	1.905E-10		2.206E-11	1.805E-11
10	Xylenes (Total)	7.056E-01	106.20	3.06E+03	7.30	6.213E+00	9500	6.540E-10		7.573E-11	6.196E-11
11	Acenaphthylene	2.384E-01	152.19	1.48E+03	7.30	3.008E+00	9500	3.167E-10		3.667E-11	3.000E-11
12	Acenaphthene	2.262E-01	154.21	1.43E+03	7.30	2.892E+00	9500	3.044E-10		3.525E-11	2.884E-11
13	Fluorene	2.374E-01	166.22	1.61E+03	7.30	3.272E+00	9500	3.444E-10		3.988E-11	3.263E-11
14	Chrysene	3.175E-01	228.29	2.96E+03	7.30	6.010E+00	9500	6.326E-10		7.325E-11	5.993E-11
15	Benzo(a)anthracene	2.854E-01	228.29	2.66E+03	7.30	5.402E+00	9500	5.686E-10		6.584E-11	5.387E-11
16	Benzo(b)fluoranthene	5.026E-01	252.31	5.19E+03	7.30	1.051E+01	9500	1.107E-09		1.282E-10	1.049E-10
17	Benzo(k)fluoranthene	2.110E-01	252.31	2.18E+03	7.30	4.414E+00	9500	4.646E-10		5.380E-11	4.402E-11
18	Dibenzo(a,h)anthracene	2.646E-01	278.35	3.01E+03	7.30	6.107E+00	9500	6.428E-10		7.443E-11	6.090E-11
19	Indeno(1,2,3-cd)pyrene	3.114E-01	276.33	3.52E+03	7.30	7.135E+00	9500	7.510E-10		8.696E-11	7.115E-11
20	Benzo(g,h,i)perylene	3.153E-01	276.33	3.56E+03	7.30	7.224E+00	9500	7.604E-10		8.805E-11	7.204E-11

Volume of Zone 1A & 3	=	34124	m3	… V[1A&3]
Excavation Duration on Zone 1A & 1C	=	336	days	… T[1A&1C]
Excavation Duration on Zone 3 (30%) & 1B	=	244	days	… T[3(30%)&1B]
Excavation Duration on Zone 3 (70%)	=	273	days	… T[3(70%)]
Area of Zone 1A	=	0.18	ha	… A[1A]
Area of Zone 1B	=	0.37	ha	… A[1B]
Area of Zone 1C	=	0.42	ha	… A[1C]
Area of Zone 3	=	0.77	ha	… A[3]
Total Average Excavation Rate (m³/hr)	**=**	**V[1A&3]/(((T[1A&1C]*A[1A]/(A[1A]+A[1C]))+T[3(70%)]+(T[3(30%)&1B]*A[3]*0.3/(A[3]*0.3+A[1B])))*10 hours per day)**		
	=	**7.30**	**m3/hr**	

Annual Rates: **For Zone 1A & Zone 3 (30%)**

Excavation Duration on Zone 1A & 1C	=	11	Months	… T[1A&1C]
Excavation Duration on Zone 3 (30%) & 1B	=	8	Months	… T[3(30%)&1B]
Maximum Duration of above	=	11	Months	
Excavation Area of Zone 1A & 30% of Zone 3	=	1200	m2	
Total Zone Group Area	=	9500	m2	

Annual Active Area (%) = (Excavation Area) / (Total Zone Group Area) * (Maximum Excavation Time) / 12 Months

= **11.58%**

Annual Rates: **For Zone 3 (70%)**

Excavation Duration on Zone 3 (70%)	=	9	Months	… T[3(70%)]
Excavation Area	=	1200	m2	
Total Zone Group Area	=	9500	m2	

Annual Active Area (%) = (Excavation Area) / (Total Zone Group Area) * (Maximum Excavation Time) / 12 Months

= **9.47%**

Hydrocarbons (HC) Emission Calculations (Working Hours) **Reprovisioning Option B - 7.0 Years**

Reference from Appendix 3.5 of Kennedy Town Supplementary EIA (EIA-226/2014)

Zone 1B & 1C

										Zone 1B & 1C
									Annual Active Area (%)	4.64%
Item (#)	**Pollutant**	**Concentration from soil pollutant concentrations (ppm)**	**Molecular Weight**	**VOC concentration (µg/m³) = (Conc (ppm) x MW x 1000) / 24.45**	**Total average Excavation Rate (m³/hr)**	**Emission Rate (µg/s) = Conc x Excav rate / 3600**	**Total Excavation Area (m²)**	**Continuous Emission (g/m²/s) = Emmision rate / (1000 x 1000 x Total Excavation Area)**		**Continuous Annual Emission (g/m²/s) = Emmision rate / (1000 x 1000 x Total Excavation Area) x (Annual Average Acitve Area)**
01	Naphthalene	1.660E-01	128.19	8.70E+02	18.09	4.374E+00	7900	5.536E-10		2.570E-11
02	Phenanthrene	7.968E-01	178.23	5.81E+03	18.09	2.919E+01	7900	3.695E-09		1.715E-10
03	Anthracene	5.225E-01	178.23	3.81E+03	18.09	1.914E+01	7900	2.423E-09		1.125E-10
04	Fluoranthene	2.946E+00	202.26	2.44E+04	18.09	1.225E+02	7900	1.550E-08		7.195E-10
05	Pyrene	3.569E+00	202.26	2.95E+04	18.09	1.484E+02	7900	1.878E-08		8.717E-10
06	Benzo(a)pyrene	2.748E+00	252.32	2.84E+04	18.09	1.425E+02	7900	1.804E-08		8.373E-10
07	Benzene	1.413E-01	78.12	4.51E+02	18.09	2.269E+00	7900	2.872E-10		1.333E-11
08	Toluene	1.413E-01	92.14	5.32E+02	18.09	2.676E+00	7900	3.387E-10		1.572E-11
09	Ethylbenzene	1.413E-01	106.16	6.14E+02	18.09	3.083E+00	7900	3.903E-10		1.811E-11
10	Xylenes (Total)	4.238E-01	106.20	1.84E+03	18.09	9.251E+00	7900	1.171E-09		5.435E-11
11	Acenaphthylene	8.773E-01	152.19	5.46E+03	18.09	2.744E+01	7900	3.474E-09		1.612E-10
12	Acenaphthene	2.184E-01	154.21	1.38E+03	18.09	6.922E+00	7900	8.762E-10		4.067E-11
13	Fluorene	2.455E-01	166.22	1.67E+03	18.09	8.387E+00	7900	1.062E-09		4.928E-11
14	Chrysene	1.609E+00	228.29	1.50E+04	18.09	7.550E+01	7900	9.557E-09		4.436E-10
15	Benzo(a)anthracene	1.357E+00	228.29	1.27E+04	18.09	6.367E+01	7900	8.060E-09		3.741E-10
16	Benzo(b)fluoranthene	2.770E+00	252.31	2.86E+04	18.09	1.436E+02	7900	1.818E-08		8.439E-10
17	Benzo(k)fluoranthene	1.303E+00	252.31	1.34E+04	18.09	6.757E+01	7900	8.553E-09		3.970E-10
18	Dibenzo(a,h)anthracene	4.682E-01	278.35	5.33E+03	18.09	2.679E+01	7900	3.391E-09		1.574E-10
19	Indeno(1,2,3-cd)pyrene	9.391E-01	276.33	1.06E+04	18.09	5.334E+01	7900	6.751E-09		3.134E-10
20	Benzo(g,h,i)perylene	1.153E+00	276.33	1.30E+04	18.09	6.548E+01	7900	8.289E-09		3.847E-10

Vol [1B & 1C]	=	69726	m3	… V[1B&1C]
T [1A & 1C]	=	336	days	… T[1A&1C]
T [3 (30%) & 1B]	=	244	days	… T[3(30%)&1B]
A [1A]	=	0.18	ha	… A[1A]
A [1B]	=	0.37	ha	… A[1B]
A [1C]	=	0.42	ha	… A[1C]
A [3]	=	0.77	ha	… A[3]
Total Average Excavation Rate (m³/hr)	**=**	**V[1B&1C]/(((T[3(30%)&1B]*A[1B]/(A[3]*0.3+A[1B]))+(T[1A&1C]*A[1C]/(A[1A]+A[1C])))*10 hours per day)**		
	=	**18.09**	**m3/hr**	

Annual Rates:		**For Zone 1B & 1C**		
Excavation Duration on Zone 1A & 1C	=	8	Months	… T[1A&1C]
Excavation Duration on Zone 3 (30%) & 1B	=	11	Months	… T[3(30%)&1B]
Maximum Duration of above	=	11	Months	
Excavation Area	=	400	m2	
Total Zone Group Area	=	7900	m2	

Annual Active Area (%) = (Excavation Area) / (Total Zone Group Area) * (Maximum Excavation Time) / 12 Months

= **4.64%**

Hydrocarbons (HC) Emission Calculations (Working Hours) **Reprovisioning Option B - 7.0 Years**

Reference from Appendix 3.5 of Kennedy Town Supplementary EIA (EIA-226/2014)

Zone 2

								Annual Active Area (%)		**Zone 2** 11.76%
Item (#)	**Pollutant**	**Concentration from soil pollutant concentrations (ppm)**	**Molecular Weight**	**VOC concentration (μg/m³) = (Conc (ppm) x MW x 1000) / 24.45**	**Total average Excavation Rate (m³/hr)**	**Emission Rate (μg/s) = Conc x Excav rate / 3600**	**Total Excavation Area (m²)**	**Continuous Emission (g/m²/s) = Emmision rate / (1000 x 1000 x Total Excavation Area)**		**Continuous Annual Emission (g/m²/s) = Emmision rate / (1000 x 1000 x Total Excavation Area) x (Annual Average Acitve Area)**
01	Naphthalene	7.849E-02	128.19	4.12E+02	20.10	2.2972E+00	8500	2.7026E-10		3.1796E-11
02	Phenanthrene	8.900E-01	178.23	6.49E+03	20.10	3.6217E+01	8500	4.2608E-09		5.0127E-10
03	Anthracene	4.094E-01	178.23	2.98E+03	20.10	1.6660E+01	8500	1.9600E-09		2.3058E-10
04	Fluoranthene	1.526E+00	202.26	1.26E+04	20.10	7.0469E+01	8500	8.2905E-09		9.7536E-10
05	Pyrene	1.897E+00	202.26	1.57E+04	20.10	8.7602E+01	8500	1.0306E-08		1.2125E-09
06	Benzo(a)pyrene	1.269E+00	252.32	1.31E+04	20.10	7.3105E+01	8500	8.6006E-09		1.0118E-09
07	Benzene	1.083E-01	78.12	3.46E+02	20.10	1.9316E+00	8500	2.2725E-10		2.6736E-11
08	Toluene	1.083E-01	92.14	4.08E+02	20.10	2.2783E+00	8500	2.6804E-10		3.1534E-11
09	Ethylbenzene	1.083E-01	106.16	4.70E+02	20.10	2.6250E+00	8500	3.0882E-10		3.6332E-11
10	Xylenes (Total)	3.250E-01	106.20	1.41E+03	20.10	7.8803E+00	8500	9.2710E-10		1.0907E-10
11	Acenaphthylene	4.472E-01	152.19	2.78E+03	20.10	1.5539E+01	8500	1.8281E-09		2.1507E-10
12	Acenaphthene	9.771E-02	154.21	6.16E+02	20.10	3.4402E+00	8500	4.0473E-10		4.7616E-11
13	Fluorene	2.309E-01	166.22	1.57E+03	20.10	8.7628E+00	8500	1.0309E-09		1.2128E-10
14	Chrysene	8.360E-01	228.29	7.81E+03	20.10	4.3574E+01	8500	5.1264E-09		6.0310E-10
15	Benzo(a)anthracene	1.096E+00	228.29	1.02E+04	20.10	5.7126E+01	8500	6.7207E-09		7.9067E-10
16	Benzo(b)fluoranthene	1.047E+00	252.31	1.08E+04	20.10	6.0314E+01	8500	7.0958E-09		8.3479E-10
17	Benzo(k)fluoranthene	9.055E-01	252.31	9.34E+03	20.10	5.2163E+01	8500	6.1368E-09		7.2197E-10
18	Dibenzo(a,h)anthracene	3.065E-01	278.35	3.49E+03	20.10	1.9479E+01	8500	2.2916E-09		2.6960E-10
19	Indeno(1,2,3-cd)pyrene	5.138E-01	276.33	5.81E+03	20.10	3.2416E+01	8500	3.8136E-09		4.4866E-10
20	Benzo(g,h,i)perylene	6.943E-01	276.33	7.85E+03	20.10	4.3804E+01	8500	5.1534E-09		6.0628E-10

Volume of Zone 2	=	61093	m3	… V[2]
Excavation Duration on Zone 2	=	304	days	… T[2]
Total Average Excavation Rate (m³/hr)	**=**	**V[2]/(T[2]*10 hours per day)**		
	=	**20.10**	**m3/hr**	

Annual Rates:		**For Zone 2**		
Excavation Duration on Zone 2	=	10	Months	… T[2]
Excavation Area	=	1200	m2	
Total Zone Group Area	=	8500	m2	

Annual Active Area (%) = (Excavation Area) / (Total Zone Group Area) * (Maximum Excavation Time) / 12 Months

= **11.76%**

Hydrocarbons (HC) Emission Calculations (Working Hours) **Reprovisioning Option C - 4.5 Years**

Reference from Appendix 3.5 of Kennedy Town Supplementary EIA (EIA-226/2014)

Zone 1A & 3

										Zone 1A & 3
									Annual Active Area (%)	6.32%
Item (#)	**Pollutant**	**Concentration from soil pollutant concentrations (ppm)**	**Molecular Weight**	**VOC concentration (µg/m³) = (Conc (ppm) x MW x 1000) / 24.45**	**Total average Excavation Rate (m³/hr)**	**Emission Rate (µg/s) = Conc x Excav rate / 3600**	**Total Excavation Area (m²)**	**Continuous Emission (g/m²/s) = Emmision rate / (1000 x 1000 x Total Excavation Area)**		**Continuous Annual Emission (g/m²/s) = Emmision rate / (1000 x 1000 x Total Excavation Area) x (Annual Average Acitve Area)**
01	Naphthalene	2.747E-01	128.19	1.44E+03	12.41	4.964E+00	9500	5.226E-10		3.300E-11
02	Phenanthrene	3.377E-01	178.23	2.46E+03	12.41	8.485E+00	9500	8.932E-10		5.641E-11
03	Anthracene	2.504E-01	178.23	1.83E+03	12.41	6.292E+00	9500	6.623E-10		4.183E-11
04	Fluoranthene	4.197E-01	202.26	3.47E+03	12.41	1.197E+01	9500	1.260E-09		7.956E-11
05	Pyrene	4.363E-01	202.26	3.61E+03	12.41	1.244E+01	9500	1.310E-09		8.271E-11
06	Benzo(a)pyrene	3.631E-01	252.32	3.75E+03	12.41	1.292E+01	9500	1.360E-09		8.587E-11
07	Benzene	1.550E-01	78.12	4.95E+02	12.41	1.707E+00	9500	1.797E-10		1.135E-11
08	Toluene	2.056E-01	92.14	7.75E+02	12.41	2.671E+00	9500	2.811E-10		1.776E-11
09	Ethylbenzene	2.056E-01	106.16	8.93E+02	12.41	3.077E+00	9500	3.239E-10		2.046E-11
10	Xylenes (Total)	7.056E-01	106.20	3.06E+03	12.41	1.056E+01	9500	1.112E-09		7.023E-11
11	Acenaphthylene	2.384E-01	152.19	1.48E+03	12.41	5.115E+00	9500	5.384E-10		3.400E-11
12	Acenaphthene	2.262E-01	154.21	1.43E+03	12.41	4.918E+00	9500	5.176E-10		3.269E-11
13	Fluorene	2.374E-01	166.22	1.61E+03	12.41	5.563E+00	9500	5.856E-10		3.698E-11
14	Chrysene	3.175E-01	228.29	2.96E+03	12.41	1.022E+01	9500	1.076E-09		6.793E-11
15	Benzo(a)anthracene	2.854E-01	228.29	2.66E+03	12.41	9.185E+00	9500	9.669E-10		6.106E-11
16	Benzo(b)fluoranthene	5.026E-01	252.31	5.19E+03	12.41	1.788E+01	9500	1.882E-09		1.189E-10
17	Benzo(k)fluoranthene	2.110E-01	252.31	2.18E+03	12.41	7.505E+00	9500	7.900E-10		4.990E-11
18	Dibenzo(a,h)anthracene	2.646E-01	278.35	3.01E+03	12.41	1.038E+01	9500	1.093E-09		6.903E-11
19	Indeno(1,2,3-cd)pyrene	3.114E-01	276.33	3.52E+03	12.41	1.213E+01	9500	1.277E-09		8.065E-11
20	Benzo(g,h,i)perylene	3.153E-01	276.33	3.56E+03	12.41	1.228E+01	9500	1.293E-09		8.166E-11

Volume of Zone 1A & 3	=	34124	m3	… V[1A&3]
Excavation Duration on Zone 1A & 3	=	275	days	… T[1A&3]
Total Average Excavation Rate (m³/hr)	**=**	**V[1A&3]/(T[1A&3]*10 hours per day)**		
	=	**12.41**	**m3/hr**	

Annual Rates:		**For Zone 1A & 3**		
Excavation Duration on Zone 1A & 3	=	9	Months	… T[1A&1C]
Excavation Area	=	800	m2	
Total Zone Group Area	=	9500	m2	

Annual Active Area (%) = (Excavation Area) / (Total Zone Group Area) * (Maximum Excavation Time) / 12 Months

= **6.32%**

Hydrocarbons (HC) Emission Calculations (Working Hours) **Reprovisioning Option C - 4.5 Years**

Reference from Appendix 3.5 of Kennedy Town Supplementary EIA (EIA-226/2014)

Zone 1B & 1C

									Annual Active Area (%)	**Zone 1B & 1C** 3.95%
Item (#)	**Pollutant**	**Concentration from soil pollutant concentrations (ppm)**	**Molecular Weight**	**VOC concentration (µg/m³) = (Conc (ppm) x MW x 1000) / 24.45**	**Total average Excavation Rate (m³/hr)**	**Emission Rate (µg/s) = Conc x Excav rate / 3600**	**Total Excavation Area (m²)**	**Continuous Emission (g/m²/s) = Emmision rate / (1000 x 1000 x Total Excavation Area)**		**Continuous Annual Emission (g/m²/s) = Emmision rate / (1000 x 1000 x Total Excavation Area) x (Annual Average Acitve Area)**
01	Naphthalene	1.660E-01	128.19	8.70E+02	20.88	5.047E+00	7900	6.389E-10		2.520E-11
02	Phenanthrene	7.968E-01	178.23	5.81E+03	20.88	3.368E+01	7900	4.264E-09		1.682E-10
03	Anthracene	5.225E-01	178.23	3.81E+03	20.88	2.209E+01	7900	2.796E-09		1.103E-10
04	Fluoranthene	2.946E+00	202.26	2.44E+04	20.88	1.413E+02	7900	1.789E-08		7.057E-10
05	Pyrene	3.569E+00	202.26	2.95E+04	20.88	1.712E+02	7900	2.167E-08		8.550E-10
06	Benzo(a)pyrene	2.748E+00	252.32	2.84E+04	20.88	1.645E+02	7900	2.082E-08		8.212E-10
07	Benzene	1.413E-01	78.12	4.51E+02	20.88	2.618E+00	7900	3.314E-10		1.307E-11
08	Toluene	1.413E-01	92.14	5.32E+02	20.88	3.088E+00	7900	3.909E-10		1.542E-11
09	Ethylbenzene	1.413E-01	106.16	6.14E+02	20.88	3.558E+00	7900	4.503E-10		1.777E-11
10	Xylenes (Total)	4.238E-01	106.20	1.84E+03	20.88	1.067E+01	7900	1.351E-09		5.331E-11
11	Acenaphthylene	8.773E-01	152.19	5.46E+03	20.88	3.167E+01	7900	4.008E-09		1.581E-10
12	Acenaphthene	2.184E-01	154.21	1.38E+03	20.88	7.988E+00	7900	1.011E-09		3.989E-11
13	Fluorene	2.455E-01	166.22	1.67E+03	20.88	9.678E+00	7900	1.225E-09		4.833E-11
14	Chrysene	1.609E+00	228.29	1.50E+04	20.88	8.712E+01	7900	1.103E-08		4.351E-10
15	Benzo(a)anthracene	1.357E+00	228.29	1.27E+04	20.88	7.347E+01	7900	9.301E-09		3.669E-10
16	Benzo(b)fluoranthene	2.770E+00	252.31	2.86E+04	20.88	1.658E+02	7900	2.098E-08		8.278E-10
17	Benzo(k)fluoranthene	1.303E+00	252.31	1.34E+04	20.88	7.797E+01	7900	9.870E-09		3.894E-10
18	Dibenzo(a,h)anthracene	4.682E-01	278.35	5.33E+03	20.88	3.091E+01	7900	3.913E-09		1.544E-10
19	Indeno(1,2,3-cd)pyrene	9.391E-01	276.33	1.06E+04	20.88	6.155E+01	7900	7.791E-09		3.074E-10
20	Benzo(g,h,i)perylene	1.153E+00	276.33	1.30E+04	20.88	7.557E+01	7900	9.565E-09		3.774E-10

Volume of Zone 1B & 1C	=	69726	m3	… V[1B&1C]
Excavation Duration on Zone 1B & 1C	=	334	days	… T[1B&1C]
Total Average Excavation Rate (m³/hr)	**=**	**V[1B&1C]/(T[1B&1C]*10 hours per day)**		
	=	**20.88**	**m3/hr**	

Annual Rates:		**For Zone 1B & 1C**		
Excavation Duration on Zone 1B & 1C	=	11	Months	… T[1A&1C]
Excavation Area	=	340	m2	
Total Zone Group Area	=	7900	m2	

Annual Active Area (%) = (Excavation Area) / (Total Zone Group Area) * (Maximum Excavation Time) / 12 Months

= **3.95%**

Hydrocarbons (HC) Emission Calculations (Working Hours) **Reprovisioning Option C - 4.5 Years**

Reference from Appendix 3.5 of Kennedy Town Supplementary EIA (EIA-226/2014)

Zone 2

									Annual Active Area (%)	**Zone 2** 7.84%
Item (#)	**Pollutant**	**Concentration from soil pollutant concentrations (ppm)**	**Molecular Weight**	**VOC concentration (µg/m³) = (Conc (ppm) x MW x 1000) / 24.45**	**Total average Excavation Rate (m³/hr)**	**Emission Rate (µg/s) = Conc x Excav rate / 3600**	**Total Excavation Area (m²)**	**Continuous Emission (g/m²/s) = Emmision rate / (1000 x 1000 x Total Excavation Area)**		**Continuous Annual Emission (g/m²/s) = Emmision rate / (1000 x 1000 x Total Excavation Area) x (Annual Average Acitve Area)**
01	Naphthalene	7.849E-02	128.19	4.12E+02	19.97	2.282E+00	8500	2.685E-10		2.106E-11
02	Phenanthrene	8.900E-01	178.23	6.49E+03	19.97	3.598E+01	8500	4.233E-09		3.320E-10
03	Anthracene	4.094E-01	178.23	2.98E+03	19.97	1.655E+01	8500	1.947E-09		1.527E-10
04	Fluoranthene	1.526E+00	202.26	1.26E+04	19.97	7.001E+01	8500	8.236E-09		6.460E-10
05	Pyrene	1.897E+00	202.26	1.57E+04	19.97	8.703E+01	8500	1.024E-08		8.030E-10
06	Benzo(a)pyrene	1.269E+00	252.32	1.31E+04	19.97	7.263E+01	8500	8.544E-09		6.702E-10
07	Benzene	1.083E-01	78.12	3.46E+02	19.97	1.919E+00	8500	2.258E-10		1.771E-11
08	Toluene	1.083E-01	92.14	4.08E+02	19.97	2.263E+00	8500	2.663E-10		2.089E-11
09	Ethylbenzene	1.083E-01	106.16	4.70E+02	19.97	2.608E+00	8500	3.068E-10		2.406E-11
10	Xylenes (Total)	3.250E-01	106.20	1.41E+03	19.97	7.829E+00	8500	9.210E-10		7.224E-11
11	Acenaphthylene	4.472E-01	152.19	2.78E+03	19.97	1.544E+01	8500	1.816E-09		1.424E-10
12	Acenaphthene	9.771E-02	154.21	6.16E+02	19.97	3.418E+00	8500	4.021E-10		3.154E-11
13	Fluorene	2.309E-01	166.22	1.57E+03	19.97	8.706E+00	8500	1.024E-09		8.033E-11
14	Chrysene	8.360E-01	228.29	7.81E+03	19.97	4.329E+01	8500	5.093E-09		3.994E-10
15	Benzo(a)anthracene	1.096E+00	228.29	1.02E+04	19.97	5.675E+01	8500	6.677E-09		5.237E-10
16	Benzo(b)fluoranthene	1.047E+00	252.31	1.08E+04	19.97	5.992E+01	8500	7.049E-09		5.529E-10
17	Benzo(k)fluoranthene	9.055E-01	252.31	9.34E+03	19.97	5.182E+01	8500	6.097E-09		4.782E-10
18	Dibenzo(a,h)anthracene	3.065E-01	278.35	3.49E+03	19.97	1.935E+01	8500	2.277E-09		1.786E-10
19	Indeno(1,2,3-cd)pyrene	5.138E-01	276.33	5.81E+03	19.97	3.220E+01	8500	3.789E-09		2.972E-10
20	Benzo(g,h,i)perylene	6.943E-01	276.33	7.85E+03	19.97	4.352E+01	8500	5.120E-09		4.015E-10

Volume of Zone 2	=	61093	m3	… V[2]
Excavation Duration on Zone 2	=	306	days	… T[2]
Total Average Excavation Rate (m³/hr)	**=**	**V[2]/(T[2]*10 hours per day)**		
	=	**19.97**	**m3/hr**	

Annual Rates:		**For Zone 2**		
Excavation Duration on Zone 2	=	10	Months	… T[2]
Excavation Area	=	800	m2	
Total Zone Group Area	=	8500	m2	

Annual Active Area (%) = (Excavation Area) / (Total Zone Group Area) * (Maximum Excavation Time) / 12 Months

= **7.84%**

Hydrocarbons (HC) Emission Calculations (Non-Working Hours)

Reference from Appendix 3.6 of Kennedy Town Supplementary EIA (EIA-226/2014)

Input Parameters *Koc (Column B)* *(Column C)* *(Column D)* *(Column E)* *windspeed* *1 m/s*

Item (#)	Pollutant	Organic carbon partition coefficient (L/Kg)	Dimensionless Henry's constant	Air diffusion coeff (cm2/day)	Water diffusion coeff (cm2/day)	Dgair (cm2/s)	Dgair (m3/s)	Kinematic visosity of air	Friction velocity V' [0.01*windspeed* SQRT(6.1+0.63*windspeed)]	Schmidt number Sc [Dgair/v]	boundary layer thickness (cm) [26*v /(V'*Sc^(1/3))]	Average Soil Contaminant Concentration (mg/kg) Zone 1A & 3	Zone 1B & 1C	Zone 2
01	Naphthalene	1.995E+03	1.99E-02	5.098E+03	6.480E-01	0.059	5.9E-06	1.5E-05	0.03	3.9E-01	2.052	2.747E-01	1.660E-01	7.849E-02
02	Phenanthrene	1.413E+04	2.50E-01	2.877E+03	6.454E-01	0.033	3.3E-06	1.5E-05	0.03	2.2E-01	2.483	3.377E-01	7.968E-01	8.900E-01
03	Anthracene	1.413E+04	2.78E+00	2.799E+03	6.687E-01	0.032	3.2E-06	1.5E-05	0.03	2.2E-01	2.506	2.504E-01	5.225E-01	4.094E-01
04	Fluoranthene	3.802E+04	2.76E+00	2.609E+03	5.486E-01	0.030	3.0E-06	1.5E-05	0.03	2.0E-01	2.565	4.197E-01	2.946E+00	1.526E+00
05	Pyrene	3.802E+04	2.89E-07	1.961E+03	6.255E-01	0.023	2.3E-06	1.5E-05	0.03	1.5E-01	2.821	4.363E-01	3.569E+00	1.897E+00
06	Benzo(a)pyrene	1.023E+06	4.66E-05	3.715E+03	7.776E-01	0.043	4.3E-06	1.5E-05	0.03	2.9E-01	2.280	3.631E-01	2.748E+00	1.269E+00
07	Benzene	5.89E+01	2.29E-01	7.603E+03	8.467E-01	0.088	8.8E-06	1.5E-05	0.03	5.9E-01	1.796	1.550E-01	1.413E-01	1.083E-01
08	Toluene	1.349E+02	2.60E-01	7.344E+03	8.122E-01	0.085	8.5E-06	1.5E-05	0.03	5.7E-01	1.817	2.056E-01	1.413E-01	1.083E-01
09	Ethylbenzene	3.631E+02	3.25E-01	6.480E+03	6.739E-01	0.075	7.5E-06	1.5E-05	0.03	5.0E-01	1.894	2.056E-01	1.413E-01	1.083E-01
10	Xylenes (Total)	1.288E+02	2.17E-01	7.517E+03	8.640E-01	0.087	8.7E-06	1.5E-05	0.03	5.8E-01	1.803	7.056E-01	4.238E-01	3.250E-01
11	Acenaphthylene	6.823E+03	4.51E-03	3.802E+03	6.480E-01	0.044	4.4E-06	1.5E-05	0.03	2.9E-01	2.263	2.384E-01	8.773E-01	4.472E-01
12	Acenaphthene	6.823E+03	7.38E-03	3.637E+03	6.644E-01	0.042	4.2E-06	1.5E-05	0.03	2.8E-01	2.296	2.262E-01	2.184E-01	9.771E-02
13	Fluorene	1.073E+04	3.94E-03	3.136E+03	6.808E-01	0.036	3.6E-06	1.5E-05	0.03	2.4E-01	2.412	2.374E-01	2.455E-01	2.309E-01
14	Chrysene	5.031E+05	2.13E-04	2.143E+03	5.365E-01	0.025	2.5E-06	1.5E-05	0.03	1.7E-01	2.739	3.175E-01	1.609E+00	8.360E-01
15	Benzo(a)anthracene	4.012E+05	4.92E-04	4.406E+03	7.776E-01	0.051	5.1E-06	1.5E-05	0.03	3.4E-01	2.154	2.854E-01	1.357E+00	1.096E+00
16	Benzo(b)fluoranthene	1.230E+06	4.55E-03	1.953E+03	4.804E-01	0.023	2.3E-06	1.5E-05	0.03	1.5E-01	2.825	5.026E-01	2.770E+00	1.047E+00
17	Benzo(k)fluoranthene	9.922E+05	2.38E-05	1.953E+03	4.804E-01	0.023	2.3E-06	1.5E-05	0.03	1.5E-01	2.825	2.110E-01	1.303E+00	9.055E-01
18	Dibenz (a,h)anthracene	2.453E+06	5.74E-06	1.745E+03	4.476E-01	0.020	2.0E-06	1.5E-05	0.03	1.3E-01	2.933	2.646E-01	4.682E-01	3.065E-01
19	Indeno(1,2,3-cd)pyrene	3.858E+06	1.39E-05	1.642E+03	4.890E-01	0.019	1.9E-06	1.5E-05	0.03	1.3E-01	2.993	3.114E-01	9.391E-01	5.138E-01
20	Benzo(g,h,i)perylene	3.077E+06	1.35E-05	1.737E+03	4.579E-01	0.020	2.0E-06	1.5E-05	0.03	1.3E-01	2.938	3.153E-01	1.153E+00	6.943E-01

Output Results

Item (#)	Pollutant	Emission Rate (mg/cm2/day) Zone 1A & 3	Zone 1B & 1C	Zone 2	Emission Rate (g/m2/s) Zone 1A & 3	Zone 1B & 1C	Zone 2
01	Naphthalene	6.465E-13	3.905E-13	1.847E-13	7.483E-17	4.520E-17	2.138E-17
02	Phenanthrene	4.468E-07	1.054E-06	1.177E-06	5.1713E-11	1.220E-10	1.363E-10
03	Anthracene	2.228E-06	4.648E-06	3.642E-06	2.579E-10	5.380E-10	4.215E-10
04	Fluoranthene	2.427E-06	1.704E-05	8.822E-06	2.809E-10	1.972E-09	1.021E-09
05	Pyrene	2.344E-16	1.917E-15	1.019E-15	2.713E-20	2.219E-19	1.180E-19
06	Benzo(a)pyrene	5.173E-10	3.915E-09	1.808E-09	5.987E-14	4.531E-13	2.092E-13
07	Benzene	9.234E-15	8.416E-15	6.454E-15	1.069E-18	9.741E-19	7.469E-19
08	Toluene	2.100E-10	1.442E-10	1.106E-10	2.431E-14	1.669E-14	1.280E-14
09	Ethylbenzene	4.930E-08	3.387E-08	2.597E-08	5.706E-12	3.920E-12	3.006E-12
10	Xylenes (Total)	9.766E-11	5.866E-11	4.498E-11	1.130E-14	6.789E-15	5.206E-15
11	Acenaphthylene	1.148E-15	4.225E-15	2.154E-15	1.329E-19	4.890E-19	2.493E-19
12	Acenaphthene	2.151E-13	2.077E-13	9.291E-14	2.490E-17	2.404E-17	1.075E-17
13	Fluorene	2.361E-14	2.441E-14	2.296E-14	2.733E-18	2.825E-18	2.658E-18
14	Chrysene	4.736E-10	2.400E-09	1.247E-09	5.481E-14	2.778E-13	1.443E-13
15	Benzo(a)anthracene	2.468E-09	1.174E-08	9.480E-09	2.856E-13	1.359E-12	1.097E-12
16	Benzo(b)fluoranthene	1.081E-08	5.957E-08	2.252E-08	1.251E-12	6.895E-12	2.606E-12
17	Benzo(k)fluoranthene	4.101E-11	2.532E-10	1.760E-10	4.747E-15	2.931E-14	2.037E-14
18	Dibenz (a,h)anthracene	9.831E-12	1.740E-11	1.139E-11	1.138E-15	2.014E-15	1.318E-15
19	Indeno(1,2,3-cd)pyrene	2.314E-11	6.976E-11	3.817E-11	2.678E-15	8.074E-15	4.418E-15
20	Benzo(g,h,i)perylene	2.590E-11	9.471E-11	5.704E-11	2.998E-15	1.096E-14	6.602E-15

mg/cm2/day to g/m2/s : (result)/3600/24*10000/1000

Hydrocarbons (HC) Emission Calculations (Non-Working Hours)

Reference from Appendix 3.6 of Kennedy Town Supplementary EIA (EIA-226/2014)

Input Parameters *Koc (Column B)* *(Column C)* *(Column D)* *(Column E)* *windspeed* *1 m/s*

Item (#)	Pollutant	Organic carbon partition coefficient (L/Kg)	Dimensionless Henry's constant	Air diffusion coeff (cm2/day)	Water diffusion coeff (cm2/day)	Dgair (cm2/s)	Dgair (m3/s)	Kinematic visosity of air	Friction velocity V' [0.01*windspeed* SQRT(6.1+0.63*windspeed)]	Schmidt number Sc [Dgair/v]	boundary layer thickness (cm) [26*v /(V'*Sc^(1/3))]	Average Soil Contaminant Concentration (mg/kg) Zone 1A & 3	Zone 1B & 1C	Zone 2
01	Naphthalene	1.995E+03	1.99E-02	5.098E+03	6.480E-01	0.059	5.9E-06	1.5E-05	0.03	3.9E-01	2.052	2.747E-01	1.660E-01	7.849E-02
02	Phenanthrene	1.413E+04	2.50E-01	2.877E+03	6.454E-01	0.033	3.3E-06	1.5E-05	0.03	2.2E-01	2.483	3.377E-01	7.968E-01	8.900E-01
03	Anthracene	1.413E+04	2.78E+00	2.799E+03	6.687E-01	0.032	3.2E-06	1.5E-05	0.03	2.2E-01	2.506	2.504E-01	5.225E-01	4.094E-01
04	Fluoranthene	3.802E+04	2.76E+00	2.609E+03	5.486E-01	0.030	3.0E-06	1.5E-05	0.03	2.0E-01	2.565	4.197E-01	2.946E+00	1.526E+00
05	Pyrene	3.802E+04	2.89E-07	1.961E+03	6.255E-01	0.023	2.3E-06	1.5E-05	0.03	1.5E-01	2.821	4.363E-01	3.569E+00	1.897E+00
06	Benzo(a)pyrene	1.023E+06	4.66E-05	3.715E+03	7.776E-01	0.043	4.3E-06	1.5E-05	0.03	2.9E-01	2.280	3.631E-01	2.748E+00	1.269E+00
07	Benzene	5.89E+01	2.29E-01	7.603E+03	8.467E-01	0.088	8.8E-06	1.5E-05	0.03	5.9E-01	1.796	1.550E-01	1.413E-01	1.083E-01
08	Toluene	1.349E+02	2.60E-01	7.344E+03	8.122E-01	0.085	8.5E-06	1.5E-05	0.03	5.7E-01	1.817	2.056E-01	1.413E-01	1.083E-01
09	Ethylbenzene	3.631E+02	3.25E-01	6.480E+03	6.739E-01	0.075	7.5E-06	1.5E-05	0.03	5.0E-01	1.894	2.056E-01	1.413E-01	1.083E-01
10	Xylenes (Total)	1.288E+02	2.17E-01	7.517E+03	8.640E-01	0.087	8.7E-06	1.5E-05	0.03	5.8E-01	1.803	7.056E-01	4.238E-01	3.250E-01
11	Acenaphthylene	6.823E+03	4.51E-03	3.802E+03	6.480E-01	0.044	4.4E-06	1.5E-05	0.03	2.9E-01	2.263	2.384E-01	8.773E-01	4.472E-01
12	Acenaphthene	6.823E+03	7.38E-03	3.637E+03	6.644E-01	0.042	4.2E-06	1.5E-05	0.03	2.8E-01	2.296	2.262E-01	2.184E-01	9.771E-02
13	Fluorene	1.073E+04	3.94E-03	3.136E+03	6.808E-01	0.036	3.6E-06	1.5E-05	0.03	2.4E-01	2.412	2.374E-01	2.455E-01	2.309E-01
14	Chrysene	5.031E+05	2.13E-04	2.143E+03	5.365E-01	0.025	2.5E-06	1.5E-05	0.03	1.7E-01	2.739	3.175E-01	1.609E+00	8.360E-01
15	Benzo(a)anthracene	4.012E+05	4.92E-04	4.406E+03	7.776E-01	0.051	5.1E-06	1.5E-05	0.03	3.4E-01	2.154	2.854E-01	1.357E+00	1.096E+00
16	Benzo(b)fluoranthene	1.230E+06	4.55E-03	1.953E+03	4.804E-01	0.023	2.3E-06	1.5E-05	0.03	1.5E-01	2.825	5.026E-01	2.770E+00	1.047E+00
17	Benzo(k)fluoranthene	9.922E+05	2.38E-05	1.953E+03	4.804E-01	0.023	2.3E-06	1.5E-05	0.03	1.5E-01	2.825	2.110E-01	1.303E+00	9.055E-01
18	Dibenz (a,h)anthracene	2.453E+06	5.74E-06	1.745E+03	4.476E-01	0.020	2.0E-06	1.5E-05	0.03	1.3E-01	2.933	2.646E-01	4.682E-01	3.065E-01
19	Indeno(1,2,3-cd)pyrene	3.858E+06	1.39E-05	1.642E+03	4.890E-01	0.019	1.9E-06	1.5E-05	0.03	1.3E-01	2.993	3.114E-01	9.391E-01	5.138E-01
20	Benzo(g,h,i)perylene	3.077E+06	1.35E-05	1.737E+03	4.579E-01	0.020	2.0E-06	1.5E-05	0.03	1.3E-01	2.938	3.153E-01	1.153E+00	6.943E-01

Output Results

Item (#)	Pollutant	Emission Rate (mg/cm2/day) Zone 1A & 3	Zone 1B & 1C	Zone 2	Emission Rate (g/m2/s) Zone 1A & 3	Zone 1B & 1C	Zone 2
01	Naphthalene	6.465E-13	3.905E-13	1.847E-13	7.483E-17	4.520E-17	2.138E-17
02	Phenanthrene	4.468E-07	1.054E-06	1.177E-06	5.1713E-11	1.220E-10	1.363E-10
03	Anthracene	2.228E-06	4.648E-06	3.642E-06	2.579E-10	5.380E-10	4.215E-10
04	Fluoranthene	2.427E-06	1.704E-05	8.822E-06	2.809E-10	1.972E-09	1.021E-09
05	Pyrene	2.344E-16	1.917E-15	1.019E-15	2.713E-20	2.219E-19	1.180E-19
06	Benzo(a)pyrene	5.173E-10	3.915E-09	1.808E-09	5.987E-14	4.531E-13	2.092E-13
07	Benzene	9.234E-15	8.416E-15	6.454E-15	1.069E-18	9.741E-19	7.469E-19
08	Toluene	2.100E-10	1.442E-10	1.106E-10	2.431E-14	1.669E-14	1.280E-14
09	Ethylbenzene	4.930E-08	3.387E-08	2.597E-08	5.706E-12	3.920E-12	3.006E-12
10	Xylenes (Total)	9.766E-11	5.866E-11	4.498E-11	1.130E-14	6.789E-15	5.206E-15
11	Acenaphthylene	1.148E-15	4.225E-15	2.154E-15	1.329E-19	4.890E-19	2.493E-19
12	Acenaphthene	2.151E-13	2.077E-13	9.291E-14	2.490E-17	2.404E-17	1.075E-17
13	Fluorene	2.361E-14	2.441E-14	2.296E-14	2.733E-18	2.825E-18	2.658E-18
14	Chrysene	4.736E-10	2.400E-09	1.247E-09	5.481E-14	2.778E-13	1.443E-13
15	Benzo(a)anthracene	2.468E-09	1.174E-08	9.480E-09	2.856E-13	1.359E-12	1.097E-12
16	Benzo(b)fluoranthene	1.081E-08	5.957E-08	2.252E-08	1.251E-12	6.895E-12	2.606E-12
17	Benzo(k)fluoranthene	4.101E-11	2.532E-10	1.760E-10	4.747E-15	2.931E-14	2.037E-14
18	Dibenz (a,h)anthracene	9.831E-12	1.740E-11	1.139E-11	1.138E-15	2.014E-15	1.318E-15
19	Indeno(1,2,3-cd)pyrene	2.314E-11	6.976E-11	3.817E-11	2.678E-15	8.074E-15	4.418E-15
20	Benzo(g,h,i)perylene	2.590E-11	9.471E-11	5.704E-11	2.998E-15	1.096E-14	6.602E-15

mg/cm2/day to g/m2/s : (result)/3600/24*10000/1000

APPENDIX 3.8

DETAIL DUST IMPACT RESULTS

Details of Predicted Pollutant Concentrations at ASRs

Scenario			Mitigated (Model Index: T1M)																				
Pollutant			TSP			RSP/PM_{10}						FSP/$PM_{2.5}$											
ASR_ID	Description	Assessment Height (mAG)	Background (µg/m3)	Project Contribution (µg/m3)	Highest Hourly Averaged Conc. (µg/m3)	Background (µg/m3)	Project Contribution (µg/m3)	10th Highest Daily Averaged Conc. (µg/m3)	Background (µg/m3)	Project Contribution (µg/m3)	Annual Averaged Conc. (µg/m3)	Background (µg/m3)	Project Contribution (µg/m3)	10th Highest Daily Averaged Conc. (µg/m3)	Background (µg/m3)	Project Contribution (µg/m3)	19th Highest Daily Averaged Conc. (µg/m3)	Background (µg/m3)	Project Contribution (µg/m3)	36th Highest Daily Averaged Conc. (µg/m3)	Background (µg/m3)	Project Contribution (µg/m3)	Annual Averaged Conc. (µg/m3)
AQO Standard (2014)					500			100			50			75									35
AQO Standard (2022)					500			100			50						50			50			25
KT-A1	Cheong Kat Mansion	1.5	42.6	263.5	306.1	62.0	0.0	62.0	26.2	1.5	27.7	45.6	0.0	45.6	31.0	0.3	31.3	22.6	0.0	22.6	14.1	0.2	14.3
KT-A1a	Cheong Kat Mansion	4.0	42.6	246.5	289.1	62.0	0.0	62.0	26.2	1.3	27.6	45.6	0.0	45.6	31.0	0.2	31.3	22.6	0.0	22.6	14.1	0.2	14.3
KT-A1b	Cheong Kat Mansion	8.0	71.4	155.6	227.0	62.0	0.0	62.0	26.2	1.0	27.3	45.6	0.0	45.6	31.0	0.2	31.2	22.6	0.0	22.6	14.1	0.2	14.2
KT-A1c	Cheong Kat Mansion	12.0	71.4	127.4	198.7	62.0	0.0	62.0	26.2	0.7	27.0	45.6	0.0	45.6	31.0	0.1	31.1	22.6	0.0	22.6	14.1	0.1	14.2
KT-A1d	Cheong Kat Mansion	16.0	71.4	90.9	162.3	62.0	0.0	62.0	26.2	0.6	26.8	45.6	0.0	45.6	31.0	0.1	31.1	22.6	0.0	22.6	14.1	0.1	14.1
KT-A1e	Cheong Kat Mansion	20.0	148.1	0.0	148.1	62.0	0.0	62.0	26.2	0.4	26.7	45.6	0.0	45.6	31.0	0.1	31.1	22.6	0.0	22.6	14.1	0.1	14.1
KT-A1f	Cheong Kat Mansion	30.0	148.1	0.0	148.1	62.0	0.0	62.0	26.2	0.3	26.5	45.4	0.1	45.5	31.0	0.0	31.0	22.6	0.0	22.6	14.1	0.0	14.1
KT-A1g	Cheong Kat Mansion	40.0	148.1	0.0	148.1	61.5	0.5	61.9	26.2	0.2	26.5	45.4	0.1	45.5	31.0	0.0	31.0	22.6	0.0	22.6	14.1	0.0	14.1
KT-A1h	Cheong Kat Mansion	50.0	148.1	0.0	148.1	61.5	0.4	61.8	26.2	0.2	26.4	45.4	0.1	45.5	31.0	0.0	31.0	22.6	0.0	22.6	14.1	0.0	14.1
KT-A1i	Cheong Kat Mansion	60.0	148.1	0.0	148.1	61.5	0.3	61.7	26.2	0.1	26.4	45.4	0.0	45.5	31.0	0.0	31.0	22.6	0.0	22.6	14.1	0.0	14.1
KT-A1j	Cheong Kat Mansion	70.0	148.1	0.0	148.1	61.5	0.2	61.7	26.2	0.1	26.3	45.4	0.0	45.5	31.0	0.0	31.0	22.6	0.0	22.6	14.1	0.0	14.1
KT-A1k	Cheong Kat Mansion	80.0	148.1	0.0	148.1	61.5	0.2	61.7	26.2	0.1	26.3	45.4	0.0	45.5	31.0	0.0	31.0	22.6	0.0	22.6	14.1	0.0	14.1
KT-A1l	Cheong Kat Mansion	90.0	148.1	0.0	148.1	61.5	0.2	61.6	26.2	0.1	26.3	45.4	0.0	45.5	31.0	0.0	31.0	22.6	0.0	22.6	14.1	0.0	14.1
KT-A1m	Cheong Kat Mansion	100.0	148.1	0.0	148.1	61.5	0.2	61.6	26.2	0.1	26.3	45.4	0.0	45.5	31.0	0.0	31.0	22.6	0.0	22.6	14.1	0.0	14.1
KT-A2	The Merton (Block 2)	1.5	71.4	379.5	450.9	57.4	4.9	62.3	26.2	2.1	28.3	43.1	2.5	45.6	31.0	0.4	31.4	22.7	0.0	22.7	14.1	0.3	14.4
KT-A2a	The Merton (Block 2)	4.0	71.4	366.3	437.7	62.0	0.0	62.0	26.2	1.8	28.1	45.6	0.0	45.6	31.0	0.3	31.3	22.6	0.0	22.6	14.1	0.3	14.3
KT-A2b	The Merton (Block 2)	8.0	71.4	323.0	394.4	62.0	0.0	62.0	26.2	1.4	27.6	45.6	0.0	45.6	31.0	0.2	31.3	22.6	0.0	22.6	14.1	0.2	14.3
KT-A2c	The Merton (Block 2)	12.0	71.4	208.3	279.7	62.0	0.0	62.0	26.2	1.0	27.2	45.6	0.0	45.6	31.0	0.2	31.2	22.6	0.0	22.6	14.1	0.2	14.2
KT-A2d	The Merton (Block 2)	16.0	83.0	116.7	199.7	62.0	0.0	62.0	26.2	0.7	27.0	45.6	0.0	45.6	31.0	0.1	31.1	22.6	0.0	22.6	14.1	0.1	14.2
KT-A2e	The Merton (Block 2)	20.0	83.0	93.4	176.4	62.0	0.0	62.0	26.2	0.6	26.8	45.6	0.0	45.6	31.0	0.1	31.1	22.6	0.0	22.6	14.1	0.1	14.1
KT-A2f	The Merton (Block 2)	30.0	148.1	0.0	148.1	62.0	0.0	62.0	26.2	0.3	26.6	45.4	0.1	45.5	31.0	0.1	31.1	22.6	0.0	22.6	14.1	0.1	14.1
KT-A2g	The Merton (Block 2)	40.0	148.1	0.0	148.1	61.5	0.5	62.0	26.2	0.2	26.5	45.4	0.1	45.5	31.0	0.0	31.0	22.6	0.0	22.6	14.1	0.0	14.1
KT-A2h	The Merton (Block 2)	50.0	148.1	0.0	148.1	61.5	0.4	61.9	26.2	0.2	26.4	45.4	0.1	45.5	31.0	0.0	31.0	22.6	0.0	22.6	14.1	0.0	14.1
KT-A2i	The Merton (Block 2)	60.0	148.1	0.0	148.1	61.5	0.3	61.8	26.2	0.1	26.4	45.4	0.1	45.5	31.0	0.0	31.0	22.6	0.0	22.6	14.1	0.0	14.1
KT-A2j	The Merton (Block 2)	70.0	148.1	0.0	148.1	61.5	0.3	61.8	26.2	0.1	26.4	45.4	0.0	45.5	31.0	0.0	31.0	22.6	0.0	22.6	14.1	0.0	14.1
KT-A2k	The Merton (Block 2)	80.0	148.1	0.0	148.1	61.5	0.3	61.7	26.2	0.1	26.3	45.4	0.0	45.5	31.0	0.0	31.0	22.6	0.0	22.6	14.1	0.0	14.1
KT-A2l	The Merton (Block 2)	90.0	148.1	0.0	148.1	61.5	0.2	61.7	26.2	0.1	26.3	45.4	0.0	45.5	31.0	0.0	31.0	22.6	0.0	22.6	14.1	0.0	14.1
KT-A2m	The Merton (Block 2)	100.0	148.1	0.0	148.1	61.5	0.2	61.7	26.2	0.1	26.3	45.4	0.0	45.5	31.0	0.0	31.0	22.6	0.0	22.6	14.1	0.0	14.1
KT-A2n	The Merton (Block 2)	110.0	148.1	0.0	148.1	61.5	0.2	61.6	26.2	0.1	26.3	45.4	0.0	45.5	31.0	0.0	31.0	22.6	0.0	22.6	14.1	0.0	14.1
KT-A2o	The Merton (Block 2)	120.0	148.1	0.0	148.1	61.5	0.2	61.6	26.2	0.1	26.3	45.4	0.0	45.5	31.0	0.0	31.0	22.6	0.0	22.6	14.1	0.0	14.1
KT-A2p	The Merton (Block 2)	130.0	148.1	0.0	148.1	61.5	0.1	61.6	26.2	0.0	26.3	45.4	0.0	45.4	31.0	0.0	31.0	22.6	0.0	22.6	14.1	0.0	14.1
KT-A2q	The Merton (Block 2)	140.0	148.1	0.0	148.1	61.5	0.1	61.6	26.2	0.0	26.3	45.4	0.0	45.4	31.0	0.0	31.0	22.6	0.0	22.6	14.1	0.0	14.1
KT-A2r	The Merton (Block 2)	150.0	148.1	0.0	148.1	61.5	0.1	61.6	26.2	0.0	26.3	45.4	0.0	45.4	31.0	0.0	31.0	22.6	0.0	22.6	14.1	0.0	14.1
KT-A2s	The Merton (Block 2)	160.0	148.1	0.0	148.1	61.5	0.1	61.6	26.2	0.0	26.3	45.4	0.0	45.4	31.0	0.0	31.0	22.6	0.0	22.6	14.1	0.0	14.1
KT-A2t	The Merton (Block 2)	170.0	148.1	0.0	148.1	61.5	0.1	61.6	26.2	0.0	26.3	45.4	0.0	45.4	31.0	0.0	31.0	22.6	0.0	22.6	14.1	0.0	14.1
KT-A2u	The Merton (Block 2)	180.0	148.1	0.0	148.1	61.5	0.1	61.5	26.2	0.0	26.3	45.4	0.0	45.4	31.0	0.0	31.0	22.6	0.0	22.6	14.1	0.0	14.1
KT-A3	Centenary Mansion (Block 1)	1.5	42.6	212.0	254.6	62.0	0.0	62.0	26.2	1.1	27.4	45.6	0.1	45.6	31.0	0.4	31.4	22.7	0.0	22.7	14.1	0.2	14.2
KT-A3a	Centenary Mansion (Block 1)	4.0	42.6	198.1	240.7	62.0	0.0	62.0	26.2	1.1	27.3	45.6	0.1	45.6	31.0	0.3	31.3	22.6	0.0	22.6	14.1	0.2	14.2
KT-A3b	Centenary Mansion (Block 1)	8.0	42.6	150.9	193.5	62.0	0.0	62.0	26.2	0.9	27.1	45.6	0.0	45.6	31.0	0.3	31.3	22.6	0.0	22.6	14.1	0.1	14.2
KT-A3c	Centenary Mansion (Block 1)	12.0	71.4	78.7	150.1	62.0	0.0	62.0	26.2	0.7	26.9	45.6	0.0	45.6	31.0	0.2	31.2	22.6	0.0	22.6	14.1	0.1	14.2
KT-A3d	Centenary Mansion (Block 1)	16.0	148.1	0.0	148.1	62.0	0.0	62.0	26.2	0.5	26.8	45.6	0.0	45.6	31.0	0.1	31.1	22.6	0.0	22.6	14.1	0.1	14.1
KT-A3e	Centenary Mansion (Block 1)	20.0	148.1	0.0	148.1	62.0	0.0	62.0	26.2	0.4	26.7	45.6	0.0	45.6	31.0	0.1	31.1	22.6	0.0	22.6	14.1	0.1	14.1
KT-A3f	Centenary Mansion (Block 1)	30.0	148.1	0.0	148.1	62.0	0.0	62.0	26.2	0.3	26.5	45.6	0.0	45.6	31.0	0.0	31.1	22.6	0.0	22.6	14.1	0.0	14.1
KT-A3g	Centenary Mansion (Block 1)	40.0	148.1	0.0	148.1	62.0	0.0	62.0	26.2	0.2	26.5	45.4	0.1	45.6	31.0	0.0	31.0	22.6	0.0	22.6	14.1	0.0	14.1
KT-A3h	Centenary Mansion (Block 1)	50.0	148.1	0.0	148.1	62.0	0.0	62.0	26.2	0.2	26.4	45.4	0.1	45.5	31.0	0.0	31.0	22.6	0.0	22.6	14.1	0.0	14.1
KT-A3i	Centenary Mansion (Block 1)	60.0	148.1	0.0	148.1	61.5	0.5	61.9	26.2	0.1	26.4	45.4	0.1	45.5	31.0	0.0	31.0	22.6	0.0	22.6	14.1	0.0	14.1
KT-A3j	Centenary Mansion (Block 1)	70.0	148.1	0.0	148.1	61.5	0.4	61.8	26.2	0.1	26.4	45.4	0.1	45.5	31.0	0.0	31.0	22.6	0.0	22.6	14.1	0.0	14.1
KT-A3k	Centenary Mansion (Block 1)	80.0	148.1	0.0	148.1	61.5	0.3	61.7	26.2	0.1	26.3	45.4	0.0	45.5	31.0	0.0	31.0	22.6	0.0	22.6	14.1	0.0	14.1
KT-A3l	Centenary Mansion (Block 1)	90.0	148.1	0.0	148.1	61.5	0.2	61.7	26.2	0.1	26.3	45.4	0.0	45.5	31.0	0.0	31.0	22.6	0.0	22.6	14.1	0.0	14.1
KT-A3m	Centenary Mansion (Block 1)	100.0	148.1	0.0	148.1	61.5	0.2	61.6	26.2	0.1	26.3	45.4	0.0	45.5	31.0	0.0	31.0	22.6	0.0	22.6	14.1	0.0	14.1

Details of Predicted Pollutant Concentrations at ASRs

Scenario			Mitigated (Model Index: T1M)																					
Pollutant			TSP			RSP/PM_{10}							FSP/$PM_{2.5}$											
ASR_ID	Description	Assessment Height (mAG)	Background (µg/m3)	Project Contribution (µg/m3)	Highest Hourly Averaged Conc. (µg/m3)	Background (µg/m3)	Project Contribution (µg/m3)	10th Highest Daily Averaged Conc. (µg/m3)	Background (µg/m3)	Project Contribution (µg/m3)	Annual Averaged Conc. (µg/m3)	Background (µg/m3)	Project Contribution (µg/m3)	10th Highest Daily Averaged Conc. (µg/m3)	Background (µg/m3)	Project Contribution (µg/m3)	19th Highest Daily Averaged Conc. (µg/m3)	Background (µg/m3)	Project Contribution (µg/m3)	36th Highest Daily Averaged Conc. (µg/m3)	Background (µg/m3)	Project Contribution (µg/m3)	Annual Averaged Conc. (µg/m3)
AQO Standard (2014)					500			100			50			75									35
AQO Standard (2022)					500			100			50						50			50			25
KT-A4	Cayman Rise (Block 1)	1.5	71.4	175.8	247.2	57.4	6.8	64.2	26.2	2.1	28.3	45.9	0.0	45.9	31.0	0.9	31.9	22.8	0.0	22.8	14.1	0.3	14.4
KT-A4a	Cayman Rise (Block 1)	4.0	71.4	152.3	223.7	57.4	6.2	63.6	26.2	2.0	28.2	45.9	0.0	45.9	31.0	0.8	31.8	22.8	0.0	22.8	14.1	0.3	14.4
KT-A4b	Cayman Rise (Block 1)	8.0	71.4	101.3	172.7	57.4	4.8	62.1	26.2	1.5	27.8	45.6	0.3	45.9	31.0	0.6	31.6	22.8	0.0	22.8	14.1	0.2	14.3
KT-A4c	Cayman Rise (Block 1)	12.0	83.0	70.6	153.6	62.0	0.0	62.0	26.2	1.1	27.3	45.6	0.2	45.8	31.0	0.4	31.4	22.7	0.0	22.7	14.1	0.2	14.2
KT-A4d	Cayman Rise (Block 1)	16.0	148.1	0.0	148.1	62.0	0.0	62.0	26.2	0.8	27.1	45.6	0.2	45.7	31.0	0.3	31.3	22.7	0.0	22.7	14.1	0.1	14.2
KT-A4e	Cayman Rise (Block 1)	20.0	148.1	0.0	148.1	62.0	0.0	62.0	26.2	0.7	26.9	45.6	0.1	45.7	31.0	0.2	31.2	22.7	0.0	22.7	14.1	0.1	14.2
KT-A4f	Cayman Rise (Block 1)	30.0	148.1	0.0	148.1	62.0	0.0	62.0	26.2	0.4	26.6	45.6	0.1	45.6	31.0	0.1	31.1	22.7	0.0	22.7	14.1	0.1	14.1
KT-A4g	Cayman Rise (Block 1)	40.0	148.1	0.0	148.1	62.0	0.0	62.0	26.2	0.3	26.5	45.4	0.1	45.6	31.0	0.1	31.1	22.7	0.0	22.7	14.1	0.0	14.1
KT-A4h	Cayman Rise (Block 1)	50.0	148.1	0.0	148.1	62.0	0.0	62.0	26.2	0.2	26.4	45.4	0.1	45.5	31.0	0.0	31.0	22.6	0.0	22.6	14.1	0.0	14.1
KT-A4i	Cayman Rise (Block 1)	60.0	148.1	0.0	148.1	61.5	0.4	61.9	26.2	0.1	26.4	45.4	0.1	45.5	31.0	0.0	31.0	22.6	0.0	22.6	14.1	0.0	14.1
KT-A4j	Cayman Rise (Block 1)	70.0	148.1	0.0	148.1	61.5	0.3	61.8	26.2	0.1	26.3	45.4	0.0	45.5	31.0	0.0	31.0	22.6	0.0	22.6	14.1	0.0	14.1
KT-A4k	Cayman Rise (Block 1)	80.0	148.1	0.0	148.1	61.5	0.2	61.7	26.2	0.1	26.3	45.4	0.0	45.5	31.0	0.0	31.0	22.6	0.0	22.6	14.1	0.0	14.1
KT-A4l	Cayman Rise (Block 1)	90.0	148.1	0.0	148.1	61.5	0.2	61.6	26.2	0.1	26.3	45.4	0.0	45.5	31.0	0.0	31.0	22.6	0.0	22.6	14.1	0.0	14.1
KT-A4m	Cayman Rise (Block 1)	100.0	148.1	0.0	148.1	61.5	0.1	61.6	26.2	0.0	26.3	45.4	0.0	45.4	31.0	0.0	31.0	22.6	0.0	22.6	14.1	0.0	14.1
KT-A4n	Cayman Rise (Block 1)	110.0	148.1	0.0	148.1	61.5	0.1	61.6	26.2	0.0	26.3	45.4	0.0	45.4	31.0	0.0	31.0	22.6	0.0	22.6	14.1	0.0	14.1
KT-A4o	Cayman Rise (Block 1)	120.0	148.1	0.0	148.1	61.5	0.1	61.6	26.2	0.0	26.3	45.4	0.0	45.4	31.0	0.0	31.0	22.6	0.0	22.6	14.1	0.0	14.1
KT-A5	Bayanihan Kennedy Town Centre	1.5	71.4	268.4	339.8	66.5	3.2	69.8	26.2	7.2	33.5	45.6	1.1	46.6	31.0	2.0	33.1	23.9	0.0	23.9	14.1	1.2	15.3
KT-A5a	Bayanihan Kennedy Town Centre	4.0	71.4	267.0	338.4	66.5	2.7	69.2	26.2	6.4	32.7	45.6	0.9	46.5	31.0	1.8	32.8	23.7	0.0	23.7	14.1	1.1	15.1
KT-A5b	Bayanihan Kennedy Town Centre	8.0	71.4	180.3	251.7	57.4	9.4	66.8	26.2	4.6	30.8	45.6	0.8	46.3	31.0	1.2	32.2	23.4	0.0	23.4	14.1	0.8	14.8
KT-A5c	Bayanihan Kennedy Town Centre	12.0	83.0	101.5	184.5	57.4	6.9	64.3	26.2	3.0	29.3	45.6	0.6	46.1	31.0	0.7	31.7	23.2	0.0	23.2	14.1	0.5	14.6
KT-A5d	Bayanihan Kennedy Town Centre	16.0	83.0	76.3	159.3	62.0	1.0	63.0	26.2	2.0	28.3	45.6	0.4	46.0	31.0	0.5	31.5	23.1	0.0	23.1	14.1	0.3	14.4
KT-A5e	Bayanihan Kennedy Town Centre	20.0	148.1	0.0	148.1	62.0	0.7	62.7	26.2	1.4	27.7	45.6	0.3	45.9	31.0	0.3	31.3	23.0	0.0	23.0	14.1	0.2	14.3
KT-A6	Kennedy Town Jockey Club Clinic	1.5	40.0	287.7	327.7	66.5	2.0	68.5	26.2	5.4	31.7	45.9	0.4	46.4	31.0	2.0	33.0	23.6	0.0	23.6	14.1	0.9	15.0
KT-A6a	Kennedy Town Jockey Club Clinic	4.0	40.0	311.3	351.3	48.9	19.3	68.2	26.2	5.5	31.7	45.9	0.3	46.3	31.0	2.2	33.2	23.8	0.0	23.8	14.1	0.9	15.0
KT-A6b	Kennedy Town Jockey Club Clinic	8.0	71.4	167.7	239.1	57.4	10.3	67.7	26.2	3.9	30.1	45.9	0.2	46.2	31.0	1.3	32.3	23.3	0.0	23.3	14.1	0.6	14.7
KT-A6c	Kennedy Town Jockey Club Clinic	12.0	71.4	105.9	177.2	57.4	6.7	64.0	26.2	2.6	28.9	45.9	0.1	46.1	31.0	0.7	31.7	23.1	0.0	23.1	14.1	0.4	14.5
KT-A7	SKH Lui Ming Choi Memorial Primary School	1.5	71.4	156.9	228.3	57.4	6.6	64.0	26.2	2.0	28.2	45.9	0.0	45.9	31.0	0.8	31.8	22.8	0.0	22.8	14.1	0.3	14.4
KT-A7a	SKH Lui Ming Choi Memorial Primary School	4.0	71.4	129.6	201.0	57.4	6.0	63.4	26.2	1.9	28.1	45.6	0.4	45.9	31.0	0.8	31.8	22.8	0.0	22.8	14.1	0.3	14.4
KT-A7b	SKH Lui Ming Choi Memorial Primary School	8.0	83.0	83.7	166.7	57.4	4.9	62.2	26.2	1.5	27.7	45.6	0.3	45.9	31.0	0.6	31.6	22.8	0.0	22.8	14.1	0.2	14.3
KT-A7c	SKH Lui Ming Choi Memorial Primary School	12.0	83.0	70.1	153.1	62.0	0.0	62.0	26.2	1.1	27.3	45.6	0.2	45.8	31.0	0.4	31.4	22.7	0.0	22.7	14.1	0.2	14.2
KT-A7d	SKH Lui Ming Choi Memorial Primary School	16.0	148.1	0.0	148.1	62.0	0.0	62.0	26.2	0.8	27.1	45.6	0.2	45.7	31.0	0.3	31.3	22.7	0.0	22.7	14.1	0.1	14.2
KT-A7e	SKH Lui Ming Choi Memorial Primary School	20.0	148.1	0.0	148.1	62.0	0.0	62.0	26.2	0.6	26.9	45.6	0.1	45.7	31.0	0.2	31.2	22.7	0.0	22.7	14.1	0.1	14.2
KT-A8	No. 60 Victoria Road	1.5	38.6	200.8	239.4	61.2	5.4	66.6	26.2	6.2	32.4	45.6	0.6	46.2	31.0	1.1	32.1	23.8	0.0	23.8	14.1	1.1	15.2
KT-A8a	No. 60 Victoria Road	4.0	38.6	200.7	239.3	61.2	5.3	66.5	26.2	6.0	32.2	45.6	0.6	46.1	31.0	1.1	32.1	23.8	0.0	23.8	14.1	1.1	15.1
KT-A8b	No. 60 Victoria Road	8.0	70.7	142.8	213.5	61.2	4.4	65.6	26.2	4.9	31.1	45.6	0.5	46.0	31.0	0.8	31.8	23.6	0.0	23.6	14.1	0.8	14.9
KT-A8c	No. 60 Victoria Road	12.0	70.7	84.6	155.3	61.2	3.7	64.9	26.2	3.6	29.8	45.6	0.4	46.0	31.0	0.6	31.6	23.4	0.0	23.4	14.1	0.6	14.7
KT-A8d	No. 60 Victoria Road	16.0	148.1	0.0	148.1	62.0	2.4	64.3	26.2	2.6	28.8	45.6	0.4	45.9	31.0	0.4	31.4	23.3	0.0	23.3	14.1	0.4	14.5
KT-A8e	No. 60 Victoria Road	20.0	148.1	0.0	148.1	62.0	2.0	64.0	26.2	1.8	28.1	45.6	0.3	45.9	31.0	0.2	31.2	23.1	0.0	23.1	14.1	0.3	14.4
KT-A8f	No. 60 Victoria Road	30.0	148.1	0.0	148.1	62.0	1.2	63.2	26.2	0.9	27.1	45.4	0.3	45.7	31.0	0.1	31.1	22.9	0.0	22.9	14.1	0.2	14.2
KT-A8g	No. 60 Victoria Road	40.0	148.1	0.0	148.1	62.0	0.6	62.6	26.2	0.5	26.7	45.4	0.2	45.6	31.0	0.0	31.0	22.8	0.0	22.8	14.1	0.1	14.1
KT-A8h	No. 60 Victoria Road	50.0	148.1	0.0	148.1	61.5	0.8	62.2	26.2	0.3	26.5	45.4	0.1	45.6	31.0	0.0	31.0	22.7	0.0	22.7	14.1	0.0	14.1
KT-A8i	No. 60 Victoria Road	60.0	148.1	0.0	148.1	61.5	0.5	62.0	26.2	0.2	26.4	45.4	0.1	45.5	31.0	0.0	31.0	22.7	0.0	22.7	14.1	0.0	14.1
KT-A8j	No. 60 Victoria Road	70.0	148.1	0.0	148.1	61.5	0.3	61.8	26.2	0.1	26.3	45.4	0.1	45.5	31.0	0.0	31.0	22.6	0.0	22.6	14.1	0.0	14.1
KT-A8k	No. 60 Victoria Road	80.0	148.1	0.0	148.1	61.5	0.2	61.7	26.2	0.1	26.3	45.4	0.0	45.5	31.0	0.0	31.0	22.6	0.0	22.6	14.1	0.0	14.1
KT-A8l	No. 60 Victoria Road	90.0	148.1	0.0	148.1	61.5	0.2	61.6	26.2	0.0	26.3	45.4	0.0	45.5	31.0	0.0	31.0	22.6	0.0	22.6	14.1	0.0	14.1
KT-A8m	No. 60 Victoria Road	100.0	148.1	0.0	148.1	61.5	0.1	61.6	26.2	0.0	26.3	45.4	0.0	45.4	31.0	0.0	31.0	22.6	0.0	22.6	14.1	0.0	14.1
KT-A9	HKSKH St. Luke's Church	1.5	40.0	255.5	295.5	66.5	2.5	69.0	26.2	6.6	32.8	45.9	0.6	46.5	31.0	2.3	33.3	23.8	0.0	23.8	14.1	1.1	15.2
KT-A9a	HKSKH St. Luke's Church	4.0	40.0	281.9	321.9	66.5	2.1	68.6	26.2	6.4	32.7	45.9	0.4	46.4	31.0	2.3	33.3	23.6	0.0	23.6	14.1	1.1	15.1
KT-A9b	HKSKH St. Luke's Church	8.0	71.4	166.9	238.3	57.4	10.3	67.7	26.2	4.6	30.8	45.9	0.3	46.2	31.0	1.4	32.4	23.4	0.0	23.4	14.1	0.8	14.8

Details of Predicted Pollutant Concentrations at ASRs

Scenario			Mitigated (Model Index: T1M)																					
Pollutant			TSP			RSP/PM_{10}							FSP/$PM_{2.5}$											
ASR_ID	Description	Assessment Height (mAG)	Background (µg/m3)	Project Contribution (µg/m3)	Highest Hourly Averaged Conc. (µg/m3)	Background (µg/m3)	Project Contribution (µg/m3)	10th Highest Daily Averaged Conc. (µg/m3)	Background (µg/m3)	Project Contribution (µg/m3)	Annual Averaged Conc. (µg/m3)	Background (µg/m3)	Project Contribution (µg/m3)	10th Highest Daily Averaged Conc. (µg/m3)	Background (µg/m3)	Project Contribution (µg/m3)	19th Highest Daily Averaged Conc. (µg/m3)	Background (µg/m3)	Project Contribution (µg/m3)	36th Highest Daily Averaged Conc. (µg/m3)	Background (µg/m3)	Project Contribution (µg/m3)	Annual Averaged Conc. (µg/m3)
AQO Standard (2014)					500			100			50			75									35
AQO Standard (2022)					500			100			50						50			50			25
KT-A10	Cadogan	1.5	42.6	175.2	217.7	62.0	0.0	62.0	26.2	0.8	27.0	45.6	0.0	45.6	31.0	0.2	31.2	22.6	0.0	22.6	14.1	0.1	14.2
KT-A10a	Cadogan	4.0	42.6	163.6	206.2	62.0	0.0	62.0	26.2	0.7	27.0	45.6	0.0	45.6	31.0	0.2	31.2	22.6	0.0	22.6	14.1	0.1	14.2
KT-A10b	Cadogan	8.0	42.6	126.1	168.7	62.0	0.0	62.0	26.2	0.6	26.9	45.6	0.0	45.6	31.0	0.1	31.1	22.6	0.0	22.6	14.1	0.1	14.2
KT-A10c	Cadogan	12.0	148.1	0.3	148.4	62.0	0.0	62.0	26.2	0.5	26.7	45.6	0.0	45.6	31.0	0.1	31.1	22.6	0.0	22.6	14.1	0.1	14.1
KT-A10d	Cadogan	16.0	148.1	0.0	148.1	62.0	0.0	62.0	26.2	0.4	26.6	45.6	0.0	45.6	31.0	0.1	31.1	22.6	0.0	22.6	14.1	0.1	14.1
KT-A10e	Cadogan	20.0	148.1	0.0	148.1	62.0	0.0	62.0	26.2	0.3	26.6	45.6	0.0	45.6	31.0	0.1	31.1	22.6	0.0	22.6	14.1	0.1	14.1
KT-A10f	Cadogan	30.0	148.1	0.0	148.1	62.0	0.0	62.0	26.2	0.2	26.5	45.6	0.0	45.6	31.0	0.0	31.0	22.6	0.0	22.6	14.1	0.0	14.1
KT-A10g	Cadogan	40.0	148.1	0.0	148.1	62.0	0.0	62.0	26.2	0.2	26.4	45.4	0.1	45.5	31.0	0.0	31.0	22.6	0.0	22.6	14.1	0.0	14.1
KT-A10h	Cadogan	50.0	148.1	0.0	148.1	62.0	0.0	62.0	26.2	0.2	26.4	45.4	0.1	45.5	31.0	0.0	31.0	22.6	0.0	22.6	14.1	0.0	14.1
KT-A10i	Cadogan	60.0	148.1	0.0	148.1	61.5	0.4	61.9	26.2	0.1	26.4	45.4	0.1	45.5	31.0	0.0	31.0	22.6	0.0	22.6	14.1	0.0	14.1
KT-A10j	Cadogan	70.0	148.1	0.0	148.1	61.5	0.3	61.8	26.2	0.1	26.3	45.4	0.0	45.5	31.0	0.0	31.0	22.6	0.0	22.6	14.1	0.0	14.1
KT-A10k	Cadogan	80.0	148.1	0.0	148.1	61.5	0.2	61.7	26.2	0.1	26.3	45.4	0.0	45.5	31.0	0.0	31.0	22.6	0.0	22.6	14.1	0.0	14.1
KT-A10l	Cadogan	90.0	148.1	0.0	148.1	61.5	0.2	61.7	26.2	0.1	26.3	45.4	0.0	45.5	31.0	0.0	31.0	22.6	0.0	22.6	14.1	0.0	14.1
KT-A10m	Cadogan	100.0	148.1	0.0	148.1	61.5	0.2	61.6	26.2	0.1	26.3	45.4	0.0	45.5	31.0	0.0	31.0	22.6	0.0	22.6	14.1	0.0	14.1
KT-A10n	Cadogan	110.0	148.1	0.0	148.1	61.5	0.1	61.6	26.2	0.1	26.3	45.4	0.0	45.4	31.0	0.0	31.0	22.6	0.0	22.6	14.1	0.0	14.1
KT-A10o	Cadogan	120.0	148.1	0.0	148.1	61.5	0.1	61.6	26.2	0.0	26.3	45.4	0.0	45.4	31.0	0.0	31.0	22.6	0.0	22.6	14.1	0.0	14.1
KT-A10p	Cadogan	130.0	148.1	0.0	148.1	61.5	0.1	61.6	26.2	0.0	26.3	45.4	0.0	45.4	31.0	0.0	31.0	22.6	0.0	22.6	14.1	0.0	14.1
KT-A10q	Cadogan	140.0	148.1	0.0	148.1	61.5	0.1	61.5	26.2	0.0	26.3	45.4	0.0	45.4	31.0	0.0	31.0	22.6	0.0	22.6	14.1	0.0	14.1
P01	Cadogan Street Pet Garden	1.5	71.4	318.5	389.9	66.5	1.0	67.5	26.2	5.2	31.4	45.6	0.8	46.4	31.0	1.5	32.5	23.3	0.0	23.3	14.1	0.8	14.9
P02	Cadogan Street Pet Garden	1.5	71.4	267.8	339.2	66.5	0.6	67.1	26.2	4.2	30.4	45.6	0.7	46.2	31.0	1.4	32.4	23.2	0.0	23.2	14.1	0.7	14.7
P03	Cadogan Street Pet Garden	1.5	71.4	303.0	374.4	66.5	0.7	67.2	26.2	4.2	30.5	45.6	0.7	46.2	31.0	1.4	32.4	23.1	0.0	23.1	14.1	0.7	14.7
P04	Cadogan Street Pet Garden	1.5	42.6	296.9	339.5	66.5	0.5	67.0	26.2	3.8	30.0	43.1	2.9	46.0	31.0	1.3	32.3	23.1	0.0	23.1	14.1	0.6	14.7
P10	Cadogan Street Temporary Garden	1.5	71.4	255.0	326.3	57.4	6.9	64.3	26.2	3.4	29.6	45.6	0.6	46.1	31.0	0.7	31.7	23.2	0.0	23.2	14.1	0.5	14.6
P11	Cadogan Street Temporary Garden	1.5	71.4	311.5	382.9	66.5	1.1	67.7	26.2	4.1	30.4	43.1	3.1	46.2	31.0	1.3	32.3	23.2	0.0	23.2	14.1	0.7	14.7
P12	Cadogan Street Temporary Garden	1.5	71.4	308.4	379.7	66.5	1.8	68.3	26.2	4.3	30.5	45.9	0.3	46.3	31.0	1.2	32.2	23.4	0.0	23.4	14.1	0.7	14.8
P13	Cadogan Street Temporary Garden	1.5	71.4	259.5	330.8	57.4	8.8	66.2	26.2	3.6	29.8	45.9	0.3	46.2	31.0	1.0	32.0	23.2	0.0	23.2	14.1	0.6	14.6
P14	Cadogan Street Temporary Garden	1.5	42.6	235.5	278.1	62.0	0.1	62.1	26.2	2.2	28.4	45.6	0.3	45.9	31.0	0.7	31.7	22.8	0.0	22.8	14.1	0.3	14.4
P15	Cadogan Street Temporary Garden	1.5	42.6	258.6	301.2	57.4	6.5	63.9	26.2	2.3	28.6	45.6	0.4	46.0	31.0	0.9	31.9	22.8	0.0	22.8	14.1	0.4	14.4
P16	Cadogan Street Temporary Garden	1.5	42.6	282.9	325.4	57.4	9.1	66.4	26.2	3.0	29.3	45.9	0.1	46.0	31.0	1.1	32.2	22.9	0.0	22.9	14.1	0.5	14.5

APPENDIX 3.9

DETAIL RESULTS FOR CRITERIA POLLUTANTS HEALTH RISKS

Health Impact Assessment Criteria Pollutants Results **Short-term RSP**

I(KTDW)	=	The absolute number of instances of mortality or morbidity cases attributed to air pollution emissions from carrying out of the Kennedy Town decontamination works
ΔConc	=	Change in concentration of the criteria pollutant due to the carrying out of the project
AP	=	Attributable proportion, that is, the number of hospital admissions or deaths that can be a attributed to a concentration increase of 10 μg/m3 of the criteria pollutant
Pop(KTDW)	=	Population of area affected by pollutant emissions due to project. In this case the 500m study boundary
I(HK)	=	Total instances of hospital admissions or death from cardiopulmonary or respiratory causes for all of Hong Kong
Pop(HK)	=	Total population of Hong Kong
I(E)	=	Total instances of hospital admissions or death from cardiopulmonary or respiratory causes due to a change in the air pollution concentration of 10μg/m3

(Equation 1) $I(KTDW) = \frac{\Delta Conc}{10\ \mu g/m3} \times AP \times Pop(KTDW) \times \frac{I(HK)}{Pop(HK)}$

(Equation 2) $AP = \frac{ER \times P}{RR \times P}$

(Equation 3) $I(E) = I(HK) \times AP$

(Equation 4) Per 100,000 population = I(HK)/Pop(HK)*100000

Short-Term RSP

Excess Risk (ER) of short-term mortality and morbidity attributable to an increase of 10 μg/m3 of air pollutant (95% confidence interval)

Air Pollutant	All causes Mortality	Cardiovascular Mortality	Respiratory Mortality	Cardiovascular Morbidity	Respiratory Morbidity	Note
RSP	0.0051	0.0063	0.0069	0.0058	0.0060	
RR	1.0051	1.0063	1.0069	1.0058	1.0060	
AP	0.00507	0.00626	0.00685	0.00577	0.00596	*(Equation 2)*
$I_{(HK)}$	44,849	10,051	10,653	163,461	188,101	*(Note 1)*
I(E)	227	63	73	943	1121	*(Equation 3)*
Per 100,000 population	**611**	**137**	**145**	**2228**	**2564**	*(Equation 4)*

(Note 1) Numbers of in-patient discharges in hospitals for cardiovascular or respiratory disease
In HK in 2016, numbers of in-patient discharges of cardiovascular diseases in hospitals (ICD10:I00-I99) = 163,461
In HK in 2016, numbers of in-patient discharges of respiratory diseases in hospitals (ICD10:J00-J99) = 188,101
In HK in 2016, numbers of deaths in hospitals for all causes = 46,662; numbers of deaths in hospital from external causes of morbidity and mortality = 1,813. Hence, total number of natural deaths in
In HK in 2016, numbers of deaths in hospitals from cardiovascular diseases (ICD10:I00-I99) = 10,051; numbers of deaths in hospital from respiratory diseases (ICD10:J00-J99) = 10,653. Hence, total number
In HK in 2016, numbers of deaths in hospitals from Malignant Neoplasm of trachea, bronchus and lung (ICD10:C33-C34) = 3,780

Referenced from "Tables on Health Status and Health Services 2016"

Pop(KTDW)	SUM	47,238
From Central and Western Districts A06-A08 Census 2016	A06	17,204
	A07	15,517
	A08	14,517

Pop(HK)	
From Census 2016	7,336,585

I(KTDW) / Pop(KTDW) *100000 (per 100,000 Population)

	All causes mortality	Cardiovascular Mortality	Respiratory Mortality	Cardiovascular Morbidity	Respiratory morbidity
MIN	**8.30E-02**	**2.30E-02**	**2.66E-02**	**3.44E-01**	**4.09E-01**
MAX	**8.22E+00**	**2.28E+00**	**2.64E+00**	**3.4E+01**	**4.05E+01**
AVERAGE	**2.24E+00**	**6.20E-01**	**7.19E-01**	**9.30E+00**	**1.10E+01**

ASR	Flagpole Height (mAG)	ΔConc (Maximum in 24-hr)		I(KTDW) (Equation 1) All causes mortality	Cardiovascular Mortality	Respiratory Mortality	Cardiovascular Morbidity	Respiratory morbidity		Relative Increase (I(KTDW / Pop(KTDW)) All causes mortality	Cardiovascular Mortality	Respiratory Mortality	Cardiovascular Morbidity	Respiratory morbidity
MIN		**0.27**	**MIN**	**0.04**	**0.01**	**0.01**	**0.16**	**0.19**	**MIN**	**8.30E-07**	**2.30E-07**	**2.66E-07**	**3.44E-06**	**4.09E-06**
MAX		**26.53**	**MAX**	**3.88**	**1.07**	**1.25**	**16.11**	**19.15**	**MAX**	**8.22E-05**	**2.28E-05**	**2.64E-05**	**3.41E-04**	**4.05E-04**
AVERAGE		**7.23**	**AVERAGE**	**1.06**	**0.29**	**0.34**	**4.39**	**5.22**	**AVERAGE**	**1.91E-05**	**5.29E-06**	**6.14E-06**	**7.93E-05**	**9.43E-05**
KT-A1	1.5	19.41		2.84	0.79	0.91	11.79	14.01		6.02E-05	1.66E-05	1.93E-05	2.50E-04	2.97E-04
KT-A1a	4	18.41		2.69	0.75	0.86	11.18	13.29		5.70E-05	1.58E-05	1.83E-05	2.37E-04	2.81E-04
KT-A1b	8	12.90		1.89	0.52	0.61	7.83	9.31		4.00E-05	1.11E-05	1.28E-05	1.66E-04	1.97E-04
KT-A1c	12	8.08		1.18	0.33	0.38	4.90	5.83		2.50E-05	6.93E-06	8.03E-06	1.04E-04	1.23E-04
KT-A1d	16	6.02		0.88	0.24	0.28	3.66	4.35		1.87E-05	5.16E-06	5.99E-06	7.74E-05	9.20E-05
KT-A1e	20	5.20		0.76	0.21	0.24	3.16	3.75		1.61E-05	4.46E-06	5.17E-06	6.68E-05	7.94E-05
KT-A1f	30	3.78		0.55	0.15	0.18	2.30	2.73		1.17E-05	3.24E-06	3.76E-06	4.86E-05	5.78E-05
KT-A1g	40	2.88		0.42	0.12	0.14	1.75	2.08		8.93E-06	2.47E-06	2.86E-06	3.70E-05	4.40E-05
KT-A1h	50	2.25		0.33	0.09	0.11	1.37	1.63		6.98E-06	1.93E-06	2.24E-06	2.90E-05	3.44E-05
KT-A1i	60	1.80		0.26	0.07	0.08	1.09	1.30		5.58E-06	1.54E-06	1.79E-06	2.31E-05	2.75E-05
KT-A1j	70	1.46		0.21	0.06	0.07	0.88	1.05		4.51E-06	1.25E-06	1.45E-06	1.87E-05	2.23E-05
KT-A1k	80	1.19		0.17	0.05	0.06	0.72	0.86		3.68E-06	1.02E-06	1.18E-06	1.53E-05	1.82E-05
KT-A1l	90	0.97		0.14	0.04	0.05	0.59	0.70		3.02E-06	8.35E-07	9.69E-07	1.25E-05	1.49E-05
KT-A1m	100	0.80		0.12	0.03	0.04	0.49	0.58		2.48E-06	6.87E-07	7.97E-07	1.03E-05	1.22E-05
KT-A2	1.5	18.05		2.64	0.73	0.85	10.96	13.03		5.59E-05	1.55E-05	1.79E-05	2.32E-04	2.76E-04
KT-A2a	4	16.29		2.38	0.66	0.77	9.89	11.76		5.05E-05	1.40E-05	1.62E-05	2.09E-04	2.49E-04
KT-A2b	8	12.56		1.84	0.51	0.59	7.63	9.06		3.89E-05	1.08E-05	1.25E-05	1.61E-04	1.92E-04
KT-A2c	12	9.65		1.41	0.39	0.45	5.86	6.97		2.99E-05	8.28E-06	9.60E-06	1.24E-04	1.47E-04
KT-A2d	16	7.60		1.11	0.31	0.36	4.61	5.48		2.35E-05	6.51E-06	7.56E-06	9.77E-05	1.16E-04
KT-A2e	20	6.11		0.89	0.25	0.29	3.71	4.41		1.89E-05	5.24E-06	6.08E-06	7.86E-05	9.34E-05
KT-A2f	30	3.93		0.58	0.16	0.18	2.39	2.84		1.22E-05	3.37E-06	3.91E-06	5.05E-05	6.00E-05
KT-A2g	40	2.79		0.41	0.11	0.13	1.70	2.02		8.66E-06	2.40E-06	2.78E-06	3.59E-05	4.27E-05
KT-A2h	50	2.10		0.31	0.08	0.10	1.27	1.51		6.50E-06	1.80E-06	2.09E-06	2.70E-05	3.20E-05
KT-A2i	60	1.63		0.24	0.07	0.08	0.99	1.17		5.04E-06	1.39E-06	1.62E-06	2.09E-05	2.48E-05
KT-A2j	70	1.29		0.19	0.05	0.06	0.78	0.93		3.99E-06	1.10E-06	1.28E-06	1.66E-05	1.97E-05
KT-A2k	80	1.04		0.15	0.04	0.05	0.63	0.75		3.21E-06	8.89E-07	1.03E-06	1.33E-05	1.58E-05
KT-A2l	90	0.84		0.12	0.03	0.04	0.51	0.61		2.61E-06	7.23E-07	8.38E-07	1.08E-05	1.29E-05
KT-A2m	100	0.69		0.10	0.03	0.03	0.42	0.50		2.14E-06	5.93E-07	6.87E-07	8.89E-06	1.06E-05
KT-A2n	110	0.59		0.09	0.02	0.03	0.36	0.43		1.83E-06	5.07E-07	5.88E-07	7.60E-06	9.04E-06
KT-A2o	120	0.53		0.08	0.02	0.02	0.32	0.38		1.63E-06	4.51E-07	5.22E-07	6.75E-06	8.03E-06
KT-A2p	130	0.47		0.07	0.02	0.02	0.28	0.34		1.45E-06	4.01E-07	4.65E-07	6.01E-06	7.14E-06
KT-A2q	140	0.42		0.06	0.02	0.02	0.25	0.30		1.29E-06	3.58E-07	4.15E-07	5.36E-06	6.37E-06
KT-A2r	150	0.37		0.05	0.02	0.02	0.23	0.27		1.15E-06	3.19E-07	3.70E-07	4.79E-06	5.69E-06
KT-A2s	160	0.33		0.05	0.01	0.02	0.20	0.24		1.03E-06	2.86E-07	3.31E-07	4.28E-06	5.09E-06
KT-A2t	170	0.30		0.04	0.01	0.01	0.18	0.22		9.25E-07	2.56E-07	2.97E-07	3.84E-06	4.56E-06
KT-A2u	180	0.27		0.04	0.01	0.01	0.16	0.19		8.30E-07	2.30E-07	2.66E-07	3.44E-06	4.09E-06
KT-A3	1.5	14.30		2.09	0.58	0.67	8.68	10.32		4.43E-05	1.23E-05	1.42E-05	1.84E-04	2.19E-04
KT-A3a	4	13.13		1.92	0.53	0.62	7.98	9.48		4.07E-05	1.13E-05	1.31E-05	1.69E-04	2.01E-04
KT-A3b	8	10.82		1.58	0.44	0.51	6.57	7.81		3.35E-05	9.28E-06	1.08E-05	1.39E-04	1.65E-04
KT-A3c	12	8.21		1.20	0.33	0.39	4.99	5.93		2.55E-05	7.04E-06	8.17E-06	1.06E-04	1.25E-04
KT-A3d	16	6.27		0.92	0.25	0.29	3.81	4.53		1.94E-05	5.38E-06	6.24E-06	8.06E-05	9.58E-05
KT-A3e	20	5.00		0.73	0.20	0.23	3.03	3.61		1.55E-05	4.29E-06	4.97E-06	6.42E-05	7.64E-05
KT-A3f	30	3.17		0.46	0.13	0.15	1.92	2.28		9.81E-06	2.71E-06	3.15E-06	4.07E-05	4.84E-05
KT-A3g	40	2.38		0.35	0.10	0.11	1.44	1.72		7.37E-06	2.04E-06	2.36E-06	3.06E-05	3.63E-05
KT-A3h	50	1.96		0.29	0.08	0.09	1.19	1.42		6.09E-06	1.68E-06	1.95E-06	2.52E-05	3.00E-05
KT-A3i	60	1.63		0.24	0.07	0.08	0.99	1.17		5.04E-06	1.39E-06	1.62E-06	2.09E-05	2.48E-05
KT-A3j	70	1.34		0.20	0.05	0.06	0.82	0.97		4.17E-06	1.15E-06	1.34E-06	1.73E-05	2.06E-05
KT-A3k	80	1.11		0.16	0.04	0.05	0.67	0.80		3.44E-06	9.51E-07	1.10E-06	1.43E-05	1.70E-05
KT-A3l	90	0.91		0.13	0.04	0.04	0.55	0.66		2.83E-06	7.83E-07	9.08E-07	1.17E-05	1.39E-05
KT-A3m	100	0.75		0.11	0.03	0.04	0.46	0.54		2.32E-06	6.43E-07	7.46E-07	9.64E-06	1.15E-05
KT-A4	1.5	12.62		1.85	0.51	0.59	7.66	9.11		3.91E-05	1.08E-05	1.25E-05	1.62E-04	1.93E-04
KT-A4a	4	11.30		1.65	0.46	0.53	6.86	8.16		3.50E-05	9.69E-06	1.12E-05	1.45E-04	1.73E-04
KT-A4b	8	8.42		1.23	0.34	0.40	5.11	6.08		2.61E-05	7.22E-06	8.38E-06	1.08E-04	1.29E-04
KT-A4c	12	5.70		0.83	0.23	0.27	3.46	4.11		1.77E-05	4.89E-06	5.67E-06	7.32E-05	8.71E-05
KT-A4d	16	4.68		0.68	0.19	0.22	2.84	3.38		1.45E-05	4.01E-06	4.65E-06	6.01E-05	7.15E-05
KT-A4e	20	3.99		0.58	0.16	0.19	2.42	2.88		1.24E-05	3.42E-06	3.96E-06	5.12E-05	6.09E-05
KT-A4f	30	2.84		0.42	0.12	0.13	1.72	2.05		8.80E-06	2.44E-06	2.82E-06	3.65E-05	4.34E-05
KT-A4g	40	2.06		0.30	0.08	0.10	1.25	1.49		6.40E-06	1.77E-06	2.05E-06	2.65E-05	3.15E-05
KT-A4h	50	1.51		0.22	0.06	0.07	0.92	1.09		4.69E-06	1.30E-06	1.50E-06	1.94E-05	2.31E-05
KT-A4i	60	1.12		0.16	0.05	0.05	0.68	0.81		3.48E-06	9.63E-07	1.12E-06	1.44E-05	1.72E-05
KT-A4j	70	0.85		0.12	0.03	0.04	0.52	0.61		2.63E-06	7.28E-07	8.44E-07	1.09E-05	1.30E-05
KT-A4k	80	0.65		0.10	0.03	0.03	0.40	0.47		2.03E-06	5.61E-07	6.50E-07	8.41E-06	9.99E-06
KT-A4l	90	0.54		0.08	0.02	0.03	0.33	0.39		1.66E-06	4.60E-07	5.34E-07	6.90E-06	8.20E-06
KT-A4m	100	0.46		0.07	0.02	0.02	0.28	0.33		1.42E-06	3.93E-07	4.56E-07	5.89E-06	7.00E-06
KT-A4n	110	0.39		0.06	0.02	0.02	0.24	0.28		1.22E-06	3.38E-07	3.92E-07	5.07E-06	6.03E-06
KT-A4o	120	0.34		0.05	0.01	0.02	0.21	0.25		1.06E-06	2.93E-07	3.40E-07	4.39E-06	5.22E-06
KT-A5	1.5	19.24		2.82	0.78	0.90	11.69	13.89		5.96E-05	1.65E-05	1.91E-05	2.47E-04	2.94E-04
KT-A5a	4	17.25		2.53	0.70	0.81	10.48	12.45		5.35E-05	1.48E-05	1.72E-05	2.22E-04	2.64E-04
KT-A5b	8	11.85		1.73	0.48	0.56	7.20	8.55		3.67E-05	1.02E-05	1.18E-05	1.52E-04	1.81E-04
KT-A5c	12	7.73		1.13	0.31	0.36	4.70	5.58		2.40E-05	6.63E-06	7.69E-06	9.94E-05	1.18E-04
KT-A5d	16	6.11		0.89	0.25	0.29	3.71	4.41		1.89E-05	5.24E-06	6.08E-06	7.86E-05	9.34E-05
KT-A5e	20	4.82		0.71	0.20	0.23	2.93	3.48		1.50E-05	4.14E-06	4.80E-06	6.20E-05	7.37E-05
KT-A6	1.5	18.87		2.76	0.76	0.89	11.46	13.62		5.85E-05	1.62E-05	1.88E-05	2.43E-04	2.88E-04
KT-A6a	4	19.60		2.87	0.79	0.92	11.90	14.15		6.07E-05	1.68E-05	1.95E-05	2.52E-04	2.99E-04
KT-A6b	8	13.66		2.00	0.55	0.64	8.30	9.86		4.23E-05	1.17E-05	1.36E-05	1.76E-04	2.09E-04
KT-A6c	12	9.01		1.32	0.37	0.42	5.47	6.51		2.79E-05	7.73E-06	8.97E-06	1.16E-04	1.38E-04
KT-A7	1.5	9.49		1.39	0.38	0.45	5.76	6.85		2.94E-05	8.14E-06	9.44E-06	1.22E-04	1.45E-04
KT-A7a	4	8.49		1.24	0.34	0.40	5.16	6.13		2.63E-05	7.28E-06	8.45E-06	1.09E-04	1.30E-04
KT-A7b	8	6.77		0.99	0.27	0.32	4.11	4.89		2.10E-05	5.81E-06	6.74E-06	8.71E-05	1.03E-04
KT-A7c	12	5.51		0.81	0.22	0.26	3.35	3.98		1.71E-05	4.72E-06	5.48E-06	7.08E-05	8.42E-05
KT-A7d	16	4.53		0.66	0.18	0.21	2.75	3.27		1.41E-05	3.89E-06	4.51E-06	5.83E-05	6.93E-05
KT-A7e	20	3.82		0.56	0.15	0.18	2.32	2.76		1.18E-05	3.27E-06	3.80E-06	4.91E-05	5.84E-05

Health Impact Assessment Criteria Pollutants Results **Short-term RSP**

I(KTDW)	=	The absolute number of instances of mortality or morbidity cases attributed to air pollution emissions from carrying out of the Kennedy Town decontamination works
ΔConc	=	Change in concentration of the criteria pollutant due to the carrying out of the project
AP	=	Attributable proportion, that is, the number of hospital admissions or deaths that can be a attributed to a concentration increase of 10 μg/m3 of the criteria pollutant
Pop(KTDW)	=	Population of area affected by pollutant emissions due to project. In this case the 500m study boundary
I(HK)	=	Total instances of hospital admissions or death from cardiopulmonary or respiratory causes for all of Hong Kong
Pop(HK)	=	Total population of Hong Kong
I(E)	=	Total instances of hospital admissions or death from cardiopulmonary or respiratory causes due to a change in the air pollution concentration of 10μg/m3

(Equation 1) $I(KTDW) = \frac{\Delta Conc}{10\ \mu g/m3} \times AP \times Pop(KTDW) \times \frac{I(HK)}{Pop(HK)}$

(Equation 2) $AP = \frac{ER \times P}{RR \times P}$

(Equation 3) $I(E) = I(HK) \times AP$

(Equation 4) Per 100,000 population = I(HK)/Pop(HK)*100000

Short-Term RSP

Excess Risk (ER) of short-term mortality and morbidity attributable to an increase of 10 μg/m3 of air pollutant (95% confidence interval)

Air Pollutant	All causes Mortality	Cardiovascular Mortality	Respiratory Mortality	Cardiovascular Morbidity	Respiratory Morbidity	Note
RSP	0.0051	0.0063	0.0069	0.0058	0.0060	
RR	1.0051	1.0063	1.0069	1.0058	1.0060	
AP	0.00507	0.00626	0.00685	0.00577	0.00596	*(Equation 2)*
$I_{(HK)}$	44,849	10,051	10,653	163,461	188,101	*(Note 1)*
I(E)	227	63	73	943	1121	*(Equation 3)*
Per 100,000 population	**611**	**137**	**145**	**2228**	**2564**	*(Equation 4)*

(Note 1) Numbers of in-patient discharges in hospitals for cardiovascular or respiratory disease
In HK in 2016, numbers of in-patient discharges of cardiovascular diseases in hospitals (ICD10:I00-I99) = 163,461
In HK in 2016, numbers of in-patient discharges of respiratory diseases in hospitals (ICD10:J00-J99) = 188,101
In HK in 2016, numbers of deaths in hospitals for all causes = 46,662; numbers of deaths in hospital from external causes of morbidity and mortality = 1,813. Hence, total number of natural deaths in
In HK in 2016, numbers of deaths in hospitals from cardiovascular diseases (ICD10:I00-I99) = 10,051; numbers of deaths in hospital from respiratory diseases (ICD10:J00-J99) = 10,653. Hence, total number
In HK in 2016, numbers of deaths in hospitals from Malignant Neoplasm of trachea, bronchus and lung (ICD10:C33-C34) = 3,780

Referenced from "Tables on Health Status and Health Services 2016"

Pop(KTDW)	SUM	47,238
From Central and Western Districts A06-A08 Census 2016	A06	17,204
	A07	15,517
	A08	14,517

Pop(HK)	
From Census 2016	7,336,585

I(KTDW) / Pop(KTDW) *100000 (per 100,000 Population)

	All causes mortality	Cardiovascular Mortality	Respiratory Mortality	Cardiovascular Morbidity	Respiratory morbidity
MIN	**8.30E-02**	**2.30E-02**	**2.66E-02**	**3.44E-01**	**4.09E-01**
MAX	**8.22E+00**	**2.28E+00**	**2.64E+00**	**3.4E+01**	**4.05E+01**
AVERAGE	**2.24E+00**	**6.20E-01**	**7.19E-01**	**9.30E+00**	**1.10E+01**

ASR	Flagpole Height (mAG)	ΔConc (Maximum in 24-hr)		I(KTDW) (Equation 1) All causes mortality	Cardiovascular Mortality	Respiratory Mortality	Cardiovascular Morbidity	Respiratory morbidity		Relative Increase (I(KTDW / Pop(KTDW)) All causes mortality	Cardiovascular Mortality	Respiratory Mortality	Cardiovascular Morbidity	Respiratory morbidity
MIN		**0.27**	**MIN**	**0.04**	**0.01**	**0.01**	**0.16**	**0.19**	**MIN**	**8.30E-07**	**2.30E-07**	**2.66E-07**	**3.44E-06**	**4.09E-06**
MAX		**26.53**	**MAX**	**3.88**	**1.07**	**1.25**	**16.11**	**19.15**	**MAX**	**8.22E-05**	**2.28E-05**	**2.64E-05**	**3.41E-04**	**4.05E-04**
AVERAGE		**7.23**	**AVERAGE**	**1.06**	**0.29**	**0.34**	**4.39**	**5.22**	**AVERAGE**	**1.91E-05**	**5.29E-06**	**6.14E-06**	**7.93E-05**	**9.43E-05**
KT-A8	1.5	18.92		2.77	0.77	0.89	11.49	13.66		5.86E-05	1.62E-05	1.88E-05	2.43E-04	2.89E-04
KT-A8a	4	18.24		2.67	0.74	0.86	11.07	13.16		5.65E-05	1.56E-05	1.81E-05	2.34E-04	2.79E-04
KT-A8b	8	14.45		2.12	0.59	0.68	8.77	10.43		4.48E-05	1.24E-05	1.44E-05	1.86E-04	2.21E-04
KT-A8c	12	9.37		1.37	0.38	0.44	5.69	6.76		2.90E-05	8.04E-06	9.32E-06	1.20E-04	1.43E-04
KT-A8d	16	6.12		0.90	0.25	0.29	3.71	4.42		1.90E-05	5.25E-06	6.08E-06	7.86E-05	9.35E-05
KT-A8e	20	4.72		0.69	0.19	0.22	2.87	3.41		1.46E-05	4.05E-06	4.70E-06	6.07E-05	7.22E-05
KT-A8f	30	2.80		0.41	0.11	0.13	1.70	2.02		8.68E-06	2.40E-06	2.78E-06	3.60E-05	4.28E-05
KT-A8g	40	1.98		0.29	0.08	0.09	1.20	1.43		6.12E-06	1.69E-06	1.97E-06	2.54E-05	3.02E-05
KT-A8h	50	1.43		0.21	0.06	0.07	0.87	1.04		4.44E-06	1.23E-06	1.43E-06	1.84E-05	2.19E-05
KT-A8i	60	1.07		0.16	0.04	0.05	0.65	0.77		3.32E-06	9.19E-07	1.07E-06	1.38E-05	1.64E-05
KT-A8j	70	0.80		0.12	0.03	0.04	0.49	0.58		2.48E-06	6.86E-07	7.96E-07	1.03E-05	1.22E-05
KT-A8k	80	0.61		0.09	0.02	0.03	0.37	0.44		1.90E-06	5.25E-07	6.08E-07	7.86E-06	9.35E-06
KT-A8l	90	0.50		0.07	0.02	0.02	0.31	0.36		1.56E-06	4.32E-07	5.01E-07	6.47E-06	7.69E-06
KT-A8m	100	0.42		0.06	0.02	0.02	0.25	0.30		1.30E-06	3.58E-07	4.16E-07	5.37E-06	6.38E-06
KT-A9	1.5	18.26		2.67	0.74	0.86	11.09	13.18		5.66E-05	1.57E-05	1.82E-05	2.35E-04	2.79E-04
KT-A9a	4	18.63		2.73	0.75	0.88	11.32	13.45		5.78E-05	1.60E-05	1.85E-05	2.40E-04	2.85E-04
KT-A9b	8	12.98		1.90	0.53	0.61	7.88	9.37		4.02E-05	1.11E-05	1.29E-05	1.67E-04	1.98E-04
KT-A10	1.5	11.63		1.70	0.47	0.55	7.07	8.40		3.61E-05	9.98E-06	1.16E-05	1.50E-04	1.78E-04
KT-A10a	4	10.73		1.57	0.43	0.50	6.51	7.74		3.32E-05	9.20E-06	1.07E-05	1.38E-04	1.64E-04
KT-A10b	8	8.99		1.32	0.36	0.42	5.46	6.49		2.78E-05	7.71E-06	8.94E-06	1.16E-04	1.37E-04
KT-A10c	12	7.04		1.03	0.29	0.33	4.27	5.08		2.18E-05	6.04E-06	7.00E-06	9.05E-05	1.08E-04
KT-A10d	16	5.53		0.81	0.22	0.26	3.36	3.99		1.71E-05	4.74E-06	5.50E-06	7.10E-05	8.44E-05
KT-A10e	20	4.49		0.66	0.18	0.21	2.73	3.24		1.39E-05	3.85E-06	4.47E-06	5.78E-05	6.86E-05
KT-A10f	30	2.98		0.44	0.12	0.14	1.81	2.15		9.23E-06	2.55E-06	2.96E-06	3.83E-05	4.55E-05
KT-A10g	40	2.23		0.33	0.09	0.10	1.35	1.61		6.90E-06	1.91E-06	2.22E-06	2.86E-05	3.40E-05
KT-A10h	50	1.90		0.28	0.08	0.09	1.15	1.37		5.89E-06	1.63E-06	1.89E-06	2.44E-05	2.91E-05
KT-A10i	60	1.63		0.24	0.07	0.08	0.99	1.17		5.04E-06	1.40E-06	1.62E-06	2.09E-05	2.49E-05
KT-A10j	70	1.39		0.20	0.06	0.07	0.84	1.00		4.31E-06	1.19E-06	1.38E-06	1.79E-05	2.13E-05
KT-A10k	80	1.18		0.17	0.05	0.06	0.72	0.85		3.67E-06	1.02E-06	1.18E-06	1.52E-05	1.81E-05
KT-A10l	90	1.00		0.15	0.04	0.05	0.61	0.72		3.11E-06	8.59E-07	9.97E-07	1.29E-05	1.53E-05
KT-A10m	100	0.84		0.12	0.03	0.04	0.51	0.61		2.62E-06	7.24E-07	8.40E-07	1.09E-05	1.29E-05
KT-A10n	110	0.71		0.10	0.03	0.03	0.43	0.51		2.20E-06	6.08E-07	7.06E-07	9.12E-06	1.08E-05
KT-A10o	120	0.59		0.09	0.02	0.03	0.36	0.43		1.84E-06	5.10E-07	5.92E-07	7.65E-06	9.09E-06
KT-A10p	130	0.50		0.07	0.02	0.02	0.30	0.36		1.54E-06	4.27E-07	4.96E-07	6.41E-06	7.62E-06
KT-A10q	140	0.42		0.06	0.02	0.02	0.25	0.30		1.29E-06	3.58E-07	4.16E-07	5.37E-06	6.38E-06
P01	1.5	25.83		3.78	1.05	1.21	15.69	18.65		8.01E-05	2.22E-05	2.57E-05	3.32E-04	3.95E-04
P02	1.5	26.12		3.82	1.06	1.23	15.86	18.85		8.10E-05	2.24E-05	2.60E-05	3.36E-04	3.99E-04
P03	1.5	26.53		3.88	1.07	1.25	16.11	19.15		8.22E-05	2.28E-05	2.64E-05	3.41E-04	4.05E-04
P04	1.5	26.45		3.87	1.07	1.24	16.06	19.09		8.20E-05	2.27E-05	2.63E-05	3.40E-04	4.04E-04
P10	1.5	21.37		3.13	0.87	1.00	12.98	15.42		6.62E-05	1.83E-05	2.13E-05	2.75E-04	3.26E-04
P11	1.5	25.03		3.66	1.01	1.18	15.20	18.07		7.76E-05	2.15E-05	2.49E-05	3.22E-04	3.82E-04
P12	1.5	23.60		3.46	0.96	1.11	14.33	17.04		7.32E-05	2.02E-05	2.35E-05	3.03E-04	3.61E-04
P13	1.5	22.63		3.31	0.92	1.06	13.74	16.34		7.01E-05	1.94E-05	2.25E-05	2.91E-04	3.46E-04
P14	1.5	19.87		2.91	0.80	0.93	12.07	14.34		6.16E-05	1.70E-05	1.98E-05	2.55E-04	3.04E-04
P15	1.5	20.74		3.04	0.84	0.97	12.60	14.97		6.43E-05	1.78E-05	2.06E-05	2.67E-04	3.17E-04
P16	1.5	24.02		3.52	0.97	1.13	14.59	17.34		7.44E-05	2.06E-05	2.39E-05	3.09E-04	3.67E-04

Health Impact Assessment Criteria Pollutants Results **Long-term FSP**

I(KTDW)	=	The absolute number of instances of mortality or morbidity cases attributed to air pollution emissions from carrying out of the Kennedy Town decontamination works
ΔConc	=	Change in concentration of the criteria pollutant due to the carrying out of the project
AP	=	Attributable proportion, that is, the number of hospital admissions or deaths that can be a attributed to a concentration increase of 10 μg/m3 of the criteria pollutant
Pop(KTDW)	=	Population of area affected by pollutant emissions due to project. In this case the 500m study boundary
I(HK)	=	Total instances of hospital admissions or death from cardiopulmonary or respiratory causes for all of Hong Kong
Pop(HK)	=	Total population of Hong Kong
I(E)	=	Total instances of hospital admissions or death from cardiopulmonary or respiratory causes due to a change in the air pollution concentration of 10μg/m3

(Equation 1) $I(KTDW) = \frac{\Delta Conc}{10\ \mu g/m3} \times AP \times Pop(KTDW) \times \frac{I(HK)}{Pop(HK)}$

(Equation 2) $AP = \frac{ER \times P}{RR \times P}$

(Equation 3) $I(E) = I(HK) \times AP$

(Equation 4) Per 100,000 population = I(HK)/Pop(HK)*100000

Long-Term FSP

Excess Risk (ER) of short-term mortality and morbidity attributable to an increase of 10 μg/m3 of air pollutant (95% confidence interval)

Air Pollutant	All causes Mortality	Cardiopulmonary Mortality	Lung Cancer Mortality			Note
RSP	0.0400	0.0600	0.0800			
RR	1.0400	1.0600	1.0800			
AP	0.03846	0.05660	0.07407			*(Equation 2)*
$I_{(HK)}$	44849	20704	3780			*(Note 1)*
I(E)	1725	1172	280			*(Equation 3)*
Per 100,000 population	**611**	**282**	**52**			

(Note 1) Numbers of in-patient discharges in hospitals for cardiovascular or respiratory disease
In HK in 2016, numbers of in-patient discharges of cardiovascular diseases in hospitals (ICD10:I00-I99) = 163,461
In HK in 2016, numbers of in-patient discharges of respiratory diseases in hospitals (ICD10:J00-J99) = 188,101
In HK in 2016, numbers of deaths in hospitals for all causes = 46,662; numbers of deaths in hospital from external causes of morbidity and mortality = 1,813. Hence, total number of natural deaths in
In HK in 2016, numbers of deaths in hospitals from cardiovascular diseases (ICD10:I00-I99) = 10,051; numbers of deaths in hospital from respiratory diseases (ICD10:J00-J99) = 10,653. Hence, total number
In HK in 2016, numbers of deaths in hospitals from Malignant Neoplasm of trachea, bronchus and lung (ICD10:C33-C34) = 3,780

Referenced from "Tables on Health Status and Health Services 2016"

Pop(KTDW)	SUM	47,238
From Central and Western Districts A06-A08 Census 2016	A06	17,204
	A07	15,517
	A08	14,517

Pop(HK)	
From Census 2016	7,336,585

I(KTDW) / Pop(KTDW) *100000 (per 100,000 Population)

	All causes mortality	Cardiopulmonary Mortality	Lung Cancer Mortality		
MIN	**7.99E-03**	**5.43E-03**	**1.30E-03**		
MAX	**2.93E+00**	**1.99E+00**	**4.75E-01**		
AVERAGE	**5.17E-01**	**3.51E-01**	**8.39E-02**		

ASR	Flagpole Height (mAG)	ΔConc (in Annual)		I(KTDW) (Equation 1) All causes mortality	Cardiopulmonary Mortality	Lung Cancer Mortality				Relative Increase (I(KTDW / Pop(KTDW)) All causes mortality	Cardiopulmonary Mortality	Lung Cancer Mortality		
MIN		**3.40E-03**	**MIN**	**0.00**	**0.00**	**0.00**			**MIN**	**7.99E-08**	**5.43E-08**	**1.30E-08**		
MAX		**1.25E+00**	**MAX**	**1.38**	**0.94**	**0.22**			**MAX**	**2.93E-05**	**1.99E-05**	**4.75E-06**		
AVERAGE		**2.20E-01**	**AVERAGE**	**0.24**	**0.17**	**0.04**			**AVERAGE**	**4.82E-06**	**3.27E-06**	**7.82E-07**		
KT-A1	1.5	0.23		0.25	0.17	0.04				5.38E-06	3.65E-06	8.73E-07		
KT-A1a	4	0.21		0.23	0.16	0.04				4.96E-06	3.37E-06	8.06E-07		
KT-A1b	8	0.16		0.18	0.12	0.03				3.82E-06	2.59E-06	6.19E-07		
KT-A1c	12	0.12		0.13	0.09	0.02				2.72E-06	1.85E-06	4.41E-07		
KT-A1d	16	0.09		0.10	0.07	0.02				2.07E-06	1.41E-06	3.36E-07		
KT-A1e	20	0.07		0.08	0.05	0.01				1.66E-06	1.13E-06	2.69E-07		
KT-A1f	30	0.05		0.05	0.04	0.01				1.09E-06	7.42E-07	1.77E-07		
KT-A1g	40	0.03		0.04	0.03	0.01				8.07E-07	5.48E-07	1.31E-07		
KT-A1h	50	0.03		0.03	0.02	0.00				6.29E-07	4.27E-07	1.02E-07		
KT-A1i	60	0.02		0.02	0.02	0.00				5.04E-07	3.42E-07	8.18E-08		
KT-A1j	70	0.02		0.02	0.01	0.00				4.12E-07	2.80E-07	6.68E-08		
KT-A1k	80	0.01		0.02	0.01	0.00				3.41E-07	2.32E-07	5.54E-08		
KT-A1l	90	0.01		0.01	0.01	0.00				2.86E-07	1.94E-07	4.65E-08		
KT-A1m	100	0.01		0.01	0.01	0.00				2.42E-07	1.65E-07	3.93E-08		
KT-A2	1.5	0.33		0.37	0.25	0.06				7.87E-06	5.35E-06	1.28E-06		
KT-A2a	4	0.29		0.32	0.22	0.05				6.84E-06	4.65E-06	1.11E-06		
KT-A2b	8	0.22		0.25	0.17	0.04				5.24E-06	3.56E-06	8.51E-07		
KT-A2c	12	0.16		0.18	0.12	0.03				3.75E-06	2.55E-06	6.09E-07		
KT-A2d	16	0.12		0.13	0.09	0.02				2.72E-06	1.85E-06	4.42E-07		
KT-A2e	20	0.09		0.10	0.07	0.02				2.06E-06	1.40E-06	3.35E-07		
KT-A2f	30	0.05		0.06	0.04	0.01				1.25E-06	8.52E-07	2.03E-07		
KT-A2g	40	0.04		0.04	0.03	0.01				8.97E-07	6.09E-07	1.46E-07		
KT-A2h	50	0.03		0.03	0.02	0.01				6.87E-07	4.67E-07	1.11E-07		
KT-A2i	60	0.02		0.03	0.02	0.00				5.45E-07	3.70E-07	8.84E-08		
KT-A2j	70	0.02		0.02	0.01	0.00				4.41E-07	3.00E-07	7.16E-08		
KT-A2k	80	0.02		0.02	0.01	0.00				3.63E-07	2.47E-07	5.89E-08		
KT-A2l	90	0.01		0.01	0.01	0.00				3.02E-07	2.05E-07	4.91E-08		
KT-A2m	100	0.01		0.01	0.01	0.00				2.54E-07	1.73E-07	4.13E-08		
KT-A2n	110	0.01		0.01	0.01	0.00				2.16E-07	1.47E-07	3.50E-08		
KT-A2o	120	0.01		0.01	0.01	0.00				1.84E-07	1.25E-07	2.99E-08		
KT-A2p	130	0.01		0.01	0.01	0.00				1.59E-07	1.08E-07	2.57E-08		
KT-A2q	140	0.01		0.01	0.00	0.00				1.37E-07	9.31E-08	2.23E-08		
KT-A2r	150	0.01		0.01	0.00	0.00				1.19E-07	8.09E-08	1.93E-08		
KT-A2s	160	0.00		0.00	0.00	0.00				1.04E-07	7.05E-08	1.69E-08		
KT-A2t	170	0.00		0.00	0.00	0.00				9.09E-08	6.17E-08	1.48E-08		
KT-A2u	180	0.00		0.00	0.00	0.00				7.99E-08	5.43E-08	1.30E-08		
KT-A3	1.5	0.18		0.20	0.14	0.03				4.22E-06	2.87E-06	6.85E-07		
KT-A3a	4	0.17		0.18	0.12	0.03				3.89E-06	2.64E-06	6.32E-07		
KT-A3b	8	0.14		0.15	0.10	0.02				3.18E-06	2.16E-06	5.17E-07		
KT-A3c	12	0.10		0.11	0.08	0.02				2.40E-06	1.63E-06	3.90E-07		
KT-A3d	16	0.08		0.09	0.06	0.01				1.89E-06	1.28E-06	3.07E-07		
KT-A3e	20	0.07		0.07	0.05	0.01				1.56E-06	1.06E-06	2.53E-07		
KT-A3f	30	0.05		0.05	0.04	0.01				1.09E-06	7.41E-07	1.77E-07		
KT-A3g	40	0.04		0.04	0.03	0.01				8.25E-07	5.60E-07	1.34E-07		
KT-A3h	50	0.03		0.03	0.02	0.00				6.43E-07	4.37E-07	1.04E-07		
KT-A3i	60	0.02		0.02	0.02	0.00				5.11E-07	3.47E-07	8.30E-08		
KT-A3j	70	0.02		0.02	0.01	0.00				4.13E-07	2.81E-07	6.71E-08		
KT-A3k	80	0.01		0.02	0.01	0.00				3.38E-07	2.30E-07	5.49E-08		
KT-A3l	90	0.01		0.01	0.01	0.00				2.80E-07	1.91E-07	4.55E-08		
KT-A3m	100	0.01		0.01	0.01	0.00				2.35E-07	1.59E-07	3.81E-08		
KT-A4	1.5	0.33		0.37	0.25	0.06				7.87E-06	5.34E-06	1.28E-06		
KT-A4a	4	0.31		0.34	0.23	0.06				7.27E-06	4.94E-06	1.18E-06		
KT-A4b	8	0.24		0.27	0.18	0.04				5.69E-06	3.86E-06	9.23E-07		
KT-A4c	12	0.17		0.19	0.13	0.03				4.09E-06	2.78E-06	6.64E-07		
KT-A4d	16	0.13		0.15	0.10	0.02				3.15E-06	2.14E-06	5.11E-07		
KT-A4e	20	0.11		0.12	0.08	0.02				2.51E-06	1.71E-06	4.08E-07		
KT-A4f	30	0.06		0.07	0.05	0.01				1.52E-06	1.03E-06	2.46E-07		
KT-A4g	40	0.04		0.05	0.03	0.01				9.73E-07	6.61E-07	1.58E-07		
KT-A4h	50	0.03		0.03	0.02	0.01				6.61E-07	4.49E-07	1.07E-07		
KT-A4i	60	0.02		0.02	0.02	0.00				4.73E-07	3.21E-07	7.68E-08		
KT-A4j	70	0.01		0.02	0.01	0.00				3.53E-07	2.40E-07	5.72E-08		
KT-A4k	80	0.01		0.01	0.01	0.00				2.71E-07	1.84E-07	4.40E-08		
KT-A4l	90	0.01		0.01	0.01	0.00				2.13E-07	1.45E-07	3.46E-08		
KT-A4m	100	0.01		0.01	0.01	0.00				1.71E-07	1.16E-07	2.77E-08		
KT-A4n	110	0.01		0.01	0.00	0.00				1.39E-07	9.41E-08	2.25E-08		
KT-A4o	120	0.00		0.01	0.00	0.00				1.14E-07	7.73E-08	1.85E-08		
KT-A5	1.5	1.25		1.38	0.94	0.22				2.93E-05	1.99E-05	4.75E-06		
KT-A5a	4	1.08		1.20	0.81	0.19				2.54E-05	1.72E-05	4.12E-06		
KT-A5b	8	0.77		0.85	0.58	0.14				1.80E-05	1.22E-05	2.92E-06		
KT-A5c	12	0.51		0.56	0.38	0.09				1.19E-05	8.11E-06	1.94E-06		
KT-A5d	16	0.34		0.38	0.26	0.06				8.02E-06	5.45E-06	1.30E-06		
KT-A5e	20	0.24		0.26	0.18	0.04				5.54E-06	3.77E-06	9.00E-07		
KT-A6	1.5	0.92		1.02	0.69	0.17				2.15E-05	1.46E-05	3.50E-06		
KT-A6a	4	0.91		1.01	0.68	0.16				2.13E-05	1.45E-05	3.46E-06		
KT-A6b	8	0.64		0.71	0.48	0.12				1.51E-05	1.02E-05	2.44E-06		
KT-A6c	12	0.43		0.48	0.33	0.08				1.01E-05	6.88E-06	1.64E-06		
KT-A7	1.5	0.31		0.35	0.24	0.06				7.39E-06	5.02E-06	1.20E-06		
KT-A7a	4	0.30		0.33	0.22	0.05				6.97E-06	4.74E-06	1.13E-06		
KT-A7b	8	0.24		0.26	0.18	0.04				5.60E-06	3.81E-06	9.09E-07		
KT-A7c	12	0.17		0.19	0.13	0.03				4.08E-06	2.77E-06	6.62E-07		
KT-A7d	16	0.13		0.15	0.10	0.02				3.10E-06	2.11E-06	5.04E-07		
KT-A7e	20	0.10		0.11	0.08	0.02				2.42E-06	1.64E-06	3.93E-07		

Health Impact Assessment Criteria Pollutants Results **Long-term FSP**

I(KTDW)	=	The absolute number of instances of mortality or morbidity cases attributed to air pollution emissions from carrying out of the Kennedy Town decontamination works
ΔConc	=	Change in concentration of the criteria pollutant due to the carrying out of the project
AP	=	Attributable proportion, that is, the number of hospital admissions or deaths that can be a attributed to a concentration increase of 10 μg/m3 of the criteria pollutant
Pop(KTDW)	=	Population of area affected by pollutant emissions due to project. In this case the 500m study boundary
I(HK)	=	Total instances of hospital admissions or death from cardiopulmonary or respiratory causes for all of Hong Kong
Pop(HK)	=	Total population of Hong Kong
I(E)	=	Total instances of hospital admissions or death from cardiopulmonary or respiratory causes due to a change in the air pollution concentration of 10μg/m3

(Equation 1) $I(KTDW) = \frac{\Delta Conc}{10\ \mu g/m3} \times AP \times Pop(KTDW) \times \frac{I(HK)}{Pop(HK)}$

(Equation 2) $AP = \frac{ER \times P}{RR \times P}$

(Equation 3) $I(E) = I(HK) \times AP$

(Equation 4) Per 100,000 population = I(HK)/Pop(HK)*100000

Long-Term FSP

Excess Risk (ER) of short-term mortality and morbidity attributable to an increase of 10 μg/m3 of air pollutant (95% confidence interval)

Air Pollutant	All causes Mortality	Cardiopulmonary Mortality	Lung Cancer Mortality			Note
RSP	0.0400	0.0600	0.0800			
RR	1.0400	1.0600	1.0800			
AP	0.03846	0.05660	0.07407			*(Equation 2)*
$I_{(HK)}$	44849	20704	3780			*(Note 1)*
I(E)	1725	1172	280			*(Equation 3)*
Per 100,000 population	611	282	52			

(Note 1) Numbers of in-patient discharges in hospitals for cardiovascular or respiratory disease
In HK in 2016, numbers of in-patient discharges of cardiovascular diseases in hospitals (ICD10:I00-I99) = 163,461
In HK in 2016, numbers of in-patient discharges of respiratory diseases in hospitals (ICD10:J00-J99) = 188,101
In HK in 2016, numbers of deaths in hospitals for all causes = 46,662; numbers of deaths in hospital from external causes of morbidity and mortality = 1,813. Hence, total number of natural deaths in
In HK in 2016, numbers of deaths in hospitals from cardiovascular diseases (ICD10:I00-I99) = 10,051; numbers of deaths in hospital from respiratory diseases (ICD10:J00-J99) = 10,653. Hence, total number
In HK in 2016, numbers of deaths in hospitals from Malignant Neoplasm of trachea, bronchus and lung (ICD10:C33-C34) = 3,780

Referenced from "Tables on Health Status and Health Services 2016"

Pop(KTDW)	SUM	47,238
From Central and Western Districts A06-A08 Census 2016	A06	17,204
	A07	15,517
	A08	14,517

Pop(HK)	
From Census 2016	7,336,585

I(KTDW) / Pop(KTDW) *100000 (per 100,000 Population)

	All causes mortality	Cardiopulmonary Mortality	Lung Cancer Mortality		
MIN	7.99E-03	5.43E-03	1.30E-03		
MAX	2.93E+00	1.99E+00	4.75E-01		
AVERAGE	5.17E-01	3.51E-01	8.39E-02		

ASR	Flagpole Height (mAG)	ΔConc (in Annual)		I(KTDW) (Equation 1) All causes mortality	Cardiopulmonary Mortality	Lung Cancer Mortality				Relative Increase (I(KTDW / Pop(KTDW)) All causes mortality	Cardiopulmonary Mortality	Lung Cancer Mortality		
MIN		3.40E-03	MIN	0.00	0.00	0.00			MIN	7.99E-08	5.43E-08	1.30E-08		
MAX		1.25E+00	MAX	1.38	0.94	0.22			MAX	2.93E-05	1.99E-05	4.75E-06		
AVERAGE		2.20E-01	AVERAGE	0.24	0.17	0.04			AVERAGE	4.82E-06	3.27E-06	7.82E-07		
KT-A8	1.5	1.11		1.23	0.84	0.20				2.60E-05	1.77E-05	4.23E-06		
KT-A8a	4	1.07		1.19	0.81	0.19				2.51E-05	1.71E-05	4.08E-06		
KT-A8b	8	0.85		0.94	0.64	0.15				1.99E-05	1.35E-05	3.23E-06		
KT-A8c	12	0.62		0.69	0.47	0.11				1.45E-05	9.88E-06	2.36E-06		
KT-A8d	16	0.44		0.49	0.33	0.08				1.04E-05	7.04E-06	1.68E-06		
KT-A8e	20	0.32		0.35	0.24	0.06				7.51E-06	5.10E-06	1.22E-06		
KT-A8f	30	0.16		0.17	0.12	0.03				3.65E-06	2.48E-06	5.93E-07		
KT-A8g	40	0.08		0.09	0.06	0.01				1.93E-06	1.31E-06	3.14E-07		
KT-A8h	50	0.05		0.05	0.04	0.01				1.10E-06	7.45E-07	1.78E-07		
KT-A8i	60	0.03		0.03	0.02	0.01				6.57E-07	4.46E-07	1.07E-07		
KT-A8j	70	0.02		0.02	0.01	0.00				4.10E-07	2.79E-07	6.66E-08		
KT-A8k	80	0.01		0.01	0.01	0.00				2.66E-07	1.81E-07	4.31E-08		
KT-A8l	90	0.01		0.01	0.01	0.00				1.78E-07	1.21E-07	2.90E-08		
KT-A8m	100	0.01		0.01	0.00	0.00				1.24E-07	8.42E-08	2.01E-08		
KT-A9	1.5	1.13		1.25	0.85	0.20				2.65E-05	1.80E-05	4.31E-06		
KT-A9a	4	1.07		1.19	0.81	0.19				2.53E-05	1.72E-05	4.10E-06		
KT-A9b	8	0.76		0.85	0.57	0.14				1.79E-05	1.22E-05	2.91E-06		
KT-A10	1.5	0.12		0.14	0.09	0.02				2.90E-06	1.97E-06	4.71E-07		
KT-A10a	4	0.12		0.13	0.09	0.02				2.71E-06	1.84E-06	4.39E-07		
KT-A10b	8	0.10		0.11	0.07	0.02				2.27E-06	1.54E-06	3.69E-07		
KT-A10c	12	0.08		0.08	0.06	0.01				1.79E-06	1.22E-06	2.90E-07		
KT-A10d	16	0.06		0.07	0.05	0.01				1.45E-06	9.83E-07	2.35E-07		
KT-A10e	20	0.05		0.06	0.04	0.01				1.21E-06	8.25E-07	1.97E-07		
KT-A10f	30	0.04		0.04	0.03	0.01				8.78E-07	5.96E-07	1.42E-07		
KT-A10g	40	0.03		0.03	0.02	0.01				6.89E-07	4.68E-07	1.12E-07		
KT-A10h	50	0.02		0.03	0.02	0.00				5.58E-07	3.79E-07	9.07E-08		
KT-A10i	60	0.02		0.02	0.01	0.00				4.60E-07	3.13E-07	7.47E-08		
KT-A10j	70	0.02		0.02	0.01	0.00				3.84E-07	2.61E-07	6.24E-08		
KT-A10k	80	0.01		0.02	0.01	0.00				3.24E-07	2.20E-07	5.26E-08		
KT-A10l	90	0.01		0.01	0.01	0.00				2.76E-07	1.87E-07	4.48E-08		
KT-A10m	100	0.01		0.01	0.01	0.00				2.36E-07	1.61E-07	3.84E-08		
KT-A10n	110	0.01		0.01	0.01	0.00				2.04E-07	1.38E-07	3.31E-08		
KT-A10o	120	0.01		0.01	0.01	0.00				1.77E-07	1.20E-07	2.87E-08		
KT-A10p	130	0.01		0.01	0.00	0.00				1.54E-07	1.04E-07	2.50E-08		
KT-A10q	140	0.01		0.01	0.00	0.00				1.34E-07	9.13E-08	2.18E-08		
P01	1.5	0.83		0.92	0.63	0.15				1.96E-05	1.33E-05	3.18E-06		
P02	1.5	0.67		0.74	0.51	0.12				1.57E-05	1.07E-05	2.56E-06		
P03	1.5	0.68		0.75	0.51	0.12				1.59E-05	1.08E-05	2.59E-06		
P04	1.5	0.60		0.67	0.45	0.11				1.41E-05	9.61E-06	2.30E-06		
P10	1.5	0.53		0.59	0.40	0.10				1.25E-05	8.50E-06	2.03E-06		
P11	1.5	0.67		0.74	0.50	0.12				1.56E-05	1.06E-05	2.54E-06		
P12	1.5	0.70		0.77	0.53	0.13				1.64E-05	1.11E-05	2.66E-06		
P13	1.5	0.58		0.64	0.44	0.10				1.36E-05	9.21E-06	2.20E-06		
P14	1.5	0.34		0.38	0.26	0.06				7.97E-06	5.42E-06	1.29E-06		
P15	1.5	0.37		0.41	0.28	0.07				8.71E-06	5.92E-06	1.41E-06		
P16	1.5	0.48		0.53	0.36	0.09				1.13E-05	7.68E-06	1.83E-06		

APPENDIX 3.10

DETAIL RESULTS FOR HEAVY METALS CONCENTRATIONS FOR NON-CARCINOGENC HEALTH RISKS

Results on Heavy Metals (HM)

Pollutants		Concentration from Grids (Zone 1A, 3)		Concentration from Grids (Zone 1B, 1C)		Concentration from Grids (Zone 2)		Concentration from Grids	Pollution Criteria (μg/m³)			Background concentration (μg/m³)			Project Contribution Concentration (μg/m³)			Cumulative Concentration (μg/m³)			Meet Pollution Criteria?		
		Average Concentration (mg/kg)	Average Concentration (μg/μg*)	Average Concentration (mg/kg)	Average Concentration (μg/μg*)	Average Concentration (mg/kg)	Average Concentration (μg/μg*)	Maximum of those Averaged (μg/μg*)	Hourly	Daily	Annual	Hourly	Daily	Annual	Hourly	Daily	Annual	Hourly	Daily	Annual	Hourly	Daily	Annual
Arsenic	(As)	8.82	8.82E-06	16.29	1.63E-05	10.67	1.07E-05	**1.63E-05**	*2.00E-01*	*3.60E-02*	*1.50E-02*	n/a	n/a	2.88E-03	3.61E-03	4.32E-04	1.18E-04	3.61E-03	4.32E-04	3.00E-03	YES	YES	YES
Barium	(Ba)	66.03	6.60E-05	133.68	1.34E-04	120.86	1.21E-04	**1.34E-04**	*5.00E+00*	*2.50E+00*	*5.00E-01*	n/a	n/a	1.18E-02	2.97E-02	3.55E-03	9.65E-04	2.97E-02	3.55E-03	1.28E-02	YES	YES	YES
Cadmium	(Cd)	2.74	2.74E-06	0.56	5.60E-07	0.47	4.70E-07	**2.74E-06**	*1.00E-01*	*3.00E-02*	*1.00E-02*	n/a	n/a	5.28E-04	6.08E-04	7.27E-05	1.98E-05	6.08E-04	7.27E-05	5.48E-04	YES	YES	YES
Cobalt	(Co)	3.92	3.92E-06	4.48	4.48E-06	4.96	4.96E-06	**4.96E-06**	*2.00E-01*	*7.10E-02*	*1.00E-01*	n/a	n/a	n/a	1.10E-03	1.32E-04	3.58E-05	1.10E-03	1.32E-04	3.58E-05	YES	YES	YES
Chromium metal and Chromium (III)	(Cr (III))	14.59	1.46E-05	9.28	9.28E-06	5.17	5.17E-06	**1.46E-05**	n/a	*5.00E-01*	*1.10E-01*		n/a	2.22E-03		3.87E-04	1.05E-04		3.87E-04	2.33E-03		YES	YES
Chromium (VI) (Hexavalent Chromium)	(Cr (VI))	5.63	5.63E-06	9.24	9.24E-06	10.81	1.08E-05	**1.08E-05**	*8.50E-03*	*3.00E-01*	*1.00E-01*	1.10E-04	1.10E-04	1.10E-04	2.40E-03	2.87E-04	7.80E-05	2.51E-03	3.97E-04	1.88E-04	YES	YES	YES
Copper	(Cu)	136.26	1.36E-04	170.86	1.71E-04	70.20	7.02E-05	**1.71E-04**	*1.00E+02*	*3.60E+00*	*2.40E+00*	n/a	n/a	1.38E-02	3.79E-02	4.53E-03	1.23E-03	3.79E-02	4.53E-03	1.50E-02	YES	YES	YES
Molybdenum	(Mo)	2.61	2.61E-06	1.92	1.92E-06	2.23	2.23E-06	**2.61E-06**	*3.00E+01*	*1.10E+01*	*3.00E+00*	n/a	n/a	n/a	5.79E-04	6.92E-05	1.88E-05	5.79E-04	6.92E-05	1.88E-05	YES	YES	YES
Nickel	(Ni)	6.71	6.71E-06	10.04	1.00E-05	8.22	8.22E-06	**1.00E-05**	*2.00E-01*	*2.00E-01*	*9.00E-02*	n/a	n/a	4.90E-03	2.23E-03	2.66E-04	7.25E-05	2.23E-03	2.66E-04	4.97E-03	YES	YES	YES
Lead	(Pb)	376.80	3.77E-04	316.39	3.16E-04	222.05	2.22E-04	**3.77E-04**	n/a	*1.50E-01*	*5.00E-01*		n/a	1.50E-02		1.00E-02	2.72E-03		1.00E-02	1.77E-02		YES	YES
Tin	(Sn)	17.01	1.70E-05	19.85	1.99E-05	31.62	3.16E-05	**3.16E-05**	*2.00E+01*	*1.00E+01*	*2.00E+00*	n/a	n/a	n/a	7.01E-03	8.39E-04	2.28E-04	7.01E-03	8.39E-04	2.28E-04	YES	YES	YES
Zinc	(Zn)	657.43	6.57E-04	405.24	4.05E-04	411.29	4.11E-04	**6.57E-04**	*2.00E+01*	n/a	*2.00E+00*	n/a		8.34E-02	1.46E-01		4.74E-03	1.46E-01		8.81E-02	YES		YES
Mercury	(Hg)	2.40	2.40E-06	3.88	3.88E-06	2.99	2.99E-06	**3.88E-06**	*6.00E-01*	*3.00E-01*	*1.00E+00*	n/a	n/a	1.84E-04	8.61E-04	1.03E-04	2.80E-05	8.61E-04	1.03E-04	2.12E-04	YES	YES	YES

Note:

(1) Background data averaged from 5 years of "Central/Western Station" of "Summary of Airborne Species Concentration Derived from RSP" Reports from EPD.
(2) Lead and Chromium (VI) (Hexavalent Chromium) are averaged from 5 years of "Central/Western Station" of "Air Quality in Hong Kong" Reports from EPD.
(3) Maximum RSP Mitigated Concentration from all ASR is extracted from AERMOD Tier 1 Mitigated (T1M) RSP results in Dust Section.
(4) Average Concentration reference from Appendix 3.4a of Kennedy Town Summplement EIA (EIA-226/2014).
(*) μg/μg means μg of pollutants per μg of soil.

Maximum RSP Mitigated Concentration from all ASR (μg/m³)		
Mitigated (T1M)		
Hourly	Daily	Annual
221.82	**26.53**	**7.22**

5 Year Averaged Concentrations referenced from EPD AQHI Webside
is used for Health Impact Assessment Non-Criteria Pollutants Results (Non-Carcinogenic Health Risk)
is used for Health Impact Assessment Non-Criteria Pollutants Results (Carcinogenic Health Risk)

Details of Predicted Heavy Metals (HM) at ASRs

Pollutants		RSP Mitigated Concentration from all ASR (µg/m³)		
Criteria		Hourly	Daily	Annual
ASR_ID	Assessment Height (mAG)	Model Results		
MAX		221.82	26.53	7.22
KT-A1	1.5	127.11	19.41	1.46
KT-A1a	4	124.87	18.41	1.35
KT-A1b	8	99.41	12.90	1.03
KT-A1c	12	80.24	8.08	0.74
KT-A1d	16	57.61	6.02	0.56
KT-A1e	20	40.80	5.20	0.45
KT-A1f	30	25.16	3.78	0.30
KT-A1g	40	18.89	2.88	0.22
KT-A1h	50	14.93	2.25	0.17
KT-A1i	60	12.02	1.80	0.14
KT-A1j	70	9.80	1.46	0.11
KT-A1k	80	8.05	1.19	0.09
KT-A1l	90	6.65	0.97	0.08
KT-A1m	100	6.02	0.80	0.07
KT-A2	1.5	221.82	18.05	2.10
KT-A2a	4	216.81	16.29	1.82
KT-A2b	8	193.64	12.56	1.40
KT-A2c	12	129.68	9.65	1.00
KT-A2d	16	77.53	7.60	0.73
KT-A2e	20	50.33	6.11	0.55
KT-A2f	30	32.28	3.93	0.34
KT-A2g	40	22.65	2.79	0.24
KT-A2h	50	16.66	2.10	0.18
KT-A2i	60	12.63	1.63	0.15
KT-A2j	70	9.77	1.29	0.12
KT-A2k	80	7.69	1.04	0.10
KT-A2l	90	6.70	0.84	0.08
KT-A2m	100	5.97	0.69	0.07
KT-A2n	110	5.43	0.59	0.06
KT-A2o	120	4.95	0.53	0.05
KT-A2p	130	4.53	0.47	0.04
KT-A2q	140	4.15	0.42	0.04
KT-A2r	150	3.81	0.37	0.03
KT-A2s	160	3.50	0.33	0.03
KT-A2t	170	3.22	0.30	0.02
KT-A2u	180	2.97	0.27	0.02
KT-A3	1.5	120.00	14.30	1.15
KT-A3a	4	111.00	13.13	1.06
KT-A3b	8	84.39	10.82	0.87
KT-A3c	12	49.40	8.21	0.65
KT-A3d	16	33.11	6.27	0.51
KT-A3e	20	23.48	5.00	0.43
KT-A3f	30	18.28	3.17	0.30
KT-A3g	40	14.79	2.38	0.23
KT-A3h	50	11.96	1.96	0.18
KT-A3i	60	9.54	1.63	0.14
KT-A3j	70	7.48	1.34	0.11
KT-A3k	80	6.24	1.11	0.09
KT-A3l	90	5.52	0.91	0.08
KT-A3m	100	4.92	0.75	0.06
KT-A4	1.5	106.38	12.62	2.11
KT-A4a	4	91.33	11.30	1.96
KT-A4b	8	60.60	8.42	1.52
KT-A4c	12	38.78	5.70	1.09
KT-A4d	16	33.76	4.68	0.84
KT-A4e	20	29.15	3.99	0.67
KT-A4f	30	19.82	2.84	0.41
KT-A4g	40	13.40	2.06	0.26

Cumulative Heavy Metal Results

Calculation = Bg. Conc. + Avg. Conc. x RSP = umulative Results

Pollutants	Arsenic	Barium	Cadmium	Cobalt	Chromium metal and Chromium (III)	Chromium (VI) (Hexavalent Chromium)	Copper	Molybdenum	Nickel	Lead	Tin	Zinc	Mercury
Criteria	Max 1hr	Max 1hr	Max 1hr	Max 1hr	Max 1hr	Max 1hr	Max 1hr	Max 1hr	Max 1hr	Max 1hr	Max 1hr	Max 1hr	Max 1hr
Average Concentr	1.63E-05	1.34E-04	2.74E-06	4.96E-06	1.46E-05	1.08E-05	1.71E-04	2.61E-06	1.00E-05	3.77E-04	3.16E-05	6.57E-04	3.88E-06
Background	n/a	n/a	n/a	n/a	n/a	1.10E-04	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Limit	2.00E-01	5.00E+00	1.00E-01	2.00E-01	n/a	8.50E-03	1.00E+02	3.00E+01	2.00E-01	n/a	2.00E+01	2.00E+01	6.00E-01
Meet Criteria?	Yes	Yes	Yes	Yes		Yes	Yes	Yes	Yes		Yes	Yes	Yes
MAX	3.61E-03	2.97E-02	6.08E-04	1.10E-03		2.51E-03	3.79E-02	5.79E-04	2.23E-03		7.01E-03	1.46E-01	8.61E-04
KT-A1	2.07E-03	1.70E-02	3.48E-04	6.30E-04		1.48E-03	2.17E-02	3.32E-04	1.28E-03		4.02E-03	8.36E-02	4.93E-04
KT-A1a	2.03E-03	1.67E-02	3.42E-04	6.19E-04		1.46E-03	2.13E-02	3.26E-04	1.25E-03		3.95E-03	8.21E-02	4.85E-04
KT-A1b	1.62E-03	1.33E-02	2.72E-04	4.93E-04		1.18E-03	1.70E-02	2.59E-04	9.98E-04		3.14E-03	6.54E-02	3.86E-04
KT-A1c	1.31E-03	1.07E-02	2.20E-04	3.98E-04		9.77E-04	1.37E-02	2.09E-04	8.06E-04		2.54E-03	5.27E-02	3.11E-04
KT-A1d	9.39E-04	7.70E-03	1.58E-04	2.86E-04		7.33E-04	9.84E-03	1.50E-04	5.78E-04		1.82E-03	3.79E-02	2.24E-04
KT-A1e	6.65E-04	5.45E-03	1.12E-04	2.02E-04		5.51E-04	6.97E-03	1.06E-04	4.10E-04		1.29E-03	2.68E-02	1.58E-04
KT-A1f	4.10E-04	3.36E-03	6.89E-05	1.25E-04		3.82E-04	4.30E-03	6.57E-05	2.53E-04		7.95E-04	1.65E-02	9.76E-05
KT-A1g	3.08E-04	2.53E-03	5.18E-05	9.37E-05		3.14E-04	3.23E-03	4.93E-05	1.90E-04		5.97E-04	1.24E-02	7.33E-05
KT-A1h	2.43E-04	2.00E-03	4.09E-05	7.40E-05		2.71E-04	2.55E-03	3.90E-05	1.50E-04		4.72E-04	9.81E-03	5.79E-05
KT-A1i	1.96E-04	1.61E-03	3.29E-05	5.96E-05		2.40E-04	2.05E-03	3.14E-05	1.21E-04		3.80E-04	7.90E-03	4.66E-05
KT-A1j	1.60E-04	1.31E-03	2.69E-05	4.86E-05		2.16E-04	1.68E-03	2.56E-05	9.84E-05		3.10E-04	6.45E-03	3.80E-05
KT-A1k	1.31E-04	1.08E-03	2.21E-05	3.99E-05		1.97E-04	1.38E-03	2.10E-05	8.08E-05		2.54E-04	5.29E-03	3.12E-05
KT-A1l	1.08E-04	8.89E-04	1.82E-05	3.30E-05		1.82E-04	1.14E-03	1.74E-05	6.68E-05		2.10E-04	4.37E-03	2.58E-05
KT-A1m	9.80E-05	8.04E-04	1.65E-05	2.98E-05		1.75E-04	1.03E-03	1.57E-05	6.04E-05		1.90E-04	3.96E-03	2.33E-05
KT-A2	3.61E-03	2.97E-02	6.08E-04	1.10E-03		2.51E-03	3.79E-02	5.79E-04	2.23E-03		7.01E-03	1.46E-01	8.61E-04
KT-A2a	3.53E-03	2.90E-02	5.94E-04	1.08E-03		2.45E-03	3.70E-02	5.66E-04	2.18E-03		6.86E-03	1.43E-01	8.41E-04
KT-A2b	3.15E-03	2.59E-02	5.31E-04	9.60E-04		2.20E-03	3.31E-02	5.05E-04	1.94E-03		6.12E-03	1.27E-01	7.51E-04
KT-A2c	2.11E-03	1.73E-02	3.55E-04	6.43E-04		1.51E-03	2.22E-02	3.38E-04	1.30E-03		4.10E-03	8.53E-02	5.03E-04
KT-A2d	1.26E-03	1.04E-02	2.12E-04	3.85E-04		9.48E-04	1.32E-02	2.02E-04	7.78E-04		2.45E-03	5.10E-02	3.01E-04
KT-A2e	8.20E-04	6.73E-03	1.38E-04	2.50E-04		6.54E-04	8.60E-03	1.31E-04	5.05E-04		1.59E-03	3.31E-02	1.95E-04
KT-A2f	5.26E-04	4.31E-03	8.84E-05	1.60E-04		4.59E-04	5.51E-03	8.42E-05	3.24E-04		1.02E-03	2.12E-02	1.25E-04
KT-A2g	3.69E-04	3.03E-03	6.21E-05	1.12E-04		3.55E-04	3.87E-03	5.91E-05	2.27E-04		7.16E-04	1.49E-02	8.79E-05
KT-A2h	2.71E-04	2.23E-03	4.56E-05	8.26E-05		2.90E-04	2.85E-03	4.35E-05	1.67E-04		5.27E-04	1.10E-02	6.46E-05
KT-A2i	2.06E-04	1.69E-03	3.46E-05	6.26E-05		2.46E-04	2.16E-03	3.30E-05	1.27E-04		3.99E-04	8.30E-03	4.90E-05
KT-A2j	1.59E-04	1.31E-03	2.68E-05	4.85E-05		2.16E-04	1.67E-03	2.55E-05	9.81E-05		3.09E-04	6.42E-03	3.79E-05
KT-A2k	1.25E-04	1.03E-03	2.11E-05	3.81E-05		1.93E-04	1.31E-03	2.01E-05	7.72E-05		2.43E-04	5.06E-03	2.98E-05
KT-A2l	1.09E-04	8.95E-04	1.83E-05	3.32E-05		1.82E-04	1.14E-03	1.75E-05	6.72E-05		2.12E-04	4.40E-03	2.60E-05
KT-A2m	9.73E-05	7.99E-04	1.64E-05	2.96E-05		1.75E-04	1.02E-03	1.56E-05	6.00E-05		1.89E-04	3.93E-03	2.32E-05
KT-A2n	8.84E-05	7.25E-04	1.49E-05	2.69E-05		1.69E-04	9.27E-04	1.42E-05	5.45E-05		1.72E-04	3.57E-03	2.11E-05
KT-A2o	8.07E-05	6.62E-04	1.36E-05	2.46E-05		1.64E-04	8.47E-04	1.29E-05	4.97E-05		1.57E-04	3.26E-03	1.92E-05
KT-A2p	7.38E-05	6.06E-04	1.24E-05	2.25E-05		1.59E-04	7.74E-04	1.18E-05	4.55E-05		1.43E-04	2.98E-03	1.76E-05
KT-A2q	6.76E-05	5.55E-04	1.14E-05	2.06E-05		1.55E-04	7.09E-04	1.08E-05	4.17E-05		1.31E-04	2.73E-03	1.61E-05
KT-A2r	6.21E-05	5.09E-04	1.04E-05	1.89E-05		1.51E-04	6.51E-04	9.94E-06	3.83E-05		1.20E-04	2.50E-03	1.48E-05
KT-A2s	5.70E-05	4.68E-04	9.59E-06	1.74E-05		1.48E-04	5.98E-04	9.14E-06	3.51E-05		1.11E-04	2.30E-03	1.36E-05
KT-A2t	5.25E-05	4.31E-04	8.83E-06	1.60E-05		1.45E-04	5.50E-04	8.41E-06	3.23E-05		1.02E-04	2.12E-03	1.25E-05
KT-A2u	4.83E-05	3.97E-04	8.13E-06	1.47E-05		1.42E-04	5.07E-04	7.75E-06	2.98E-05		9.38E-05	1.95E-03	1.15E-05
KT-A3	1.95E-03	1.60E-02	3.29E-04	5.95E-04		1.41E-03	2.05E-02	3.13E-04	1.20E-03		3.79E-03	7.89E-02	4.66E-04
KT-A3a	1.81E-03	1.48E-02	3.04E-04	5.51E-04		1.31E-03	1.90E-02	2.90E-04	1.11E-03		3.51E-03	7.30E-02	4.31E-04
KT-A3b	1.37E-03	1.13E-02	2.31E-04	4.19E-04		1.02E-03	1.44E-02	2.20E-04	8.47E-04		2.67E-03	5.55E-02	3.27E-04
KT-A3c	8.05E-04	6.60E-03	1.35E-04	2.45E-04		6.44E-04	8.44E-03	1.29E-04	4.96E-04		1.56E-03	3.25E-02	1.92E-04
KT-A3d	5.39E-04	4.43E-03	9.07E-05	1.64E-04		4.68E-04	5.66E-03	8.64E-05	3.32E-04		1.05E-03	2.18E-02	1.28E-04
KT-A3e	3.83E-04	3.14E-03	6.43E-05	1.16E-04		3.64E-04	4.01E-03	6.13E-05	2.36E-04		7.43E-04	1.54E-02	9.11E-05
KT-A3f	2.98E-04	2.44E-03	5.01E-05	9.07E-05		3.08E-04	3.12E-03	4.77E-05	1.84E-04		5.78E-04	1.20E-02	7.09E-05
KT-A3g	2.41E-04	1.98E-03	4.05E-05	7.34E-05		2.70E-04	2.53E-03	3.86E-05	1.49E-04		4.68E-04	9.73E-03	5.74E-05
KT-A3h	1.95E-04	1.60E-03	3.28E-05	5.93E-05		2.39E-04	2.04E-03	3.12E-05	1.20E-04		3.78E-04	7.86E-03	4.64E-05
KT-A3i	1.55E-04	1.28E-03	2.61E-05	4.73E-05		2.13E-04	1.63E-03	2.49E-05	9.58E-05		3.02E-04	6.27E-03	3.70E-05
KT-A3j	1.22E-04	9.99E-04	2.05E-05	3.71E-05		1.91E-04	1.28E-03	1.95E-05	7.51E-05		2.36E-04	4.91E-03	2.90E-05
KT-A3k	1.02E-04	8.34E-04	1.71E-05	3.09E-05		1.77E-04	1.07E-03	1.63E-05	6.26E-05		1.97E-04	4.10E-03	2.42E-05
KT-A3l	8.99E-05	7.38E-04	1.51E-05	2.74E-05		1.70E-04	9.43E-04	1.44E-05	5.54E-05		1.75E-04	3.63E-03	2.14E-05
KT-A3m	8.02E-05	6.58E-04	1.35E-05	2.44E-05		1.63E-04	8.41E-04	1.29E-05	4.94E-05		1.56E-04	3.24E-03	1.91E-05
KT-A4	1.73E-03	1.42E-02	2.91E-04	5.28E-04		1.26E-03	1.82E-02	2.78E-04	1.07E-03		3.36E-03	6.99E-02	4.13E-04
KT-A4a	1.49E-03	1.22E-02	2.50E-04	4.53E-04		1.10E-03	1.56E-02	2.38E-04	9.17E-04		2.89E-03	6.00E-02	3.54E-04
KT-A4b	9.87E-04	8.10E-03	1.66E-04	3.01E-04		7.65E-04	1.04E-02	1.58E-04	6.08E-04		1.92E-03	3.98E-02	2.35E-04
KT-A4c	6.32E-04	5.18E-03	1.06E-04	1.92E-04		5.29E-04	6.63E-03	1.01E-04	3.89E-04		1.23E-03	2.55E-02	1.50E-04
KT-A4d	5.50E-04	4.51E-03	9.25E-05	1.67E-04		4.75E-04	5.77E-03	8.81E-05	3.39E-04		1.07E-03	2.22E-02	1.31E-04
KT-A4e	4.75E-04	3.90E-03	7.99E-05	1.45E-04		4.25E-04	4.98E-03	7.61E-05	2.93E-04		9.22E-04	1.92E-02	1.13E-04
KT-A4f	3.23E-04	2.65E-03	5.43E-05	9.83E-05		3.24E-04	3.39E-03	5.17E-05	1.99E-04		6.27E-04	1.30E-02	7.69E-05
KT-A4g	2.18E-04	1.79E-03	3.67E-05	6.65E-05		2.55E-04	2.29E-03	3.50E-05	1.35E-04		4.24E-04	8.81E-03	5.20E-05

Details of Predicted Heavy Metals (HM) at ASRs

Pollutants		RSP Mitigated Concentration from all ASR (µg/m³)		
Criteria		Hourly	Daily	Annual
ASR_ID	Assessment Height (mAG)	Model Results		
MAX		221.82	26.53	7.22
KT-A4h	50	9.14	1.51	0.18
KT-A4i	60	6.93	1.12	0.13
KT-A4j	70	6.21	0.85	0.10
KT-A4k	80	5.55	0.65	0.07
KT-A4l	90	4.96	0.54	0.06
KT-A4m	100	4.42	0.46	0.05
KT-A4n	110	3.94	0.39	0.04
KT-A4o	120	3.50	0.34	0.03
KT-A5	1.5	168.64	19.24	7.22
KT-A5a	4	160.23	17.25	6.41
KT-A5b	8	107.09	11.85	4.60
KT-A5c	12	55.05	7.73	3.04
KT-A5d	16	41.17	6.11	2.05
KT-A5e	20	31.13	4.82	1.42
KT-A6	1.5	136.14	18.87	5.43
KT-A6a	4	156.47	19.60	5.49
KT-A6b	8	102.48	13.66	3.90
KT-A6c	12	64.26	9.01	2.62
KT-A7	1.5	90.50	9.49	1.98
KT-A7a	4	74.97	8.49	1.87
KT-A7b	8	45.64	6.77	1.49
KT-A7c	12	37.86	5.51	1.08
KT-A7d	16	30.90	4.53	0.83
KT-A7e	20	25.06	3.82	0.65
KT-A8	1.5	133.66	18.92	6.16
KT-A8a	4	129.37	18.24	6.01
KT-A8b	8	93.24	14.45	4.91
KT-A8c	12	60.30	9.37	3.59
KT-A8d	16	40.88	6.12	2.56
KT-A8e	20	21.60	4.72	1.85
KT-A8f	30	17.24	2.80	0.90
KT-A8g	40	14.04	1.98	0.48
KT-A8h	50	10.93	1.43	0.27
KT-A8i	60	8.24	1.07	0.16
KT-A8j	70	6.09	0.80	0.10
KT-A8k	80	4.67	0.61	0.07
KT-A8l	90	3.97	0.50	0.05
KT-A8m	100	3.36	0.42	0.03
KT-A9	1.5	135.29	18.26	6.58
KT-A9a	4	141.57	18.63	6.43
KT-A9b	8	100.65	12.98	4.59
KT-A10	1.5	102.63	11.63	0.79
KT-A10a	4	93.95	10.73	0.74
KT-A10b	8	70.41	8.99	0.62
KT-A10c	12	43.24	7.04	0.49
KT-A10d	16	31.23	5.53	0.39
KT-A10e	20	23.76	4.49	0.33
KT-A10f	30	17.82	2.98	0.24
KT-A10g	40	13.36	2.23	0.19
KT-A10h	50	11.17	1.90	0.15
KT-A10i	60	9.44	1.63	0.13
KT-A10j	70	7.87	1.39	0.11
KT-A10k	80	6.59	1.18	0.09
KT-A10l	90	5.96	1.00	0.08
KT-A10m	100	5.37	0.84	0.07
KT-A10n	110	4.82	0.71	0.06
KT-A10o	120	4.33	0.59	0.05
KT-A10p	130	3.91	0.50	0.04
KT-A10q	140	3.62	0.42	0.04

Cumulative Heavy Metal Results

Calculation = Bg. Conc. + Avg. Conc. x RSP = umulative Results

Pollutants	Arsenic	Barium	Cadmium	Cobalt	Chromium metal and Chromium (III)	Chromium (VI) (Hexavalent Chromium)	Copper	Molybdenum	Nickel	Lead	Tin	Zinc	Mercury
Criteria	Max 1hr	Max 1hr	Max 1hr	Max 1hr	Max 1hr	Max 1hr	Max 1hr	Max 1hr	Max 1hr	Max 1hr	Max 1hr	Max 1hr	Max 1hr
Average Concentr	1.63E-05	1.34E-04	2.74E-06	4.96E-06	1.46E-05	1.08E-05	1.71E-04	2.61E-06	1.00E-05	3.77E-04	3.16E-05	6.57E-04	3.88E-06
Background	n/a	n/a	n/a	n/a	n/a	1.10E-04	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Limit	2.00E-01	5.00E+00	1.00E-01	2.00E-01	n/a	8.50E-03	1.00E+02	3.00E+01	2.00E-01	n/a	2.00E+01	2.00E+01	6.00E-01
Meet Criteria?	Yes	Yes	Yes	Yes		Yes	Yes	Yes	Yes		Yes	Yes	Yes
MAX	3.61E-03	2.97E-02	6.08E-04	1.10E-03		2.51E-03	3.79E-02	5.79E-04	2.23E-03		7.01E-03	1.46E-01	8.61E-04
KT-A4h	1.49E-04	1.22E-03	2.50E-05	4.53E-05		2.09E-04	1.56E-03	2.38E-05	9.17E-05		2.89E-04	6.01E-03	3.54E-05
KT-A4i	1.13E-04	9.26E-04	1.90E-05	3.44E-05		1.85E-04	1.18E-03	1.81E-05	6.96E-05		2.19E-04	4.56E-03	2.69E-05
KT-A4j	1.01E-04	8.30E-04	1.70E-05	3.08E-05		1.77E-04	1.06E-03	1.62E-05	6.23E-05		1.96E-04	4.08E-03	2.41E-05
KT-A4k	9.05E-05	7.42E-04	1.52E-05	2.75E-05		1.70E-04	9.49E-04	1.45E-05	5.58E-05		1.76E-04	3.65E-03	2.15E-05
KT-A4l	8.08E-05	6.63E-04	1.36E-05	2.46E-05		1.64E-04	8.47E-04	1.29E-05	4.98E-05		1.57E-04	3.26E-03	1.92E-05
KT-A4m	7.20E-05	5.91E-04	1.21E-05	2.19E-05		1.58E-04	7.55E-04	1.15E-05	4.44E-05		1.40E-04	2.91E-03	1.71E-05
KT-A4n	6.41E-05	5.26E-04	1.08E-05	1.95E-05		1.53E-04	6.72E-04	1.03E-05	3.95E-05		1.24E-04	2.59E-03	1.53E-05
KT-A4o	5.71E-05	4.68E-04	9.60E-06	1.74E-05		1.48E-04	5.99E-04	9.14E-06	3.52E-05		1.11E-04	2.30E-03	1.36E-05
KT-A5	2.75E-03	2.25E-02	4.62E-04	8.36E-04		1.93E-03	2.88E-02	4.40E-04	1.69E-03		5.33E-03	1.11E-01	6.54E-04
KT-A5a	2.61E-03	2.14E-02	4.39E-04	7.95E-04		1.84E-03	2.74E-02	4.18E-04	1.61E-03		5.07E-03	1.05E-01	6.22E-04
KT-A5b	1.74E-03	1.43E-02	2.93E-04	5.31E-04		1.27E-03	1.83E-02	2.80E-04	1.08E-03		3.39E-03	7.04E-02	4.16E-04
KT-A5c	8.97E-04	7.36E-03	1.51E-04	2.73E-04		7.05E-04	9.41E-03	1.44E-04	5.53E-04		1.74E-03	3.62E-02	2.14E-04
KT-A5d	6.71E-04	5.50E-03	1.13E-04	2.04E-04		5.55E-04	7.03E-03	1.07E-04	4.13E-04		1.30E-03	2.71E-02	1.60E-04
KT-A5e	5.07E-04	4.16E-03	8.53E-05	1.54E-04		4.47E-04	5.32E-03	8.12E-05	3.13E-04		9.84E-04	2.05E-02	1.21E-04
KT-A6	2.22E-03	1.82E-02	3.73E-04	6.75E-04		1.58E-03	2.33E-02	3.55E-04	1.37E-03		4.30E-03	8.95E-02	5.28E-04
KT-A6a	2.55E-03	2.09E-02	4.29E-04	7.76E-04		1.80E-03	2.67E-02	4.08E-04	1.57E-03		4.95E-03	1.03E-01	6.07E-04
KT-A6b	1.67E-03	1.37E-02	2.81E-04	5.08E-04		1.22E-03	1.75E-02	2.67E-04	1.03E-03		3.24E-03	6.74E-02	3.98E-04
KT-A6c	1.05E-03	8.59E-03	1.76E-04	3.19E-04		8.05E-04	1.10E-02	1.68E-04	6.45E-04		2.03E-03	4.22E-02	2.49E-04
KT-A7	1.47E-03	1.21E-02	2.48E-04	4.49E-04		1.09E-03	1.55E-02	2.36E-04	9.09E-04		2.86E-03	5.95E-02	3.51E-04
KT-A7a	1.22E-03	1.00E-02	2.05E-04	3.72E-04		9.20E-04	1.28E-02	1.96E-04	7.53E-04		2.37E-03	4.93E-02	2.91E-04
KT-A7b	7.44E-04	6.10E-03	1.25E-04	2.26E-04		6.03E-04	7.80E-03	1.19E-04	4.58E-04		1.44E-03	3.00E-02	1.77E-04
KT-A7c	6.17E-04	5.06E-03	1.04E-04	1.88E-04		5.19E-04	6.47E-03	9.88E-05	3.80E-04		1.20E-03	2.49E-02	1.47E-04
KT-A7d	5.03E-04	4.13E-03	8.47E-05	1.53E-04		4.44E-04	5.28E-03	8.06E-05	3.10E-04		9.77E-04	2.03E-02	1.20E-04
KT-A7e	4.08E-04	3.35E-03	6.87E-05	1.24E-04		3.81E-04	4.28E-03	6.54E-05	2.52E-04		7.92E-04	1.65E-02	9.72E-05
KT-A8	2.18E-03	1.79E-02	3.66E-04	6.63E-04		1.55E-03	2.28E-02	3.49E-04	1.34E-03		4.23E-03	8.79E-02	5.19E-04
KT-A8a	2.11E-03	1.73E-02	3.54E-04	6.42E-04		1.51E-03	2.21E-02	3.38E-04	1.30E-03		4.09E-03	8.51E-02	5.02E-04
KT-A8b	1.52E-03	1.25E-02	2.55E-04	4.62E-04		1.12E-03	1.59E-02	2.43E-04	9.36E-04		2.95E-03	6.13E-02	3.62E-04
KT-A8c	9.82E-04	8.06E-03	1.65E-04	2.99E-04		7.62E-04	1.03E-02	1.57E-04	6.05E-04		1.91E-03	3.96E-02	2.34E-04
KT-A8d	6.66E-04	5.46E-03	1.12E-04	2.03E-04		5.52E-04	6.98E-03	1.07E-04	4.10E-04		1.29E-03	2.69E-02	1.59E-04
KT-A8e	3.52E-04	2.89E-03	5.92E-05	1.07E-04		3.44E-04	3.69E-03	5.64E-05	2.17E-04		6.83E-04	1.42E-02	8.38E-05
KT-A8f	2.81E-04	2.30E-03	4.72E-05	8.55E-05		2.96E-04	2.95E-03	4.50E-05	1.73E-04		5.45E-04	1.13E-02	6.69E-05
KT-A8g	2.29E-04	1.88E-03	3.85E-05	6.96E-05		2.62E-04	2.40E-03	3.66E-05	1.41E-04		4.44E-04	9.23E-03	5.45E-05
KT-A8h	1.78E-04	1.46E-03	2.99E-05	5.42E-05		2.28E-04	1.87E-03	2.85E-05	1.10E-04		3.46E-04	7.19E-03	4.24E-05
KT-A8i	1.34E-04	1.10E-03	2.26E-05	4.09E-05		1.99E-04	1.41E-03	2.15E-05	8.27E-05		2.61E-04	5.42E-03	3.20E-05
KT-A8j	9.92E-05	8.14E-04	1.67E-05	3.02E-05		1.76E-04	1.04E-03	1.59E-05	6.11E-05		1.93E-04	4.00E-03	2.36E-05
KT-A8k	7.60E-05	6.24E-04	1.28E-05	2.32E-05		1.60E-04	7.98E-04	1.22E-05	4.69E-05		1.48E-04	3.07E-03	1.81E-05
KT-A8l	6.47E-05	5.31E-04	1.09E-05	1.97E-05		1.53E-04	6.79E-04	1.04E-05	3.99E-05		1.26E-04	2.61E-03	1.54E-05
KT-A8m	5.48E-05	4.49E-04	9.21E-06	1.67E-05		1.46E-04	5.74E-04	8.77E-06	3.37E-05		1.06E-04	2.21E-03	1.30E-05
KT-A9	2.20E-03	1.81E-02	3.71E-04	6.71E-04		1.57E-03	2.31E-02	3.53E-04	1.36E-03		4.28E-03	8.89E-02	5.25E-04
KT-A9a	2.31E-03	1.89E-02	3.88E-04	7.02E-04		1.64E-03	2.42E-02	3.69E-04	1.42E-03		4.48E-03	9.31E-02	5.49E-04
KT-A9b	1.64E-03	1.35E-02	2.76E-04	4.99E-04		1.20E-03	1.72E-02	2.63E-04	1.01E-03		3.18E-03	6.62E-02	3.91E-04
KT-A10	1.67E-03	1.37E-02	2.81E-04	5.09E-04		1.22E-03	1.75E-02	2.68E-04	1.03E-03		3.25E-03	6.75E-02	3.98E-04
KT-A10a	1.53E-03	1.26E-02	2.57E-04	4.66E-04		1.13E-03	1.61E-02	2.45E-04	9.43E-04		2.97E-03	6.18E-02	3.65E-04
KT-A10b	1.15E-03	9.41E-03	1.93E-04	3.49E-04		8.71E-04	1.20E-02	1.84E-04	7.07E-04		2.23E-03	4.63E-02	2.73E-04
KT-A10c	7.04E-04	5.78E-03	1.18E-04	2.14E-04		5.77E-04	7.39E-03	1.13E-04	4.34E-04		1.37E-03	2.84E-02	1.68E-04
KT-A10d	5.09E-04	4.17E-03	8.56E-05	1.55E-04		4.48E-04	5.34E-03	8.15E-05	3.13E-04		9.87E-04	2.05E-02	1.21E-04
KT-A10e	3.87E-04	3.18E-03	6.51E-05	1.18E-04		3.67E-04	4.06E-03	6.20E-05	2.39E-04		7.51E-04	1.56E-02	9.22E-05
KT-A10f	2.90E-04	2.38E-03	4.88E-05	8.84E-05		3.03E-04	3.04E-03	4.65E-05	1.79E-04		5.63E-04	1.17E-02	6.91E-05
KT-A10g	2.18E-04	1.79E-03	3.66E-05	6.63E-05		2.54E-04	2.28E-03	3.49E-05	1.34E-04		4.23E-04	8.79E-03	5.19E-05
KT-A10h	1.82E-04	1.49E-03	3.06E-05	5.54E-05		2.31E-04	1.91E-03	2.92E-05	1.12E-04		3.53E-04	7.34E-03	4.33E-05
KT-A10i	1.54E-04	1.26E-03	2.59E-05	4.68E-05		2.12E-04	1.61E-03	2.46E-05	9.48E-05		2.98E-04	6.21E-03	3.66E-05
KT-A10j	1.28E-04	1.05E-03	2.16E-05	3.90E-05		1.95E-04	1.34E-03	2.05E-05	7.90E-05		2.49E-04	5.17E-03	3.05E-05
KT-A10k	1.07E-04	8.81E-04	1.81E-05	3.27E-05		1.81E-04	1.13E-03	1.72E-05	6.62E-05		2.08E-04	4.33E-03	2.56E-05
KT-A10l	9.70E-05	7.96E-04	1.63E-05	2.95E-05		1.74E-04	1.02E-03	1.55E-05	5.98E-05		1.88E-04	3.92E-03	2.31E-05
KT-A10m	8.74E-05	7.17E-04	1.47E-05	2.66E-05		1.68E-04	9.17E-04	1.40E-05	5.39E-05		1.70E-04	3.53E-03	2.08E-05
KT-A10n	7.86E-05	6.45E-04	1.32E-05	2.39E-05		1.62E-04	8.24E-04	1.26E-05	4.84E-05		1.53E-04	3.17E-03	1.87E-05
KT-A10o	7.05E-05	5.79E-04	1.19E-05	2.15E-05		1.57E-04	7.40E-04	1.13E-05	4.35E-05		1.37E-04	2.85E-03	1.68E-05
KT-A10p	6.36E-05	5.22E-04	1.07E-05	1.94E-05		1.52E-04	6.68E-04	1.02E-05	3.92E-05		1.24E-04	2.57E-03	1.52E-05
KT-A10q	5.90E-05	4.84E-04	9.93E-06	1.80E-05		1.49E-04	6.19E-04	9.46E-06	3.64E-05		1.15E-04	2.38E-03	1.41E-05

Details of Predicted Heavy Metals (HM) at ASRs

Pollutants		RSP Mitigated Concentration from all ASR (µg/m³)		
Criteria		Hourly	Daily	Annual
ASR_ID	Assessment Height (mAG)	Model Results		
MAX		221.82	26.53	7.22
P01	1.5	175.99	25.83	5.21
P02	1.5	152.46	26.12	4.20
P03	1.5	170.36	26.53	4.24
P04	1.5	148.78	26.45	3.78
P10	1.5	157.29	21.37	3.37
P11	1.5	179.50	25.03	4.13
P12	1.5	181.56	23.60	4.31
P13	1.5	159.02	22.63	3.60
P14	1.5	120.72	19.87	2.16
P15	1.5	132.44	20.74	2.34
P16	1.5	139.08	24.02	3.02

Cumulative Heavy Metal Results

Calculation = Bg. Conc. + Avg. Conc. x RSP = umulative Results

Pollutants	Arsenic	Barium	Cadmium	Cobalt	Chromium metal and Chromium (III)	Chromium (VI) (Hexavalent Chromium)	Copper	Molybdenum	Nickel	Lead	Tin	Zinc	Mercury
Criteria	Max 1hr	Max 1hr	Max 1hr	Max 1hr	Max 1hr	Max 1hr	Max 1hr	Max 1hr	Max 1hr	Max 1hr	Max 1hr	Max 1hr	Max 1hr
Average Concentr	1.63E-05	1.34E-04	2.74E-06	4.96E-06	1.46E-05	1.08E-05	1.71E-04	2.61E-06	1.00E-05	3.77E-04	3.16E-05	6.57E-04	3.88E-06
Background	n/a	n/a	n/a	n/a	n/a	1.10E-04	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Limit	2.00E-01	5.00E+00	1.00E-01	2.00E-01	n/a	8.50E-03	1.00E+02	3.00E+01	2.00E-01	n/a	2.00E+01	2.00E+01	6.00E-01
Meet Criteria?	Yes	Yes	Yes	Yes		Yes	Yes	Yes	Yes		Yes	Yes	Yes
MAX	3.61E-03	2.97E-02	6.08E-04	1.10E-03		2.51E-03	3.79E-02	5.79E-04	2.23E-03		7.01E-03	1.46E-01	8.61E-04
P01	2.87E-03	2.35E-02	4.82E-04	8.73E-04		2.01E-03	3.01E-02	4.59E-04	1.77E-03		5.56E-03	1.16E-01	6.83E-04
P02	2.48E-03	2.04E-02	4.18E-04	7.56E-04		1.76E-03	2.60E-02	3.98E-04	1.53E-03		4.82E-03	1.00E-01	5.92E-04
P03	2.78E-03	2.28E-02	4.67E-04	8.45E-04		1.95E-03	2.91E-02	4.45E-04	1.71E-03		5.39E-03	1.12E-01	6.61E-04
P04	2.42E-03	1.99E-02	4.08E-04	7.38E-04		1.72E-03	2.54E-02	3.88E-04	1.49E-03		4.70E-03	9.78E-02	5.77E-04
P10	2.56E-03	2.10E-02	4.31E-04	7.80E-04		1.81E-03	2.69E-02	4.11E-04	1.58E-03		4.97E-03	1.03E-01	6.10E-04
P11	2.92E-03	2.40E-02	4.92E-04	8.90E-04		2.05E-03	3.07E-02	4.69E-04	1.80E-03		5.68E-03	1.18E-01	6.96E-04
P12	2.96E-03	2.43E-02	4.97E-04	9.01E-04		2.07E-03	3.10E-02	4.74E-04	1.82E-03		5.74E-03	1.19E-01	7.04E-04
P13	2.59E-03	2.13E-02	4.36E-04	7.89E-04		1.83E-03	2.72E-02	4.15E-04	1.60E-03		5.03E-03	1.05E-01	6.17E-04
P14	1.97E-03	1.61E-02	3.31E-04	5.99E-04		1.41E-03	2.06E-02	3.15E-04	1.21E-03		3.82E-03	7.94E-02	4.68E-04
P15	2.16E-03	1.77E-02	3.63E-04	6.57E-04		1.54E-03	2.26E-02	3.46E-04	1.33E-03		4.19E-03	8.71E-02	5.14E-04
P16	2.27E-03	1.86E-02	3.81E-04	6.90E-04		1.61E-03	2.38E-02	3.63E-04	1.40E-03		4.40E-03	9.14E-02	5.40E-04

Details of Predicted Heavy Metals (HM) at ASRs

Pollutants		RSP Mitigated Concentration from all ASR (µg/m³)		
Criteria		Hourly	Daily	Annual
ASR_ID	Assessment Height (mAG)	Model Results		
MAX		221.82	26.53	7.22
KT-A1	1.5	127.11	19.41	1.46
KT-A1a	4	124.87	18.41	1.35
KT-A1b	8	99.41	12.90	1.03
KT-A1c	12	80.24	8.08	0.74
KT-A1d	16	57.61	6.02	0.56
KT-A1e	20	40.80	5.20	0.45
KT-A1f	30	25.16	3.78	0.30
KT-A1g	40	18.89	2.88	0.22
KT-A1h	50	14.93	2.25	0.17
KT-A1i	60	12.02	1.80	0.14
KT-A1j	70	9.80	1.46	0.11
KT-A1k	80	8.05	1.19	0.09
KT-A1l	90	6.65	0.97	0.08
KT-A1m	100	6.02	0.80	0.07
KT-A2	1.5	221.82	18.05	2.10
KT-A2a	4	216.81	16.29	1.82
KT-A2b	8	193.64	12.56	1.40
KT-A2c	12	129.68	9.65	1.00
KT-A2d	16	77.53	7.60	0.73
KT-A2e	20	50.33	6.11	0.55
KT-A2f	30	32.28	3.93	0.34
KT-A2g	40	22.65	2.79	0.24
KT-A2h	50	16.66	2.10	0.18
KT-A2i	60	12.63	1.63	0.15
KT-A2j	70	9.77	1.29	0.12
KT-A2k	80	7.69	1.04	0.10
KT-A2l	90	6.70	0.84	0.08
KT-A2m	100	5.97	0.69	0.07
KT-A2n	110	5.43	0.59	0.06
KT-A2o	120	4.95	0.53	0.05
KT-A2p	130	4.53	0.47	0.04
KT-A2q	140	4.15	0.42	0.04
KT-A2r	150	3.81	0.37	0.03
KT-A2s	160	3.50	0.33	0.03
KT-A2t	170	3.22	0.30	0.02
KT-A2u	180	2.97	0.27	0.02
KT-A3	1.5	120.00	14.30	1.15
KT-A3a	4	111.00	13.13	1.06
KT-A3b	8	84.39	10.82	0.87
KT-A3c	12	49.40	8.21	0.65
KT-A3d	16	33.11	6.27	0.51
KT-A3e	20	23.48	5.00	0.43
KT-A3f	30	18.28	3.17	0.30
KT-A3g	40	14.79	2.38	0.23
KT-A3h	50	11.96	1.96	0.18
KT-A3i	60	9.54	1.63	0.14
KT-A3j	70	7.48	1.34	0.11
KT-A3k	80	6.24	1.11	0.09
KT-A3l	90	5.52	0.91	0.08
KT-A3m	100	4.92	0.75	0.06
KT-A4	1.5	106.38	12.62	2.11
KT-A4a	4	91.33	11.30	1.96
KT-A4b	8	60.60	8.42	1.52
KT-A4c	12	38.78	5.70	1.09
KT-A4d	16	33.76	4.68	0.84
KT-A4e	20	29.15	3.99	0.67
KT-A4f	30	19.82	2.84	0.41
KT-A4g	40	13.40	2.06	0.26

Cumulative Heavy Metal Results

Calculation = Bg. Conc. + Avg. Conc. x RSP = umulative Results

Pollutants	Arsenic	Barium	Cadmium	Cobalt	Chromium metal and Chromium (III)	Chromium (VI) (Hexavalent Chromium)	Copper	Molybdenum	Nickel	Lead	Tin	Zinc	Mercury
Criteria	Max Daily	Max Daily	Max Daily	Max Daily	Max Daily	Max Daily	Max Daily	Max Daily	Max Daily	Max Daily	Max Daily	Max Daily	Max Daily
Average Concentr	1.63E-05	1.34E-04	2.74E-06	4.96E-06	1.46E-05	1.08E-05	1.71E-04	2.61E-06	1.00E-05	3.77E-04	3.16E-05	6.57E-04	3.88E-06
Background	n/a	n/a	n/a	n/a	n/a	1.10E-04	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Limit	3.60E-02	2.50E+00	3.00E-02	7.10E-02	5.00E-01	3.00E-01	3.60E+00	1.10E+01	2.00E-01	1.50E-01	1.00E+01	n/a	3.00E-01
Meet Criteria?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		Yes
MAX	4.32E-04	3.55E-03	7.27E-05	1.32E-04	3.87E-04	3.97E-04	4.53E-03	6.92E-05	2.66E-04	1.00E-02	8.39E-04		1.03E-04
KT-A1	3.16E-04	2.60E-03	5.32E-05	9.63E-05	2.83E-04	3.20E-04	3.32E-03	5.07E-05	1.95E-04	7.32E-03	6.14E-04		7.53E-05
KT-A1a	3.00E-04	2.46E-03	5.04E-05	9.13E-05	2.69E-04	3.09E-04	3.14E-03	4.80E-05	1.85E-04	6.94E-03	5.82E-04		7.14E-05
KT-A1b	2.10E-04	1.72E-03	3.53E-05	6.40E-05	1.88E-04	2.49E-04	2.20E-03	3.37E-05	1.30E-04	4.86E-03	4.08E-04		5.01E-05
KT-A1c	1.32E-04	1.08E-03	2.21E-05	4.01E-05	1.18E-04	1.97E-04	1.38E-03	2.11E-05	8.11E-05	3.04E-03	2.55E-04		3.13E-05
KT-A1d	9.81E-05	8.05E-04	1.65E-05	2.99E-05	8.78E-05	1.75E-04	1.03E-03	1.57E-05	6.04E-05	2.27E-03	1.90E-04		2.34E-05
KT-A1e	8.46E-05	6.95E-04	1.42E-05	2.58E-05	7.58E-05	1.66E-04	8.88E-04	1.36E-05	5.22E-05	1.96E-03	1.64E-04		2.02E-05
KT-A1f	6.16E-05	5.06E-04	1.04E-05	1.88E-05	5.52E-05	1.51E-04	6.46E-04	9.87E-06	3.80E-05	1.43E-03	1.20E-04		1.47E-05
KT-A1g	4.69E-05	3.85E-04	7.89E-06	1.43E-05	4.20E-05	1.41E-04	4.92E-04	7.52E-06	2.89E-05	1.09E-03	9.11E-05		1.12E-05
KT-A1h	3.67E-05	3.01E-04	6.17E-06	1.12E-05	3.29E-05	1.34E-04	3.85E-04	5.88E-06	2.26E-05	8.49E-04	7.12E-05		8.74E-06
KT-A1i	2.93E-05	2.40E-04	4.93E-06	8.92E-06	2.62E-05	1.29E-04	3.07E-04	4.70E-06	1.81E-05	6.78E-04	5.69E-05		6.98E-06
KT-A1j	2.37E-05	1.95E-04	3.99E-06	7.22E-06	2.12E-05	1.26E-04	2.49E-04	3.80E-06	1.46E-05	5.49E-04	4.60E-05		5.65E-06
KT-A1k	1.94E-05	1.59E-04	3.26E-06	5.89E-06	1.73E-05	1.23E-04	2.03E-04	3.10E-06	1.19E-05	4.48E-04	3.76E-05		4.61E-06
KT-A1l	1.59E-05	1.30E-04	2.67E-06	4.83E-06	1.42E-05	1.21E-04	1.66E-04	2.54E-06	9.78E-06	3.67E-04	3.08E-05		3.78E-06
KT-A1m	1.30E-05	1.07E-04	2.19E-06	3.97E-06	1.17E-05	1.19E-04	1.37E-04	2.09E-06	8.04E-06	3.02E-04	2.53E-05		3.11E-06
KT-A2	2.94E-04	2.41E-03	4.94E-05	8.95E-05	2.63E-04	3.05E-04	3.08E-03	4.71E-05	1.81E-04	6.80E-03	5.71E-04		7.00E-05
KT-A2a	2.65E-04	2.18E-03	4.46E-05	8.08E-05	2.38E-04	2.86E-04	2.78E-03	4.25E-05	1.64E-04	6.14E-03	5.15E-04		6.32E-05
KT-A2b	2.05E-04	1.68E-03	3.44E-05	6.23E-05	1.83E-04	2.46E-04	2.15E-03	3.28E-05	1.26E-04	4.73E-03	3.97E-04		4.87E-05
KT-A2c	1.57E-04	1.29E-03	2.64E-05	4.79E-05	1.41E-04	2.14E-04	1.65E-03	2.52E-05	9.69E-05	3.64E-03	3.05E-04		3.74E-05
KT-A2d	1.24E-04	1.02E-03	2.08E-05	3.77E-05	1.11E-04	1.92E-04	1.30E-03	1.98E-05	7.63E-05	2.86E-03	2.40E-04		2.95E-05
KT-A2e	9.96E-05	8.17E-04	1.67E-05	3.03E-05	8.92E-05	1.76E-04	1.04E-03	1.60E-05	6.14E-05	2.30E-03	1.93E-04		2.37E-05
KT-A2f	6.40E-05	5.25E-04	1.08E-05	1.95E-05	5.73E-05	1.52E-04	6.71E-04	1.03E-05	3.94E-05	1.48E-03	1.24E-04		1.52E-05
KT-A2g	4.55E-05	3.74E-04	7.66E-06	1.39E-05	4.08E-05	1.40E-04	4.77E-04	7.29E-06	2.81E-05	1.05E-03	8.84E-05		1.08E-05
KT-A2h	3.42E-05	2.80E-04	5.75E-06	1.04E-05	3.06E-05	1.33E-04	3.58E-04	5.47E-06	2.11E-05	7.90E-04	6.63E-05		8.14E-06
KT-A2i	2.65E-05	2.17E-04	4.45E-06	8.06E-06	2.37E-05	1.28E-04	2.78E-04	4.24E-06	1.63E-05	6.13E-04	5.14E-05		6.31E-06
KT-A2j	2.10E-05	1.72E-04	3.53E-06	6.39E-06	1.88E-05	1.24E-04	2.20E-04	3.36E-06	1.29E-05	4.85E-04	4.07E-05		5.00E-06
KT-A2k	1.69E-05	1.39E-04	2.84E-06	5.14E-06	1.51E-05	1.21E-04	1.77E-04	2.70E-06	1.04E-05	3.90E-04	3.28E-05		4.02E-06
KT-A2l	1.37E-05	1.13E-04	2.31E-06	4.18E-06	1.23E-05	1.19E-04	1.44E-04	2.20E-06	8.46E-06	3.18E-04	2.66E-05		3.27E-06
KT-A2m	1.13E-05	9.24E-05	1.89E-06	3.43E-06	1.01E-05	1.17E-04	1.18E-04	1.80E-06	6.94E-06	2.60E-04	2.19E-05		2.68E-06
KT-A2n	9.64E-06	7.91E-05	1.62E-06	2.93E-06	8.63E-06	1.16E-04	1.01E-04	1.54E-06	5.94E-06	2.23E-04	1.87E-05		2.30E-06
KT-A2o	8.56E-06	7.02E-05	1.44E-06	2.61E-06	7.66E-06	1.16E-04	8.98E-05	1.37E-06	5.27E-06	1.98E-04	1.66E-05		2.04E-06
KT-A2p	7.62E-06	6.25E-05	1.28E-06	2.32E-06	6.82E-06	1.15E-04	7.99E-05	1.22E-06	4.69E-06	1.76E-04	1.48E-05		1.81E-06
KT-A2q	6.79E-06	5.57E-05	1.14E-06	2.07E-06	6.08E-06	1.15E-04	7.12E-05	1.09E-06	4.19E-06	1.57E-04	1.32E-05		1.62E-06
KT-A2r	6.06E-06	4.98E-05	1.02E-06	1.85E-06	5.43E-06	1.14E-04	6.36E-05	9.72E-07	3.74E-06	1.40E-04	1.18E-05		1.44E-06
KT-A2s	5.42E-06	4.45E-05	9.12E-07	1.65E-06	4.86E-06	1.14E-04	5.69E-05	8.69E-07	3.34E-06	1.25E-04	1.05E-05		1.29E-06
KT-A2t	4.86E-06	3.99E-05	8.18E-07	1.48E-06	4.35E-06	1.13E-04	5.10E-05	7.79E-07	3.00E-06	1.12E-04	9.43E-06		1.16E-06
KT-A2u	4.36E-06	3.58E-05	7.34E-07	1.33E-06	3.91E-06	1.13E-04	4.58E-05	6.99E-07	2.69E-06	1.01E-04	8.47E-06		1.04E-06
KT-A3	2.33E-04	1.91E-03	3.92E-05	7.09E-05	2.09E-04	2.65E-04	2.44E-03	3.73E-05	1.44E-04	5.39E-03	4.52E-04		5.55E-05
KT-A3a	2.14E-04	1.76E-03	3.60E-05	6.51E-05	1.92E-04	2.52E-04	2.24E-03	3.43E-05	1.32E-04	4.95E-03	4.15E-04		5.10E-05
KT-A3b	1.76E-04	1.45E-03	2.97E-05	5.37E-05	1.58E-04	2.27E-04	1.85E-03	2.82E-05	1.09E-04	4.08E-03	3.42E-04		4.20E-05
KT-A3c	1.34E-04	1.10E-03	2.25E-05	4.07E-05	1.20E-04	1.99E-04	1.40E-03	2.14E-05	8.24E-05	3.09E-03	2.60E-04		3.19E-05
KT-A3d	1.02E-04	8.39E-04	1.72E-05	3.11E-05	9.15E-05	1.78E-04	1.07E-03	1.64E-05	6.30E-05	2.36E-03	1.98E-04		2.43E-05
KT-A3e	8.14E-05	6.68E-04	1.37E-05	2.48E-05	7.29E-05	1.64E-04	8.54E-04	1.30E-05	5.02E-05	1.88E-03	1.58E-04		1.94E-05
KT-A3f	5.16E-05	4.23E-04	8.67E-06	1.57E-05	4.62E-05	1.44E-04	5.41E-04	8.26E-06	3.18E-05	1.19E-03	1.00E-04		1.23E-05
KT-A3g	3.87E-05	3.18E-04	6.51E-06	1.18E-05	3.47E-05	1.36E-04	4.06E-04	6.20E-06	2.39E-05	8.96E-04	7.52E-05		9.22E-06
KT-A3h	3.20E-05	2.63E-04	5.38E-06	9.74E-06	2.87E-05	1.31E-04	3.36E-04	5.13E-06	1.97E-05	7.40E-04	6.21E-05		7.62E-06
KT-A3i	2.65E-05	2.17E-04	4.45E-06	8.06E-06	2.37E-05	1.28E-04	2.78E-04	4.24E-06	1.63E-05	6.12E-04	5.14E-05		6.31E-06
KT-A3j	2.19E-05	1.80E-04	3.69E-06	6.67E-06	1.96E-05	1.25E-04	2.30E-04	3.51E-06	1.35E-05	5.07E-04	4.25E-05		5.22E-06
KT-A3k	1.81E-05	1.48E-04	3.04E-06	5.50E-06	1.62E-05	1.22E-04	1.90E-04	2.90E-06	1.11E-05	4.18E-04	3.51E-05		4.30E-06
KT-A3l	1.49E-05	1.22E-04	2.50E-06	4.53E-06	1.33E-05	1.20E-04	1.56E-04	2.38E-06	9.16E-06	3.44E-04	2.89E-05		3.54E-06
KT-A3m	1.22E-05	1.00E-04	2.05E-06	3.72E-06	1.09E-05	1.18E-04	1.28E-04	1.96E-06	7.53E-06	2.83E-04	2.37E-05		2.91E-06
KT-A4	2.06E-04	1.69E-03	3.46E-05	6.26E-05	1.84E-04	2.46E-04	2.16E-03	3.29E-05	1.27E-04	4.75E-03	3.99E-04		4.90E-05
KT-A4a	1.84E-04	1.51E-03	3.10E-05	5.60E-05	1.65E-04	2.32E-04	1.93E-03	2.95E-05	1.13E-04	4.26E-03	3.57E-04		4.38E-05
KT-A4b	1.37E-04	1.13E-03	2.31E-05	4.18E-05	1.23E-04	2.01E-04	1.44E-03	2.20E-05	8.46E-05	3.17E-03	2.66E-04		3.27E-05
KT-A4c	9.28E-05	7.62E-04	1.56E-05	2.83E-05	8.31E-05	1.72E-04	9.73E-04	1.49E-05	5.72E-05	2.15E-03	1.80E-04		2.21E-05
KT-A4d	7.62E-05	6.25E-04	1.28E-05	2.32E-05	6.83E-05	1.61E-04	7.99E-04	1.22E-05	4.70E-05	1.76E-03	1.48E-04		1.82E-05
KT-A4e	6.49E-05	5.33E-04	1.09E-05	1.98E-05	5.81E-05	1.53E-04	6.81E-04	1.04E-05	4.00E-05	1.50E-03	1.26E-04		1.55E-05
KT-A4f	4.63E-05	3.80E-04	7.78E-06	1.41E-05	4.14E-05	1.41E-04	4.85E-04	7.41E-06	2.85E-05	1.07E-03	8.98E-05		1.10E-05
KT-A4g	3.36E-05	2.76E-04	5.65E-06	1.02E-05	3.01E-05	1.32E-04	3.53E-04	5.39E-06	2.07E-05	7.78E-04	6.53E-05		8.01E-06

Details of Predicted Heavy Metals (HM) at ASRs

Pollutants		RSP Mitigated Concentration from all ASR (µg/m³)		
Criteria		Hourly	Daily	Annual
ASR_ID	Assessment Height (mAG)	Model Results		
MAX		221.82	26.53	7.22
KT-A4h	50	9.14	1.51	0.18
KT-A4i	60	6.93	1.12	0.13
KT-A4j	70	6.21	0.85	0.10
KT-A4k	80	5.55	0.65	0.07
KT-A4l	90	4.96	0.54	0.06
KT-A4m	100	4.42	0.46	0.05
KT-A4n	110	3.94	0.39	0.04
KT-A4o	120	3.50	0.34	0.03
KT-A5	1.5	168.64	19.24	7.22
KT-A5a	4	160.23	17.25	6.41
KT-A5b	8	107.09	11.85	4.60
KT-A5c	12	55.05	7.73	3.04
KT-A5d	16	41.17	6.11	2.05
KT-A5e	20	31.13	4.82	1.42
KT-A6	1.5	136.14	18.87	5.43
KT-A6a	4	156.47	19.60	5.49
KT-A6b	8	102.48	13.66	3.90
KT-A6c	12	64.26	9.01	2.62
KT-A7	1.5	90.50	9.49	1.98
KT-A7a	4	74.97	8.49	1.87
KT-A7b	8	45.64	6.77	1.49
KT-A7c	12	37.86	5.51	1.08
KT-A7d	16	30.90	4.53	0.83
KT-A7e	20	25.06	3.82	0.65
KT-A8	1.5	133.66	18.92	6.16
KT-A8a	4	129.37	18.24	6.01
KT-A8b	8	93.24	14.45	4.91
KT-A8c	12	60.30	9.37	3.59
KT-A8d	16	40.88	6.12	2.56
KT-A8e	20	21.60	4.72	1.85
KT-A8f	30	17.24	2.80	0.90
KT-A8g	40	14.04	1.98	0.48
KT-A8h	50	10.93	1.43	0.27
KT-A8i	60	8.24	1.07	0.16
KT-A8j	70	6.09	0.80	0.10
KT-A8k	80	4.67	0.61	0.07
KT-A8l	90	3.97	0.50	0.05
KT-A8m	100	3.36	0.42	0.03
KT-A9	1.5	135.29	18.26	6.58
KT-A9a	4	141.57	18.63	6.43
KT-A9b	8	100.65	12.98	4.59
KT-A10	1.5	102.63	11.63	0.79
KT-A10a	4	93.95	10.73	0.74
KT-A10b	8	70.41	8.99	0.62
KT-A10c	12	43.24	7.04	0.49
KT-A10d	16	31.23	5.53	0.39
KT-A10e	20	23.76	4.49	0.33
KT-A10f	30	17.82	2.98	0.24
KT-A10g	40	13.36	2.23	0.19
KT-A10h	50	11.17	1.90	0.15
KT-A10i	60	9.44	1.63	0.13
KT-A10j	70	7.87	1.39	0.11
KT-A10k	80	6.59	1.18	0.09
KT-A10l	90	5.96	1.00	0.08
KT-A10m	100	5.37	0.84	0.07
KT-A10n	110	4.82	0.71	0.06
KT-A10o	120	4.33	0.59	0.05
KT-A10p	130	3.91	0.50	0.04
KT-A10q	140	3.62	0.42	0.04

Cumulative Heavy Metal Results

Calculation = Bg. Conc. + Avg. Conc. x RSP = umulative Results

Pollutants	Arsenic	Barium	Cadmium	Cobalt	Chromium metal and Chromium (III)	Chromium (VI) (Hexavalent Chromium)	Copper	Molybdenum	Nickel	Lead	Tin	Zinc	Mercury
Criteria	Max Daily	Max Daily	Max Daily	Max Daily	Max Daily	Max Daily	Max Daily	Max Daily	Max Daily	Max Daily	Max Daily	Max Daily	Max Daily
Average Concentr	1.63E-05	1.34E-04	2.74E-06	4.96E-06	1.46E-05	1.08E-05	1.71E-04	2.61E-06	1.00E-05	3.77E-04	3.16E-05	6.57E-04	3.88E-06
Background	n/a	n/a	n/a	n/a	n/a	1.10E-04	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Limit	3.60E-02	2.50E+00	3.00E-02	7.10E-02	5.00E-01	3.00E-01	3.60E+00	1.10E+01	2.00E-01	1.50E-01	1.00E+01	n/a	3.00E-01
Meet Criteria?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		Yes
MAX	4.32E-04	3.55E-03	7.27E-05	1.32E-04	3.87E-04	3.97E-04	4.53E-03	6.92E-05	2.66E-04	1.00E-02	8.39E-04		1.03E-04
KT-A4h	2.46E-05	2.02E-04	4.14E-06	7.50E-06	2.21E-05	1.26E-04	2.58E-04	3.95E-06	1.52E-05	5.70E-04	4.78E-05		5.87E-06
KT-A4i	1.83E-05	1.50E-04	3.08E-06	5.57E-06	1.64E-05	1.22E-04	1.92E-04	2.93E-06	1.13E-05	4.23E-04	3.55E-05		4.36E-06
KT-A4j	1.38E-05	1.13E-04	2.33E-06	4.21E-06	1.24E-05	1.19E-04	1.45E-04	2.22E-06	8.52E-06	3.20E-04	2.68E-05		3.29E-06
KT-A4k	1.07E-05	8.74E-05	1.79E-06	3.24E-06	9.54E-06	1.17E-04	1.12E-04	1.71E-06	6.56E-06	2.46E-04	2.07E-05		2.54E-06
KT-A4l	8.74E-06	7.17E-05	1.47E-06	2.66E-06	7.83E-06	1.16E-04	9.17E-05	1.40E-06	5.39E-06	2.02E-04	1.70E-05		2.08E-06
KT-A4m	7.46E-06	6.12E-05	1.26E-06	2.27E-06	6.68E-06	1.15E-04	7.83E-05	1.20E-06	4.60E-06	1.73E-04	1.45E-05		1.78E-06
KT-A4n	6.42E-06	5.27E-05	1.08E-06	1.96E-06	5.75E-06	1.14E-04	6.74E-05	1.03E-06	3.96E-06	1.49E-04	1.25E-05		1.53E-06
KT-A4o	5.56E-06	4.57E-05	9.36E-07	1.69E-06	4.98E-06	1.14E-04	5.84E-05	8.91E-07	3.43E-06	1.29E-04	1.08E-05		1.33E-06
KT-A5	3.13E-04	2.57E-03	5.27E-05	9.54E-05	2.81E-04	3.18E-04	3.29E-03	5.02E-05	1.93E-04	7.25E-03	6.08E-04		7.47E-05
KT-A5a	2.81E-04	2.31E-03	4.73E-05	8.56E-05	2.52E-04	2.96E-04	2.95E-03	4.50E-05	1.73E-04	6.50E-03	5.45E-04		6.69E-05
KT-A5b	1.93E-04	1.58E-03	3.25E-05	5.88E-05	1.73E-04	2.38E-04	2.02E-03	3.09E-05	1.19E-04	4.46E-03	3.75E-04		4.60E-05
KT-A5c	1.26E-04	1.03E-03	2.12E-05	3.84E-05	1.13E-04	1.94E-04	1.32E-03	2.02E-05	7.76E-05	2.91E-03	2.45E-04		3.00E-05
KT-A5d	9.95E-05	8.17E-04	1.67E-05	3.03E-05	8.92E-05	1.76E-04	1.04E-03	1.59E-05	6.14E-05	2.30E-03	1.93E-04		2.37E-05
KT-A5e	7.86E-05	6.45E-04	1.32E-05	2.39E-05	7.04E-05	1.62E-04	8.24E-04	1.26E-05	4.84E-05	1.82E-03	1.53E-04		1.87E-05
KT-A6	3.07E-04	2.52E-03	5.17E-05	9.36E-05	2.75E-04	3.14E-04	3.22E-03	4.93E-05	1.89E-04	7.11E-03	5.97E-04		7.32E-05
KT-A6a	3.19E-04	2.62E-03	5.37E-05	9.72E-05	2.86E-04	3.22E-04	3.35E-03	5.11E-05	1.97E-04	7.38E-03	6.20E-04		7.60E-05
KT-A6b	2.23E-04	1.83E-03	3.74E-05	6.78E-05	1.99E-04	2.58E-04	2.33E-03	3.57E-05	1.37E-04	5.15E-03	4.32E-04		5.30E-05
KT-A6c	1.47E-04	1.20E-03	2.47E-05	4.47E-05	1.32E-04	2.07E-04	1.54E-03	2.35E-05	9.05E-05	3.40E-03	2.85E-04		3.50E-05
KT-A7	1.55E-04	1.27E-03	2.60E-05	4.71E-05	1.38E-04	2.13E-04	1.62E-03	2.48E-05	9.53E-05	3.58E-03	3.00E-04		3.68E-05
KT-A7a	1.38E-04	1.14E-03	2.33E-05	4.21E-05	1.24E-04	2.02E-04	1.45E-03	2.22E-05	8.53E-05	3.20E-03	2.69E-04		3.30E-05
KT-A7b	1.10E-04	9.05E-04	1.86E-05	3.36E-05	9.88E-05	1.83E-04	1.16E-03	1.77E-05	6.80E-05	2.55E-03	2.14E-04		2.63E-05
KT-A7c	8.97E-05	7.36E-04	1.51E-05	2.73E-05	8.04E-05	1.70E-04	9.41E-04	1.44E-05	5.53E-05	2.08E-03	1.74E-04		2.14E-05
KT-A7d	7.39E-05	6.06E-04	1.24E-05	2.25E-05	6.62E-05	1.59E-04	7.75E-04	1.18E-05	4.55E-05	1.71E-03	1.43E-04		1.76E-05
KT-A7e	6.22E-05	5.10E-04	1.05E-05	1.89E-05	5.57E-05	1.51E-04	6.52E-04	9.97E-06	3.83E-05	1.44E-03	1.21E-04		1.48E-05
KT-A8	3.08E-04	2.53E-03	5.18E-05	9.38E-05	2.76E-04	3.15E-04	3.23E-03	4.94E-05	1.90E-04	7.13E-03	5.98E-04		7.34E-05
KT-A8a	2.97E-04	2.44E-03	5.00E-05	9.05E-05	2.66E-04	3.07E-04	3.12E-03	4.76E-05	1.83E-04	6.87E-03	5.77E-04		7.08E-05
KT-A8b	2.35E-04	1.93E-03	3.96E-05	7.17E-05	2.11E-04	2.66E-04	2.47E-03	3.77E-05	1.45E-04	5.44E-03	4.57E-04		5.61E-05
KT-A8c	1.53E-04	1.25E-03	2.57E-05	4.65E-05	1.37E-04	2.11E-04	1.60E-03	2.45E-05	9.41E-05	3.53E-03	2.96E-04		3.64E-05
KT-A8d	9.97E-05	8.18E-04	1.68E-05	3.03E-05	8.93E-05	1.76E-04	1.05E-03	1.60E-05	6.14E-05	2.31E-03	1.93E-04		2.37E-05
KT-A8e	7.70E-05	6.32E-04	1.29E-05	2.34E-05	6.89E-05	1.61E-04	8.07E-04	1.23E-05	4.74E-05	1.78E-03	1.49E-04		1.83E-05
KT-A8f	4.56E-05	3.74E-04	7.67E-06	1.39E-05	4.09E-05	1.40E-04	4.78E-04	7.31E-06	2.81E-05	1.06E-03	8.85E-05		1.09E-05
KT-A8g	3.22E-05	2.64E-04	5.41E-06	9.80E-06	2.88E-05	1.31E-04	3.38E-04	5.16E-06	1.98E-05	7.44E-04	6.25E-05		7.67E-06
KT-A8h	2.34E-05	1.92E-04	3.93E-06	7.11E-06	2.09E-05	1.26E-04	2.45E-04	3.74E-06	1.44E-05	5.40E-04	4.53E-05		5.56E-06
KT-A8i	1.75E-05	1.43E-04	2.94E-06	5.32E-06	1.56E-05	1.22E-04	1.83E-04	2.80E-06	1.08E-05	4.04E-04	3.39E-05		4.16E-06
KT-A8j	1.30E-05	1.07E-04	2.19E-06	3.97E-06	1.17E-05	1.19E-04	1.37E-04	2.09E-06	8.04E-06	3.02E-04	2.53E-05		3.11E-06
KT-A8k	9.96E-06	8.18E-05	1.68E-06	3.03E-06	8.92E-06	1.17E-04	1.05E-04	1.60E-06	6.14E-06	2.30E-04	1.93E-05		2.37E-06
KT-A8l	8.20E-06	6.73E-05	1.38E-06	2.50E-06	7.35E-06	1.15E-04	8.60E-05	1.31E-06	5.06E-06	1.90E-04	1.59E-05		1.95E-06
KT-A8m	6.81E-06	5.59E-05	1.14E-06	2.07E-06	6.10E-06	1.15E-04	7.14E-05	1.09E-06	4.20E-06	1.57E-04	1.32E-05		1.62E-06
KT-A9	2.97E-04	2.44E-03	5.00E-05	9.06E-05	2.66E-04	3.07E-04	3.12E-03	4.77E-05	1.83E-04	6.88E-03	5.77E-04		7.08E-05
KT-A9a	3.04E-04	2.49E-03	5.11E-05	9.24E-05	2.72E-04	3.11E-04	3.18E-03	4.86E-05	1.87E-04	7.02E-03	5.89E-04		7.23E-05
KT-A9b	2.11E-04	1.74E-03	3.56E-05	6.44E-05	1.89E-04	2.50E-04	2.22E-03	3.39E-05	1.30E-04	4.89E-03	4.10E-04		5.04E-05
KT-A10	1.90E-04	1.56E-03	3.19E-05	5.77E-05	1.70E-04	2.36E-04	1.99E-03	3.04E-05	1.17E-04	4.38E-03	3.68E-04		4.51E-05
KT-A10a	1.75E-04	1.43E-03	2.94E-05	5.32E-05	1.56E-04	2.26E-04	1.83E-03	2.80E-05	1.08E-04	4.04E-03	3.39E-04		4.16E-05
KT-A10b	1.46E-04	1.20E-03	2.46E-05	4.46E-05	1.31E-04	2.07E-04	1.54E-03	2.35E-05	9.02E-05	3.39E-03	2.84E-04		3.49E-05
KT-A10c	1.15E-04	9.41E-04	1.93E-05	3.49E-05	1.03E-04	1.86E-04	1.20E-03	1.84E-05	7.07E-05	2.65E-03	2.23E-04		2.73E-05
KT-A10d	9.00E-05	7.39E-04	1.51E-05	2.74E-05	8.06E-05	1.70E-04	9.44E-04	1.44E-05	5.55E-05	2.08E-03	1.75E-04		2.14E-05
KT-A10e	7.32E-05	6.01E-04	1.23E-05	2.23E-05	6.55E-05	1.59E-04	7.68E-04	1.17E-05	4.51E-05	1.69E-03	1.42E-04		1.74E-05
KT-A10f	4.85E-05	3.98E-04	8.16E-06	1.48E-05	4.35E-05	1.42E-04	5.09E-04	7.77E-06	2.99E-05	1.12E-03	9.42E-05		1.16E-05
KT-A10g	3.63E-05	2.98E-04	6.10E-06	1.10E-05	3.25E-05	1.34E-04	3.81E-04	5.81E-06	2.24E-05	8.39E-04	7.04E-05		8.64E-06
KT-A10h	3.10E-05	2.54E-04	5.21E-06	9.43E-06	2.77E-05	1.31E-04	3.25E-04	4.96E-06	1.91E-05	7.16E-04	6.01E-05		7.38E-06
KT-A10i	2.65E-05	2.17E-04	4.46E-06	8.07E-06	2.37E-05	1.28E-04	2.78E-04	4.25E-06	1.63E-05	6.13E-04	5.14E-05		6.31E-06
KT-A10j	2.27E-05	1.86E-04	3.81E-06	6.90E-06	2.03E-05	1.25E-04	2.38E-04	3.63E-06	1.40E-05	5.24E-04	4.40E-05		5.40E-06
KT-A10k	1.93E-05	1.58E-04	3.24E-06	5.87E-06	1.73E-05	1.23E-04	2.02E-04	3.09E-06	1.19E-05	4.46E-04	3.74E-05		4.59E-06
KT-A10l	1.63E-05	1.34E-04	2.75E-06	4.97E-06	1.46E-05	1.21E-04	1.71E-04	2.62E-06	1.01E-05	3.78E-04	3.17E-05		3.89E-06
KT-A10m	1.38E-05	1.13E-04	2.31E-06	4.19E-06	1.23E-05	1.19E-04	1.44E-04	2.20E-06	8.48E-06	3.18E-04	2.67E-05		3.28E-06
KT-A10n	1.16E-05	9.48E-05	1.94E-06	3.52E-06	1.03E-05	1.18E-04	1.21E-04	1.85E-06	7.12E-06	2.67E-04	2.24E-05		2.75E-06
KT-A10o	9.69E-06	7.95E-05	1.63E-06	2.95E-06	8.68E-06	1.16E-04	1.02E-04	1.55E-06	5.97E-06	2.24E-04	1.88E-05		2.31E-06
KT-A10p	8.12E-06	6.66E-05	1.37E-06	2.47E-06	7.27E-06	1.15E-04	8.52E-05	1.30E-06	5.00E-06	1.88E-04	1.58E-05		1.93E-06
KT-A10q	6.81E-06	5.59E-05	1.14E-06	2.07E-06	6.10E-06	1.15E-04	7.14E-05	1.09E-06	4.20E-06	1.57E-04	1.32E-05		1.62E-06

Details of Predicted Heavy Metals (HM) at ASRs

Pollutants		RSP Mitigated Concentration from all ASR (µg/m³)		
Criteria		Hourly	Daily	Annual
ASR_ID	Assessment Height (mAG)	Model Results		
MAX		221.82	26.53	7.22
P01	1.5	175.99	25.83	5.21
P02	1.5	152.46	26.12	4.20
P03	1.5	170.36	26.53	4.24
P04	1.5	148.78	26.45	3.78
P10	1.5	157.29	21.37	3.37
P11	1.5	179.50	25.03	4.13
P12	1.5	181.56	23.60	4.31
P13	1.5	159.02	22.63	3.60
P14	1.5	120.72	19.87	2.16
P15	1.5	132.44	20.74	2.34
P16	1.5	139.08	24.02	3.02

Cumulative Heavy Metal Results

Calculation = Bg. Conc. + Avg. Conc. x RSP = umulative Results

Pollutants	Arsenic	Barium	Cadmium	Cobalt	Chromium metal and Chromium (III)	Chromium (VI) (Hexavalent Chromium)	Copper	Molybdenum	Nickel	Lead	Tin	Zinc	Mercury
Criteria	Max Daily	Max Daily	Max Daily	Max Daily	Max Daily	Max Daily	Max Daily	Max Daily	Max Daily	Max Daily	Max Daily	Max Daily	Max Daily
Average Concentr	1.63E-05	1.34E-04	2.74E-06	4.96E-06	1.46E-05	1.08E-05	1.71E-04	2.61E-06	1.00E-05	3.77E-04	3.16E-05	6.57E-04	3.88E-06
Background	n/a	n/a	n/a	n/a	n/a	1.10E-04	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Limit	3.60E-02	2.50E+00	3.00E-02	7.10E-02	5.00E-01	3.00E-01	3.60E+00	1.10E+01	2.00E-01	1.50E-01	1.00E+01	n/a	3.00E-01
Meet Criteria?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		Yes
MAX	4.32E-04	3.55E-03	7.27E-05	1.32E-04	3.87E-04	3.97E-04	4.53E-03	6.92E-05	2.66E-04	1.00E-02	8.39E-04		1.03E-04
P01	4.21E-04	3.45E-03	7.08E-05	1.28E-04	3.77E-04	3.89E-04	4.41E-03	6.74E-05	2.59E-04	9.73E-03	8.17E-04		1.00E-04
P02	4.25E-04	3.49E-03	7.16E-05	1.30E-04	3.81E-04	3.92E-04	4.46E-03	6.82E-05	2.62E-04	9.84E-03	8.26E-04		1.01E-04
P03	4.32E-04	3.55E-03	7.27E-05	1.32E-04	3.87E-04	3.97E-04	4.53E-03	6.92E-05	2.66E-04	1.00E-02	8.39E-04		1.03E-04
P04	4.31E-04	3.54E-03	7.25E-05	1.31E-04	3.86E-04	3.96E-04	4.52E-03	6.90E-05	2.66E-04	9.97E-03	8.36E-04		1.03E-04
P10	3.48E-04	2.86E-03	5.85E-05	1.06E-04	3.12E-04	3.41E-04	3.65E-03	5.58E-05	2.15E-04	8.05E-03	6.76E-04		8.29E-05
P11	4.08E-04	3.35E-03	6.86E-05	1.24E-04	3.65E-04	3.81E-04	4.28E-03	6.53E-05	2.51E-04	9.43E-03	7.91E-04		9.71E-05
P12	3.85E-04	3.16E-03	6.47E-05	1.17E-04	3.44E-04	3.65E-04	4.03E-03	6.16E-05	2.37E-04	8.89E-03	7.46E-04		9.16E-05
P13	3.69E-04	3.03E-03	6.20E-05	1.12E-04	3.30E-04	3.55E-04	3.87E-03	5.91E-05	2.27E-04	8.53E-03	7.16E-04		8.78E-05
P14	3.24E-04	2.66E-03	5.44E-05	9.85E-05	2.90E-04	3.25E-04	3.39E-03	5.19E-05	1.99E-04	7.49E-03	6.28E-04		7.71E-05
P15	3.38E-04	2.77E-03	5.68E-05	1.03E-04	3.03E-04	3.34E-04	3.54E-03	5.41E-05	2.08E-04	7.82E-03	6.56E-04		8.05E-05
P16	3.91E-04	3.21E-03	6.58E-05	1.19E-04	3.50E-04	3.70E-04	4.10E-03	6.27E-05	2.41E-04	9.05E-03	7.60E-04		9.32E-05

Details of Predicted Heavy Metals (HM) at ASRs

Pollutants		RSP Mitigated Concentration from all ASR (µg/m³)		
Criteria		Hourly	Daily	Annual
ASR_ID	Assessment Height (mAG)	Model Results		
MAX		221.82	26.53	7.22
KT-A1	1.5	127.11	19.41	1.46
KT-A1a	4	124.87	18.41	1.35
KT-A1b	8	99.41	12.90	1.03
KT-A1c	12	80.24	8.08	0.74
KT-A1d	16	57.61	6.02	0.56
KT-A1e	20	40.80	5.20	0.45
KT-A1f	30	25.16	3.78	0.30
KT-A1g	40	18.89	2.88	0.22
KT-A1h	50	14.93	2.25	0.17
KT-A1i	60	12.02	1.80	0.14
KT-A1j	70	9.80	1.46	0.11
KT-A1k	80	8.05	1.19	0.09
KT-A1l	90	6.65	0.97	0.08
KT-A1m	100	6.02	0.80	0.07
KT-A2	1.5	221.82	18.05	2.10
KT-A2a	4	216.81	16.29	1.82
KT-A2b	8	193.64	12.56	1.40
KT-A2c	12	129.68	9.65	1.00
KT-A2d	16	77.53	7.60	0.73
KT-A2e	20	50.33	6.11	0.55
KT-A2f	30	32.28	3.93	0.34
KT-A2g	40	22.65	2.79	0.24
KT-A2h	50	16.66	2.10	0.18
KT-A2i	60	12.63	1.63	0.15
KT-A2j	70	9.77	1.29	0.12
KT-A2k	80	7.69	1.04	0.10
KT-A2l	90	6.70	0.84	0.08
KT-A2m	100	5.97	0.69	0.07
KT-A2n	110	5.43	0.59	0.06
KT-A2o	120	4.95	0.53	0.05
KT-A2p	130	4.53	0.47	0.04
KT-A2q	140	4.15	0.42	0.04
KT-A2r	150	3.81	0.37	0.03
KT-A2s	160	3.50	0.33	0.03
KT-A2t	170	3.22	0.30	0.02
KT-A2u	180	2.97	0.27	0.02
KT-A3	1.5	120.00	14.30	1.15
KT-A3a	4	111.00	13.13	1.06
KT-A3b	8	84.39	10.82	0.87
KT-A3c	12	49.40	8.21	0.65
KT-A3d	16	33.11	6.27	0.51
KT-A3e	20	23.48	5.00	0.43
KT-A3f	30	18.28	3.17	0.30
KT-A3g	40	14.79	2.38	0.23
KT-A3h	50	11.96	1.96	0.18
KT-A3i	60	9.54	1.63	0.14
KT-A3j	70	7.48	1.34	0.11
KT-A3k	80	6.24	1.11	0.09
KT-A3l	90	5.52	0.91	0.08
KT-A3m	100	4.92	0.75	0.06
KT-A4	1.5	106.38	12.62	2.11
KT-A4a	4	91.33	11.30	1.96
KT-A4b	8	60.60	8.42	1.52
KT-A4c	12	38.78	5.70	1.09
KT-A4d	16	33.76	4.68	0.84
KT-A4e	20	29.15	3.99	0.67
KT-A4f	30	19.82	2.84	0.41
KT-A4g	40	13.40	2.06	0.26

Cumulative Heavy Metal Results

Calculation = Bg. Conc. + Avg. Conc. x RSP = umulative Results

Pollutants	Arsenic	Barium	Cadmium	Cobalt	Chromium metal and Chromium (III)	Chromium (VI) (Hexavalent Chromium)	Copper	Molybdenum	Nickel	Lead	Tin	Zinc	Mercury
Criteria	Annual	Annual	Annual	Annual	Annual	Annual	Annual	Annual	Annual	Annual	Annual	Annual	Annual
Average Concentr	1.63E-05	1.34E-04	2.74E-06	4.96E-06	1.46E-05	1.08E-05	1.71E-04	2.61E-06	1.00E-05	3.77E-04	3.16E-05	6.57E-04	3.88E-06
Background	2.88E-03	1.18E-02	5.28E-04	n/a	2.22E-03	1.10E-04	1.38E-02	n/a	4.90E-03	1.50E-02	n/a	8.34E-02	1.84E-04
Limit	1.50E-02	5.00E-01	1.00E-02	1.00E-01	1.10E-01	1.00E-01	2.40E+00	3.00E+00	9.00E-02	5.00E-01	2.00E+00	2.00E+00	1.00E+00
Meet Criteria?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MAX	3.00E-03	1.28E-02	5.48E-04	3.58E-05	2.33E-03	1.88E-04	1.50E-02	1.88E-05	4.97E-03	1.77E-02	2.28E-04	8.81E-02	2.12E-04
KT-A1	2.90E-03	1.20E-02	5.32E-04	7.26E-06	2.24E-03	1.26E-04	1.41E-02	3.82E-06	4.91E-03	1.56E-02	4.63E-05	8.44E-02	1.90E-04
KT-A1a	2.90E-03	1.20E-02	5.32E-04	6.69E-06	2.24E-03	1.25E-04	1.40E-02	3.52E-06	4.91E-03	1.55E-02	4.27E-05	8.43E-02	1.89E-04
KT-A1b	2.90E-03	1.19E-02	5.31E-04	5.13E-06	2.24E-03	1.21E-04	1.40E-02	2.70E-06	4.91E-03	1.54E-02	3.27E-05	8.41E-02	1.88E-04
KT-A1c	2.89E-03	1.19E-02	5.30E-04	3.65E-06	2.23E-03	1.18E-04	1.39E-02	1.92E-06	4.91E-03	1.53E-02	2.33E-05	8.39E-02	1.87E-04
KT-A1d	2.89E-03	1.19E-02	5.30E-04	2.78E-06	2.23E-03	1.16E-04	1.39E-02	1.46E-06	4.91E-03	1.52E-02	1.77E-05	8.38E-02	1.86E-04
KT-A1e	2.89E-03	1.19E-02	5.29E-04	2.23E-06	2.23E-03	1.15E-04	1.39E-02	1.17E-06	4.90E-03	1.52E-02	1.42E-05	8.37E-02	1.86E-04
KT-A1f	2.88E-03	1.18E-02	5.29E-04	1.47E-06	2.22E-03	1.13E-04	1.39E-02	7.73E-07	4.90E-03	1.51E-02	9.37E-06	8.36E-02	1.85E-04
KT-A1g	2.88E-03	1.18E-02	5.29E-04	1.09E-06	2.22E-03	1.12E-04	1.38E-02	5.72E-07	4.90E-03	1.51E-02	6.93E-06	8.35E-02	1.85E-04
KT-A1h	2.88E-03	1.18E-02	5.28E-04	8.47E-07	2.22E-03	1.12E-04	1.38E-02	4.46E-07	4.90E-03	1.51E-02	5.40E-06	8.35E-02	1.85E-04
KT-A1i	2.88E-03	1.18E-02	5.28E-04	6.80E-07	2.22E-03	1.11E-04	1.38E-02	3.58E-07	4.90E-03	1.51E-02	4.34E-06	8.35E-02	1.85E-04
KT-A1j	2.88E-03	1.18E-02	5.28E-04	5.56E-07	2.22E-03	1.11E-04	1.38E-02	2.93E-07	4.90E-03	1.50E-02	3.55E-06	8.35E-02	1.84E-04
KT-A1k	2.88E-03	1.18E-02	5.28E-04	4.62E-07	2.22E-03	1.11E-04	1.38E-02	2.43E-07	4.90E-03	1.50E-02	2.94E-06	8.35E-02	1.84E-04
KT-A1l	2.88E-03	1.18E-02	5.28E-04	3.88E-07	2.22E-03	1.11E-04	1.38E-02	2.04E-07	4.90E-03	1.50E-02	2.47E-06	8.35E-02	1.84E-04
KT-A1m	2.88E-03	1.18E-02	5.28E-04	3.29E-07	2.22E-03	1.11E-04	1.38E-02	1.73E-07	4.90E-03	1.50E-02	2.10E-06	8.34E-02	1.84E-04
KT-A2	2.91E-03	1.21E-02	5.34E-04	1.04E-05	2.25E-03	1.33E-04	1.42E-02	5.48E-06	4.92E-03	1.58E-02	6.64E-05	8.48E-02	1.92E-04
KT-A2a	2.91E-03	1.20E-02	5.33E-04	9.01E-06	2.25E-03	1.30E-04	1.41E-02	4.74E-06	4.92E-03	1.57E-02	5.75E-05	8.46E-02	1.91E-04
KT-A2b	2.90E-03	1.20E-02	5.32E-04	6.95E-06	2.24E-03	1.25E-04	1.40E-02	3.66E-06	4.91E-03	1.55E-02	4.43E-05	8.43E-02	1.89E-04
KT-A2c	2.90E-03	1.19E-02	5.31E-04	4.98E-06	2.23E-03	1.21E-04	1.40E-02	2.62E-06	4.91E-03	1.54E-02	3.18E-05	8.41E-02	1.88E-04
KT-A2d	2.89E-03	1.19E-02	5.30E-04	3.61E-06	2.23E-03	1.18E-04	1.39E-02	1.90E-06	4.91E-03	1.53E-02	2.30E-05	8.39E-02	1.87E-04
KT-A2e	2.89E-03	1.19E-02	5.30E-04	2.73E-06	2.23E-03	1.16E-04	1.39E-02	1.44E-06	4.91E-03	1.52E-02	1.74E-05	8.38E-02	1.86E-04
KT-A2f	2.89E-03	1.18E-02	5.29E-04	1.66E-06	2.22E-03	1.14E-04	1.39E-02	8.76E-07	4.90E-03	1.51E-02	1.06E-05	8.36E-02	1.85E-04
KT-A2g	2.88E-03	1.18E-02	5.29E-04	1.19E-06	2.22E-03	1.13E-04	1.38E-02	6.27E-07	4.90E-03	1.51E-02	7.60E-06	8.36E-02	1.85E-04
KT-A2h	2.88E-03	1.18E-02	5.29E-04	9.15E-07	2.22E-03	1.12E-04	1.38E-02	4.81E-07	4.90E-03	1.51E-02	5.83E-06	8.35E-02	1.85E-04
KT-A2i	2.88E-03	1.18E-02	5.28E-04	7.27E-07	2.22E-03	1.12E-04	1.38E-02	3.82E-07	4.90E-03	1.51E-02	4.63E-06	8.35E-02	1.85E-04
KT-A2j	2.88E-03	1.18E-02	5.28E-04	5.90E-07	2.22E-03	1.11E-04	1.38E-02	3.10E-07	4.90E-03	1.50E-02	3.76E-06	8.35E-02	1.84E-04
KT-A2k	2.88E-03	1.18E-02	5.28E-04	4.86E-07	2.22E-03	1.11E-04	1.38E-02	2.56E-07	4.90E-03	1.50E-02	3.10E-06	8.35E-02	1.84E-04
KT-A2l	2.88E-03	1.18E-02	5.28E-04	4.06E-07	2.22E-03	1.11E-04	1.38E-02	2.14E-07	4.90E-03	1.50E-02	2.59E-06	8.35E-02	1.84E-04
KT-A2m	2.88E-03	1.18E-02	5.28E-04	3.42E-07	2.22E-03	1.11E-04	1.38E-02	1.80E-07	4.90E-03	1.50E-02	2.18E-06	8.34E-02	1.84E-04
KT-A2n	2.88E-03	1.18E-02	5.28E-04	2.91E-07	2.22E-03	1.11E-04	1.38E-02	1.53E-07	4.90E-03	1.50E-02	1.86E-06	8.34E-02	1.84E-04
KT-A2o	2.88E-03	1.18E-02	5.28E-04	2.49E-07	2.22E-03	1.11E-04	1.38E-02	1.31E-07	4.90E-03	1.50E-02	1.59E-06	8.34E-02	1.84E-04
KT-A2p	2.88E-03	1.18E-02	5.28E-04	2.15E-07	2.22E-03	1.10E-04	1.38E-02	1.13E-07	4.90E-03	1.50E-02	1.37E-06	8.34E-02	1.84E-04
KT-A2q	2.88E-03	1.18E-02	5.28E-04	1.86E-07	2.22E-03	1.10E-04	1.38E-02	9.78E-08	4.90E-03	1.50E-02	1.19E-06	8.34E-02	1.84E-04
KT-A2r	2.88E-03	1.18E-02	5.28E-04	1.62E-07	2.22E-03	1.10E-04	1.38E-02	8.51E-08	4.90E-03	1.50E-02	1.03E-06	8.34E-02	1.84E-04
KT-A2s	2.88E-03	1.18E-02	5.28E-04	1.41E-07	2.22E-03	1.10E-04	1.38E-02	7.43E-08	4.90E-03	1.50E-02	9.00E-07	8.34E-02	1.84E-04
KT-A2t	2.88E-03	1.18E-02	5.28E-04	1.24E-07	2.22E-03	1.10E-04	1.38E-02	6.51E-08	4.90E-03	1.50E-02	7.89E-07	8.34E-02	1.84E-04
KT-A2u	2.88E-03	1.18E-02	5.28E-04	1.09E-07	2.22E-03	1.10E-04	1.38E-02	5.73E-08	4.90E-03	1.50E-02	6.94E-07	8.34E-02	1.84E-04
KT-A3	2.90E-03	1.20E-02	5.31E-04	5.69E-06	2.24E-03	1.22E-04	1.40E-02	2.99E-06	4.91E-03	1.54E-02	3.63E-05	8.42E-02	1.88E-04
KT-A3a	2.90E-03	1.19E-02	5.31E-04	5.24E-06	2.24E-03	1.21E-04	1.40E-02	2.76E-06	4.91E-03	1.54E-02	3.34E-05	8.41E-02	1.88E-04
KT-A3b	2.89E-03	1.19E-02	5.30E-04	4.30E-06	2.23E-03	1.19E-04	1.39E-02	2.26E-06	4.91E-03	1.53E-02	2.74E-05	8.40E-02	1.87E-04
KT-A3c	2.89E-03	1.19E-02	5.30E-04	3.24E-06	2.23E-03	1.17E-04	1.39E-02	1.70E-06	4.91E-03	1.52E-02	2.06E-05	8.38E-02	1.87E-04
KT-A3d	2.89E-03	1.19E-02	5.29E-04	2.55E-06	2.23E-03	1.16E-04	1.39E-02	1.34E-06	4.91E-03	1.52E-02	1.63E-05	8.37E-02	1.86E-04
KT-A3e	2.89E-03	1.19E-02	5.29E-04	2.11E-06	2.23E-03	1.15E-04	1.39E-02	1.11E-06	4.90E-03	1.52E-02	1.35E-05	8.37E-02	1.86E-04
KT-A3f	2.88E-03	1.18E-02	5.29E-04	1.48E-06	2.22E-03	1.13E-04	1.39E-02	7.81E-07	4.90E-03	1.51E-02	9.46E-06	8.36E-02	1.85E-04
KT-A3g	2.88E-03	1.18E-02	5.29E-04	1.12E-06	2.22E-03	1.12E-04	1.38E-02	5.91E-07	4.90E-03	1.51E-02	7.16E-06	8.35E-02	1.85E-04
KT-A3h	2.88E-03	1.18E-02	5.28E-04	8.77E-07	2.22E-03	1.12E-04	1.38E-02	4.61E-07	4.90E-03	1.51E-02	5.59E-06	8.35E-02	1.85E-04
KT-A3i	2.88E-03	1.18E-02	5.28E-04	6.98E-07	2.22E-03	1.12E-04	1.38E-02	3.67E-07	4.90E-03	1.51E-02	4.45E-06	8.35E-02	1.85E-04
KT-A3j	2.88E-03	1.18E-02	5.28E-04	5.65E-07	2.22E-03	1.11E-04	1.38E-02	2.97E-07	4.90E-03	1.50E-02	3.60E-06	8.35E-02	1.84E-04
KT-A3k	2.88E-03	1.18E-02	5.28E-04	4.63E-07	2.22E-03	1.11E-04	1.38E-02	2.44E-07	4.90E-03	1.50E-02	2.95E-06	8.35E-02	1.84E-04
KT-A3l	2.88E-03	1.18E-02	5.28E-04	3.84E-07	2.22E-03	1.11E-04	1.38E-02	2.02E-07	4.90E-03	1.50E-02	2.45E-06	8.35E-02	1.84E-04
KT-A3m	2.88E-03	1.18E-02	5.28E-04	3.22E-07	2.22E-03	1.11E-04	1.38E-02	1.69E-07	4.90E-03	1.50E-02	2.05E-06	8.34E-02	1.84E-04
KT-A4	2.91E-03	1.21E-02	5.34E-04	1.05E-05	2.25E-03	1.33E-04	1.42E-02	5.52E-06	4.92E-03	1.58E-02	6.68E-05	8.48E-02	1.92E-04
KT-A4a	2.91E-03	1.21E-02	5.33E-04	9.71E-06	2.25E-03	1.31E-04	1.41E-02	5.11E-06	4.92E-03	1.57E-02	6.19E-05	8.47E-02	1.92E-04
KT-A4b	2.90E-03	1.20E-02	5.32E-04	7.55E-06	2.24E-03	1.26E-04	1.41E-02	3.97E-06	4.92E-03	1.56E-02	4.81E-05	8.44E-02	1.90E-04
KT-A4c	2.90E-03	1.19E-02	5.31E-04	5.41E-06	2.24E-03	1.22E-04	1.40E-02	2.85E-06	4.91E-03	1.54E-02	3.45E-05	8.41E-02	1.88E-04
KT-A4d	2.89E-03	1.19E-02	5.30E-04	4.17E-06	2.23E-03	1.19E-04	1.39E-02	2.19E-06	4.91E-03	1.53E-02	2.66E-05	8.40E-02	1.87E-04
KT-A4e	2.89E-03	1.19E-02	5.30E-04	3.33E-06	2.23E-03	1.17E-04	1.39E-02	1.75E-06	4.91E-03	1.53E-02	2.12E-05	8.38E-02	1.87E-04
KT-A4f	2.89E-03	1.19E-02	5.29E-04	2.03E-06	2.23E-03	1.14E-04	1.39E-02	1.07E-06	4.90E-03	1.52E-02	1.29E-05	8.37E-02	1.86E-04
KT-A4g	2.88E-03	1.18E-02	5.29E-04	1.31E-06	2.22E-03	1.13E-04	1.38E-02	6.90E-07	4.90E-03	1.51E-02	8.35E-06	8.36E-02	1.85E-04

Details of Predicted Heavy Metals (HM) at ASRs

Pollutants		RSP Mitigated Concentration from all ASR (µg/m³)		
Criteria		Hourly	Daily	Annual
ASR_ID	Assessment Height (mAG)	Model Results		
MAX		221.82	26.53	7.22
KT-A4h	50	9.14	1.51	0.18
KT-A4i	60	6.93	1.12	0.13
KT-A4j	70	6.21	0.85	0.10
KT-A4k	80	5.55	0.65	0.07
KT-A4l	90	4.96	0.54	0.06
KT-A4m	100	4.42	0.46	0.05
KT-A4n	110	3.94	0.39	0.04
KT-A4o	120	3.50	0.34	0.03
KT-A5	1.5	168.64	19.24	7.22
KT-A5a	4	160.23	17.25	6.41
KT-A5b	8	107.09	11.85	4.60
KT-A5c	12	55.05	7.73	3.04
KT-A5d	16	41.17	6.11	2.05
KT-A5e	20	31.13	4.82	1.42
KT-A6	1.5	136.14	18.87	5.43
KT-A6a	4	156.47	19.60	5.49
KT-A6b	8	102.48	13.66	3.90
KT-A6c	12	64.26	9.01	2.62
KT-A7	1.5	90.50	9.49	1.98
KT-A7a	4	74.97	8.49	1.87
KT-A7b	8	45.64	6.77	1.49
KT-A7c	12	37.86	5.51	1.08
KT-A7d	16	30.90	4.53	0.83
KT-A7e	20	25.06	3.82	0.65
KT-A8	1.5	133.66	18.92	6.16
KT-A8a	4	129.37	18.24	6.01
KT-A8b	8	93.24	14.45	4.91
KT-A8c	12	60.30	9.37	3.59
KT-A8d	16	40.88	6.12	2.56
KT-A8e	20	21.60	4.72	1.85
KT-A8f	30	17.24	2.80	0.90
KT-A8g	40	14.04	1.98	0.48
KT-A8h	50	10.93	1.43	0.27
KT-A8i	60	8.24	1.07	0.16
KT-A8j	70	6.09	0.80	0.10
KT-A8k	80	4.67	0.61	0.07
KT-A8l	90	3.97	0.50	0.05
KT-A8m	100	3.36	0.42	0.03
KT-A9	1.5	135.29	18.26	6.58
KT-A9a	4	141.57	18.63	6.43
KT-A9b	8	100.65	12.98	4.59
KT-A10	1.5	102.63	11.63	0.79
KT-A10a	4	93.95	10.73	0.74
KT-A10b	8	70.41	8.99	0.62
KT-A10c	12	43.24	7.04	0.49
KT-A10d	16	31.23	5.53	0.39
KT-A10e	20	23.76	4.49	0.33
KT-A10f	30	17.82	2.98	0.24
KT-A10g	40	13.36	2.23	0.19
KT-A10h	50	11.17	1.90	0.15
KT-A10i	60	9.44	1.63	0.13
KT-A10j	70	7.87	1.39	0.11
KT-A10k	80	6.59	1.18	0.09
KT-A10l	90	5.96	1.00	0.08
KT-A10m	100	5.37	0.84	0.07
KT-A10n	110	4.82	0.71	0.06
KT-A10o	120	4.33	0.59	0.05
KT-A10p	130	3.91	0.50	0.04
KT-A10q	140	3.62	0.42	0.04

Cumulative Heavy Metal Results

Calculation = Bg. Conc. + Avg. Conc. x RSP = umulative Results

Pollutants	Arsenic	Barium	Cadmium	Cobalt	Chromium metal and Chromium (III)	Chromium (VI) (Hexavalent Chromium)	Copper	Molybdenum	Nickel	Lead	Tin	Zinc	Mercury
Criteria	Annual	Annual	Annual	Annual	Annual	Annual	Annual	Annual	Annual	Annual	Annual	Annual	Annual
Average Concentr	1.63E-05	1.34E-04	2.74E-06	4.96E-06	1.46E-05	1.08E-05	1.71E-04	2.61E-06	1.00E-05	3.77E-04	3.16E-05	6.57E-04	3.88E-06
Background	2.88E-03	1.18E-02	5.28E-04	n/a	2.22E-03	1.10E-04	1.38E-02	n/a	4.90E-03	1.50E-02	n/a	8.34E-02	1.84E-04
Limit	1.50E-02	5.00E-01	1.00E-02	1.00E-01	1.10E-01	1.00E-01	2.40E+00	3.00E+00	9.00E-02	5.00E-01	2.00E+00	2.00E+00	1.00E+00
Meet Criteria?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MAX	3.00E-03	1.28E-02	5.48E-04	3.58E-05	2.33E-03	1.88E-04	1.50E-02	1.88E-05	4.97E-03	1.77E-02	2.28E-04	8.81E-02	2.12E-04
KT-A4h	2.88E-03	1.18E-02	5.28E-04	8.96E-07	2.22E-03	1.12E-04	1.38E-02	4.71E-07	4.90E-03	1.51E-02	5.71E-06	8.35E-02	1.85E-04
KT-A4i	2.88E-03	1.18E-02	5.28E-04	6.44E-07	2.22E-03	1.11E-04	1.38E-02	3.39E-07	4.90E-03	1.50E-02	4.10E-06	8.35E-02	1.85E-04
KT-A4j	2.88E-03	1.18E-02	5.28E-04	4.81E-07	2.22E-03	1.11E-04	1.38E-02	2.53E-07	4.90E-03	1.50E-02	3.07E-06	8.35E-02	1.84E-04
KT-A4k	2.88E-03	1.18E-02	5.28E-04	3.70E-07	2.22E-03	1.11E-04	1.38E-02	1.95E-07	4.90E-03	1.50E-02	2.36E-06	8.34E-02	1.84E-04
KT-A4l	2.88E-03	1.18E-02	5.28E-04	2.92E-07	2.22E-03	1.11E-04	1.38E-02	1.54E-07	4.90E-03	1.50E-02	1.86E-06	8.34E-02	1.84E-04
KT-A4m	2.88E-03	1.18E-02	5.28E-04	2.34E-07	2.22E-03	1.11E-04	1.38E-02	1.23E-07	4.90E-03	1.50E-02	1.49E-06	8.34E-02	1.84E-04
KT-A4n	2.88E-03	1.18E-02	5.28E-04	1.90E-07	2.22E-03	1.10E-04	1.38E-02	1.00E-07	4.90E-03	1.50E-02	1.21E-06	8.34E-02	1.84E-04
KT-A4o	2.88E-03	1.18E-02	5.28E-04	1.56E-07	2.22E-03	1.10E-04	1.38E-02	8.22E-08	4.90E-03	1.50E-02	9.96E-07	8.34E-02	1.84E-04
KT-A5	3.00E-03	1.28E-02	5.48E-04	3.58E-05	2.33E-03	1.88E-04	1.50E-02	1.88E-05	4.97E-03	1.77E-02	2.28E-04	8.81E-02	2.12E-04
KT-A5a	2.98E-03	1.27E-02	5.46E-04	3.18E-05	2.31E-03	1.79E-04	1.49E-02	1.67E-05	4.96E-03	1.74E-02	2.03E-04	8.76E-02	2.09E-04
KT-A5b	2.95E-03	1.24E-02	5.41E-04	2.28E-05	2.29E-03	1.60E-04	1.46E-02	1.20E-05	4.95E-03	1.67E-02	1.45E-04	8.64E-02	2.02E-04
KT-A5c	2.93E-03	1.22E-02	5.36E-04	1.51E-05	2.26E-03	1.43E-04	1.43E-02	7.94E-06	4.93E-03	1.61E-02	9.62E-05	8.54E-02	1.96E-04
KT-A5d	2.91E-03	1.21E-02	5.34E-04	1.01E-05	2.25E-03	1.32E-04	1.41E-02	5.34E-06	4.92E-03	1.58E-02	6.47E-05	8.47E-02	1.92E-04
KT-A5e	2.90E-03	1.20E-02	5.32E-04	7.02E-06	2.24E-03	1.25E-04	1.40E-02	3.69E-06	4.91E-03	1.55E-02	4.48E-05	8.43E-02	1.89E-04
KT-A6	2.97E-03	1.25E-02	5.43E-04	2.69E-05	2.30E-03	1.69E-04	1.47E-02	1.42E-05	4.95E-03	1.70E-02	1.72E-04	8.70E-02	2.05E-04
KT-A6a	2.97E-03	1.25E-02	5.43E-04	2.72E-05	2.30E-03	1.69E-04	1.47E-02	1.43E-05	4.96E-03	1.71E-02	1.74E-04	8.70E-02	2.05E-04
KT-A6b	2.94E-03	1.23E-02	5.39E-04	1.93E-05	2.28E-03	1.52E-04	1.45E-02	1.02E-05	4.94E-03	1.65E-02	1.23E-04	8.60E-02	1.99E-04
KT-A6c	2.92E-03	1.22E-02	5.35E-04	1.30E-05	2.26E-03	1.38E-04	1.42E-02	6.83E-06	4.93E-03	1.60E-02	8.28E-05	8.51E-02	1.94E-04
KT-A7	2.91E-03	1.21E-02	5.33E-04	9.80E-06	2.25E-03	1.31E-04	1.41E-02	5.16E-06	4.92E-03	1.57E-02	6.25E-05	8.47E-02	1.92E-04
KT-A7a	2.91E-03	1.20E-02	5.33E-04	9.27E-06	2.25E-03	1.30E-04	1.41E-02	4.88E-06	4.92E-03	1.57E-02	5.91E-05	8.46E-02	1.91E-04
KT-A7b	2.90E-03	1.20E-02	5.32E-04	7.40E-06	2.24E-03	1.26E-04	1.41E-02	3.89E-06	4.91E-03	1.56E-02	4.72E-05	8.44E-02	1.90E-04
KT-A7c	2.90E-03	1.19E-02	5.31E-04	5.37E-06	2.24E-03	1.22E-04	1.40E-02	2.83E-06	4.91E-03	1.54E-02	3.43E-05	8.41E-02	1.88E-04
KT-A7d	2.89E-03	1.19E-02	5.30E-04	4.10E-06	2.23E-03	1.19E-04	1.39E-02	2.16E-06	4.91E-03	1.53E-02	2.61E-05	8.39E-02	1.87E-04
KT-A7e	2.89E-03	1.19E-02	5.30E-04	3.21E-06	2.23E-03	1.17E-04	1.39E-02	1.69E-06	4.91E-03	1.52E-02	2.05E-05	8.38E-02	1.87E-04
KT-A8	2.98E-03	1.26E-02	5.45E-04	3.05E-05	2.31E-03	1.77E-04	1.49E-02	1.61E-05	4.96E-03	1.73E-02	1.95E-04	8.74E-02	2.08E-04
KT-A8a	2.98E-03	1.26E-02	5.44E-04	2.98E-05	2.31E-03	1.75E-04	1.48E-02	1.57E-05	4.96E-03	1.73E-02	1.90E-04	8.73E-02	2.07E-04
KT-A8b	2.96E-03	1.25E-02	5.41E-04	2.43E-05	2.29E-03	1.63E-04	1.46E-02	1.28E-05	4.95E-03	1.68E-02	1.55E-04	8.66E-02	2.03E-04
KT-A8c	2.94E-03	1.23E-02	5.38E-04	1.78E-05	2.27E-03	1.49E-04	1.44E-02	9.38E-06	4.94E-03	1.64E-02	1.14E-04	8.58E-02	1.98E-04
KT-A8d	2.92E-03	1.21E-02	5.35E-04	1.27E-05	2.26E-03	1.38E-04	1.42E-02	6.67E-06	4.93E-03	1.60E-02	8.08E-05	8.51E-02	1.94E-04
KT-A8e	2.91E-03	1.20E-02	5.33E-04	9.16E-06	2.25E-03	1.30E-04	1.41E-02	4.82E-06	4.92E-03	1.57E-02	5.84E-05	8.46E-02	1.91E-04
KT-A8f	2.89E-03	1.19E-02	5.30E-04	4.45E-06	2.23E-03	1.20E-04	1.40E-02	2.34E-06	4.91E-03	1.53E-02	2.84E-05	8.40E-02	1.87E-04
KT-A8g	2.89E-03	1.19E-02	5.29E-04	2.36E-06	2.23E-03	1.15E-04	1.39E-02	1.24E-06	4.90E-03	1.52E-02	1.51E-05	8.37E-02	1.86E-04
KT-A8h	2.88E-03	1.18E-02	5.29E-04	1.35E-06	2.22E-03	1.13E-04	1.38E-02	7.10E-07	4.90E-03	1.51E-02	8.60E-06	8.36E-02	1.85E-04
KT-A8i	2.88E-03	1.18E-02	5.28E-04	8.16E-07	2.22E-03	1.12E-04	1.38E-02	4.29E-07	4.90E-03	1.51E-02	5.20E-06	8.35E-02	1.85E-04
KT-A8j	2.88E-03	1.18E-02	5.28E-04	5.16E-07	2.22E-03	1.11E-04	1.38E-02	2.71E-07	4.90E-03	1.50E-02	3.29E-06	8.35E-02	1.84E-04
KT-A8k	2.88E-03	1.18E-02	5.28E-04	3.38E-07	2.22E-03	1.11E-04	1.38E-02	1.78E-07	4.90E-03	1.50E-02	2.16E-06	8.34E-02	1.84E-04
KT-A8l	2.88E-03	1.18E-02	5.28E-04	2.30E-07	2.22E-03	1.11E-04	1.38E-02	1.21E-07	4.90E-03	1.50E-02	1.47E-06	8.34E-02	1.84E-04
KT-A8m	2.88E-03	1.18E-02	5.28E-04	1.61E-07	2.22E-03	1.10E-04	1.38E-02	8.49E-08	4.90E-03	1.50E-02	1.03E-06	8.34E-02	1.84E-04
KT-A9	2.99E-03	1.27E-02	5.46E-04	3.26E-05	2.32E-03	1.81E-04	1.49E-02	1.72E-05	4.97E-03	1.75E-02	2.08E-04	8.77E-02	2.10E-04
KT-A9a	2.98E-03	1.27E-02	5.46E-04	3.19E-05	2.31E-03	1.80E-04	1.49E-02	1.68E-05	4.96E-03	1.74E-02	2.03E-04	8.76E-02	2.09E-04
KT-A9b	2.95E-03	1.24E-02	5.41E-04	2.28E-05	2.29E-03	1.60E-04	1.46E-02	1.20E-05	4.95E-03	1.67E-02	1.45E-04	8.64E-02	2.02E-04
KT-A10	2.89E-03	1.19E-02	5.30E-04	3.92E-06	2.23E-03	1.19E-04	1.39E-02	2.06E-06	4.91E-03	1.53E-02	2.50E-05	8.39E-02	1.87E-04
KT-A10a	2.89E-03	1.19E-02	5.30E-04	3.65E-06	2.23E-03	1.18E-04	1.39E-02	1.92E-06	4.91E-03	1.53E-02	2.33E-05	8.39E-02	1.87E-04
KT-A10b	2.89E-03	1.19E-02	5.30E-04	3.07E-06	2.23E-03	1.17E-04	1.39E-02	1.62E-06	4.91E-03	1.52E-02	1.96E-05	8.38E-02	1.86E-04
KT-A10c	2.89E-03	1.19E-02	5.29E-04	2.42E-06	2.23E-03	1.15E-04	1.39E-02	1.27E-06	4.90E-03	1.52E-02	1.54E-05	8.37E-02	1.86E-04
KT-A10d	2.89E-03	1.19E-02	5.29E-04	1.96E-06	2.23E-03	1.14E-04	1.39E-02	1.03E-06	4.90E-03	1.51E-02	1.25E-05	8.37E-02	1.86E-04
KT-A10e	2.89E-03	1.18E-02	5.29E-04	1.65E-06	2.22E-03	1.14E-04	1.39E-02	8.66E-07	4.90E-03	1.51E-02	1.05E-05	8.36E-02	1.85E-04
KT-A10f	2.88E-03	1.18E-02	5.29E-04	1.20E-06	2.22E-03	1.13E-04	1.38E-02	6.29E-07	4.90E-03	1.51E-02	7.62E-06	8.36E-02	1.85E-04
KT-A10g	2.88E-03	1.18E-02	5.29E-04	9.40E-07	2.22E-03	1.12E-04	1.38E-02	4.95E-07	4.90E-03	1.51E-02	5.99E-06	8.35E-02	1.85E-04
KT-A10h	2.88E-03	1.18E-02	5.28E-04	7.62E-07	2.22E-03	1.12E-04	1.38E-02	4.01E-07	4.90E-03	1.51E-02	4.86E-06	8.35E-02	1.85E-04
KT-A10i	2.88E-03	1.18E-02	5.28E-04	6.29E-07	2.22E-03	1.11E-04	1.38E-02	3.31E-07	4.90E-03	1.50E-02	4.01E-06	8.35E-02	1.84E-04
KT-A10j	2.88E-03	1.18E-02	5.28E-04	5.25E-07	2.22E-03	1.11E-04	1.38E-02	2.76E-07	4.90E-03	1.50E-02	3.35E-06	8.35E-02	1.84E-04
KT-A10k	2.88E-03	1.18E-02	5.28E-04	4.43E-07	2.22E-03	1.11E-04	1.38E-02	2.33E-07	4.90E-03	1.50E-02	2.83E-06	8.35E-02	1.84E-04
KT-A10l	2.88E-03	1.18E-02	5.28E-04	3.78E-07	2.22E-03	1.11E-04	1.38E-02	1.99E-07	4.90E-03	1.50E-02	2.41E-06	8.35E-02	1.84E-04
KT-A10m	2.88E-03	1.18E-02	5.28E-04	3.24E-07	2.22E-03	1.11E-04	1.38E-02	1.70E-07	4.90E-03	1.50E-02	2.06E-06	8.34E-02	1.84E-04
KT-A10n	2.88E-03	1.18E-02	5.28E-04	2.79E-07	2.22E-03	1.11E-04	1.38E-02	1.47E-07	4.90E-03	1.50E-02	1.78E-06	8.34E-02	1.84E-04
KT-A10o	2.88E-03	1.18E-02	5.28E-04	2.42E-07	2.22E-03	1.11E-04	1.38E-02	1.27E-07	4.90E-03	1.50E-02	1.54E-06	8.34E-02	1.84E-04
KT-A10p	2.88E-03	1.18E-02	5.28E-04	2.11E-07	2.22E-03	1.10E-04	1.38E-02	1.11E-07	4.90E-03	1.50E-02	1.35E-06	8.34E-02	1.84E-04
KT-A10q	2.88E-03	1.18E-02	5.28E-04	1.85E-07	2.22E-03	1.10E-04	1.38E-02	9.71E-08	4.90E-03	1.50E-02	1.18E-06	8.34E-02	1.84E-04

Details of Predicted Heavy Metals (HM) at ASRs

Pollutants		RSP Mitigated Concentration from all ASR (µg/m³)		
Criteria		Hourly	Daily	Annual
ASR_ID	Assessment Height (mAG)	Model Results		
MAX		221.82	26.53	7.22
P01	1.5	175.99	25.83	5.21
P02	1.5	152.46	26.12	4.20
P03	1.5	170.36	26.53	4.24
P04	1.5	148.78	26.45	3.78
P10	1.5	157.29	21.37	3.37
P11	1.5	179.50	25.03	4.13
P12	1.5	181.56	23.60	4.31
P13	1.5	159.02	22.63	3.60
P14	1.5	120.72	19.87	2.16
P15	1.5	132.44	20.74	2.34
P16	1.5	139.08	24.02	3.02

Cumulative Heavy Metal Results

Calculation = Bg. Conc. + Avg. Conc. x RSP = umulative Results

Pollutants	Arsenic	Barium	Cadmium	Cobalt	Chromium metal and Chromium (III)	Chromium (VI) (Hexavalent Chromium)	Copper	Molybdenum	Nickel	Lead	Tin	Zinc	Mercury
Criteria	Annual	Annual	Annual	Annual	Annual	Annual	Annual	Annual	Annual	Annual	Annual	Annual	Annual
Average Concentr	1.63E-05	1.34E-04	2.74E-06	4.96E-06	1.46E-05	1.08E-05	1.71E-04	2.61E-06	1.00E-05	3.77E-04	3.16E-05	6.57E-04	3.88E-06
Background	2.88E-03	1.18E-02	5.28E-04	n/a	2.22E-03	1.10E-04	1.38E-02	n/a	4.90E-03	1.50E-02	n/a	8.34E-02	1.84E-04
Limit	**1.50E-02**	**5.00E-01**	**1.00E-02**	**1.00E-01**	**1.10E-01**	**1.00E-01**	**2.40E+00**	**3.00E+00**	**9.00E-02**	**5.00E-01**	**2.00E+00**	**2.00E+00**	**1.00E+00**
Meet Criteria?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MAX	**3.00E-03**	**1.28E-02**	**5.48E-04**	**3.58E-05**	**2.33E-03**	**1.88E-04**	**1.50E-02**	**1.88E-05**	**4.97E-03**	**1.77E-02**	**2.28E-04**	**8.81E-02**	**2.12E-04**
P01	2.96E-03	1.25E-02	5.42E-04	2.59E-05	2.30E-03	1.66E-04	1.47E-02	1.36E-05	4.95E-03	1.70E-02	1.65E-04	8.68E-02	2.04E-04
P02	2.95E-03	1.24E-02	5.40E-04	2.08E-05	2.28E-03	1.55E-04	1.45E-02	1.10E-05	4.94E-03	1.66E-02	1.33E-04	8.62E-02	2.00E-04
P03	2.95E-03	1.24E-02	5.40E-04	2.10E-05	2.28E-03	1.56E-04	1.45E-02	1.11E-05	4.94E-03	1.66E-02	1.34E-04	8.62E-02	2.00E-04
P04	2.94E-03	1.23E-02	5.38E-04	1.87E-05	2.28E-03	1.51E-04	1.44E-02	9.86E-06	4.94E-03	1.64E-02	1.20E-04	8.59E-02	1.99E-04
P10	2.93E-03	1.23E-02	5.37E-04	1.67E-05	2.27E-03	1.46E-04	1.44E-02	8.79E-06	4.93E-03	1.63E-02	1.07E-04	8.56E-02	1.97E-04
P11	2.95E-03	1.24E-02	5.39E-04	2.05E-05	2.28E-03	1.55E-04	1.45E-02	1.08E-05	4.94E-03	1.66E-02	1.31E-04	8.61E-02	2.00E-04
P12	2.95E-03	1.24E-02	5.40E-04	2.14E-05	2.28E-03	1.57E-04	1.45E-02	1.13E-05	4.94E-03	1.66E-02	1.36E-04	8.62E-02	2.01E-04
P13	2.94E-03	1.23E-02	5.38E-04	1.79E-05	2.27E-03	1.49E-04	1.44E-02	9.41E-06	4.94E-03	1.64E-02	1.14E-04	8.58E-02	1.98E-04
P14	2.92E-03	1.21E-02	5.34E-04	1.07E-05	2.25E-03	1.33E-04	1.42E-02	5.64E-06	4.92E-03	1.58E-02	6.83E-05	8.48E-02	1.92E-04
P15	2.92E-03	1.21E-02	5.34E-04	1.16E-05	2.25E-03	1.35E-04	1.42E-02	6.12E-06	4.92E-03	1.59E-02	7.41E-05	8.49E-02	1.93E-04
P16	2.93E-03	1.22E-02	5.36E-04	1.50E-05	2.26E-03	1.43E-04	1.43E-02	7.88E-06	4.93E-03	1.61E-02	9.55E-05	8.54E-02	1.96E-04

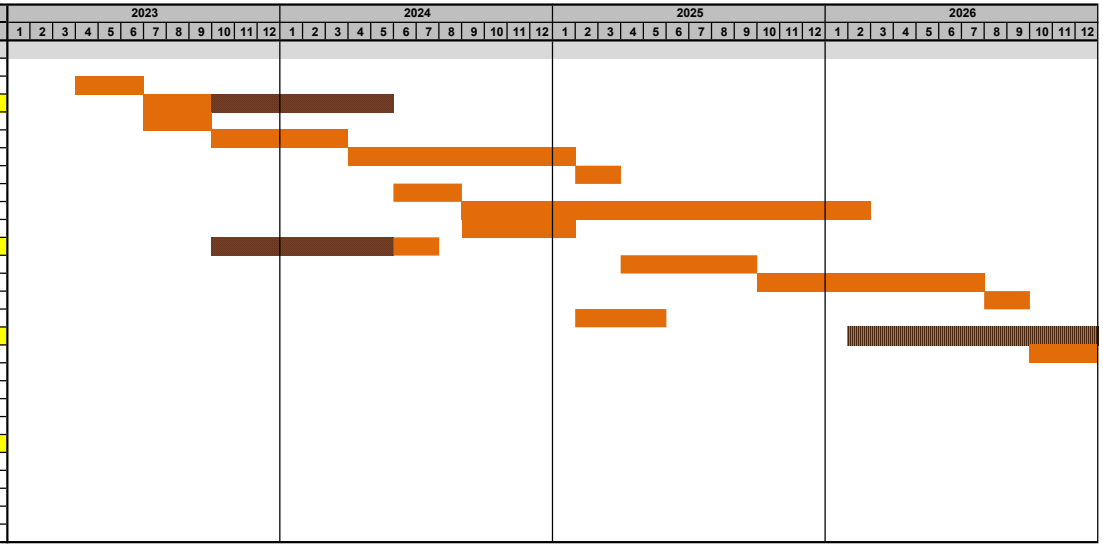
APPENDIX 3.11

DETAILS FOR TIER 2 ASSESSMENT FOR HYDROCARBONS

Agreement No. CE13/2019 Ground Decontamination Works at the Site of Ex-Kennedy Town Incineration Plant/Abattoir and Adjoining Area – Design and Construction

Reprovisioning Option A - 7 Years

Item (#)	Task (Name)	Duration (Days)	Start (Date)	End (Date)
1	Stage 1_Scenario 13.0yr	2557	4/1/2023	3/31/2030
2	Commencement	0	4/1/2023	4/1/2023
3	Preliminary	91	4/1/2023	6/30/2023
4	Stage I Excavation (For Zone 1A & 1C)	336	7/1/2023	5/31/2024
5	Foundation for Biopile A at Zone 3	91	7/1/2023	9/29/2023
6	Formation of Biopile A at Zone 3 (For Zone 1A & 1C)	184	9/30/2023	3/31/2024
7	Operation of Biopile A at Zone 3 (For Zone 1A & 1C)	303	4/1/2024	1/28/2025
8	Decomissioning of Biopile A at Zone 3	62	1/29/2025	3/31/2025
9	Reinstatement of Zone 1A & 1C	92	6/1/2024	8/31/2024
10	Reprovisioning of RCP (By others)	546	9/1/2024	2/28/2026
11	Reprovisioning of Car Park (By others)	150	9/1/2024	1/28/2025
12	Stage II Excavation (for Zone 1B)	305	9/30/2023	7/30/2024
13	Formation of Biopile B at Zone 3 (For Zone 1B)	181	4/1/2025	9/28/2025
14	Operation of Biopile B at Zone 3 (For Zone 1B)	306	9/29/2025	7/31/2026
15	Decomissioning of Biopile B at Zone 3	59	8/1/2026	9/28/2026
16	Reinstatement of Zone 1B	120	1/29/2025	5/28/2025
17	Stage III Excavation (for Zone 2)	335	1/29/2026	12/29/2026
18	Formation of Biopile C at Zone 3 (For Zone 2)	184	9/29/2026	3/31/2027
19	Operation of Biopile C at Zone 3 (for Zone 2)	304	4/1/2027	1/29/2028
20	Decomissioning of Biopile C at Zone 3	61	4/1/2028	5/31/2028
21	Reinstatement of Zone 2	62	1/30/2028	3/31/2028
22	Remove of Biopile Foundation at Zone 3	45	6/1/2028	7/15/2028
23	Stage IV Excavation (For Zone 3)	273	6/1/2028	2/28/2029
24	Foundation for Biopile D at Zone 2	61	4/1/2028	5/31/2028
25	Formation of Biopile D at Zone 2 (For Zone 3)	212	6/1/2028	12/29/2028
26	Operation of Biopile D at Zone 2 (For Zone 3)	304	3/1/2029	12/29/2029
27	Decomissioning of Biopile D at Zone 2	61	12/30/2029	2/28/2030
28	Reinstatement of Zone 3 & Remaining works	92	12/30/2029	3/31/2030



Note

Modelling for Part 1: assessment asssumes Stage I and II excavation works overlapping and continuous over a year for conservative approach

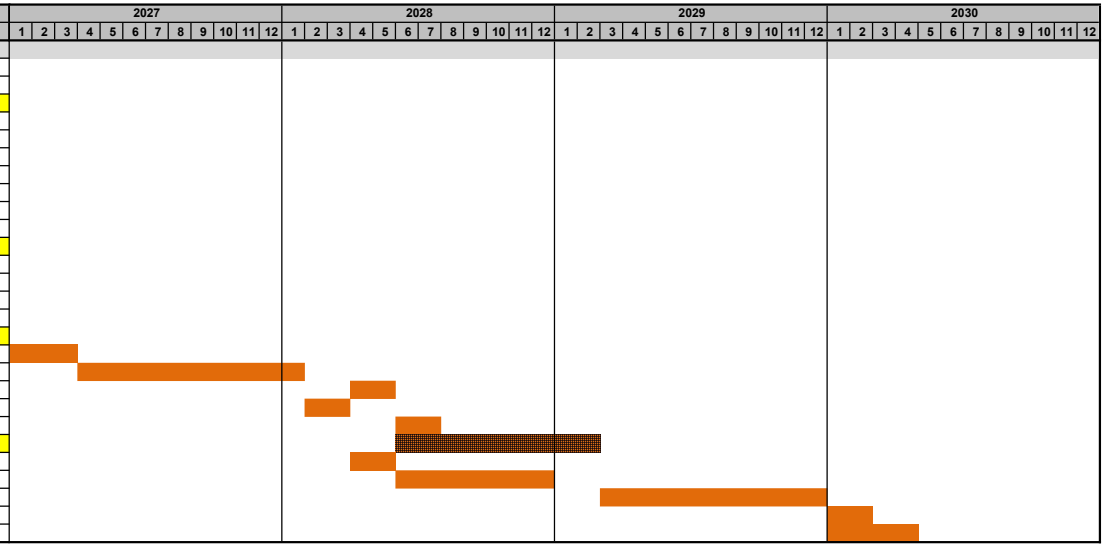
Modelling for Part 2: assessment asssumes Stage III excavation work continuous over a year for conservative approach

Modelling for Part 3: assessment asssumes Stage IV excavation works continuous over a year for conservative approach

Agreement No. CE13/2019 Ground Decontamination Works at the Site of Ex-Kennedy Town Incineration Plant/Abattoir and Adjoining Area – Design an

Reprovisioning Option A - 7 Years

Item (#)	Task (Name)	Duration (Days)	Start (Date)	End (Date)
1	Stage 1_Scenario 13.0yr	2557	4/1/2023	3/31/2030
2	Commencement	0	4/1/2023	4/1/2023
3	Preliminary	91	4/1/2023	6/30/2023
4	Stage I Excavation (For Zone 1A & 1C)	336	7/1/2023	5/31/2024
5	Foundation for Biopile A at Zone 3	91	7/1/2023	9/29/2023
6	Formation of Biopile A at Zone 3 (For Zone 1A & 1C)	184	9/30/2023	3/31/2024
7	Operation of Biopile A at Zone 3 (For Zone 1A & 1C)	303	4/1/2024	1/28/2025
8	Decomissioning of Biopile A at Zone 3	62	1/29/2025	3/31/2025
9	Reinstatement of Zone 1A & 1C	92	6/1/2024	8/31/2024
10	Reprovisioning of RCP (By others)	546	9/1/2024	2/28/2026
11	Reprovisioning of Car Park (By others)	150	9/1/2024	1/28/2025
12	Stage II Excavation (for Zone 1B)	305	9/30/2023	7/30/2024
13	Formation of Biopile B at Zone 3 (For Zone 1B)	181	4/1/2025	9/28/2025
14	Operation of Biopile B at Zone 3 (For Zone 1B)	306	9/29/2025	7/31/2026
15	Decomissioning of Biopile B at Zone 3	59	8/1/2026	9/28/2026
16	Reinstatement of Zone 1B	120	1/29/2025	5/28/2025
17	Stage III Excavation (for Zone 2)	335	1/29/2026	12/29/2026
18	Formation of Biopile C at Zone 3 (For Zone 2)	184	9/29/2026	3/31/2027
19	Operation of Biopile C at Zone 3 (for Zone 2)	304	4/1/2027	1/29/2028
20	Decomissioning of Biopile C at Zone 3	61	4/1/2028	5/31/2028
21	Reinstatement of Zone 2	62	1/30/2028	3/31/2028
22	Remove of Biopile Foundation at Zone 3	45	6/1/2028	7/15/2028
23	Stage IV Excavation (For Zone 3)	273	6/1/2028	2/28/2029
24	Foundation for Biopile D at Zone 2	61	4/1/2028	5/31/2028
25	Formation of Biopile D at Zone 2 (For Zone 3)	212	6/1/2028	12/29/2028
26	Operation of Biopile D at Zone 2 (For Zone 3)	304	3/1/2029	12/29/2029
27	Decomissioning of Biopile D at Zone 2	61	12/30/2029	2/28/2030
28	Reinstatement of Zone 3 & Remaining works	92	12/30/2029	3/31/2030



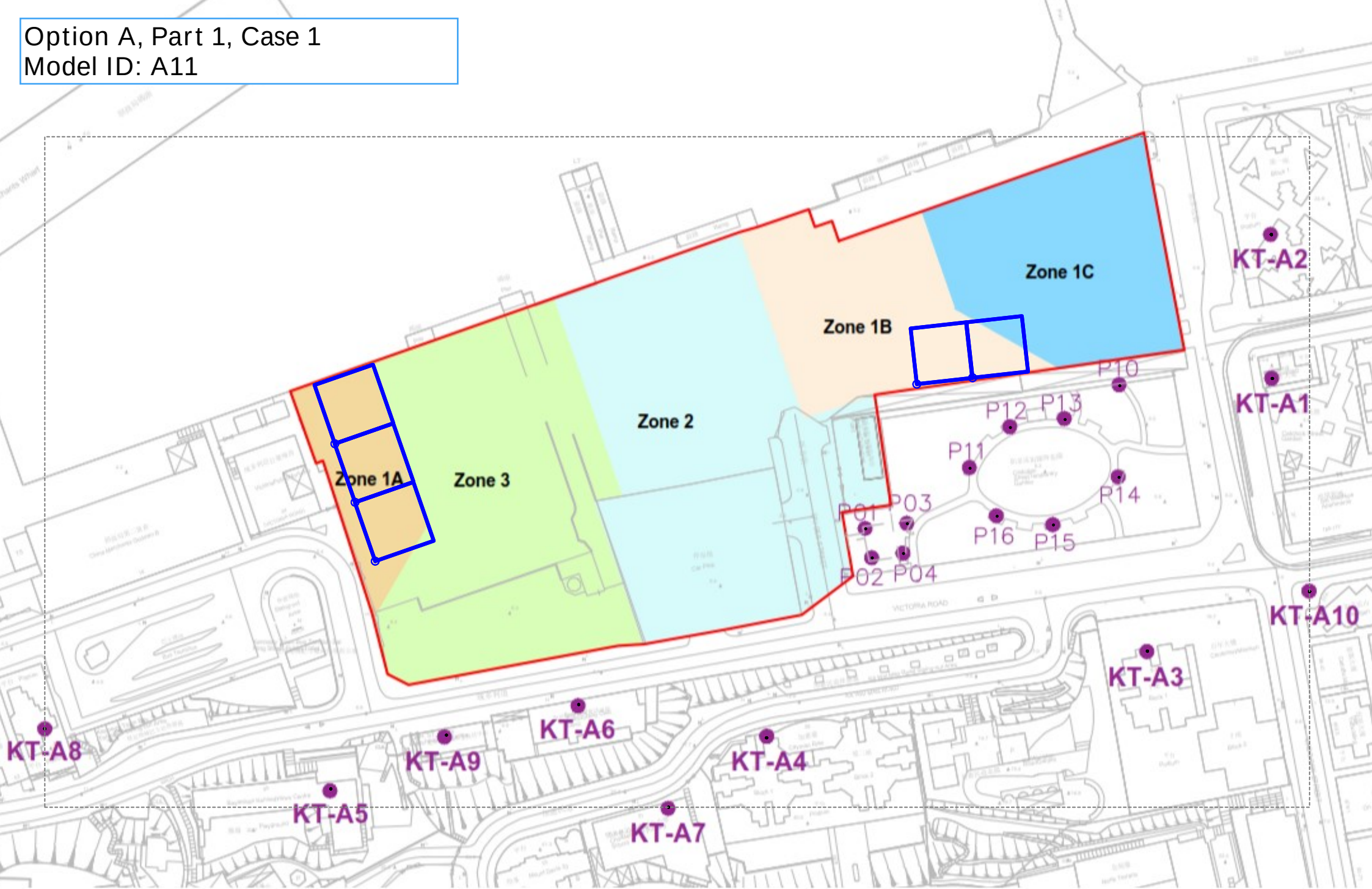
Note

Modelling for Part 1: assessment asssumes Stage I and II excavation works overlapping and continuous over a year for conservative approach

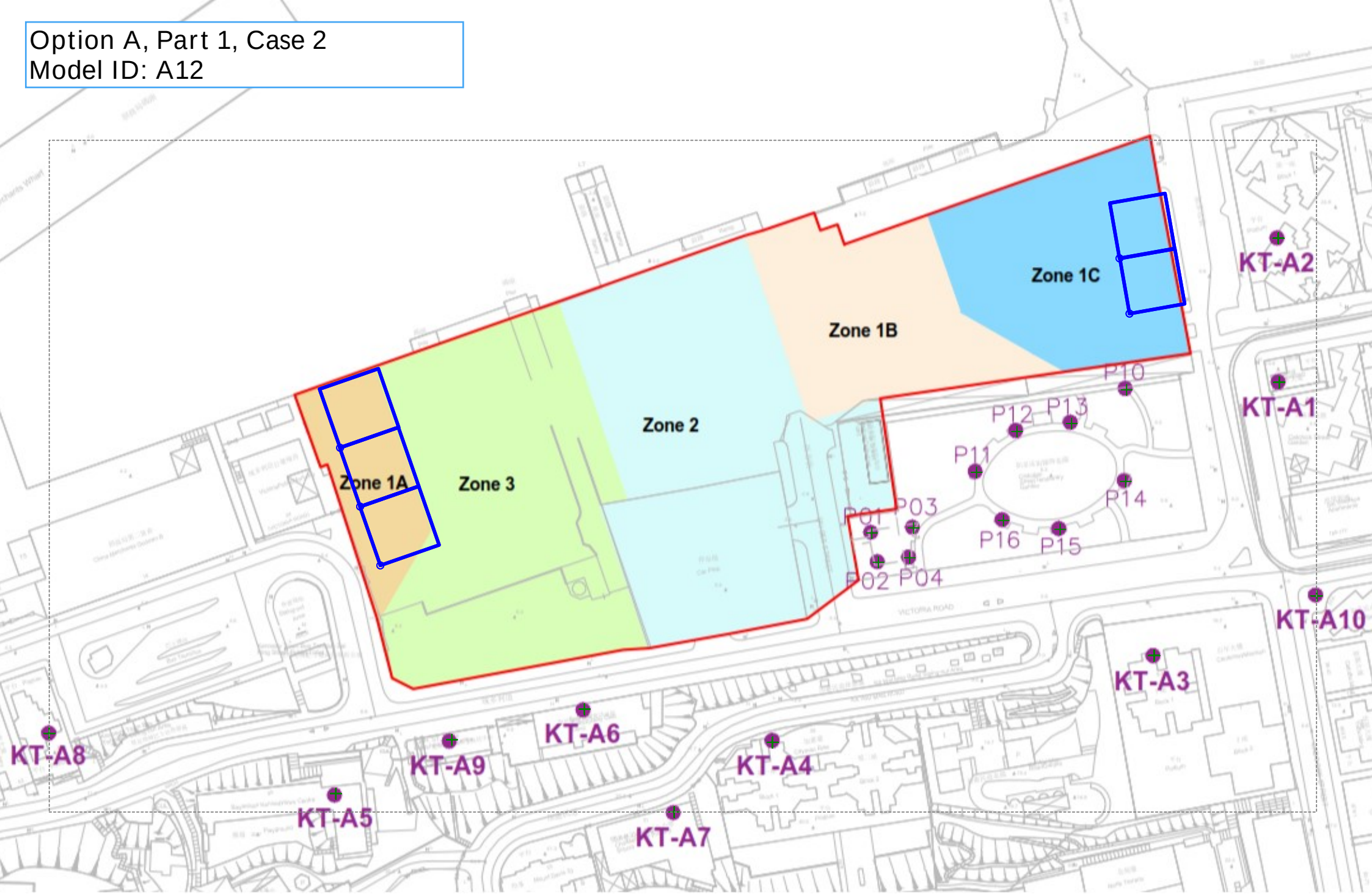
Modelling for Part 2: assessment asssumes Stage III excavation work continuous over a year for conservative approach

Modelling for Part 3: assessment asssumes Stage IV excavation works continuous over a year for conservative approach

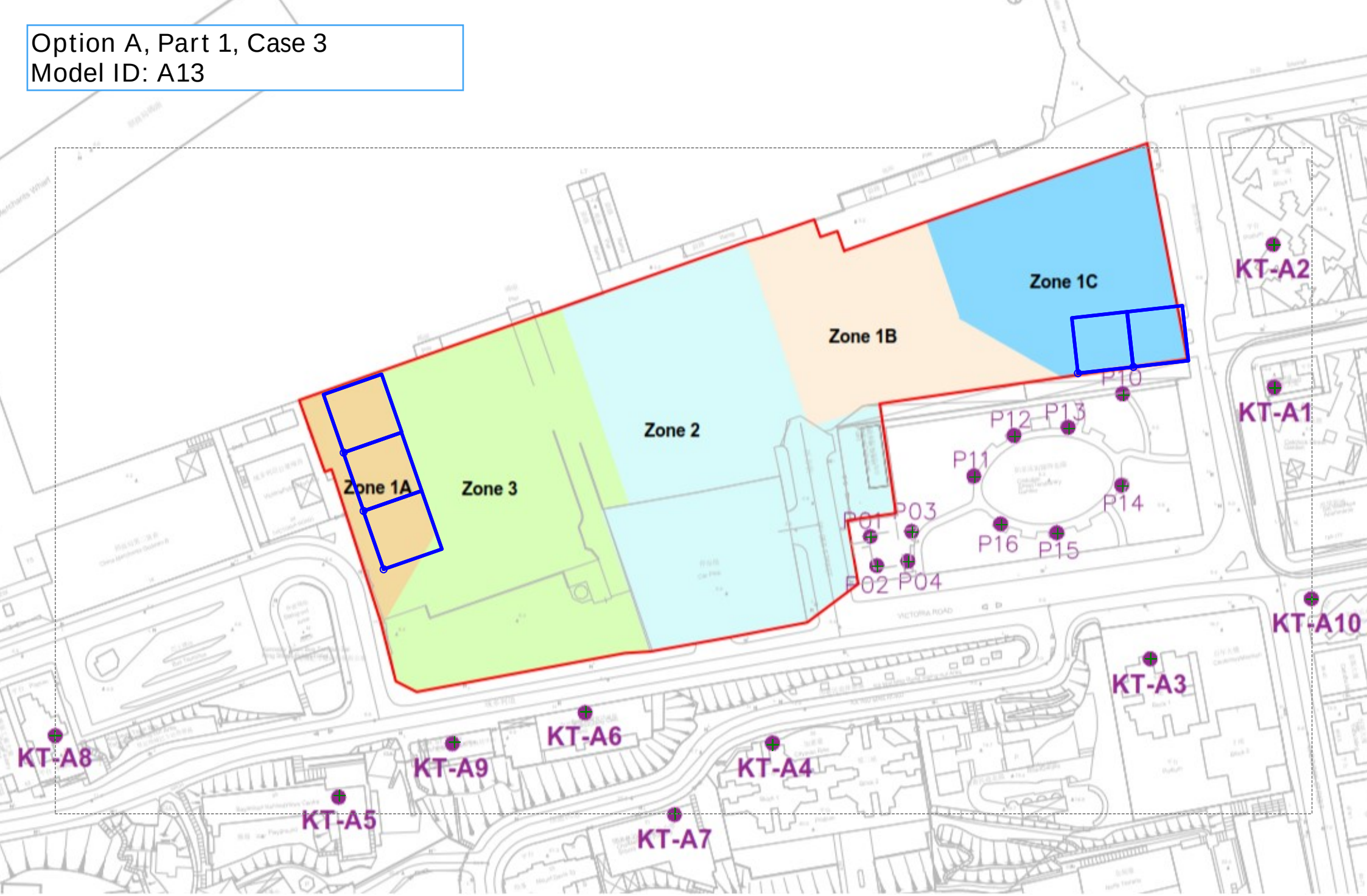
Option A, Part 1, Case 1
Model ID: A11



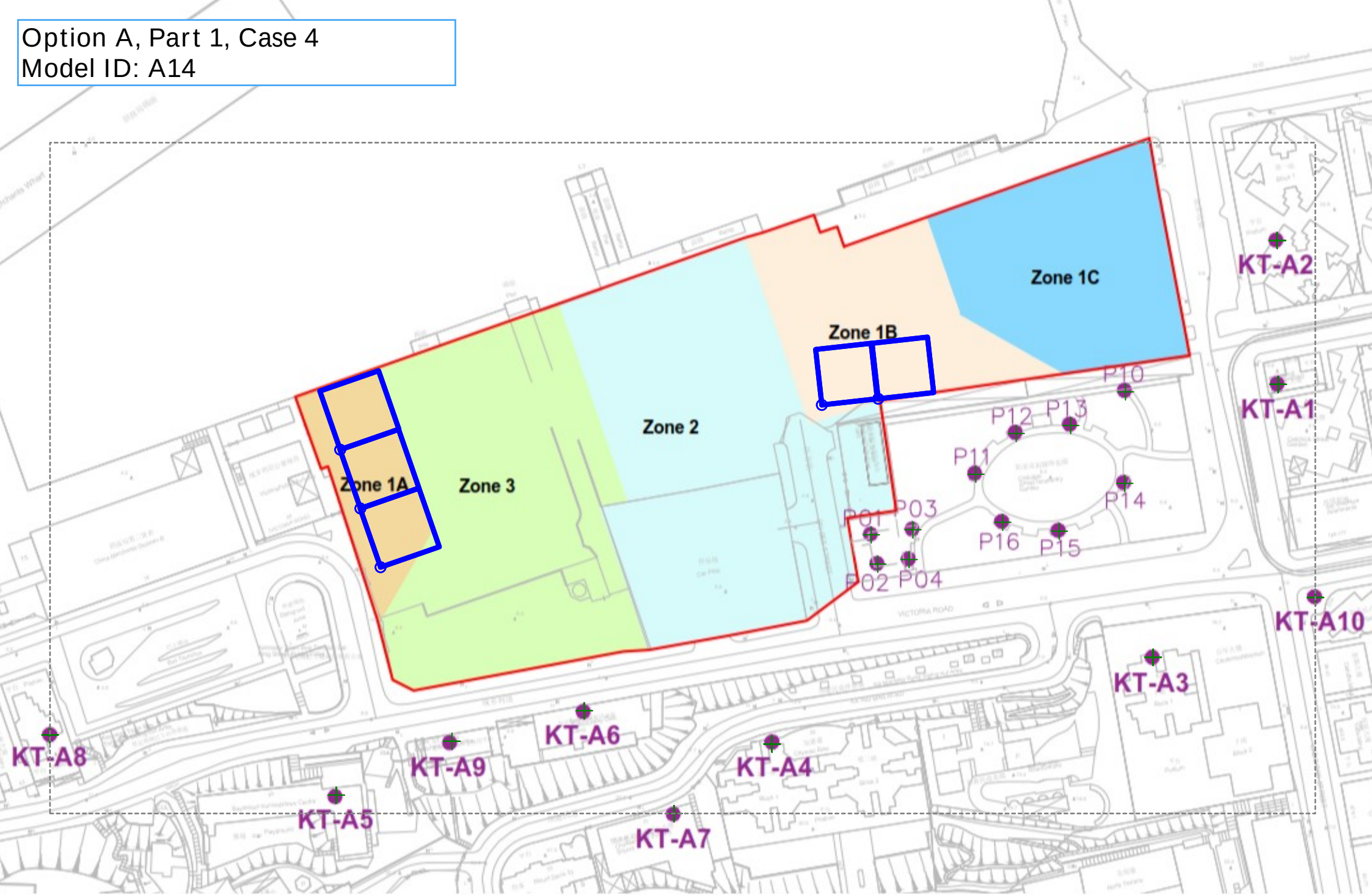
Option A, Part 1, Case 2
Model ID: A12



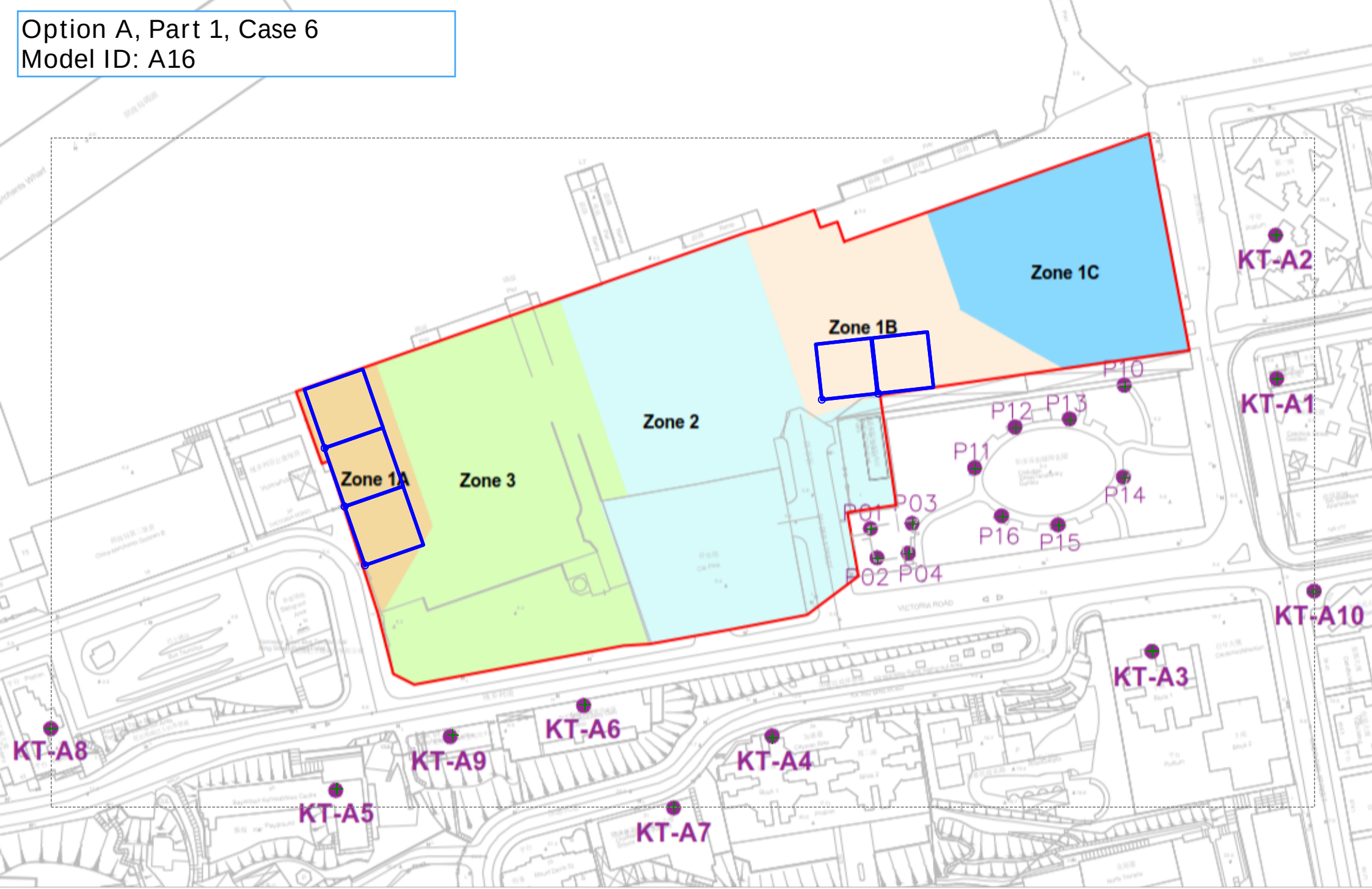
Option A, Part 1, Case 3
Model ID: A13



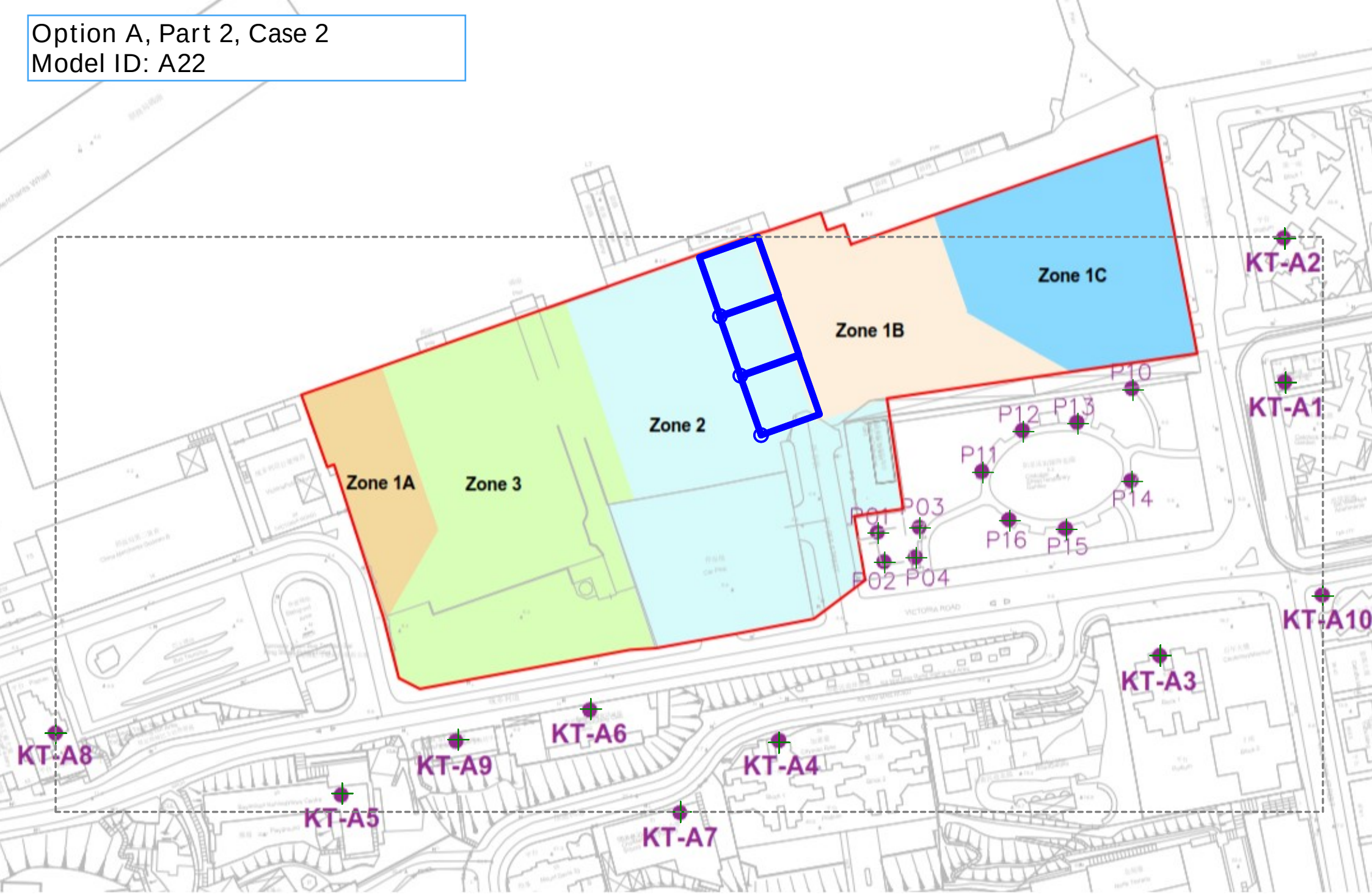
Option A, Part 1, Case 4
Model ID: A14



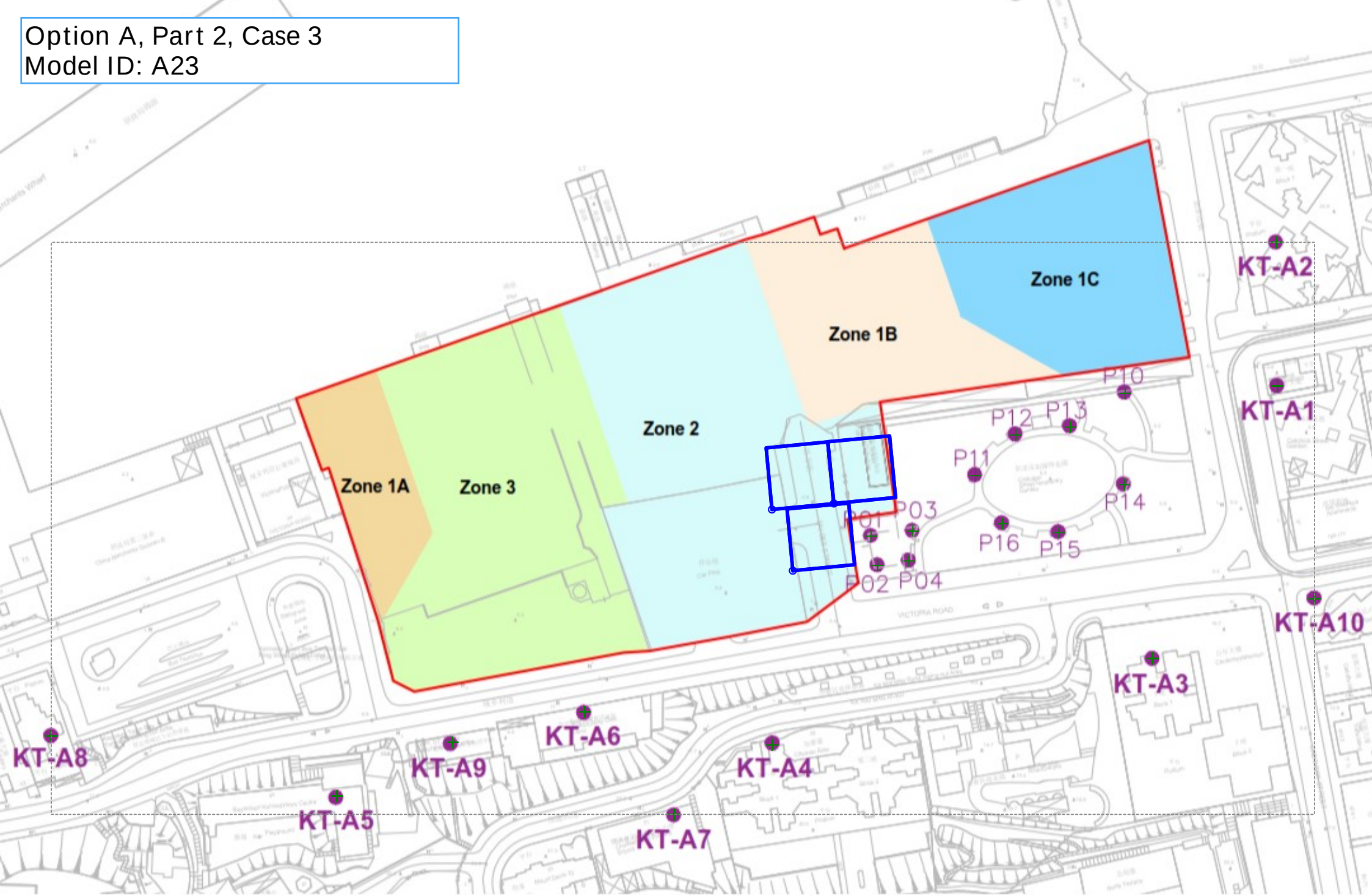
Option A, Part 1, Case 6
Model ID: A16



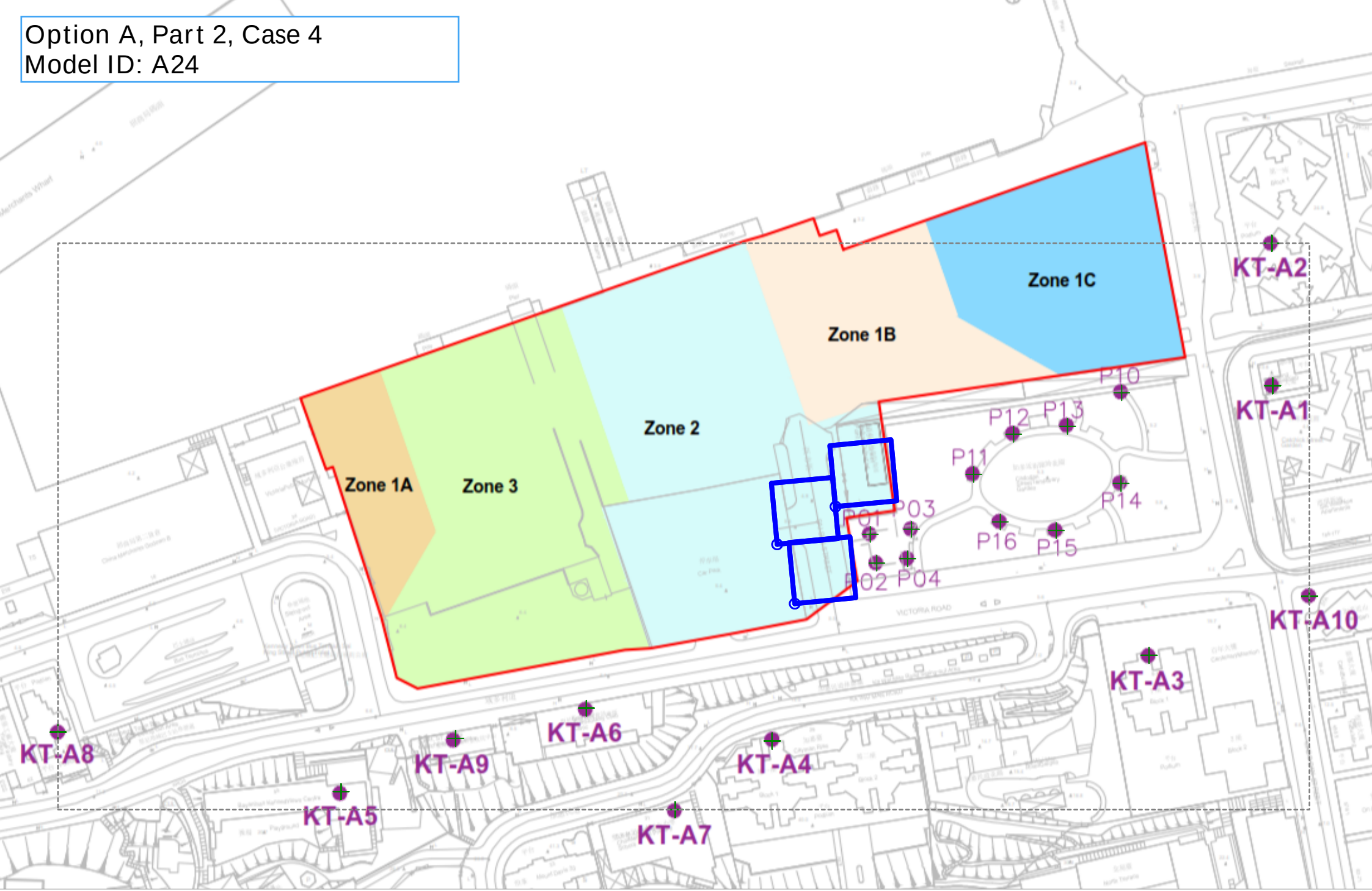
Option A, Part 2, Case 2
Model ID: A22



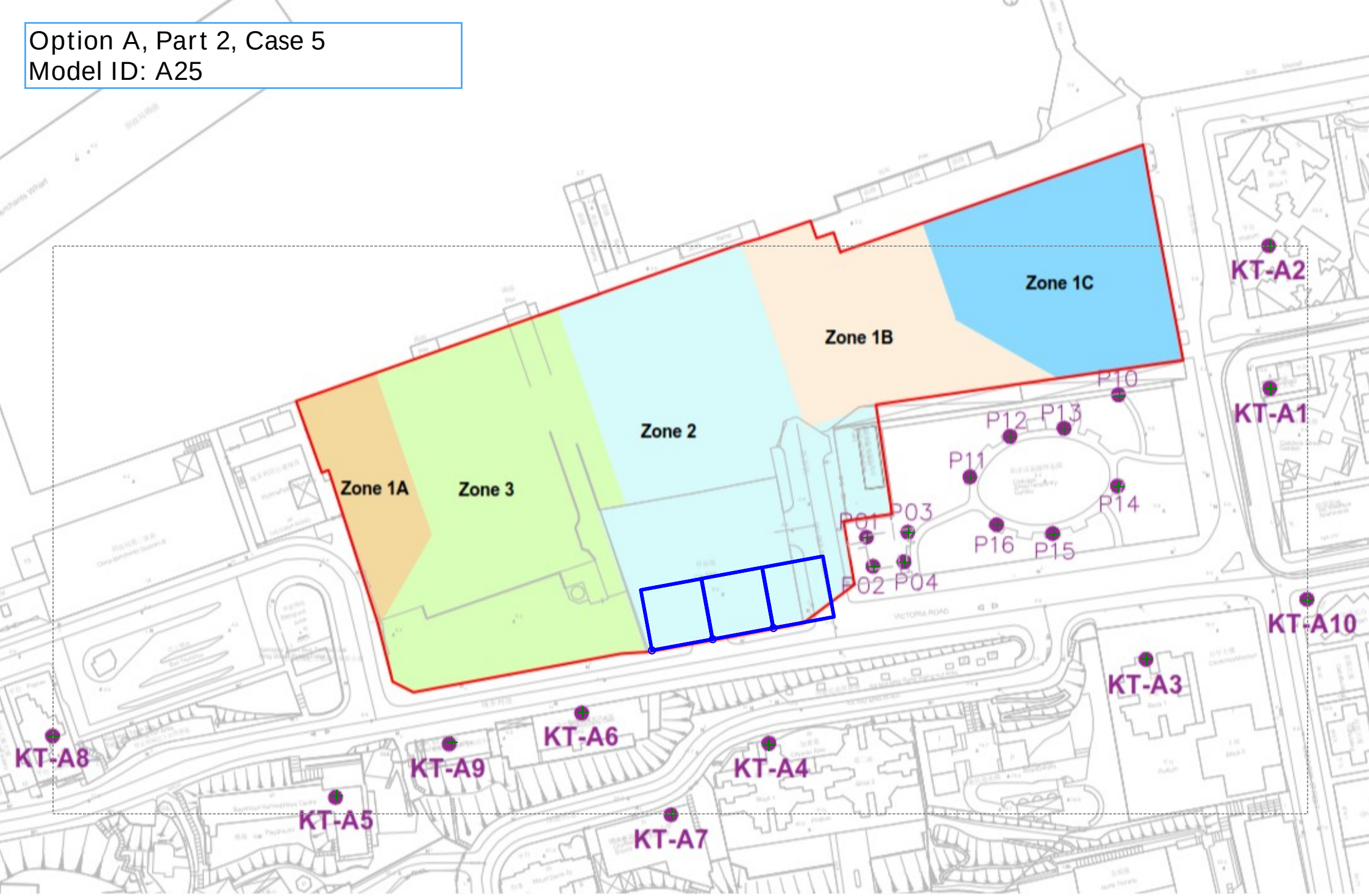
Option A, Part 2, Case 3
Model ID: A23



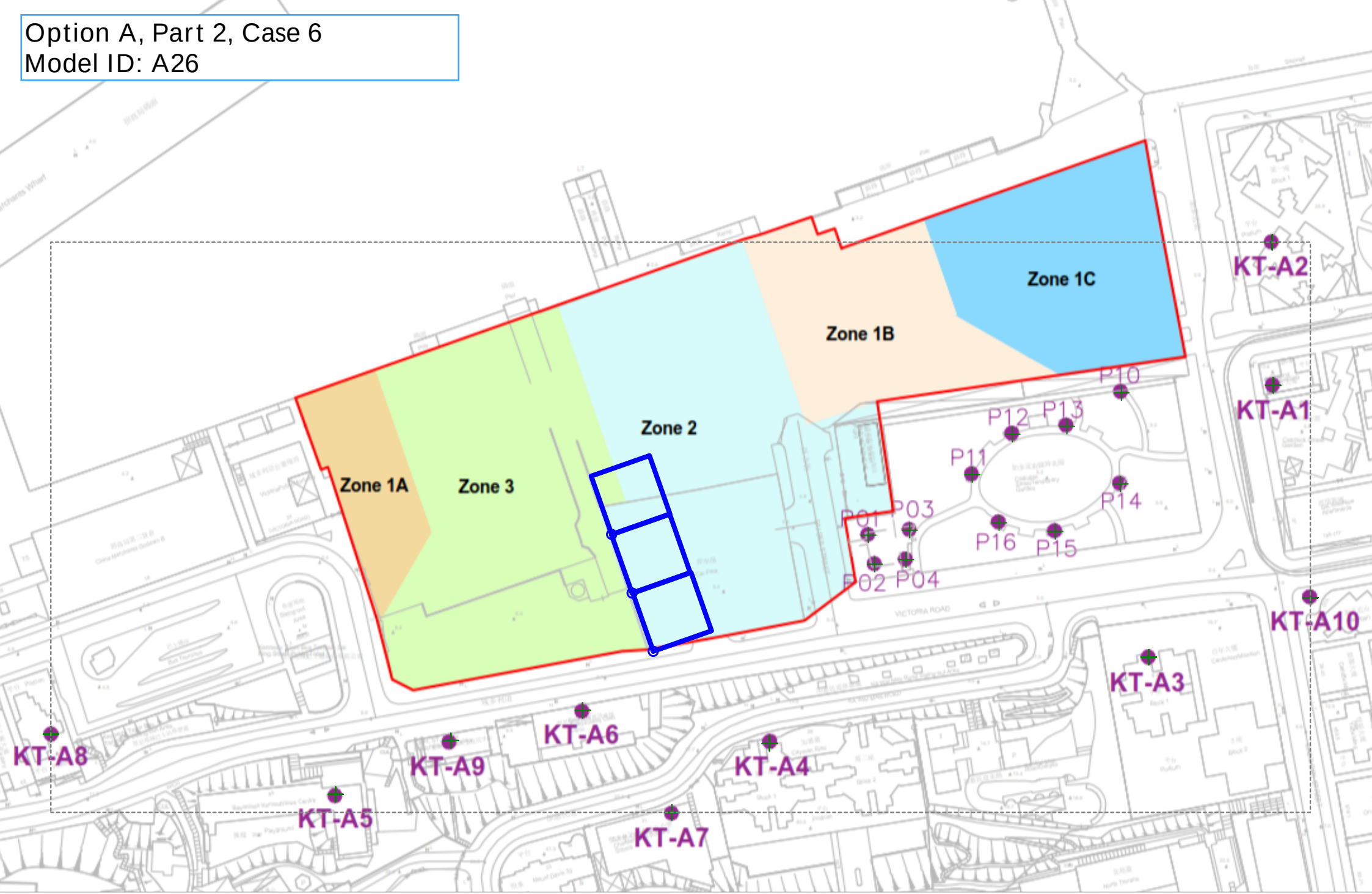
Option A, Part 2, Case 4
Model ID: A24



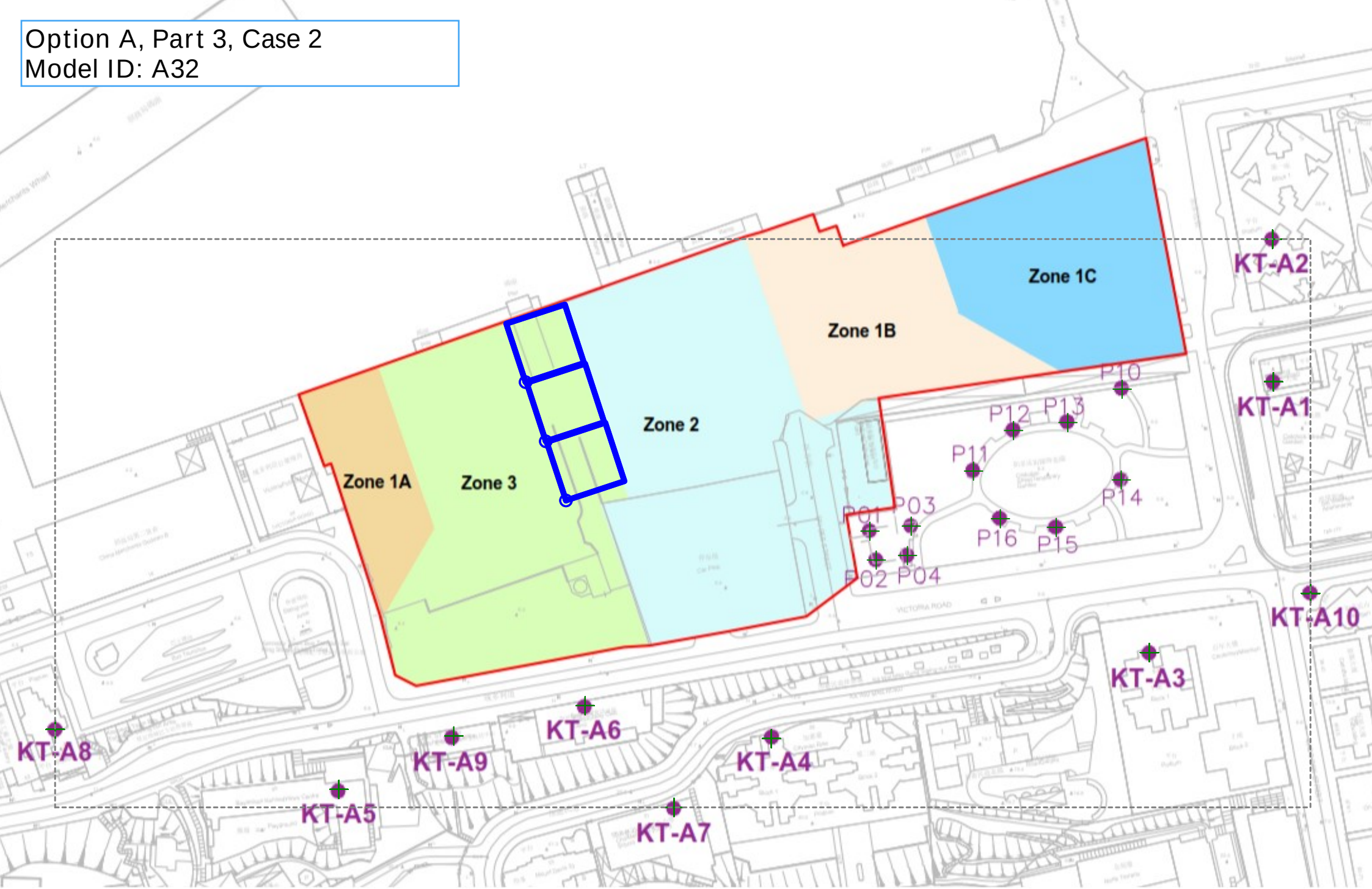
Option A, Part 2, Case 5
Model ID: A25



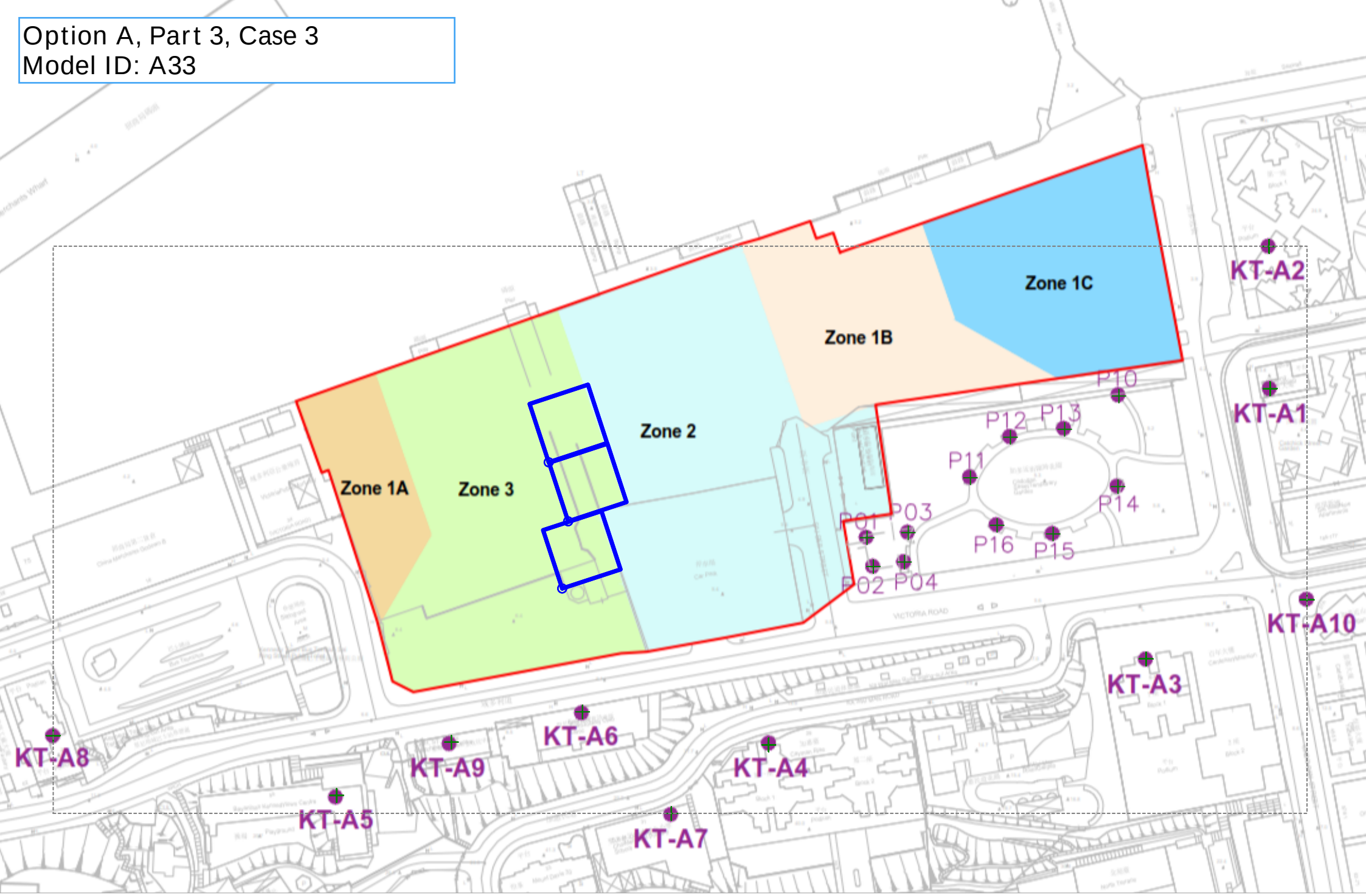
Option A, Part 2, Case 6
Model ID: A26



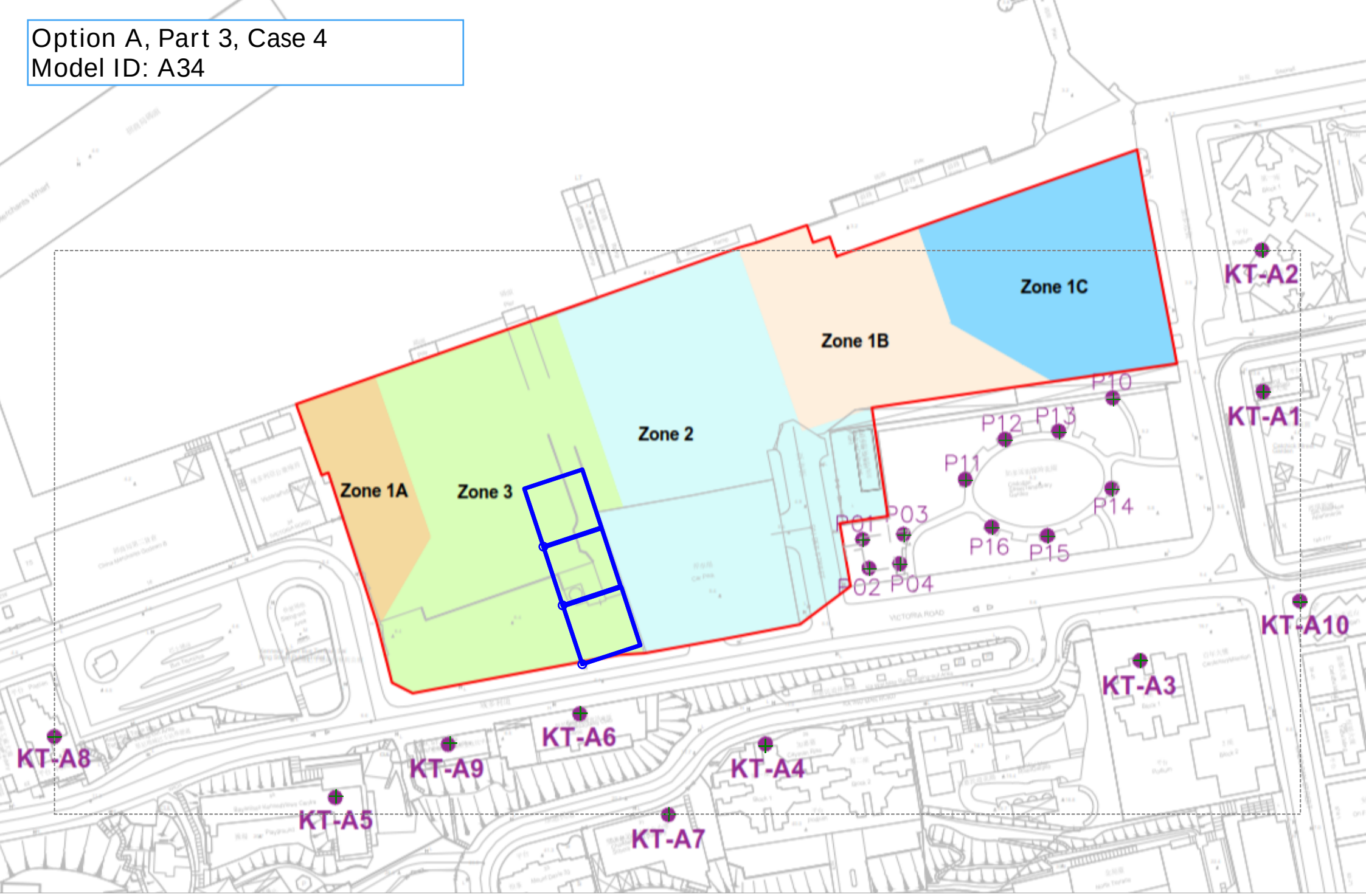
Option A, Part 3, Case 2
Model ID: A32



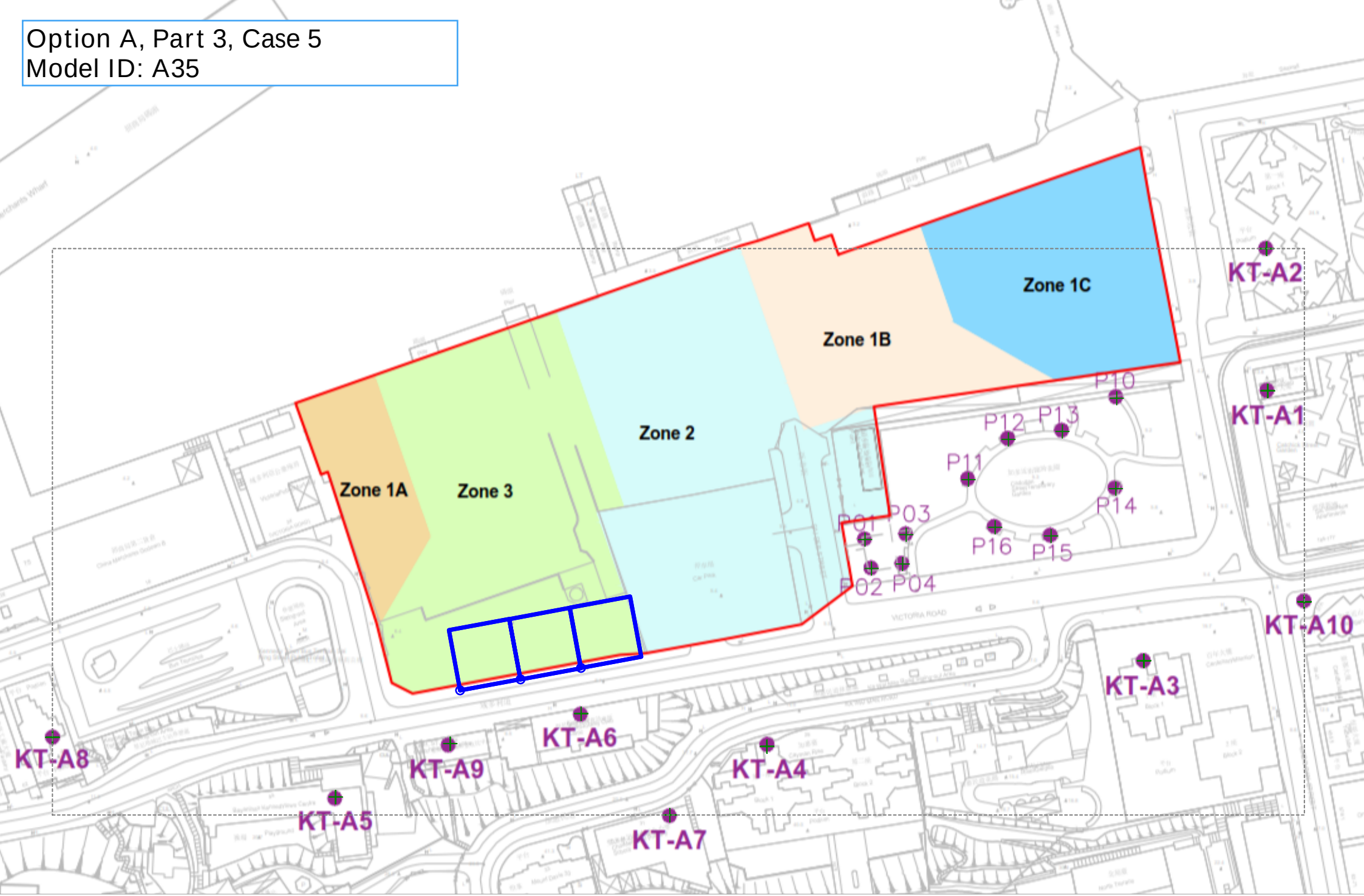
Option A, Part 3, Case 3
Model ID: A33



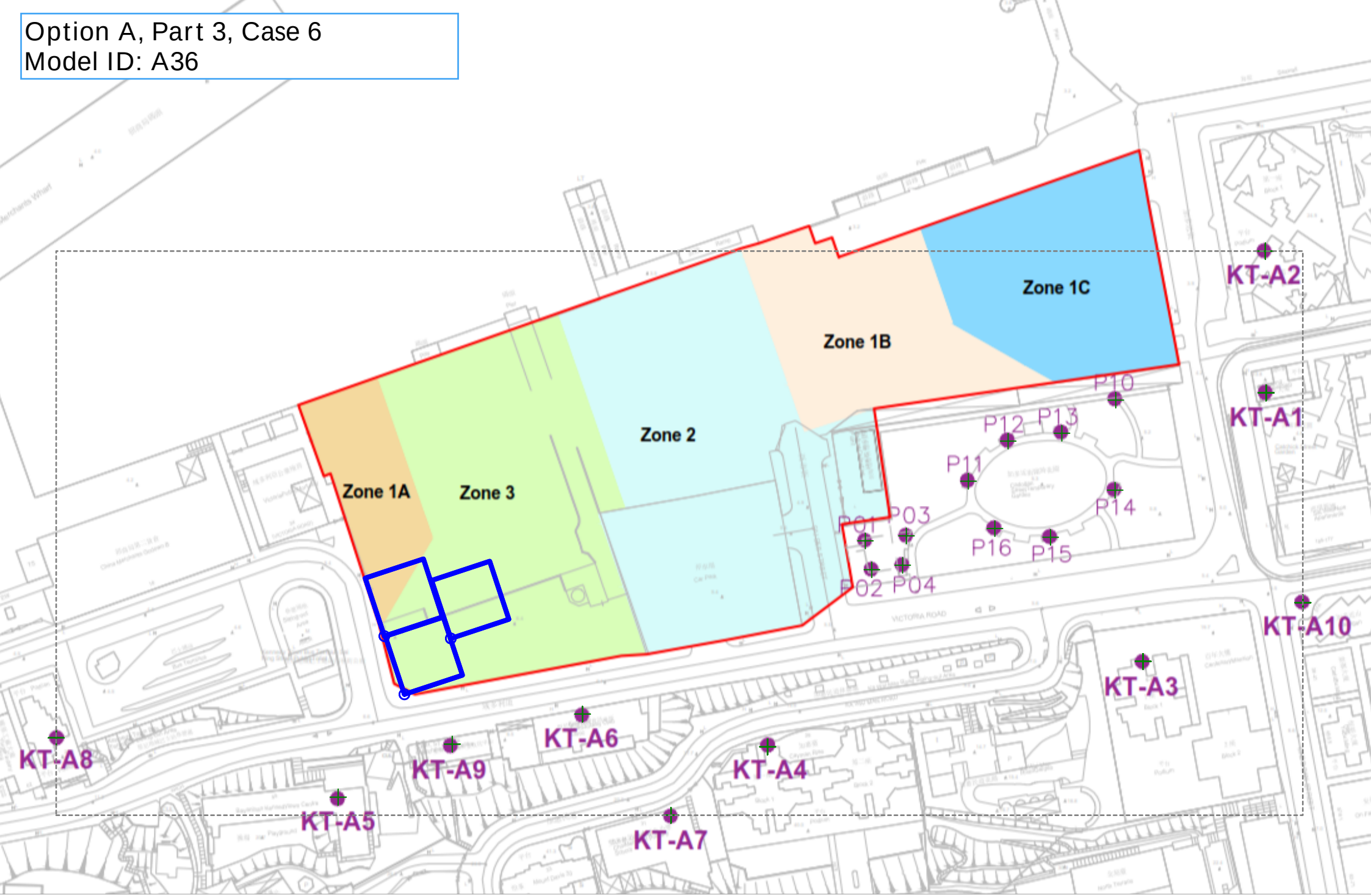
Option A, Part 3, Case 4
Model ID: A34



Option A, Part 3, Case 5
Model ID: A35



Option A, Part 3, Case 6
Model ID: A36



AERMOD Results on Hydrocarbons (HC) **Sensitivity Test on Benzo(a)Pyrene** **Hourly Results** = Selected as Model Case in Parts

Part and Case		Reprov. Option A - Part 1						Reprov. Option A - Part 2						Reprov. Option A - Part 3					
Maximum Value in Cases		0.02173	0.02267	0.02615	0.02222	0.02222		0.01528	0.02401	0.01980	0.02665	0.01773		0.00173	0.00213	0.00330	0.00405	0.00500	
ASR_ID	mAG	A11	A12	A13	A14	A16		A22	A23	A24	A25	A26		A32	A33	A34	A35	A36	
KT-A1	1.5	0.01062	0.01426	0.0196	0.00711	0.0071		0.00396	0.00545	0.0059	0.00506	0.00346		0.00031	0.00029	0.00037	0.0004	0.00028	
KT-A1a	4	0.00936	0.01796	0.02615	0.00657	0.00656		0.00356	0.00521	0.00586	0.00541	0.00345		0.0003	0.00028	0.00037	0.00042	0.00028	
KT-A1b	8	0.00689	0.01668	0.02483	0.00545	0.00544		0.00312	0.00406	0.00482	0.00497	0.00295		0.00027	0.00025	0.00031	0.0004	0.00025	
KT-A1c	12	0.0048	0.0048	0.00493	0.00432	0.00431		0.00268	0.00295	0.00331	0.00367	0.0021		0.00025	0.00023	0.00023	0.00031	0.00019	
KT-A1d	16	0.00333	0.00341	0.00345	0.00335	0.00334		0.00225	0.00219	0.00247	0.00247	0.00173		0.00023	0.00021	0.00019	0.00022	0.00015	
KT-A1e	20	0.00231	0.00249	0.0025	0.00257	0.00256		0.00187	0.00172	0.00193	0.00209	0.00142		0.0002	0.00019	0.00016	0.00019	0.00014	
KT-A1f	30	0.00105	0.00125	0.00112	0.00129	0.00128		0.00113	0.00092	0.00102	0.00132	0.00089		0.00015	0.00014	0.0001	0.00013	0.0001	
KT-A1g	40	0.00072	0.00066	0.00052	0.00066	0.00066		0.00065	0.00056	0.00053	0.0008	0.00058		0.00011	0.0001	0.00007	0.00009	0.00007	
KT-A1h	50	0.00052	0.00033	0.00024	0.00052	0.00052		0.00043	0.00046	0.00045	0.00046	0.00037		0.00008	0.00007	0.00005	0.00007	0.00005	
KT-A1i	60	0.0004	0.00018	0.00012	0.0004	0.0004		0.00036	0.00039	0.00039	0.0003	0.00026		0.00005	0.00004	0.00003	0.00005	0.00004	
KT-A1j	70	0.00031	0.0001	0.00007	0.00031	0.00031		0.0003	0.00033	0.00033	0.00027	0.00023		0.00003	0.00003	0.00003	0.00003	0.00003	
KT-A1k	80	0.00024	0.00006	0.00004	0.00026	0.00026		0.00025	0.00028	0.00028	0.00024	0.00021		0.00003	0.00003	0.00002	0.00002	0.00002	
KT-A1l	90	0.00018	0.00003	0.00002	0.00022	0.00022		0.00021	0.00023	0.00023	0.00021	0.00019		0.00002	0.00002	0.00002	0.00002	0.00002	
KT-A1m	100	0.00013	0.00002	0.00002	0.00018	0.00018		0.00018	0.00019	0.00019	0.00018	0.00017		0.00002	0.00002	0.00002	0.00002	0.00002	
KT-A2	1.5	0.01084	0.02159	0.0219	0.00673	0.00672		0.00385	0.00608	0.00584	0.00425	0.00386		0.00034	0.00041	0.00043	0.0004	0.00033	
KT-A2a	4	0.01044	0.02267	0.0216	0.00683	0.00682		0.00361	0.00659	0.0063	0.00458	0.00424		0.00033	0.00043	0.00047	0.00044	0.00037	
KT-A2b	8	0.00879	0.01512	0.01951	0.00575	0.00575		0.0029	0.00613	0.00583	0.00434	0.00413		0.00028	0.0004	0.00047	0.00045	0.00037	
KT-A2c	12	0.0054	0.00762	0.00684	0.00398	0.00398		0.0025	0.00452	0.00428	0.00336	0.00332		0.0002	0.00031	0.00038	0.00038	0.00032	
KT-A2d	16	0.00363	0.00297	0.00337	0.00289	0.00288		0.00212	0.00266	0.00237	0.00208	0.00216		0.00017	0.00022	0.00026	0.00027	0.00023	
KT-A2e	20	0.00254	0.00204	0.00208	0.00218	0.00217		0.00178	0.00217	0.00193	0.00133	0.00158		0.00014	0.00019	0.00018	0.00016	0.00014	
KT-A2f	30	0.00095	0.00098	0.00114	0.00108	0.00107		0.0011	0.00125	0.00112	0.0009	0.00114		0.0001	0.00013	0.00014	0.00012	0.00011	
KT-A2g	40	0.00073	0.00046	0.00062	0.00056	0.00056		0.00065	0.00068	0.00061	0.00059	0.0008		0.00007	0.00009	0.0001	0.00009	0.00009	
KT-A2h	50	0.00055	0.00019	0.00032	0.00048	0.00048		0.00041	0.00037	0.00037	0.00037	0.00054		0.00005	0.00006	0.00007	0.00007	0.00007	
KT-A2i	60	0.00042	0.00008	0.00018	0.0004	0.0004		0.00035	0.00032	0.0003	0.00026	0.00035		0.00003	0.00004	0.00005	0.00005	0.00006	
KT-A2j	70	0.00032	0.00003	0.0001	0.00033	0.00033		0.00029	0.00028	0.00027	0.00023	0.00021		0.00003	0.00003	0.00003	0.00004	0.00004	
KT-A2k	80	0.00025	0.00002	0.00006	0.00027	0.00027		0.00025	0.00024	0.00024	0.00019	0.00018		0.00002	0.00002	0.00002	0.00002	0.00003	
KT-A2l	90	0.0002	0.00002	0.00003	0.00022	0.00022		0.00022	0.00022	0.00021	0.00017	0.00017		0.00002	0.00002	0.00002	0.00002	0.00002	
KT-A2m	100	0.00016	0.00002	0.00002	0.00018	0.00018		0.00018	0.00019	0.00018	0.00016	0.00015		0.00002	0.00002	0.00002	0.00002	0.00002	
KT-A2n	110	0.00012	0.00001	0.00001	0.00015	0.00015		0.00016	0.00016	0.00016	0.00014	0.00014		0.00002	0.00002	0.00002	0.00001	0.00001	
KT-A2o	120	0.00009	0.00001	0.00001	0.00013	0.00013		0.00013	0.00014	0.00014	0.00013	0.00012		0.00002	0.00002	0.00002	0.00001	0.00001	
KT-A2p	130	0.00007	0.00001	0.00001	0.00011	0.00011		0.00012	0.00012	0.00012	0.00011	0.00011		0.00001	0.00001	0.00001	0.00001	0.00001	
KT-A2q	140	0.00005	0.00001	0.00001	0.00009	0.00009		0.0001	0.0001	0.0001	0.0001	0.0001		0.00001	0.00001	0.00001	0.00001	0.00001	
KT-A2r	150	0.00004	0.00001	0.00001	0.00008	0.00008		0.00009	0.00009	0.00008	0.00009	0.00009		0.00001	0.00001	0.00001	0.00001	0.00001	
KT-A2s	160	0.00003	0.00001	0.00001	0.00006	0.00006		0.00008	0.00007	0.00007	0.00008	0.00008		0.00001	0.00001	0.00001	0.00001	0.00001	
KT-A2t	170	0.00003	0.00001	0.00001	0.00005	0.00005		0.00007	0.00007	0.00007	0.00007	0.00007		0.00001	0.00001	0.00001	0.00001	0.00001	
KT-A2u	180	0.00002	0.00001	0.00001	0.00004	0.00004		0.00006	0.00006	0.00006	0.00006	0.00006		0.00001	0.00001	0.00001	0.00001	0.00001	
KT-A3	1.5	0.00674	0.00764	0.01126	0.00782	0.00782		0.00636	0.00961	0.01018	0.00687	0.00583		0.00068	0.00071	0.00058	0.00043	0.00027	
KT-A3a	4	0.00795	0.00685	0.01037	0.00784	0.00784		0.00571	0.00903	0.0096	0.00613	0.00545		0.00067	0.0007	0.00053	0.00041	0.00026	
KT-A3b	8	0.00621	0.00497	0.00786	0.00649	0.00649		0.0044	0.00703	0.00752	0.00441	0.00416		0.00056	0.00057	0.0004	0.00037	0.00024	
KT-A3c	12	0.0032	0.00274	0.00393	0.00221	0.00221		0.00319	0.00321	0.00322	0.00302	0.00233		0.00036	0.00036	0.00023	0.00033	0.00022	
KT-A3d	16	0.00254	0.00225	0.0024	0.00182	0.00182		0.00227	0.00205	0.00162	0.00233	0.00144		0.00016	0.00015	0.00019	0.00028	0.0002	
KT-A3e	20	0.00201	0.00184	0.00187	0.0015	0.0015		0.00159	0.00144	0.00135	0.00178	0.00116		0.00013	0.0001	0.00016	0.00025	0.00018	
KT-A3f	30	0.00113	0.00117	0.00114	0.001	0.00099		0.00078	0.001	0.00105	0.00087	0.00067		0.00008	0.00008	0.0001	0.00017	0.00013	
KT-A3g	40	0.00074	0.00077	0.0008	0.00078	0.00078		0.00065	0.00079	0.00082	0.00064	0.0005		0.00005	0.00006	0.00006	0.00011	0.0001	
KT-A3h	50	0.00052	0.00053	0.00054	0.00061	0.00061		0.00054	0.00062	0.00064	0.00053	0.00044		0.00004	0.00005	0.00005	0.00007	0.00007	
KT-A3i	60	0.00039	0.00042	0.00037	0.00046	0.00046		0.00045	0.00048	0.00049	0.00042	0.00038		0.00004	0.00004	0.00004	0.00004	0.00004	
KT-A3j	70	0.00029	0.00032	0.00026	0.00036	0.00036		0.00037	0.00036	0.00036	0.00033	0.00033		0.00004	0.00004	0.00004	0.00004	0.00003	
KT-A3k	80	0.00022	0.00024	0.00021	0.00028	0.00028		0.0003	0.00028	0.00027	0.00027	0.00027		0.00003	0.00003	0.00003	0.00003	0.00003	
KT-A3l	90	0.00018	0.00018	0.00016	0.00021	0.00021		0.00023	0.00021	0.0002	0.00022	0.00023		0.00003	0.00003	0.00003	0.00003	0.00002	
KT-A3m	100	0.00014	0.00015	0.00013	0.00016	0.00016		0.00019	0.00016	0.00015	0.00018	0.00019		0.00003	0.00003	0.00002	0.00002	0.00002	
KT-A4	1.5	0.00436	0.00138	0.00196	0.00695	0.00695		0.00647	0.01014	0.01202	0.00829	0.01014		0.00058	0.00066	0.00108	0.00116	0.00103	
KT-A4a	4	0.0037	0.00117	0.00171	0.00585	0.00585		0.00532	0.0084	0.01073	0.00971	0.00934		0.00065	0.00066	0.00096	0.00102	0.00086	
KT-A4b	8	0.00258	0.00076	0.00118	0.00395	0.00395		0.00344	0.00524	0.00689	0.00726	0.00583		0.00049	0.00049	0.0007	0.00075	0.00059	
KT-A4c	12	0.00165	0.00066	0.0008	0.00243	0.00243		0.00238	0.00358	0.00394	0.00332	0.00393		0.00033	0.00037	0.00037	0.00032	0.00023	
KT-A4d	16	0.0011	0.00063	0.00073	0.00169	0.00169		0.00199	0.00287	0.00303	0.00228	0.00266		0.00027	0.00029	0.0003	0.00027	0.00016	
KT-A4e	20	0.00096	0.00057	0.00066	0.00151	0.00151		0.00163	0.00229	0.00233	0.00156	0.00178		0.00023	0.00023	0.00025	0.00022	0.00015	
KT-A4f	30	0.00074	0.00049	0.00053	0.00112	0.00112		0.00106	0.00128	0.00118	0.00073	0.00106		0.00014	0.00013	0.00015	0.00015	0.00012	
KT-A4g	40	0.00056	0.00039	0.00039	0.00081	0.00081		0.00069	0.00072	0.00063	0.00038	0.00062		0.00009	0.0001	0.0001	0.00009	0.0001	
KT-A4h	50	0.00041	0.00029	0.00027	0.00055	0.00055		0.00052	0.00045	0.00039	0.00019	0.00036		0.00007	0.00007	0.00006	0.00006	0.00008	
KT-A4i	60	0.00029	0.00021	0.00021	0.00037	0.00037		0.0004	0.0003	0.00026	0.00008	0.00024		0.00005	0.00005	0.00004	0.00004	0.00006	
KT-A4j	70	0.00025	0.00017	0.00019	0.00028	0.00028		0.00031	0.00021	0.00017	0.00003	0.00015		0.00004	0.00004	0.00003	0.00003	0.00004	

AERMOD Results on Hydrocarbons (HC) **Sensitivity Test on Benzo(a)Pyrene** **Hourly Results** = Selected as Model Case in Parts

Part and Case		Reprov. Option A - Part 1						Reprov. Option A - Part 2						Reprov. Option A - Part 3					
Maximum Value in Cases		0.02173	0.02267	0.02615	0.02222	0.02222		0.01528	0.02401	0.01980	0.02665	0.01773		0.00173	0.00213	0.00330	0.00405	0.00500	
ASR_ID	mAG	A11	A12	A13	A14	A16		A22	A23	A24	A25	A26		A32	A33	A34	A35	A36	
KT-A4k	80	0.00022	0.00015	0.00017	0.00022	0.00022		0.00023	0.00015	0.00012	0.00001	0.0001		0.00003	0.00003	0.00002	0.00002	0.00003	
KT-A4l	90	0.00019	0.00014	0.00015	0.00017	0.00017		0.00018	0.00011	0.00008	0	0.00007		0.00002	0.00002	0.00001	0.00001	0.00002	
KT-A4m	100	0.00016	0.00013	0.00014	0.00014	0.00014		0.00015	0.00008	0.00006	0	0.00004		0.00002	0.00002	0.00001	0.00001	0.00002	
KT-A4n	110	0.00013	0.00012	0.00012	0.00011	0.00011		0.00013	0.00006	0.00004	0	0.00003		0.00002	0.00001	0.00001	0.00001	0.00001	
KT-A4o	120	0.00011	0.00011	0.00011	0.00009	0.00009		0.00011	0.00004	0.00003	0	0.00002		0.00001	0.00001	0	0	0.00001	
KT-A5	1.5	0.00146	0.00111	0.00119	0.00168	0.00164		0.00176	0.00213	0.00219	0.00316	0.0036		0.00052	0.00044	0.00057	0.00092	0.00178	
KT-A5a	4	0.00155	0.00115	0.00125	0.00179	0.00176		0.00193	0.00249	0.00256	0.00363	0.00406		0.00058	0.00045	0.00062	0.00099	0.00193	
KT-A5b	8	0.00163	0.00121	0.00133	0.00184	0.00183		0.00183	0.00268	0.00274	0.00366	0.00391		0.00036	0.00037	0.00055	0.00085	0.00122	
KT-A5c	12	0.00147	0.00115	0.00125	0.00157	0.00157		0.00138	0.00225	0.00228	0.00277	0.00277		0.00022	0.00022	0.00035	0.00049	0.00052	
KT-A5d	16	0.0011	0.00094	0.00101	0.00108	0.00108		0.0008	0.00146	0.00146	0.00151	0.00137		0.00016	0.00018	0.00019	0.00031	0.00037	
KT-A5e	20	0.00064	0.00063	0.00066	0.00057	0.00057		0.00065	0.00079	0.00085	0.00132	0.00117		0.00014	0.00016	0.00016	0.00025	0.00027	
KT-A6	1.5	0.00202	0.0013	0.00147	0.00249	0.00249		0.00857	0.00474	0.00517	0.01162	0.01403		0.00173	0.00213	0.00254	0.002	0.00199	
KT-A6a	4	0.00233	0.0015	0.00175	0.00269	0.00269		0.00739	0.0053	0.00585	0.0121	0.01773		0.00159	0.00212	0.0033	0.00405	0.00211	
KT-A6b	8	0.00237	0.00166	0.00197	0.00239	0.00239		0.00519	0.00485	0.00544	0.01	0.01107		0.00117	0.00147	0.00178	0.00125	0.00131	
KT-A6c	12	0.00185	0.00147	0.00175	0.00158	0.00158		0.00343	0.00316	0.00356	0.0044	0.00444		0.00051	0.00061	0.00073	0.0005	0.00054	
KT-A7	1.5	0.00137	0.00091	0.0013	0.00411	0.00411		0.00294	0.00596	0.00507	0.00594	0.00697		0.00094	0.00104	0.00106	0.00085	0.00081	
KT-A7a	4	0.00161	0.00075	0.0011	0.0036	0.0036		0.00254	0.00497	0.0042	0.00567	0.00761		0.00083	0.00097	0.00117	0.00073	0.00067	
KT-A7b	8	0.00133	0.00051	0.00076	0.00267	0.00267		0.00183	0.00332	0.00281	0.00419	0.00619		0.00063	0.00077	0.00095	0.00053	0.00047	
KT-A7c	12	0.00074	0.0005	0.00055	0.00182	0.00182		0.00134	0.00208	0.00176	0.00304	0.00286		0.00035	0.00037	0.00035	0.00036	0.00028	
KT-A7d	16	0.0007	0.00047	0.00051	0.00118	0.00118		0.00124	0.00156	0.00152	0.00236	0.00215		0.00018	0.00022	0.00028	0.00025	0.00022	
KT-A7e	20	0.00066	0.00043	0.00046	0.00086	0.00086		0.00115	0.00137	0.00131	0.00182	0.00169		0.00015	0.00019	0.00023	0.0002	0.00019	
KT-A8	1.5	0.00105	0.00089	0.00092	0.00116	0.00118		0.00105	0.00108	0.00109	0.00136	0.00157		0.0002	0.00022	0.00024	0.00029	0.0004	
KT-A8a	4	0.00127	0.00108	0.0011	0.00142	0.00144		0.00132	0.00136	0.00138	0.00171	0.00196		0.00025	0.00027	0.00029	0.00036	0.00049	
KT-A8b	8	0.0015	0.00127	0.00127	0.00168	0.0017		0.00162	0.00166	0.00169	0.00207	0.00232		0.0003	0.00031	0.00034	0.00041	0.00054	
KT-A8c	12	0.00141	0.00122	0.00119	0.0016	0.0016		0.00162	0.00165	0.00168	0.002	0.00217		0.00028	0.00028	0.00031	0.00036	0.00044	
KT-A8d	16	0.0011	0.00098	0.00093	0.00124	0.00124		0.00133	0.00135	0.00138	0.00155	0.00159		0.00021	0.0002	0.00021	0.00024	0.00025	
KT-A8e	20	0.00071	0.00067	0.00065	0.00078	0.00078		0.00088	0.00089	0.00091	0.00094	0.00089		0.00011	0.00011	0.00011	0.00011	0.00018	
KT-A8f	30	0.00039	0.00032	0.00032	0.00045	0.00045		0.00043	0.00039	0.00036	0.00041	0.00057		0.00008	0.00009	0.00009	0.00008	0.00014	
KT-A8g	40	0.00035	0.00028	0.00028	0.0004	0.0004		0.0004	0.00036	0.00033	0.00035	0.00049		0.00007	0.00008	0.00007	0.00006	0.00009	
KT-A8h	50	0.0003	0.00025	0.00024	0.00034	0.00034		0.00036	0.00032	0.00029	0.00028	0.00039		0.00005	0.00006	0.00006	0.00004	0.00005	
KT-A8i	60	0.00026	0.00021	0.00021	0.00029	0.00028		0.0003	0.00027	0.00025	0.00022	0.0003		0.00004	0.00004	0.00004	0.00004	0.00004	
KT-A8j	70	0.00022	0.00019	0.00018	0.00024	0.00023		0.00025	0.00022	0.0002	0.00019	0.00021		0.00003	0.00003	0.00003	0.00003	0.00003	
KT-A8k	80	0.00018	0.00016	0.00016	0.00019	0.00019		0.00019	0.00017	0.00015	0.00017	0.00016		0.00002	0.00002	0.00002	0.00003	0.00003	
KT-A8l	90	0.00015	0.00014	0.00013	0.00015	0.00015		0.00014	0.00013	0.00012	0.00015	0.00013		0.00002	0.00002	0.00002	0.00002	0.00002	
KT-A8m	100	0.00012	0.00012	0.00011	0.00011	0.00011		0.00012	0.0001	0.0001	0.00013	0.00011		0.00002	0.00002	0.00002	0.00002	0.00001	
KT-A9	1.5	0.00241	0.00241	0.00241	0.00241	0.00227		0.00237	0.00308	0.00321	0.00532	0.00612		0.00157	0.00137	0.00102	0.00195	0.00337	
KT-A9a	4	0.00233	0.00233	0.00233	0.00233	0.00219		0.00274	0.00355	0.0037	0.00596	0.0065		0.00132	0.00117	0.00099	0.00309	0.005	
KT-A9b	8	0.002	0.00177	0.00177	0.00222	0.00222		0.00195	0.00361	0.00374	0.0055	0.00541		0.0009	0.00078	0.00071	0.00118	0.0024	
KT-A10	1.5	0.00876	0.00758	0.00736	0.00632	0.0063		0.00539	0.0064	0.00565	0.00394	0.00244		0.00048	0.00039	0.00027	0.00028	0.0002	
KT-A10a	4	0.00763	0.00745	0.0095	0.006	0.00599		0.00531	0.00603	0.00517	0.00372	0.00232		0.00048	0.00036	0.00025	0.00027	0.0002	
KT-A10b	8	0.00544	0.00599	0.00709	0.00466	0.00465		0.00433	0.00464	0.00383	0.00333	0.00211		0.0004	0.00028	0.00023	0.00025	0.00018	
KT-A10c	12	0.00367	0.00279	0.00355	0.0026	0.00259		0.0027	0.00255	0.00213	0.00292	0.0019		0.00027	0.00017	0.00021	0.00023	0.00017	
KT-A10d	16	0.00246	0.00227	0.00271	0.00175	0.00175		0.0013	0.0013	0.00175	0.00252	0.00169		0.00014	0.00012	0.00019	0.00021	0.00016	
KT-A10e	20	0.0016	0.00185	0.00207	0.00121	0.00121		0.00106	0.00105	0.00142	0.00216	0.0015		0.00007	0.00011	0.00018	0.00019	0.00015	
KT-A10f	30	0.00089	0.00109	0.00108	0.00069	0.00069		0.00062	0.00067	0.00081	0.00141	0.00107		0.00006	0.00008	0.00013	0.00015	0.00012	
KT-A10g	40	0.00071	0.00075	0.00075	0.00054	0.00054		0.00043	0.00053	0.00053	0.00088	0.00074		0.00005	0.00006	0.0001	0.00011	0.0001	
KT-A10h	50	0.00056	0.00055	0.00057	0.00045	0.00045		0.00036	0.00046	0.00045	0.00051	0.00048		0.00004	0.00004	0.00007	0.00008	0.00008	
KT-A10i	60	0.00043	0.00039	0.00041	0.00039	0.00039		0.00033	0.0004	0.00038	0.00035	0.00031		0.00003	0.00003	0.00005	0.00006	0.00006	
KT-A10j	70	0.00032	0.00028	0.00029	0.00033	0.00033		0.00029	0.00034	0.00032	0.0003	0.00025		0.00003	0.00003	0.00003	0.00004	0.00004	
KT-A10k	80	0.00026	0.00022	0.00021	0.00028	0.00028		0.00026	0.00028	0.00027	0.00026	0.00022		0.00003	0.00002	0.00003	0.00003	0.00003	
KT-A10l	90	0.00021	0.00018	0.00016	0.00023	0.00023		0.00023	0.00023	0.00022	0.00022	0.0002		0.00002	0.00002	0.00002	0.00002	0.00002	
KT-A10m	100	0.00017	0.00015	0.00013	0.00019	0.00019		0.0002	0.00019	0.00018	0.00018	0.00017		0.00002	0.00002	0.00002	0.00002	0.00002	
KT-A10n	110	0.00014	0.00012	0.0001	0.00016	0.00016		0.00017	0.00016	0.00016	0.00015	0.00015		0.00002	0.00002	0.00002	0.00002	0.00002	
KT-A10o	120	0.00011	0.0001	0.00007	0.00013	0.00013		0.00014	0.00014	0.00014	0.00014	0.00013		0.00002	0.00002	0.00002	0.00002	0.00002	
KT-A10p	130	0.00009	0.00008	0.00005	0.00011	0.00011		0.00012	0.00012	0.00012	0.00012	0.00012		0.00002	0.00001	0.00001	0.00001	0.00001	
KT-A10q	140	0.00007	0.00006	0.00004	0.00009	0.00009		0.00011	0.0001	0.0001	0.0001	0.0001		0.00001	0.00001	0.00001	0.00001	0.00001	

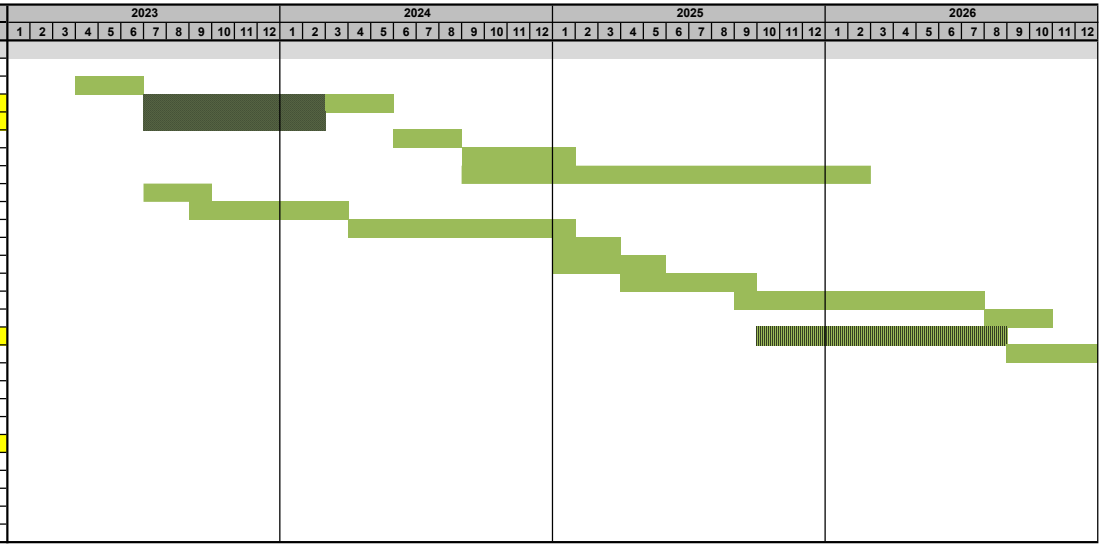
AERMOD Results on Hydrocarbons (HC) **Sensitivity Test on Benzo(a)Pyrene** **Hourly Results** = Selected as Model Case in Parts

Part and Case		Reprov. Option A - Part 1						Reprov. Option A - Part 2						Reprov. Option A - Part 3					
Maximum Value in Cases		0.02173	0.02267	0.02615	0.02222	0.02222		0.01528	0.02401	0.01980	0.02665	0.01773		0.00173	0.00213	0.00330	0.00405	0.00500	
ASR_ID	mAG	A11	A12	A13	A14	A16		A22	A23	A24	A25	A26		A32	A33	A34	A35	A36	
P01	1.5	0.01151	0.00299	0.00402	0.01727	0.01727		0.01528	0.01568	0.01232	0.02665	0.01479		0.00145	0.00125	0.00141	0.00139	0.0007	
P02	1.5	0.01457	0.00276	0.00374	0.01665	0.01665		0.01239	0.0182	0.01437	0.02376	0.01492		0.00132	0.00138	0.00142	0.00115	0.00078	
P03	1.5	0.01501	0.00335	0.00475	0.02222	0.02222		0.01147	0.01805	0.01499	0.02476	0.01244		0.00129	0.00102	0.00116	0.00111	0.00059	
P04	1.5	0.0155	0.00298	0.00418	0.02044	0.02044		0.01096	0.01843	0.01544	0.02109	0.01315		0.00127	0.00122	0.00124	0.00097	0.00068	
P10	1.5	0.01802	0.02197	0.02021	0.01467	0.01465		0.00706	0.01106	0.01152	0.00824	0.00573		0.00049	0.00044	0.00059	0.00062	0.00042	
P11	1.5	0.01985	0.00493	0.00789	0.01911	0.01911		0.01401	0.02401	0.01929	0.01588	0.00846		0.00086	0.00089	0.00082	0.00094	0.00055	
P12	1.5	0.01988	0.00717	0.01295	0.0183	0.01829		0.01286	0.0191	0.0198	0.01221	0.00802		0.00067	0.00073	0.0008	0.00084	0.00054	
P13	1.5	0.01989	0.01614	0.01796	0.01683	0.01682		0.01047	0.01347	0.0146	0.01029	0.00653		0.00056	0.00059	0.00066	0.00071	0.00046	
P14	1.5	0.01483	0.01126	0.01733	0.01316	0.01315		0.00944	0.0128	0.01195	0.00799	0.00461		0.00054	0.0005	0.00046	0.00053	0.00031	
P15	1.5	0.01685	0.01619	0.0156	0.01305	0.01305		0.0108	0.01305	0.01429	0.00945	0.00675		0.00082	0.00059	0.00066	0.00056	0.00038	
P16	1.5	0.02173	0.0091	0.00752	0.01495	0.01495		0.01362	0.01631	0.01756	0.01456	0.00838		0.00096	0.00069	0.0008	0.00074	0.00043	

Agreement No. CE13/2019 Ground Decontamination Works at the Site of Ex-Kennedy Town Incineration Plant/Abattoir and Adjoining Area – Design and Construction

Reprovisioning Option B - 7 Years

Item (#)	Task (Name)	Duration (Days)	Start (Date)	End (Date)
1	Stage 1_Scenario 7.0yr	2557	4/1/2023	3/31/2030
2	Commencement	0	4/1/2023	4/1/2023
3	Preliminary	91	4/1/2023	6/30/2023
4	Stage I Excavation (For Zone 1A & 1C)	336	7/1/2023	5/31/2024
5	Stage II Excavation (For Zone 3(30%) & 1B)	244	7/1/2023	2/29/2024
6	Reinstatement of Zone 1A & 1C	92	6/1/2024	8/31/2024
7	Reprovisioning of Car Park (By Others)	150	9/1/2024	1/28/2025
8	Reprovisioning of RCP (By Others)	546	9/1/2024	2/28/2026
9	Foundation for Biopile A at Zone 3	91	7/1/2023	9/29/2023
10	Formation of Biopile A at Zone 3 (For Zone 1A, 1C-60% & 1B-60%)	184	9/30/2023	3/31/2024
11	Operation of Biopile A at Zone 3 (For Zone 1A, 1C-60% & 1B-60%)	303	4/1/2024	1/28/2025
12	Decomissioning of Biopile A at Zone 3	62	1/29/2025	3/31/2025
13	Reinstatement of Zone 1B	123	1/29/2025	5/31/2025
x	Formation of Biopile B at Zone 3 (For Zone 3-30%)	181	4/1/2025	9/28/2025
15	Operation of Biopile B at Zone 3 (For Zone 3-30%)	306	9/29/2025	7/31/2026
16	Decomissioning of Biopile B at Zone 3	59	8/1/2026	9/28/2026
17	Stage V Excavation (for Zone 2)	304	11/29/2025	9/28/2026
18	Formation of Biopile C at Zone 3 (For Zone 2)	184	9/29/2026	3/31/2027
19	Operation of Biopile C At Zone 3 (For Zone 2)	304	4/1/2027	1/29/2028
20	Decomissioning of Biopile C at Zone 3	62	1/30/2028	3/31/2028
21	Removal of Biopile foundation at Zone 3	61	4/1/2028	5/31/2028
22	Reinstatement of Zone 2	92	1/30/2028	4/30/2028
23	Stage VI Excavation (For Zone 3(70%))	273	4/1/2028	12/29/2028
24	Foundation for Biopile D at Zone 2	61	6/1/2028	7/31/2028
25	Formation of Biopile D at Zone 2 (For Zone 3-70%, 1C-40% & 1B-40%)	212	8/1/2028	2/28/2029
26	Operation of Biopile D at Zone 2 (For Zone 3-70%, 1C-40% & 1B-40%)	304	3/1/2029	12/29/2029
27	Decomissioning of Biopile D at Zone 2	61	12/30/2029	2/28/2030
28	Reinstatement of Zone 3 & Remaining works	92	12/30/2029	3/31/2030



Note

Modelling for Part 1: assessment asssumes Stage I and II excavation works overlapping and continuous over a year for conservative approach

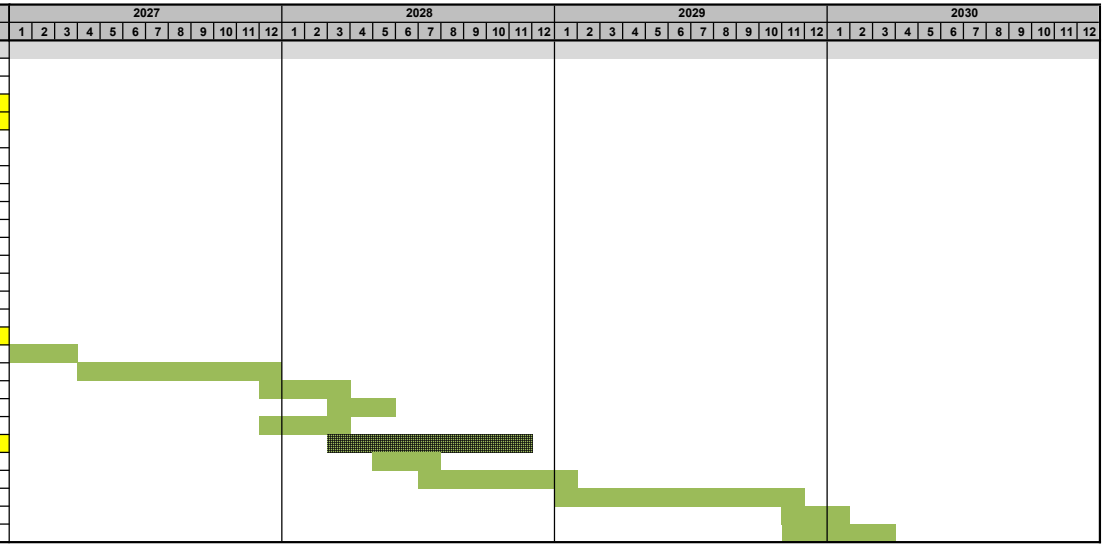
Modelling for Part 2: assessment asssumes Stage V excavation work continuous over a year for conservative approach

Modelling for Part 3: assessment asssumes Stage VI excavation works continuous over a year for conservative approach

Agreement No. CE13/2019 Ground Decontamination Works at the Site of Ex-Kennedy Town Incineration Plant/Abattoir and Adjoining Area – Design an

Reprovisioning Option B - 7 Years

Item (#)	Task (Name)	Duration (Days)	Start (Date)	End (Date)
1	Stage 1_Scenario 7.0yr	2557	4/1/2023	3/31/2030
2	Commencement	0	4/1/2023	4/1/2023
3	Preliminary	91	4/1/2023	6/30/2023
4	Stage I Excavation (For Zone 1A & 1C)	336	7/1/2023	5/31/2024
5	Stage II Excavation (For Zone 3(30%) & 1B)	244	7/1/2023	2/29/2024
6	Reinstatement of Zone 1A & 1C	92	6/1/2024	8/31/2024
7	Reprovisioning of Car Park (By Others)	150	9/1/2024	1/28/2025
8	Reprovisioning of RCP (By Others)	546	9/1/2024	2/28/2026
9	Foundation for Biopile A at Zone 3	91	7/1/2023	9/29/2023
10	Formation of Biopile A at Zone 3 (For Zone 1A, 1C-60% & 1B-60%)	184	9/30/2023	3/31/2024
11	Operation of Biopile A at Zone 3 (For Zone 1A, 1C-60% & 1B-60%)	303	4/1/2024	1/28/2025
12	Decomissioning of Biopile A at Zone 3	62	1/29/2025	3/31/2025
13	Reinstatement of Zone 1B	123	1/29/2025	5/31/2025
x	Formation of Biopile B at Zone 3 (For Zone 3-30%)	181	4/1/2025	9/28/2025
15	Operation of Biopile B at Zone 3 (For Zone 3-30%)	306	9/29/2025	7/31/2026
16	Decomissioning of Biopile B at Zone 3	59	8/1/2026	9/28/2026
17	Stage V Excavation (for Zone 2)	304	11/29/2025	9/28/2026
18	Formation of Biopile C at Zone 3 (For Zone 2)	184	9/29/2026	3/31/2027
19	Operation of Biopile C At Zone 3 (For Zone 2)	304	4/1/2027	1/29/2028
20	Decomissioning of Biopile C at Zone 3	62	1/30/2028	3/31/2028
21	Removal of Biopile foundation at Zone 3	61	4/1/2028	5/31/2028
22	Reinstatement of Zone 2	92	1/30/2028	4/30/2028
23	Stage VI Excavation (For Zone 3(70%))	273	4/1/2028	12/29/2028
24	Foundation for Biopile D at Zone 2	61	6/1/2028	7/31/2028
25	Formation of Biopile D at Zone 2 (For Zone 3-70%, 1C-40% & 1B-40%)	212	8/1/2028	2/28/2029
26	Operation of Biopile D at Zone 2 (For Zone 3-70%, 1C-40% & 1B-40%)	304	3/1/2029	12/29/2029
27	Decomissioning of Biopile D at Zone 2	61	12/30/2029	2/28/2030
28	Reinstatement of Zone 3 & Remaining works	92	12/30/2029	3/31/2030



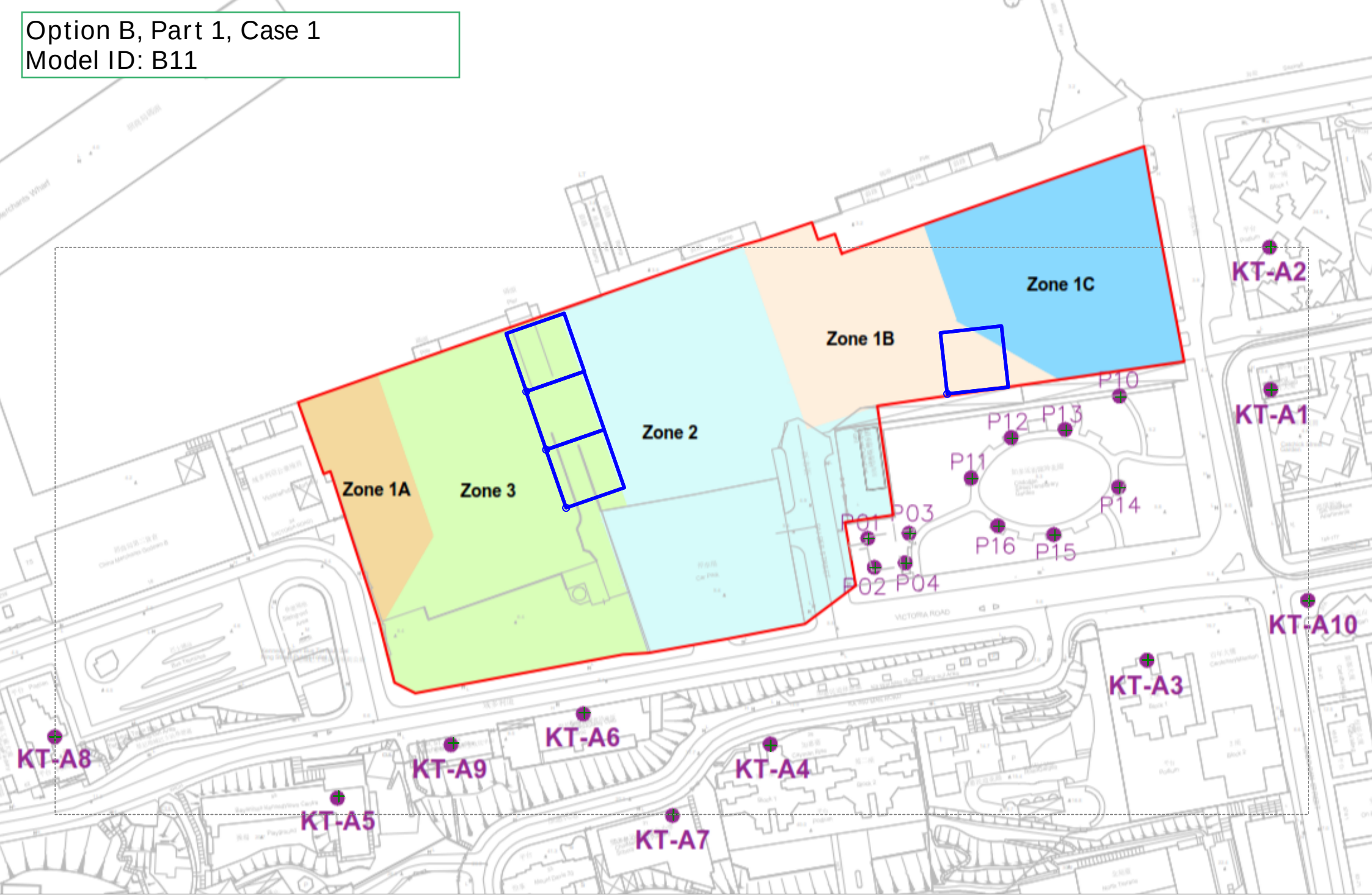
Note

Modelling for Part 1: assessment asssumes Stage I and II excavation works overlapping and continuous over a year for conservative approach

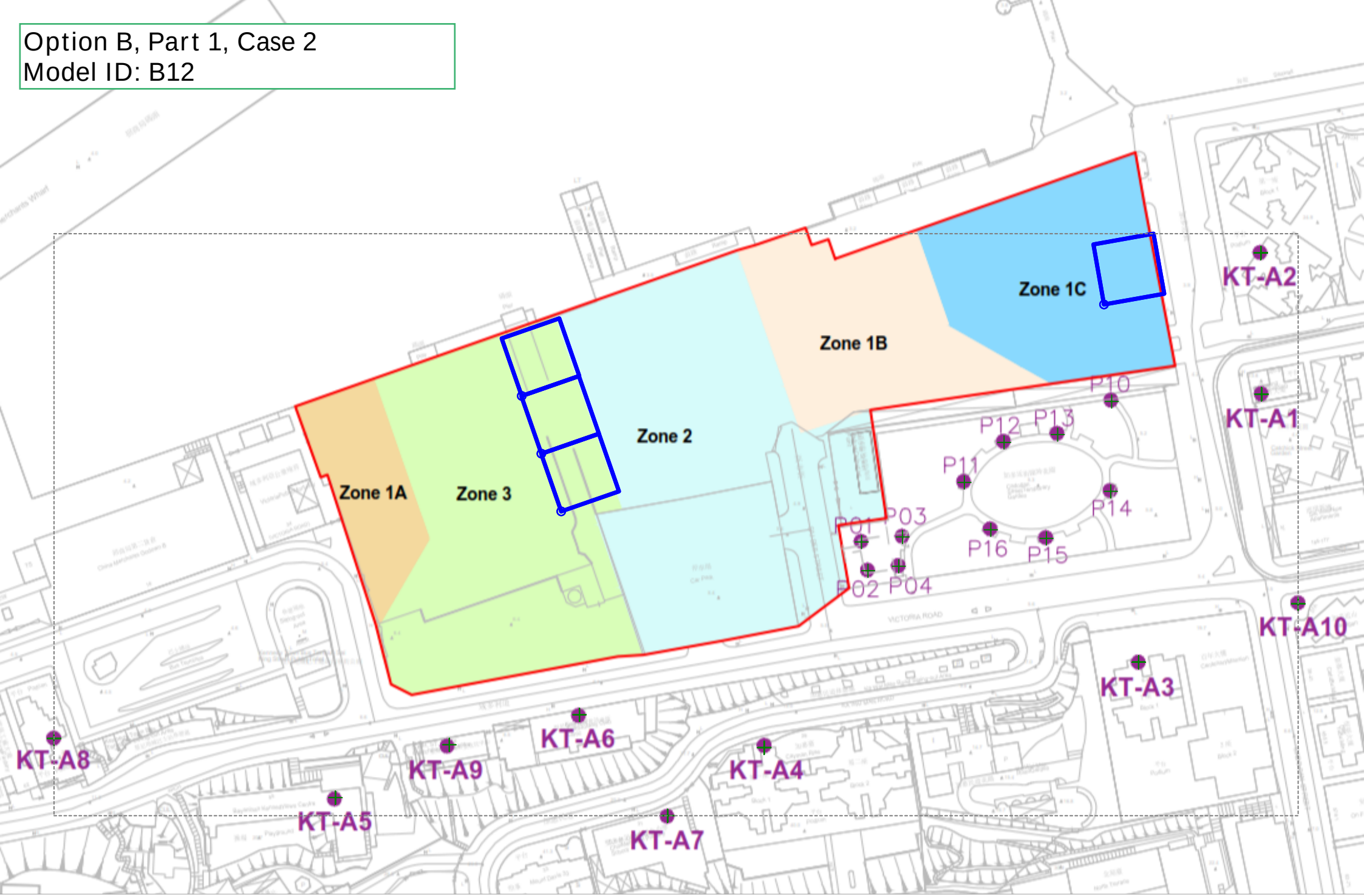
Modelling for Part 2: assessment asssumes Stage V excavation work continuous over a year for conservative approach

Modelling for Part 3: assessment asssumes Stage VI excavation works continuous over a year for conservative approach

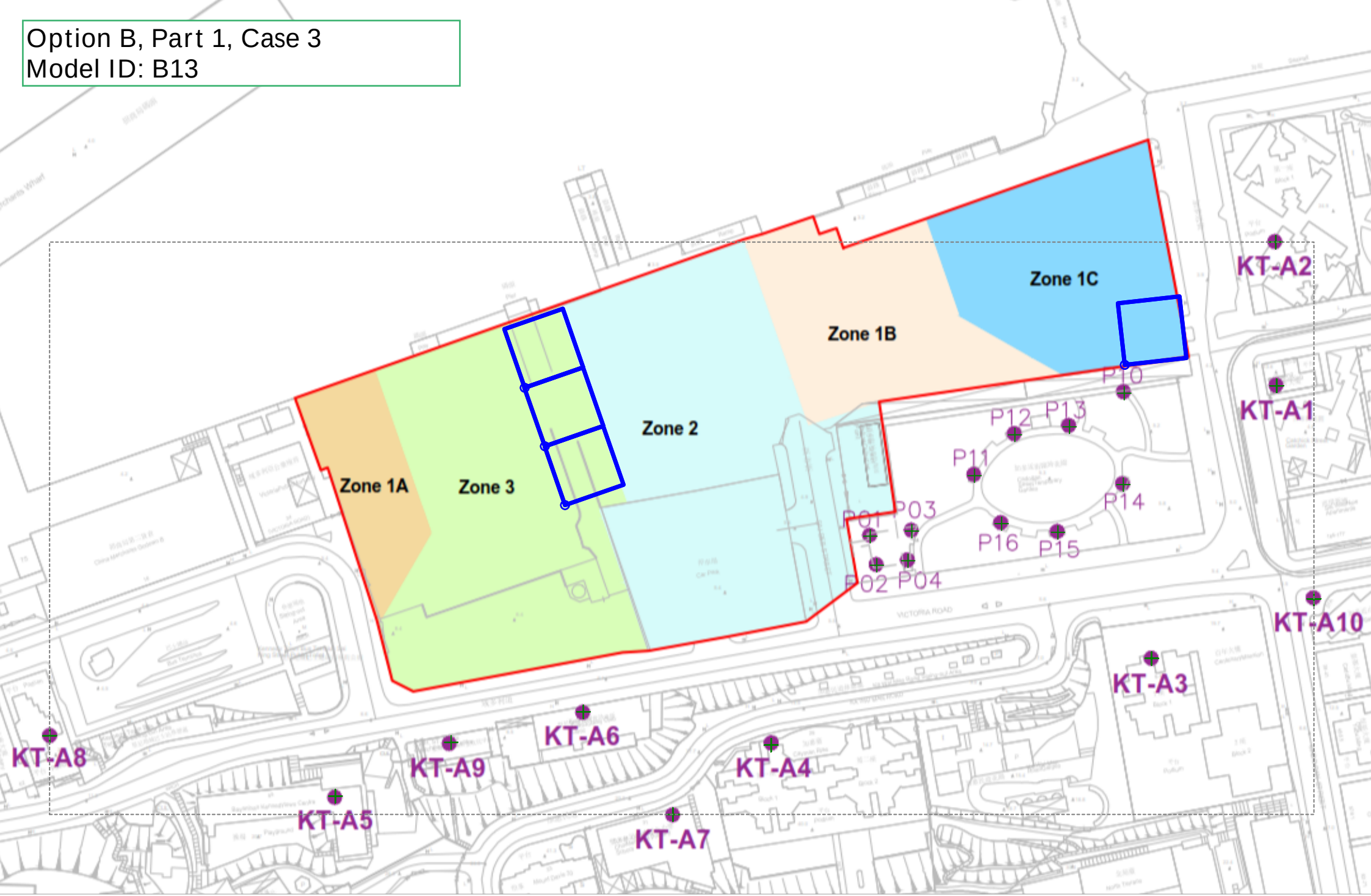
Option B, Part 1, Case 1
Model ID: B11



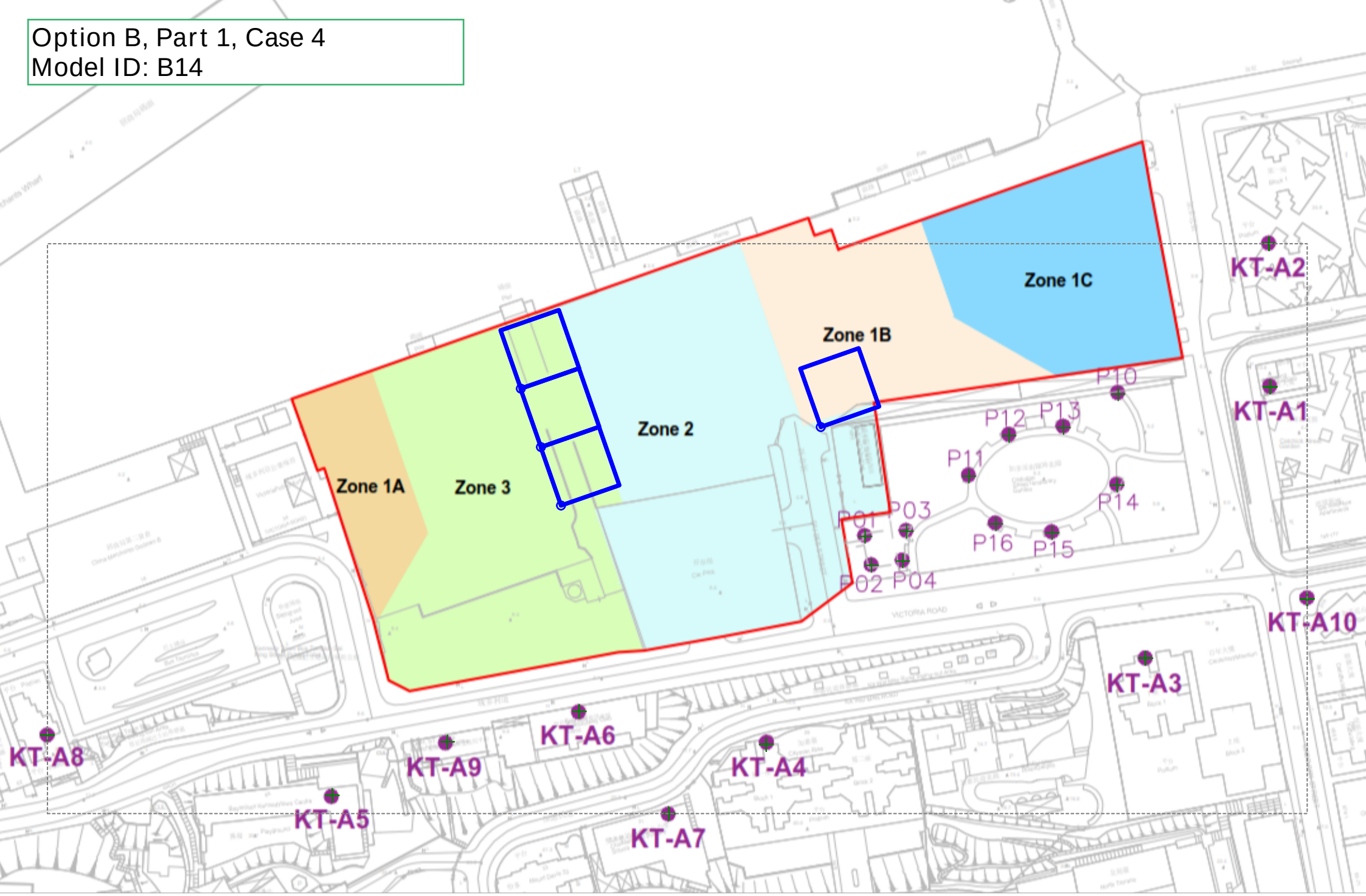
Option B, Part 1, Case 2
Model ID: B12



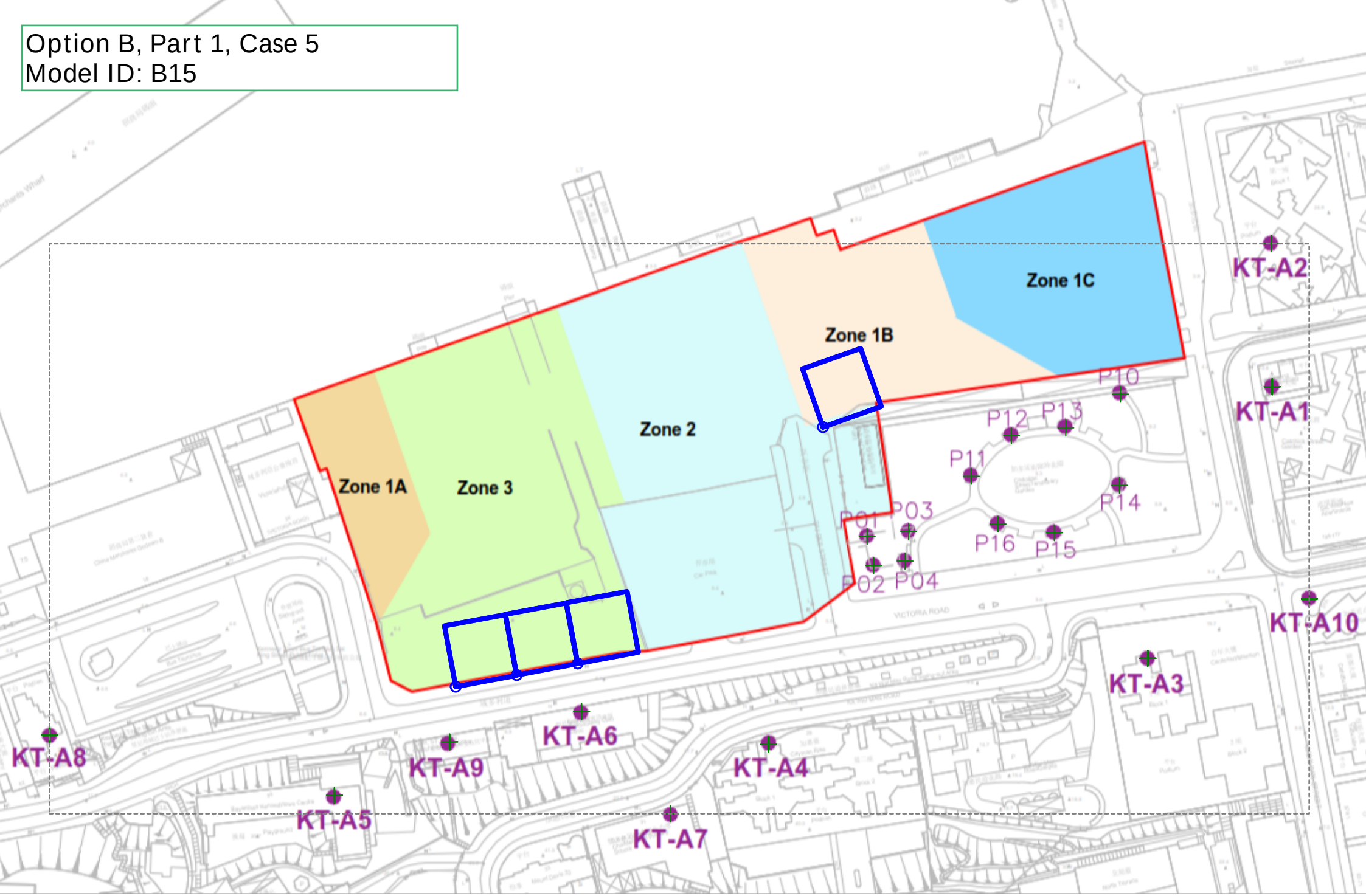
Option B, Part 1, Case 3
Model ID: B13



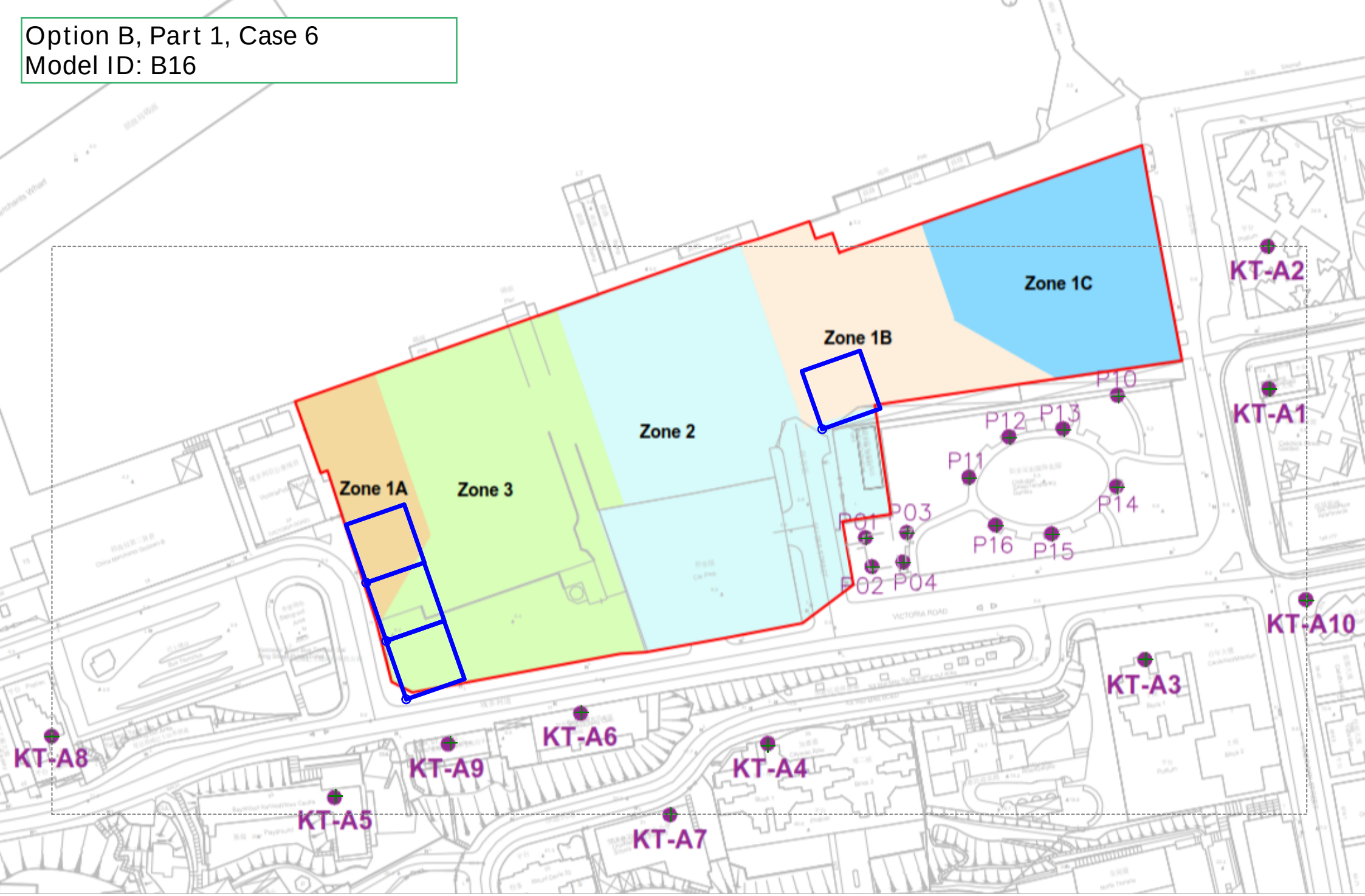
Option B, Part 1, Case 4
Model ID: B14



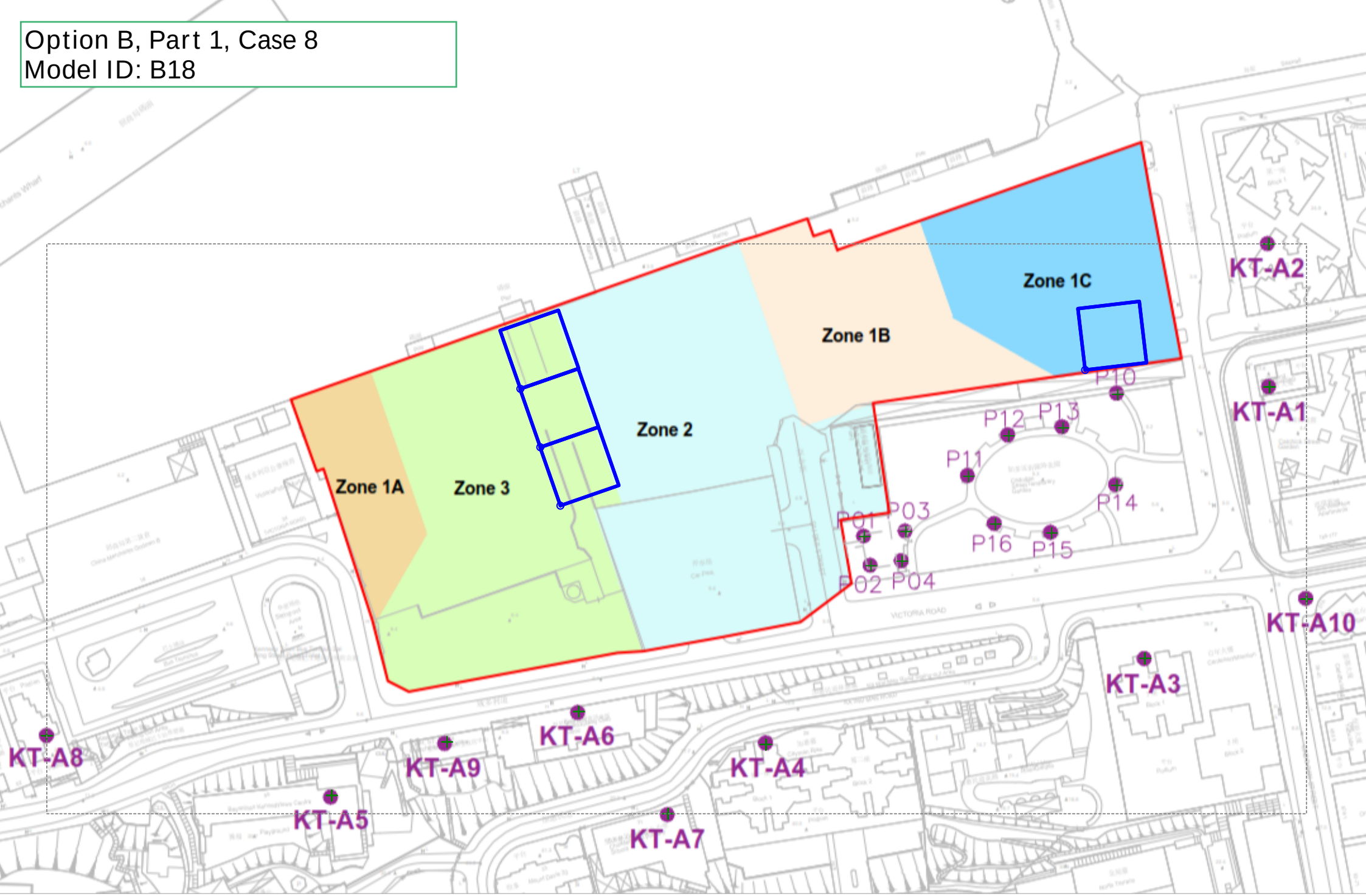
Option B, Part 1, Case 5
Model ID: B15



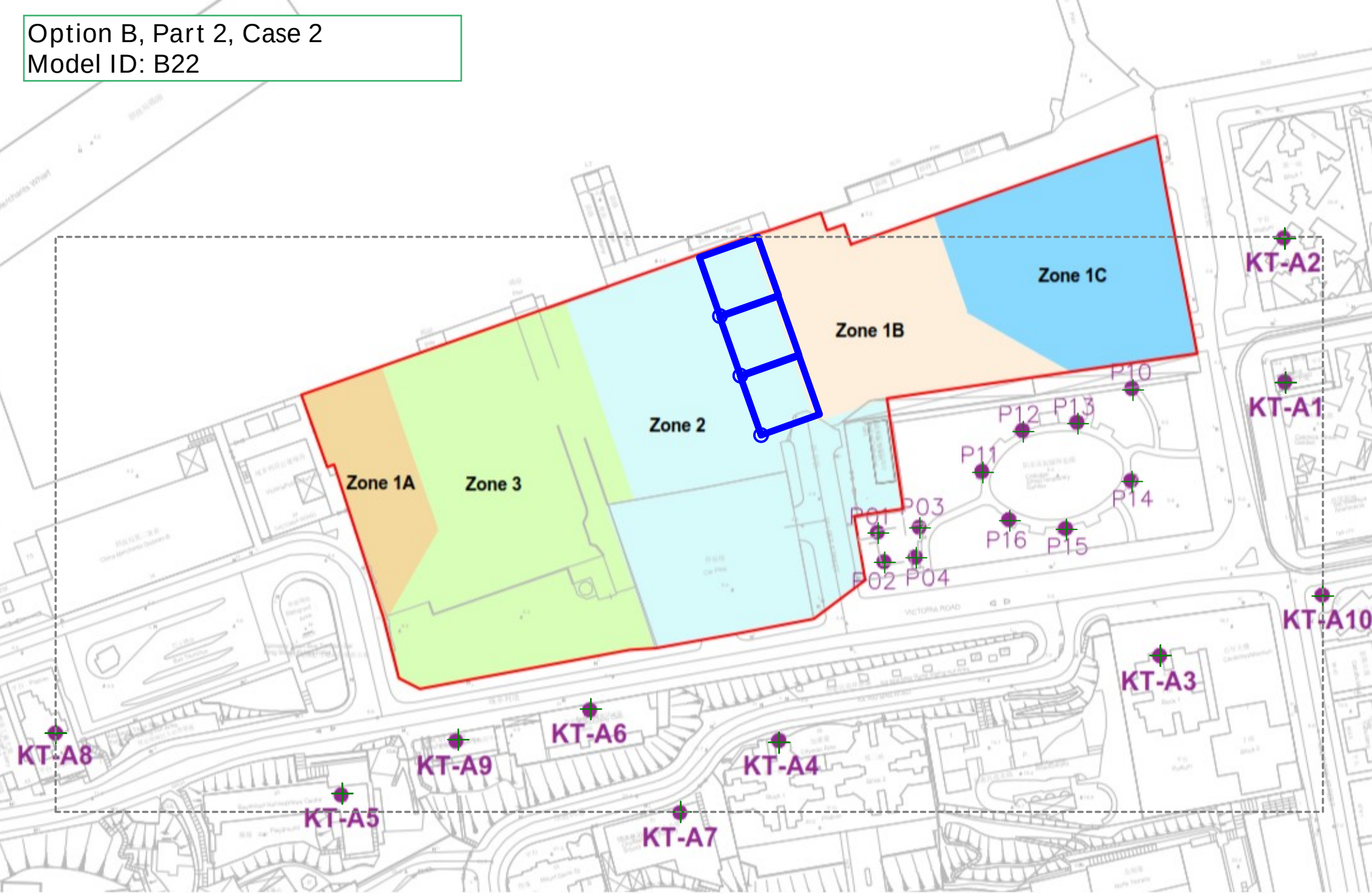
Option B, Part 1, Case 6
Model ID: B16



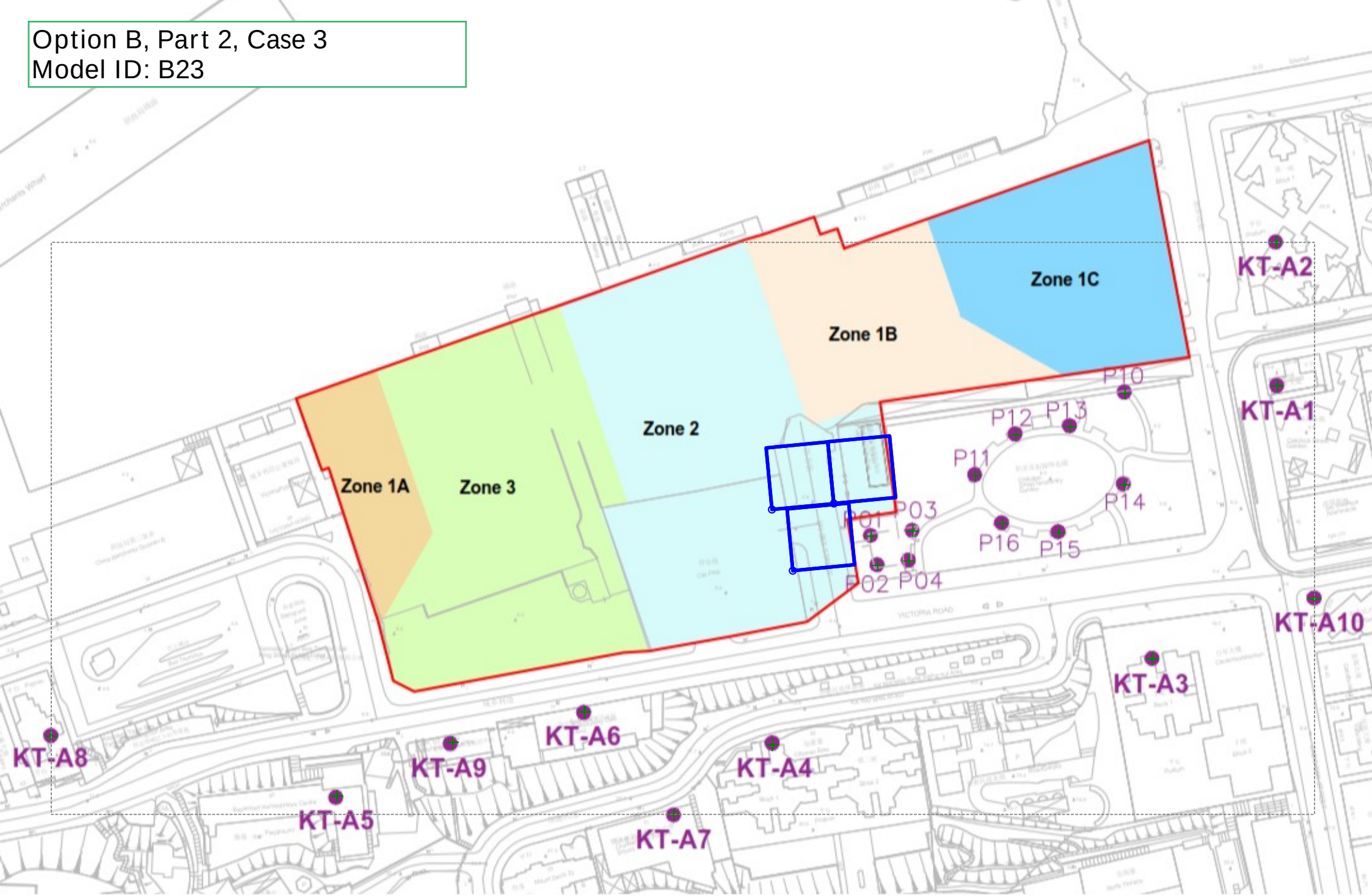
Option B, Part 1, Case 8
Model ID: B18



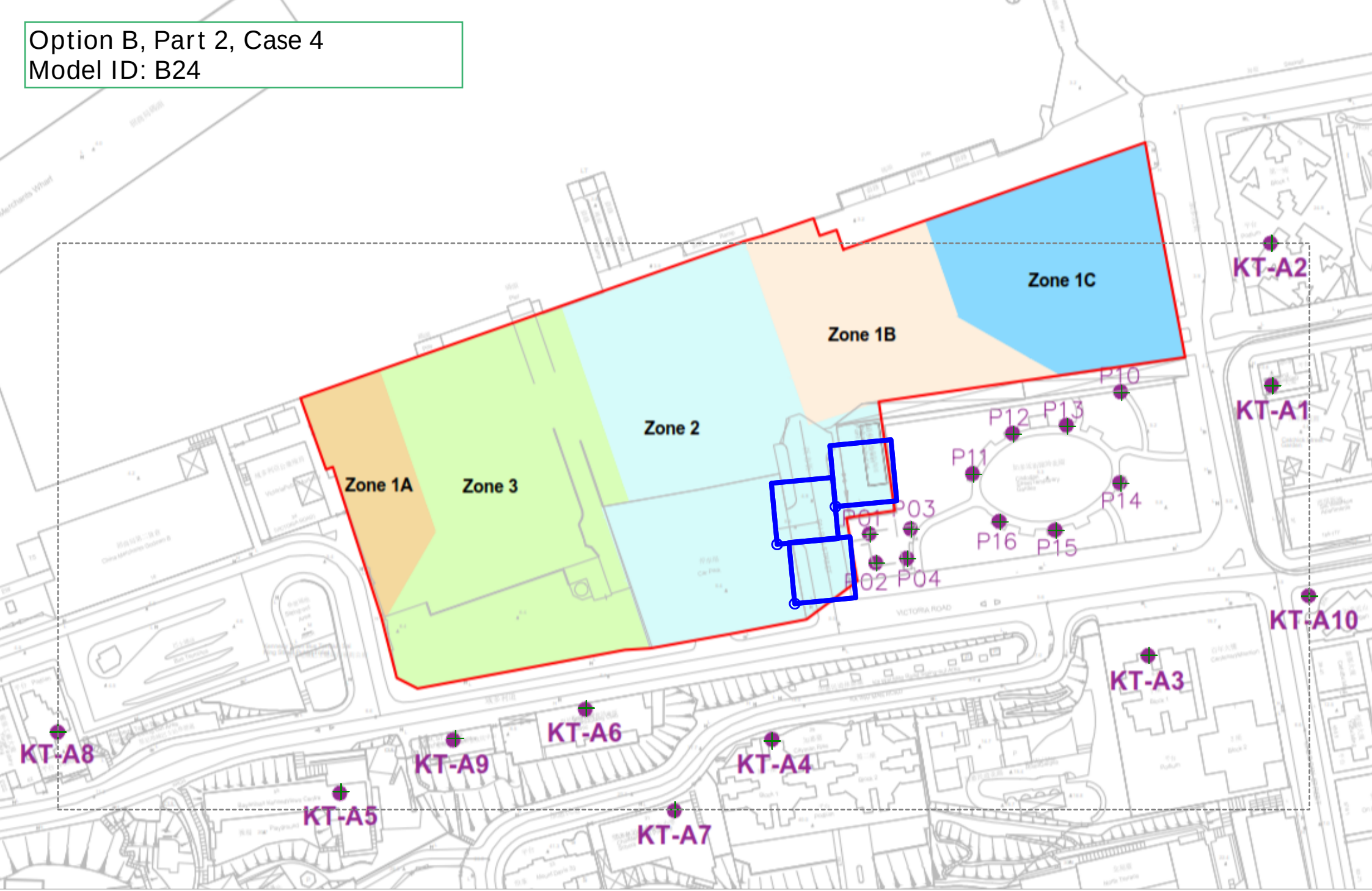
Option B, Part 2, Case 2
Model ID: B22



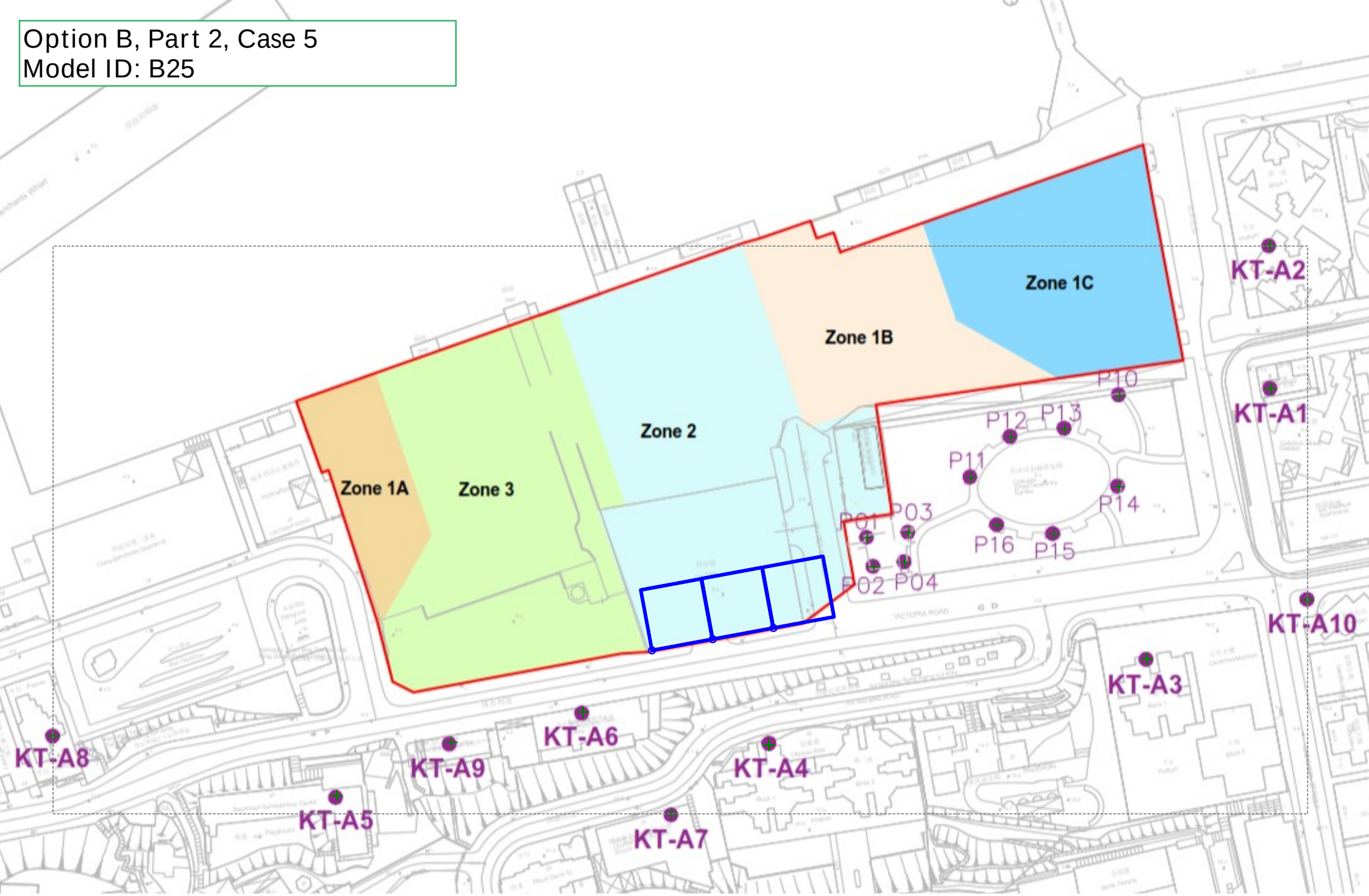
Option B, Part 2, Case 3
Model ID: B23



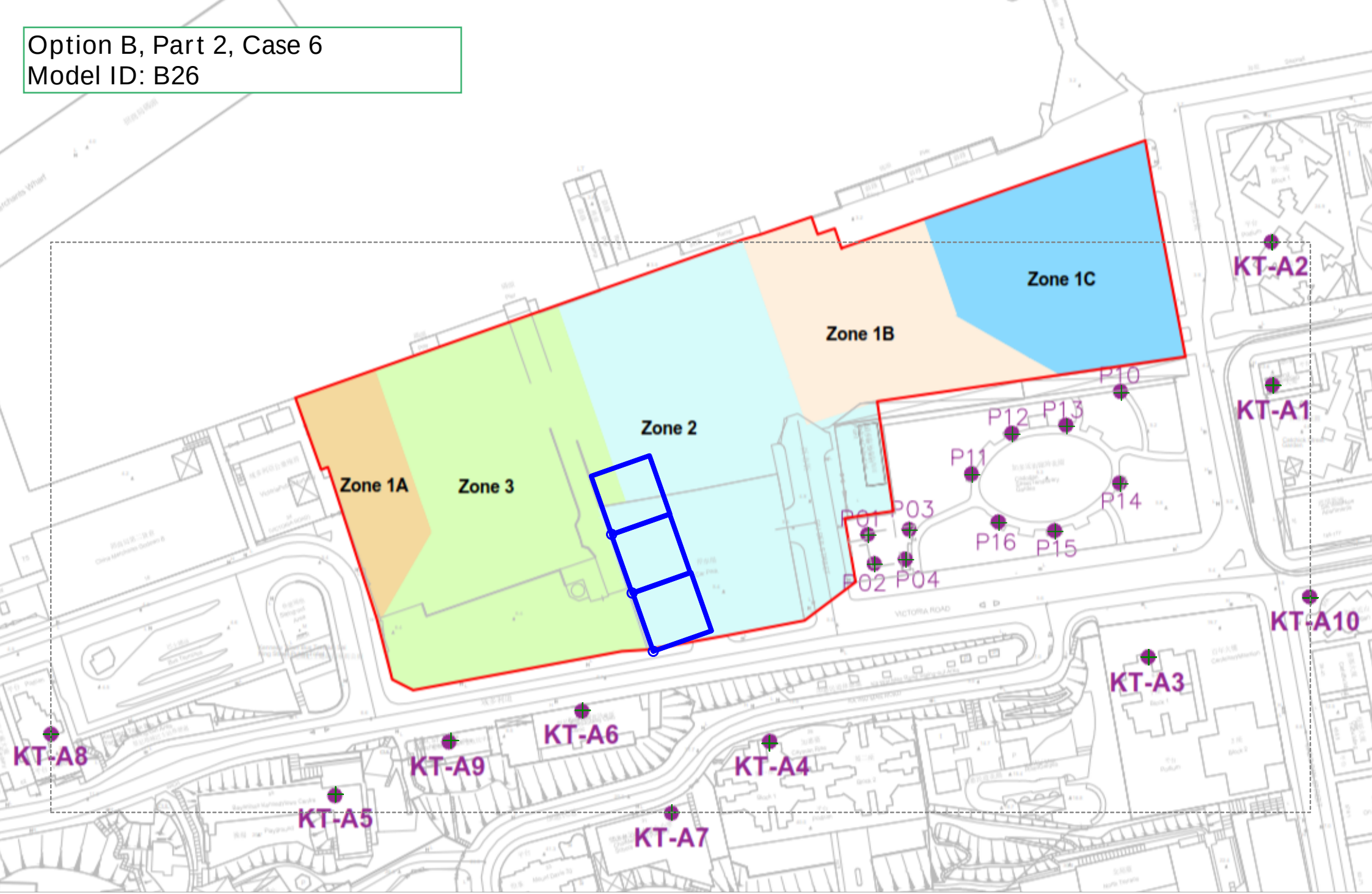
Option B, Part 2, Case 4
Model ID: B24



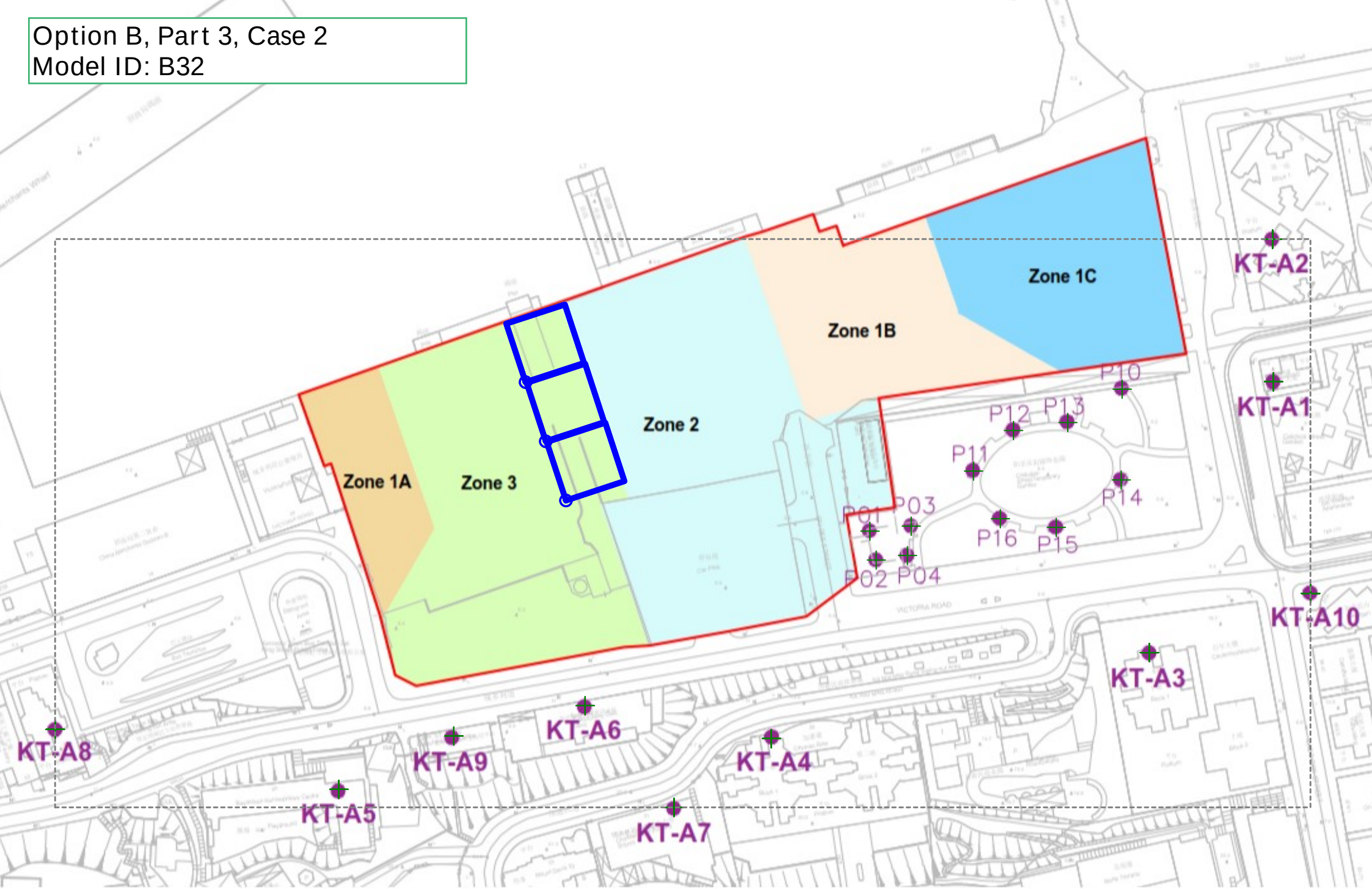
Option B, Part 2, Case 5
Model ID: B25



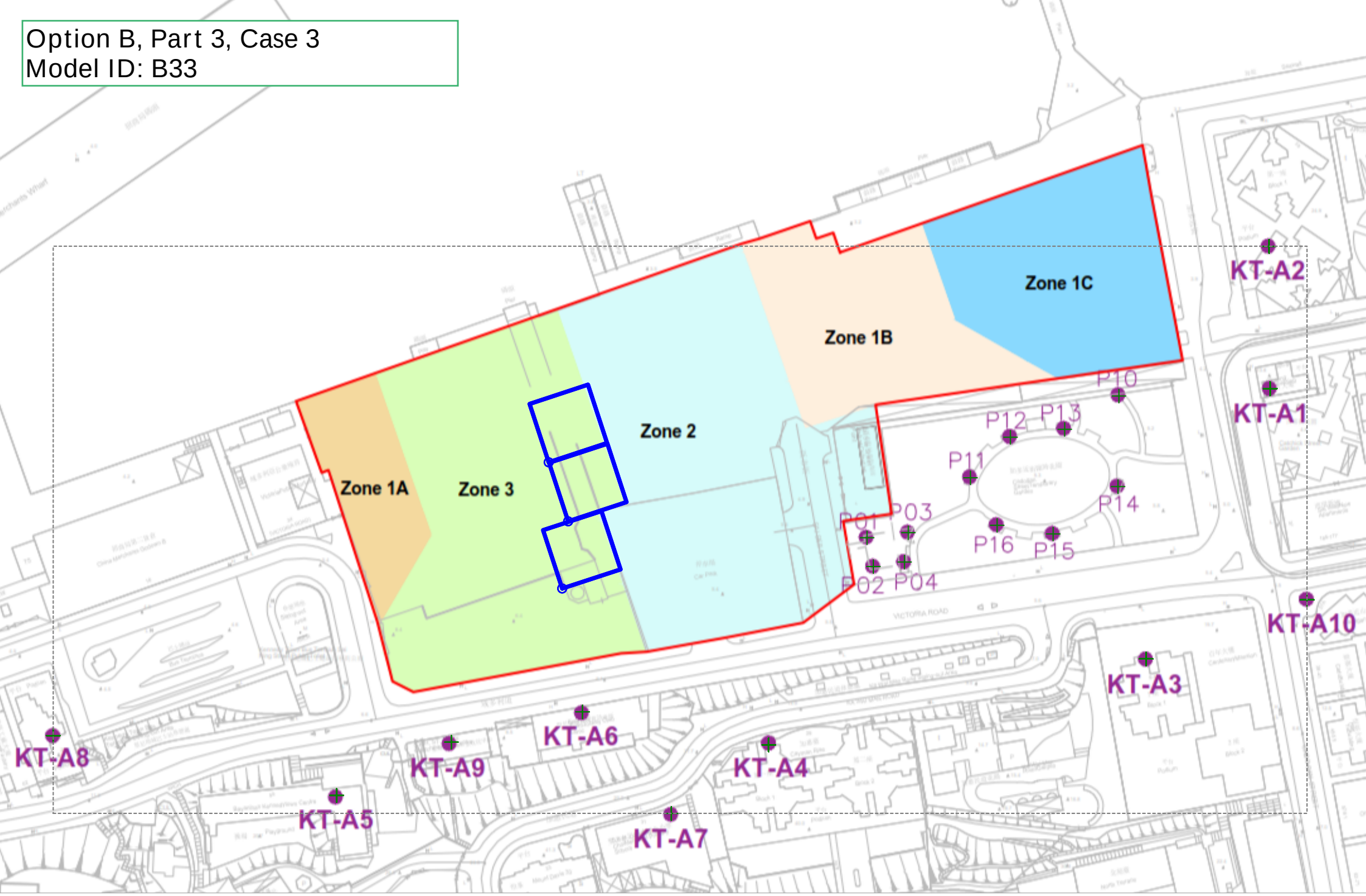
Option B, Part 2, Case 6
Model ID: B26



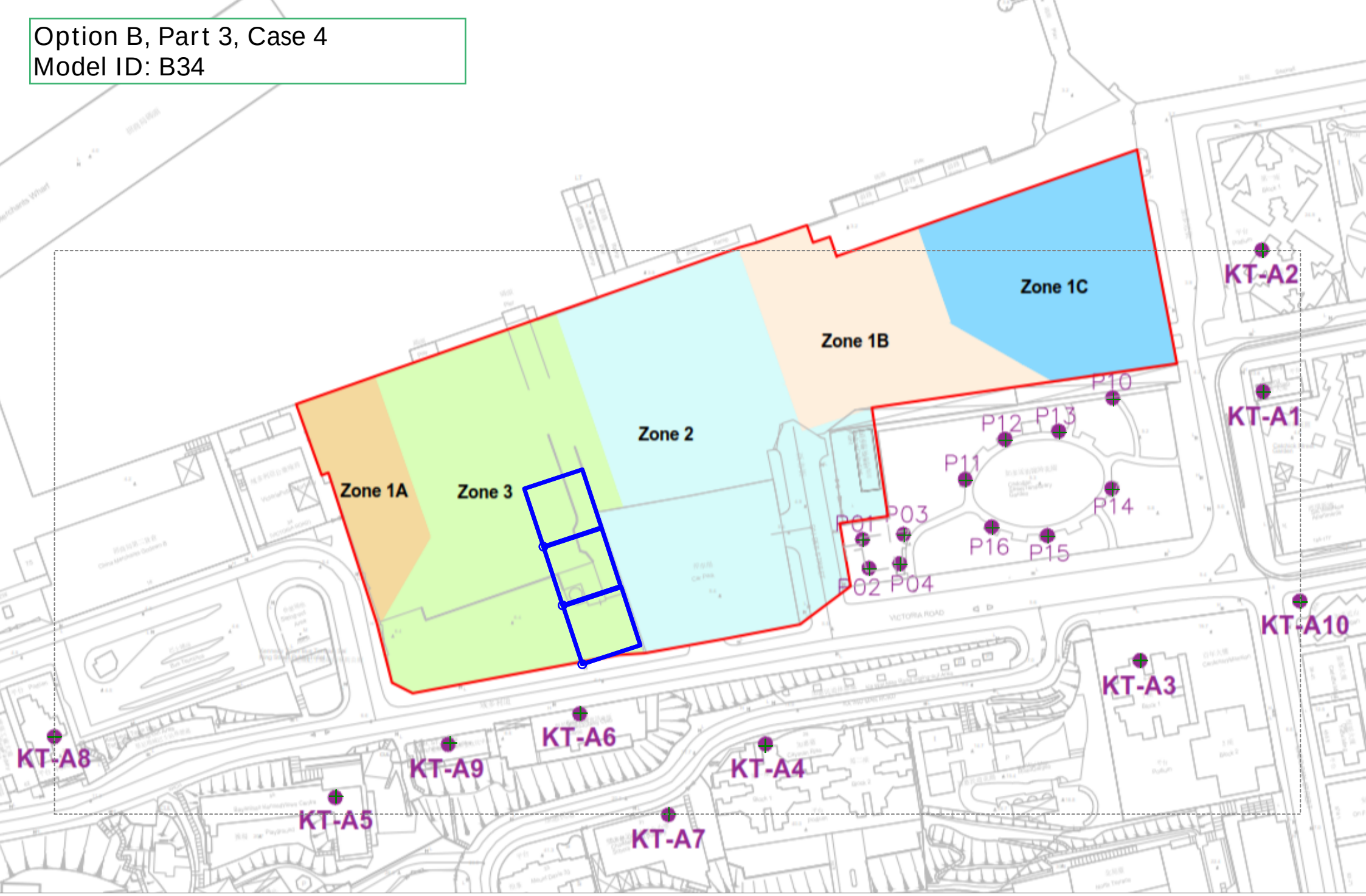
Option B, Part 3, Case 2
Model ID: B32



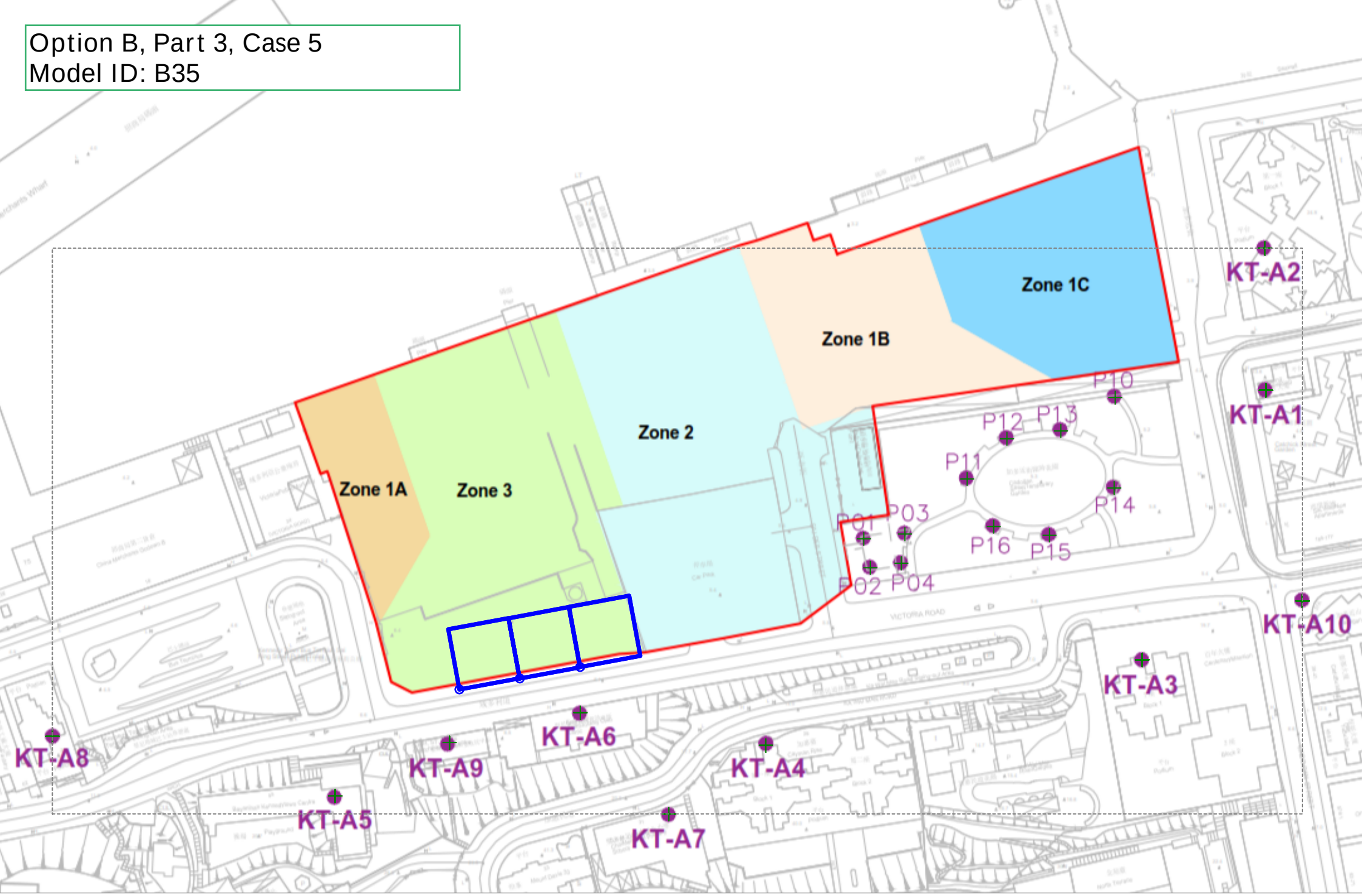
Option B, Part 3, Case 3
Model ID: B33



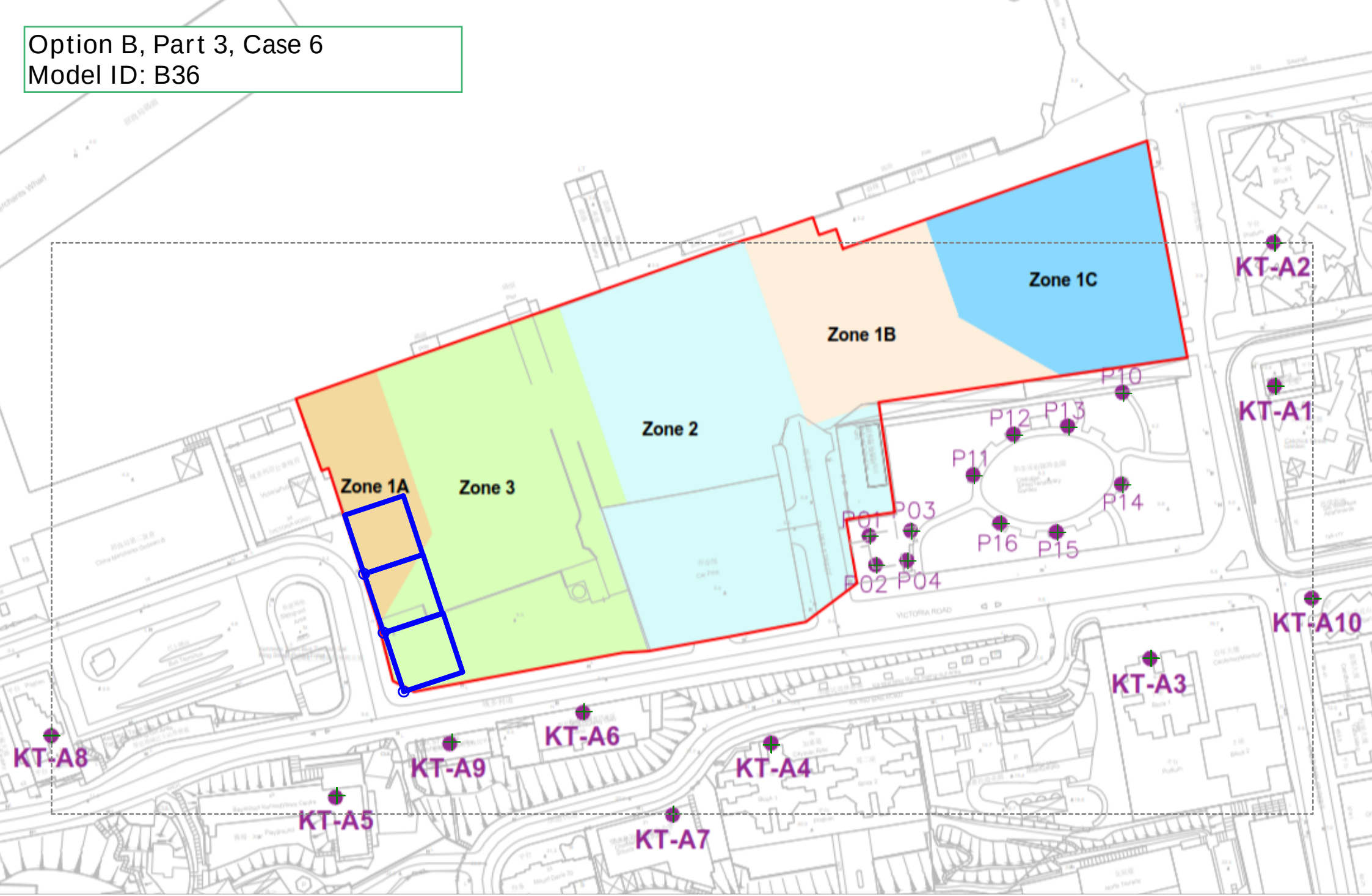
Option B, Part 3, Case 4
Model ID: B34



Option B, Part 3, Case 5
Model ID: B35



Option B, Part 3, Case 6
Model ID: B36



AERMOD Results on Hyd

Part and Case		Reprov. Option B - Part 1								Reprov. Option B - Part 2						Reprov. Option B - Part 3				
Maximum Value in Cases		0.02135	0.02528	0.02520	0.02307	0.02302	0.02307	0.02039		0.01683	0.02644	0.02181	0.02934	0.01952		0.00138	0.00170	0.00264	0.00324	0.00418
ASR_ID	mAG	B11	B12	B13	B14	B15	B16	B18		B22	B23	B24	B25	B26		B32	B33	B34	B35	B36
KT-A1	1.5	0.00919	0.0127	0.01758	0.00563	0.00545	0.00548	0.01721		0.00436	0.006	0.0065	0.00558	0.00381		0.00025	0.00023	0.0003	0.00032	0.0002
KT-A1a	4	0.00812	0.01636	0.0252	0.00526	0.00508	0.00511	0.02039		0.00392	0.00574	0.00645	0.00595	0.0038		0.00024	0.00022	0.00029	0.00034	0.00019
KT-A1b	8	0.00599	0.01558	0.02389	0.00448	0.00431	0.00434	0.01971		0.00344	0.00447	0.0053	0.00547	0.00325		0.00022	0.0002	0.00025	0.00032	0.00017
KT-A1c	12	0.00417	0.00423	0.00459	0.00367	0.00352	0.00355	0.00411		0.00295	0.00325	0.00364	0.00404	0.00231		0.0002	0.00018	0.00018	0.00025	0.00012
KT-A1d	16	0.00289	0.00303	0.00309	0.00294	0.0028	0.00283	0.00296		0.00248	0.00241	0.00272	0.00272	0.0019		0.00018	0.00017	0.00015	0.00018	0.0001
KT-A1e	20	0.00201	0.0022	0.00218	0.00232	0.00219	0.00222	0.00218		0.00206	0.0019	0.00212	0.00231	0.00156		0.00016	0.00015	0.00013	0.00016	0.00009
KT-A1f	30	0.00093	0.00111	0.00091	0.00124	0.00114	0.00117	0.00108		0.00124	0.00101	0.00113	0.00146	0.00098		0.00012	0.00011	0.00008	0.0001	0.00007
KT-A1g	40	0.00064	0.0006	0.00037	0.00062	0.00055	0.00057	0.00055		0.00071	0.00062	0.00058	0.00088	0.00064		0.00009	0.00008	0.00006	0.00008	0.00004
KT-A1h	50	0.00047	0.0003	0.00017	0.00044	0.00043	0.00043	0.00027		0.00047	0.0005	0.0005	0.00051	0.0004		0.00006	0.00006	0.00004	0.00005	0.00004
KT-A1i	60	0.00035	0.00017	0.00008	0.00036	0.00035	0.00035	0.00014		0.0004	0.00043	0.00043	0.00033	0.00029		0.00004	0.00004	0.00002	0.00004	0.00003
KT-A1j	70	0.00027	0.00009	0.00004	0.00028	0.00028	0.00027	0.00008		0.00033	0.00037	0.00036	0.0003	0.00026		0.00003	0.00002	0.00002	0.00002	0.00002
KT-A1k	80	0.00021	0.00005	0.00002	0.00023	0.00022	0.00022	0.00004		0.00028	0.00031	0.00031	0.00026	0.00023		0.00002	0.00002	0.00002	0.00002	0.00002
KT-A1l	90	0.00016	0.00003	0.00002	0.00019	0.00019	0.00019	0.00002		0.00023	0.00025	0.00025	0.00023	0.00021		0.00002	0.00002	0.00002	0.00002	0.00001
KT-A1m	100	0.00012	0.00002	0.00002	0.00016	0.00016	0.00016	0.00002		0.0002	0.00021	0.00021	0.0002	0.00019		0.00002	0.00002	0.00002	0.00002	0.00001
KT-A2	1.5	0.00938	0.02411	0.02121	0.00532	0.00535	0.0053	0.01998		0.00424	0.0067	0.00643	0.00468	0.00425		0.00027	0.00033	0.00035	0.00032	0.00025
KT-A2a	4	0.00905	0.02528	0.02097	0.00546	0.00554	0.00546	0.01838		0.00397	0.00725	0.00693	0.00505	0.00466		0.00026	0.00035	0.00038	0.00036	0.00027
KT-A2b	8	0.00758	0.01703	0.01946	0.00468	0.0048	0.00472	0.01657		0.0032	0.00675	0.00642	0.00478	0.00455		0.00022	0.00032	0.00037	0.00036	0.00027
KT-A2c	12	0.00466	0.0087	0.00634	0.00326	0.0033	0.00324	0.00661		0.00276	0.00498	0.00472	0.0037	0.00366		0.00016	0.00025	0.00031	0.00031	0.00023
KT-A2d	16	0.00315	0.00303	0.0026	0.00244	0.00241	0.00243	0.00358		0.00234	0.00293	0.00261	0.00229	0.00238		0.00013	0.00017	0.00021	0.00022	0.00017
KT-A2e	20	0.0022	0.00191	0.00191	0.00188	0.0019	0.00188	0.00184		0.00196	0.00239	0.00212	0.00146	0.00174		0.00011	0.00015	0.00015	0.00013	0.00011
KT-A2f	30	0.00084	0.00091	0.00095	0.00099	0.00102	0.00101	0.00105		0.00121	0.00138	0.00123	0.00099	0.00126		0.00008	0.0001	0.00011	0.0001	0.00008
KT-A2g	40	0.00065	0.00043	0.00045	0.00049	0.00051	0.00051	0.0006		0.00071	0.00075	0.00067	0.00065	0.00088		0.00006	0.00007	0.00008	0.00008	0.00007
KT-A2h	50	0.00049	0.00019	0.0002	0.00039	0.00038	0.00038	0.00033		0.00045	0.00041	0.00041	0.00041	0.00059		0.00004	0.00005	0.00006	0.00006	0.00005
KT-A2i	60	0.00037	0.00008	0.00009	0.00033	0.00033	0.00032	0.00019		0.00038	0.00035	0.00033	0.00029	0.00038		0.00003	0.00003	0.00004	0.00004	0.00004
KT-A2j	70	0.00029	0.00004	0.00004	0.00028	0.00028	0.00028	0.00011		0.00032	0.00031	0.00029	0.00025	0.00023		0.00002	0.00002	0.00003	0.00003	0.00003
KT-A2k	80	0.00022	0.00002	0.00002	0.00024	0.00024	0.00023	0.00006		0.00028	0.00027	0.00026	0.00021	0.0002		0.00002	0.00002	0.00002	0.00002	0.00002
KT-A2l	90	0.00018	0.00002	0.00002	0.0002	0.0002	0.00019	0.00003		0.00024	0.00024	0.00023	0.00019	0.00018		0.00002	0.00002	0.00002	0.00001	0.00002
KT-A2m	100	0.00014	0.00002	0.00002	0.00016	0.00016	0.00016	0.00002		0.0002	0.00021	0.0002	0.00017	0.00017		0.00002	0.00002	0.00002	0.00001	0.00001
KT-A2n	110	0.00011	0.00001	0.00001	0.00014	0.00013	0.00013	0.00001		0.00017	0.00018	0.00018	0.00015	0.00015		0.00001	0.00001	0.00001	0.00001	0.00001
KT-A2o	120	0.00008	0.00001	0.00001	0.00012	0.00011	0.00011	0.00001		0.00014	0.00015	0.00015	0.00014	0.00014		0.00001	0.00001	0.00001	0.00001	0.00001
KT-A2p	130	0.00006	0.00001	0.00001	0.0001	0.0001	0.0001	0.00001		0.00013	0.00013	0.00013	0.00012	0.00012		0.00001	0.00001	0.00001	0.00001	0.00001
KT-A2q	140	0.00005	0.00001	0.00001	0.00009	0.00008	0.00008	0.00001		0.00011	0.00011	0.00011	0.00011	0.00011		0.00001	0.00001	0.00001	0.00001	0.00001
KT-A2r	150	0.00004	0.00001	0.00001	0.00007	0.00007	0.00007	0.00001		0.0001	0.00009	0.00009	0.0001	0.0001		0.00001	0.00001	0.00001	0.00001	0.00001
KT-A2s	160	0.00003	0.00001	0.00001	0.00006	0.00006	0.00006	0.00001		0.00008	0.00008	0.00008	0.00008	0.00009		0.00001	0.00001	0.00001	0.00001	0.00001
KT-A2t	170	0.00002	0.00001	0.00001	0.00005	0.00005	0.00005	0.00001		0.00007	0.00007	0.00007	0.00008	0.00008		0.00001	0.00001	0.00001	0.00001	0.00001
KT-A2u	180	0.00002	0.00001	0.00001	0.00004	0.00004	0.00004	0.00001		0.00007	0.00006	0.00006	0.00007	0.00007		0.00001	0.00001	0.00001	0.00001	0.00001
KT-A3	1.5	0.00619	0.0068	0.0081	0.00642	0.00635	0.00636	0.01076		0.00701	0.01059	0.01121	0.00756	0.00642		0.00054	0.00057	0.00046	0.00034	0.00023
KT-A3a	4	0.00741	0.00614	0.00712	0.00632	0.00627	0.00628	0.01012		0.00629	0.00994	0.01057	0.00675	0.00601		0.00054	0.00056	0.00042	0.00033	0.0002
KT-A3b	8	0.00587	0.0045	0.00508	0.00515	0.00513	0.00514	0.00784		0.00484	0.00774	0.00829	0.00486	0.00458		0.00045	0.00046	0.00032	0.00029	0.00016
KT-A3c	12	0.00285	0.00249	0.00298	0.00249	0.00236	0.00237	0.00401		0.00351	0.00353	0.00355	0.00333	0.00257		0.00029	0.00028	0.00018	0.00026	0.00015
KT-A3d	16	0.00226	0.00194	0.00228	0.00166	0.00156	0.00156	0.00211		0.0025	0.00225	0.00178	0.00256	0.00158		0.00013	0.00012	0.00015	0.00023	0.00013
KT-A3e	20	0.00179	0.00159	0.00179	0.00109	0.00106	0.00106	0.00161		0.00175	0.00159	0.00149	0.00196	0.00128		0.0001	0.00008	0.00013	0.0002	0.00012
KT-A3f	30	0.001	0.001	0.00107	0.00087	0.00083	0.00084	0.00104		0.00086	0.0011	0.00116	0.00096	0.00073		0.00006	0.00006	0.00008	0.00013	0.00009
KT-A3g	40	0.00066	0.00066	0.00067	0.00069	0.00066	0.00066	0.00074		0.00071	0.00087	0.0009	0.00071	0.00055		0.00004	0.00005	0.00005	0.00009	0.00007
KT-A3h	50	0.00046	0.00046	0.00049	0.00054	0.00052	0.00052	0.00051		0.0006	0.00069	0.0007	0.00058	0.00048		0.00004	0.00004	0.00004	0.00005	0.00005
KT-A3i	60	0.00035	0.00036	0.00035	0.00042	0.0004	0.0004	0.00033		0.0005	0.00053	0.00053	0.00046	0.00042		0.00003	0.00003	0.00003	0.00003	0.00003
KT-A3j	70	0.00026	0.00028	0.00024	0.00032	0.0003	0.0003	0.00024		0.00041	0.0004	0.00039	0.00036	0.00036		0.00003	0.00003	0.00003	0.00003	0.00002
KT-A3k	80	0.0002	0.00021	0.00018	0.00025	0.00023	0.00023	0.00018		0.00033	0.0003	0.0003	0.00029	0.0003		0.00003	0.00003	0.00003	0.00003	0.00002
KT-A3l	90	0.00016	0.00016	0.00014	0.00019	0.00018	0.00018	0.00015		0.00026	0.00023	0.00022	0.00024	0.00025		0.00002	0.00002	0.00002	0.00002	0.00002
KT-A3m	100	0.00013	0.00013	0.00011	0.00015	0.00014	0.00014	0.00012		0.00021	0.00017	0.00016	0.0002	0.00021		0.00002	0.00002	0.00002	0.00002	0.00002
KT-A4	1.5	0.00348	0.00118	0.0017	0.00508	0.00507	0.00508	0.00165		0.00713	0.01116	0.01323	0.00913	0.01117		0.00046	0.00053	0.00086	0.00093	0.00074
KT-A4a	4	0.00295	0.00099	0.00151	0.00422	0.00421	0.00422	0.00142		0.00586	0.00925	0.01181	0.01069	0.01028		0.00052	0.00053	0.00076	0.00081	0.00061
KT-A4b	8	0.00207	0.00064	0.00107	0.00276	0.00276	0.00276	0.00095		0.00379	0.00577	0.00759	0.008	0.00642		0.00039	0.00039	0.00056	0.0006	0.00041
KT-A4c	12	0.00134	0.00058	0.00065	0.00181	0.0018	0.00181	0.00071		0.00263	0.00394	0.00434	0.00366	0.00433		0.00026	0.0003	0.00029	0.00025	0.00017
KT-A4d	16	0.00095	0.00055	0.0006	0.0016	0.0016	0.0016	0.00065		0.00219	0.00316	0.00333	0.00251	0.00293		0.00022	0.00024	0.00024	0.00021	0.00012
KT-A4e	20	0.00083	0.0005	0.00054	0.00142	0.00141	0.00142	0.00059		0.0018	0.00253	0.00256	0.00171	0.00195		0.00018	0.00018	0.0002	0.00018	0.0001
KT-A4f	30	0.00063	0.00043	0.00043	0.00103	0.00102	0.00103	0.00047		0.00117	0.00141	0.00129	0.00081	0.00116		0.00011	0.00011	0.00012	0.00012	0.00008
KT-A4g	40	0.00048	0.00034	0.00033	0.00072	0.00071	0.00072	0.00035		0.00076	0.0008	0.00069	0.00042	0.00069		0.00007	0.00008	0.00008	0.00008	0.00007
KT-A4h	50	0.00035	0.00026	0.00023	0.00047	0.00047	0.00047	0.00024		0.00058	0.0005	0.00042	0.00021	0.0004		0.00005	0.00006	0.00005	0.00005	0.00006
KT-A4i	60	0.00025	0.00018	0.00018	0.00034	0.00034	0.00034	0.00019		0.00045	0.00033	0.00028	0.00009	0.00026		0.00004	0.00004	0.00003	0.00003	0.00005
KT-A4j	70	0.00022	0.00015	0.00015	0.00025	0.00024	0.00024	0.00017		0.00034	0.00023	0.00019	0.00004	0.00017		0.00003	0.00003	0.00002	0.00002	0.00003

AERMOD Results on Hyd

Part and Case		Reprov. Option B - Part 1								Reprov. Option B - Part 2						Reprov. Option B - Part 3				
Maximum Value in Cases		0.02135	0.02528	0.02520	0.02307	0.02302	0.02307	0.02039		0.01683	0.02644	0.02181	0.02934	0.01952		0.00138	0.00170	0.00264	0.00324	0.00418	
ASR_ID	mAG	B11	B12	B13	B14	B15	B16	B18		B22	B23	B24	B25	B26		B32	B33	B34	B35	B36	
KT-A4k	80	0.00019	0.00013	0.00014	0.00019	0.00019	0.00019	0.00015		0.00025	0.00017	0.00013	0.00001	0.00011		0.00002	0.00002	0.00001	0.00001	0.00003	
KT-A4l	90	0.00016	0.00012	0.00013	0.00015	0.00014	0.00014	0.00014		0.0002	0.00012	0.00009	0	0.00007		0.00002	0.00002	0.00001	0.00001	0.00002	
KT-A4m	100	0.00014	0.00011	0.00011	0.00012	0.00011	0.00011	0.00012		0.00017	0.00009	0.00006	0	0.00005		0.00002	0.00001	0.00001	0.00001	0.00002	
KT-A4n	110	0.00011	0.0001	0.0001	0.0001	0.00009	0.00009	0.00011		0.00014	0.00006	0.00004	0	0.00003		0.00001	0.00001	0.00001	0	0.00001	
KT-A4o	120	0.00009	0.00009	0.00009	0.00008	0.00008	0.00008	0.00009		0.00012	0.00004	0.00003	0	0.00002		0.00001	0.00001	0	0	0.00001	
KT-A5	1.5	0.0013	0.00101	0.00105	0.00159	0.00207	0.00208	0.00109		0.00194	0.00234	0.00241	0.00348	0.00396		0.00042	0.00035	0.00046	0.00073	0.00162	
KT-A5a	4	0.00147	0.00114	0.00118	0.00179	0.00234	0.00212	0.00123		0.00212	0.00275	0.00282	0.004	0.00447		0.00046	0.00036	0.0005	0.00079	0.0017	
KT-A5b	8	0.00155	0.0012	0.00125	0.00182	0.00232	0.00195	0.00131		0.00202	0.00295	0.00301	0.00404	0.0043		0.00029	0.00029	0.00044	0.00068	0.00108	
KT-A5c	12	0.00135	0.00109	0.00114	0.00149	0.00178	0.00148	0.00118		0.00152	0.00248	0.00251	0.00305	0.00306		0.00017	0.00018	0.00028	0.00039	0.00047	
KT-A5d	16	0.00098	0.00085	0.00088	0.00097	0.00105	0.00095	0.00091		0.00088	0.0016	0.00161	0.00166	0.0015		0.00013	0.00014	0.00015	0.00025	0.00034	
KT-A5e	20	0.00056	0.00056	0.00057	0.00049	0.0006	0.00051	0.00058		0.00072	0.00087	0.00094	0.00145	0.00129		0.00011	0.00013	0.00013	0.0002	0.00026	
KT-A6	1.5	0.0018	0.00138	0.00138	0.00243	0.00291	0.00236	0.00138		0.00944	0.00522	0.00569	0.0128	0.01545		0.00138	0.0017	0.00203	0.0016	0.00157	
KT-A6a	4	0.00201	0.00132	0.00146	0.00252	0.00316	0.00251	0.00155		0.00814	0.00584	0.00644	0.01333	0.01952		0.00127	0.00169	0.00264	0.00324	0.00157	
KT-A6b	8	0.00204	0.00144	0.00164	0.00213	0.00229	0.00213	0.00172		0.00572	0.00534	0.00598	0.01101	0.01219		0.00093	0.00118	0.00142	0.001	0.00103	
KT-A6c	12	0.0016	0.00128	0.00147	0.00133	0.00134	0.00133	0.00152		0.00377	0.00348	0.00392	0.00485	0.00488		0.00041	0.00049	0.00058	0.0004	0.00045	
KT-A7	1.5	0.00118	0.00078	0.00115	0.0046	0.00459	0.0046	0.00108		0.00324	0.00657	0.00558	0.00654	0.00767		0.00075	0.00083	0.00085	0.00068	0.00065	
KT-A7a	4	0.00139	0.00067	0.00098	0.00401	0.00401	0.00401	0.00091		0.0028	0.00547	0.00462	0.00624	0.00838		0.00067	0.00078	0.00094	0.00059	0.00054	
KT-A7b	8	0.00114	0.00051	0.00069	0.00293	0.00292	0.00293	0.00062		0.00201	0.00366	0.00309	0.00461	0.00681		0.00051	0.00061	0.00076	0.00043	0.00037	
KT-A7c	12	0.00064	0.00044	0.00044	0.00197	0.00197	0.00197	0.00049		0.00148	0.00229	0.00194	0.00334	0.00315		0.00028	0.0003	0.00028	0.00029	0.00023	
KT-A7d	16	0.00061	0.00041	0.00041	0.00126	0.00125	0.00126	0.00046		0.00136	0.00172	0.00168	0.0026	0.00237		0.00014	0.00017	0.00022	0.0002	0.00015	
KT-A7e	20	0.00057	0.00038	0.00037	0.0009	0.00088	0.00087	0.00041		0.00127	0.00151	0.00144	0.002	0.00186		0.00012	0.00015	0.00019	0.00016	0.00014	
KT-A8	1.5	0.00077	0.00063	0.00065	0.00091	0.00097	0.00108	0.00067		0.00116	0.00119	0.0012	0.00149	0.00172		0.00016	0.00018	0.00019	0.00023	0.00034	
KT-A8a	4	0.00094	0.00077	0.00079	0.00111	0.00121	0.00133	0.00082		0.00146	0.0015	0.00152	0.00188	0.00216		0.0002	0.00021	0.00024	0.00029	0.00041	
KT-A8b	8	0.00112	0.00094	0.00093	0.00134	0.00141	0.00152	0.00096		0.00178	0.00183	0.00186	0.00228	0.00256		0.00024	0.00025	0.00027	0.00033	0.00043	
KT-A8c	12	0.00112	0.00096	0.00092	0.00132	0.00133	0.00142	0.00094		0.00179	0.00182	0.00185	0.0022	0.00239		0.00023	0.00023	0.00025	0.00029	0.00033	
KT-A8d	16	0.00092	0.00083	0.00079	0.00107	0.00102	0.00108	0.0008		0.00147	0.00149	0.00152	0.00171	0.00175		0.00016	0.00016	0.00017	0.00019	0.00018	
KT-A8e	20	0.00063	0.0006	0.00058	0.0007	0.00065	0.00067	0.00058		0.00096	0.00098	0.001	0.00103	0.00098		0.00009	0.00009	0.00009	0.00009	0.00015	
KT-A8f	30	0.00031	0.00026	0.00025	0.00038	0.00038	0.00043	0.00026		0.00047	0.00043	0.0004	0.00045	0.00063		0.00006	0.00007	0.00007	0.00007	0.00011	
KT-A8g	40	0.00029	0.00024	0.00023	0.00035	0.00035	0.00037	0.00024		0.00044	0.0004	0.00037	0.00038	0.00054		0.00005	0.00006	0.00006	0.00005	0.00007	
KT-A8h	50	0.00027	0.00022	0.00021	0.00032	0.00031	0.00031	0.00022		0.00039	0.00035	0.00032	0.00031	0.00043		0.00004	0.00005	0.00004	0.00004	0.00004	
KT-A8i	60	0.00024	0.0002	0.00019	0.00027	0.00026	0.00026	0.0002		0.00033	0.0003	0.00027	0.00025	0.00033		0.00003	0.00004	0.00003	0.00003	0.00003	
KT-A8j	70	0.0002	0.00018	0.00017	0.00022	0.00021	0.00021	0.00017		0.00027	0.00024	0.00022	0.00021	0.00023		0.00002	0.00002	0.00002	0.00003	0.00003	
KT-A8k	80	0.00017	0.00015	0.00014	0.00018	0.00017	0.00016	0.00015		0.00021	0.00019	0.00017	0.00019	0.00017		0.00002	0.00002	0.00002	0.00002	0.00002	
KT-A8l	90	0.00013	0.00013	0.00012	0.00013	0.00013	0.00013	0.00012		0.00016	0.00014	0.00013	0.00016	0.00015		0.00002	0.00002	0.00001	0.00002	0.00001	
KT-A8m	100	0.0001	0.00011	0.0001	0.0001	0.00009	0.00009	0.0001		0.00013	0.00011	0.00011	0.00014	0.00013		0.00001	0.00001	0.00001	0.00002	0.00001	
KT-A9	1.5	0.00164	0.00126	0.00127	0.00208	0.0033	0.00303	0.00133		0.00261	0.00339	0.00353	0.00586	0.00674		0.00126	0.0011	0.00082	0.00156	0.00295	
KT-A9a	4	0.00179	0.00131	0.00138	0.00224	0.00341	0.00454	0.00144		0.00302	0.00391	0.00407	0.00656	0.00715		0.00106	0.00093	0.00079	0.00247	0.00418	
KT-A9b	8	0.0018	0.00133	0.00142	0.00212	0.00292	0.00221	0.00148		0.00214	0.00398	0.00412	0.00606	0.00595		0.00072	0.00062	0.00057	0.00094	0.00217	
KT-A10	1.5	0.00783	0.00634	0.0068	0.00584	0.00552	0.00555	0.00666		0.00593	0.00704	0.00622	0.00433	0.00269		0.00038	0.00031	0.00021	0.00023	0.00015	
KT-A10a	4	0.00683	0.00633	0.009	0.00571	0.00537	0.0054	0.00847		0.00584	0.00664	0.00569	0.0041	0.00255		0.00038	0.00029	0.0002	0.00022	0.00014	
KT-A10b	8	0.00487	0.00509	0.0068	0.00462	0.00432	0.00434	0.00654		0.00477	0.00511	0.00422	0.00367	0.00232		0.00032	0.00022	0.00019	0.0002	0.00013	
KT-A10c	12	0.00328	0.00241	0.00323	0.00271	0.0025	0.00252	0.00301		0.00298	0.0028	0.00234	0.00322	0.00209		0.00021	0.00014	0.00017	0.00019	0.00012	
KT-A10d	16	0.0022	0.00198	0.00245	0.00132	0.00126	0.00127	0.00233		0.00144	0.00143	0.00192	0.00278	0.00186		0.00011	0.0001	0.00016	0.00017	0.00012	
KT-A10e	20	0.00143	0.00161	0.00186	0.00102	0.00097	0.00097	0.0018		0.00117	0.00116	0.00156	0.00238	0.00165		0.00005	0.00009	0.00014	0.00015	0.00011	
KT-A10f	30	0.00079	0.00096	0.00097	0.00055	0.00053	0.00053	0.00096		0.00068	0.00074	0.00089	0.00155	0.00118		0.00004	0.00007	0.00011	0.00012	0.00009	
KT-A10g	40	0.00063	0.00065	0.00064	0.00044	0.00043	0.00043	0.00067		0.00047	0.00059	0.00059	0.00097	0.00081		0.00004	0.00005	0.00008	0.00009	0.00007	
KT-A10h	50	0.00049	0.00048	0.00047	0.00039	0.00038	0.00037	0.00051		0.00039	0.00051	0.00049	0.00057	0.00053		0.00003	0.00003	0.00005	0.00007	0.00006	
KT-A10i	60	0.00038	0.00034	0.00034	0.00034	0.00033	0.00033	0.00038		0.00036	0.00044	0.00042	0.00038	0.00034		0.00002	0.00003	0.00004	0.00005	0.00004	
KT-A10j	70	0.00029	0.00025	0.00023	0.0003	0.00029	0.00028	0.00027		0.00032	0.00037	0.00035	0.00033	0.00028		0.00002	0.00002	0.00003	0.00003	0.00003	
KT-A10k	80	0.00023	0.00019	0.00018	0.00025	0.00024	0.00024	0.00019		0.00029	0.00031	0.00029	0.00028	0.00025		0.00002	0.00002	0.00002	0.00002	0.00002	
KT-A10l	90	0.00019	0.00016	0.00014	0.00021	0.0002	0.0002	0.00015		0.00025	0.00025	0.00024	0.00024	0.00022		0.00002	0.00002	0.00002	0.00002	0.00002	
KT-A10m	100	0.00015	0.00013	0.00011	0.00017	0.00017	0.00017	0.00012		0.00022	0.00021	0.0002	0.0002	0.00019		0.00002	0.00002	0.00002	0.00002	0.00001	
KT-A10n	110	0.00012	0.00011	0.00008	0.00014	0.00014	0.00014	0.00009		0.00019	0.00018	0.00018	0.00017	0.00016		0.00002	0.00001	0.00002	0.00002	0.00001	
KT-A10o	120	0.0001	0.00009	0.00006	0.00012	0.00012	0.00012	0.00007		0.00016	0.00015	0.00015	0.00015	0.00014		0.00001	0.00001	0.00001	0.00001	0.00001	
KT-A10p	130	0.00008	0.00007	0.00004	0.0001	0.0001	0.0001	0.00005		0.00013	0.00013	0.00013	0.00013	0.00013		0.00001	0.00001	0.00001	0.00001	0.00001	
KT-A10q	140	0.00006	0.00005	0.00003	0.00008	0.00008	0.00008	0.00004		0.00012	0.00011	0.00011	0.00011	0.00011		0.00001	0.00001	0.00001	0.00001	0.00001	

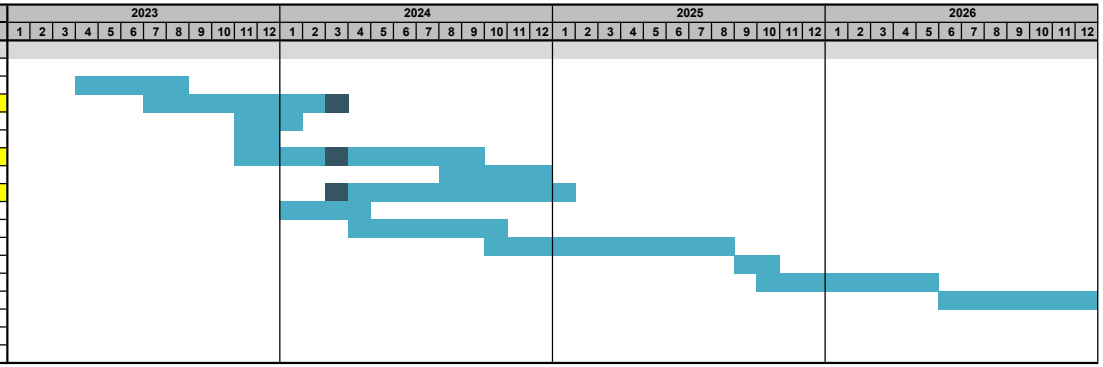
AERMOD Results on Hyd

Part and Case		Reprov. Option B - Part 1								Reprov. Option B - Part 2						Reprov. Option B - Part 3					
Maximum Value in Cases		0.02135	0.02528	0.02520	0.02307	0.02302	0.02307	0.02039		0.01683	0.02644	0.02181	0.02934	0.01952		0.00138	0.00170	0.00264	0.00324	0.00418	
ASR_ID	mAG	B11	B12	B13	B14	B15	B16	B18		B22	B23	B24	B25	B26		B32	B33	B34	B35	B36	
P01	1.5	0.00872	0.00261	0.00313	0.02307	0.02302	0.02307	0.00356		0.01683	0.01726	0.01356	0.02934	0.01629		0.00116	0.001	0.00113	0.00111	0.0005	
P02	1.5	0.01349	0.00241	0.00295	0.02084	0.0208	0.02084	0.0033		0.01365	0.02004	0.01582	0.02616	0.01643		0.00105	0.0011	0.00114	0.00092	0.00052	
P03	1.5	0.01728	0.00293	0.00368	0.018	0.01796	0.018	0.00421		0.01263	0.01988	0.01651	0.02727	0.01369		0.00103	0.00082	0.00093	0.00089	0.00043	
P04	1.5	0.0171	0.00259	0.00329	0.01913	0.01908	0.01913	0.00369		0.01207	0.02029	0.017	0.02322	0.01448		0.00101	0.00097	0.00099	0.00078	0.00046	
P10	1.5	0.01622	0.01885	0.02206	0.0119	0.01155	0.01162	0.01925		0.00777	0.01218	0.01268	0.00907	0.00631		0.00039	0.00035	0.00047	0.00049	0.00029	
P11	1.5	0.01967	0.00431	0.00583	0.01677	0.01668	0.01672	0.00704		0.01543	0.02644	0.02124	0.01749	0.00932		0.00069	0.00071	0.00065	0.00075	0.00036	
P12	1.5	0.02085	0.00681	0.00901	0.01613	0.01567	0.01572	0.01165		0.01416	0.02103	0.02181	0.01344	0.00883		0.00054	0.00058	0.00064	0.00067	0.00036	
P13	1.5	0.01835	0.01585	0.01393	0.0115	0.01115	0.01119	0.01943		0.01153	0.01483	0.01607	0.01133	0.00719		0.00045	0.00047	0.00053	0.00057	0.00031	
P14	1.5	0.01377	0.01008	0.01604	0.01137	0.01093	0.01098	0.01908		0.01039	0.01409	0.01316	0.0088	0.00507		0.00043	0.0004	0.00037	0.00042	0.00021	
P15	1.5	0.01576	0.01417	0.01423	0.01493	0.01482	0.01485	0.01673		0.0119	0.01437	0.01574	0.01041	0.00743		0.00065	0.00047	0.00052	0.00045	0.00028	
P16	1.5	0.02135	0.00875	0.00514	0.01366	0.01351	0.01354	0.00712		0.015	0.01797	0.01934	0.01603	0.00923		0.00077	0.00055	0.00064	0.00059	0.00032	

Agreement No. CE13/2019 Ground Decontamination Works at the Site of Ex-Kennedy Town Incineration Plant/Abattoir and Adjoining Area – Design and Construction

Reprovisioning Option C - 4.5 Years

Item (#)	Task (Name)	Duration (Days)	Start (Date)	End (Date)
1	Stage 1_Scenario 4.5yr	1643	4/1/2023	9/29/2027
2	Commencement	0	4/1/2023	4/1/2023
3	Preliminary	153	4/1/2023	8/31/2023
4	Stage I Excavation (For Zone 1A & 3)	275	7/1/2023	3/31/2024
5	Backfill soil to Zone 1A & 3	91	11/1/2023	1/30/2024
6	Import Fill to Zone 1A & 3	61	11/1/2023	12/31/2023
7	Stage II Excavation (For Zone 2)	306	11/1/2023	9/1/2024
8	Backfill soil to Zone 2	151	8/2/2024	12/30/2024
9	Stage III Excavation (For Zone 1B & 1C)	334	3/2/2024	1/29/2025
10	Foundation for Biopile A at Zone 1A & 3	62	1/31/2024	4/1/2024
11	Formation of Biopile A at Zone 1A & 3 (For Zone 1A, 2 & 3)	212	4/1/2024	10/29/2024
12	Operation of Biopile A at Zone 1A & 3 (For Zone 1A, 2 & 3)	306	10/30/2024	8/31/2025
13	Decomissioning of Biopile A	59	9/1/2025	10/29/2025
14	Formation of Biopile B at Zone 1A & 3 (For Zone 1B & 1C)	214	10/30/2025	5/31/2026
15	Operation of Biopile B at Zone 1A & 3 (For Zone 1B & 1C)	304	6/1/2026	3/31/2027
16	Decomissioning of Biopile B	91	4/1/2027	6/30/2027
17	Backfill soil to Zone 1B, 1C	92	1/30/2027	5/1/2027
18	Reinstatement and remaining works	91	7/1/2027	9/29/2027



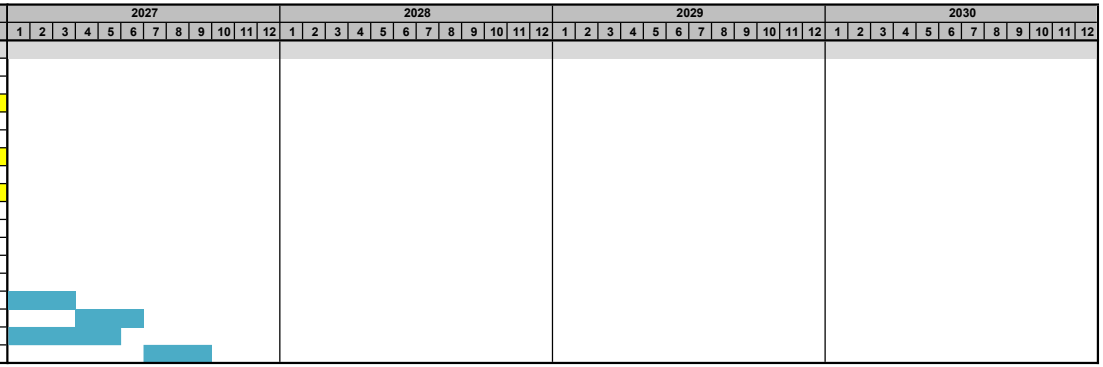
Note

Modelling for Part 1: assessment asssumes Stage I, II and III excavation works overlapping and continuous over a year for conservative approach

Agreement No. CE13/2019 Ground Decontamination Works at the Site of Ex-Kennedy Town Incineration Plant/Abattoir and Adjoining Area – Design an

Reprovisioning Option C - 4.5 Years

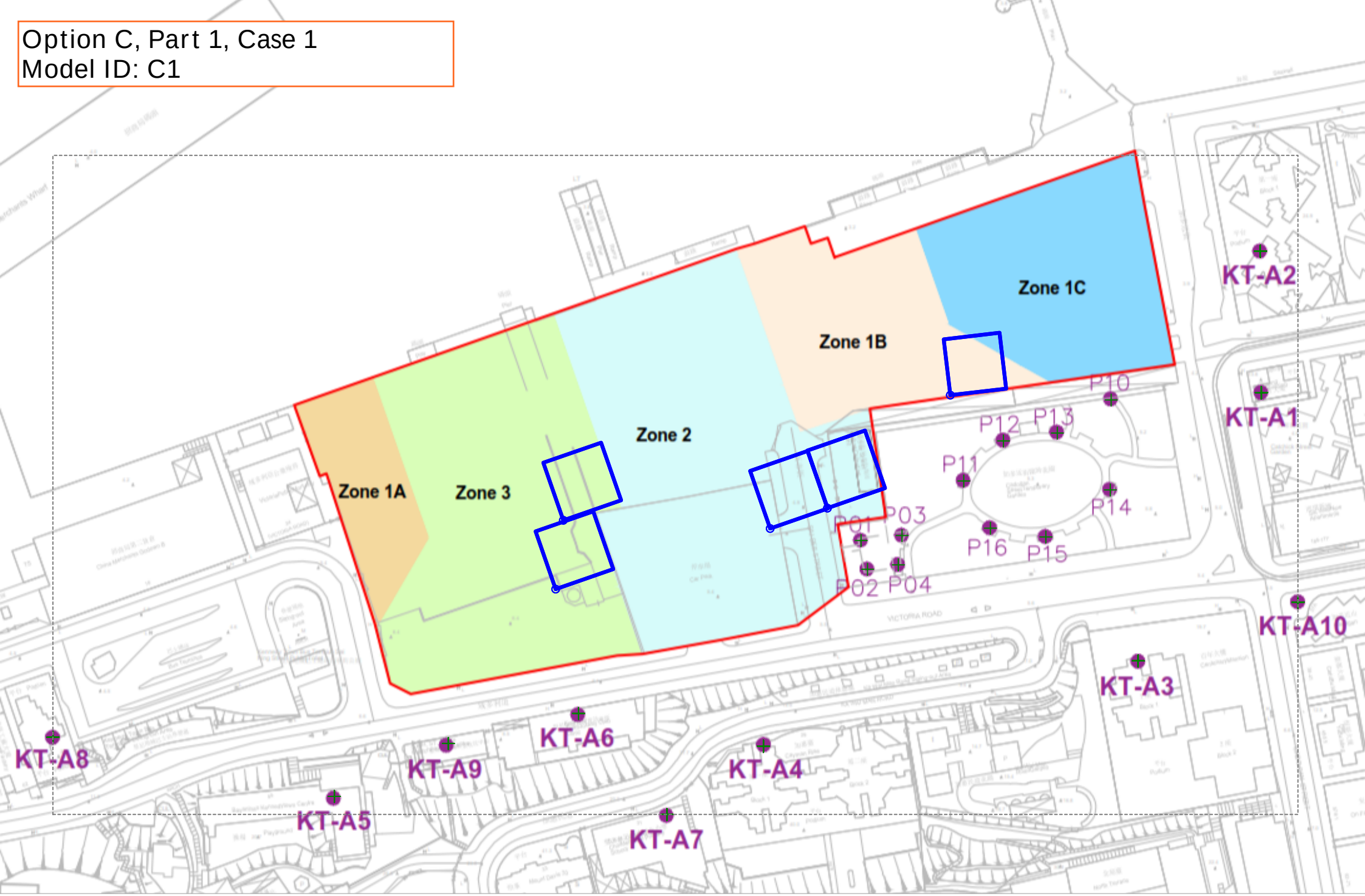
Item (#)	Task (Name)	Duration (Days)	Start (Date)	End (Date)
1	Stage 1_Scenario 4.5yr	1643	4/1/2023	9/29/2027
2	Commencement	0	4/1/2023	4/1/2023
3	Preliminary	153	4/1/2023	8/31/2023
4	Stage I Excavation (For Zone 1A & 3)	275	7/1/2023	3/31/2024
5	Backfill soil to Zone 1A & 3	91	11/1/2023	1/30/2024
6	Import Fill to Zone 1A & 3	61	11/1/2023	12/31/2023
7	Stage II Excavation (For Zone 2)	306	11/1/2023	9/1/2024
8	Backfill soil to Zone 2	151	8/2/2024	12/30/2024
9	Stage III Excavation (For Zone 1B & 1C)	334	3/2/2024	1/29/2025
10	Foundation for Biopile A at Zone 1A & 3	62	1/31/2024	4/1/2024
11	Formation of Biopile A at Zone 1A & 3 (For Zone 1A, 2 & 3)	212	4/1/2024	10/29/2024
12	Operation of Biopile A at Zone 1A & 3 (For Zone 1A, 2 & 3)	306	10/30/2024	8/31/2025
13	Decomissioning of Biopile A	59	9/1/2025	10/29/2025
14	Formation of Biopile B at Zone 1A & 3 (For Zone 1B & 1C)	214	10/30/2025	5/31/2026
15	Operation of Biopile B at Zone 1A & 3 (For Zone 1B & 1C)	304	6/1/2026	3/31/2027
16	Decomissioning of Biopile B	91	4/1/2027	6/30/2027
17	Backfill soil to Zone 1B, 1C	92	1/30/2027	5/1/2027
18	Reinstatement and remaining works	91	7/1/2027	9/29/2027



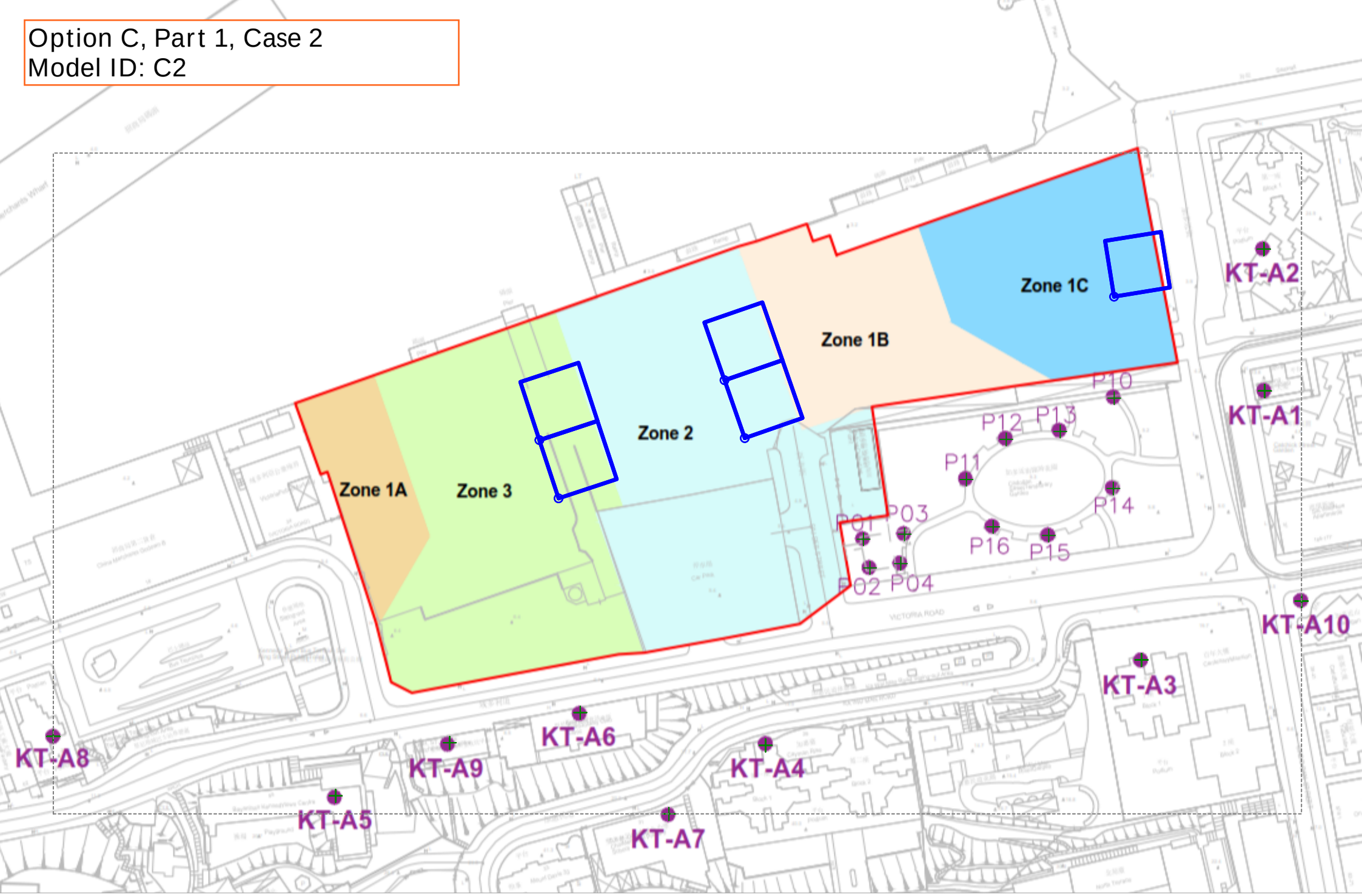
Note

Modelling for Part 1: assessment asssumes Stage I, II and III excavation works overlapping and continuous over a year for conservative approach

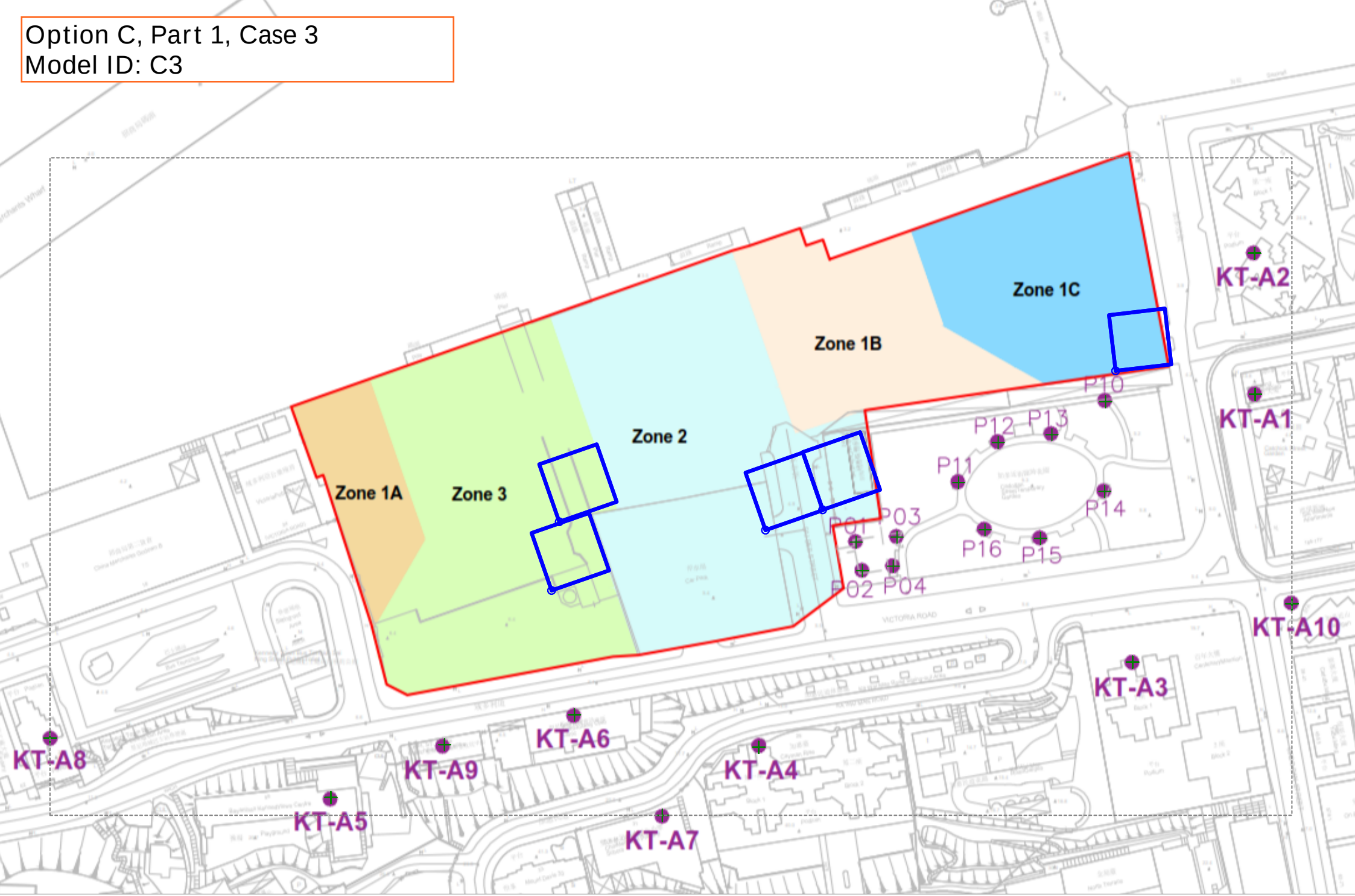
Option C, Part 1, Case 1
Model ID: C1



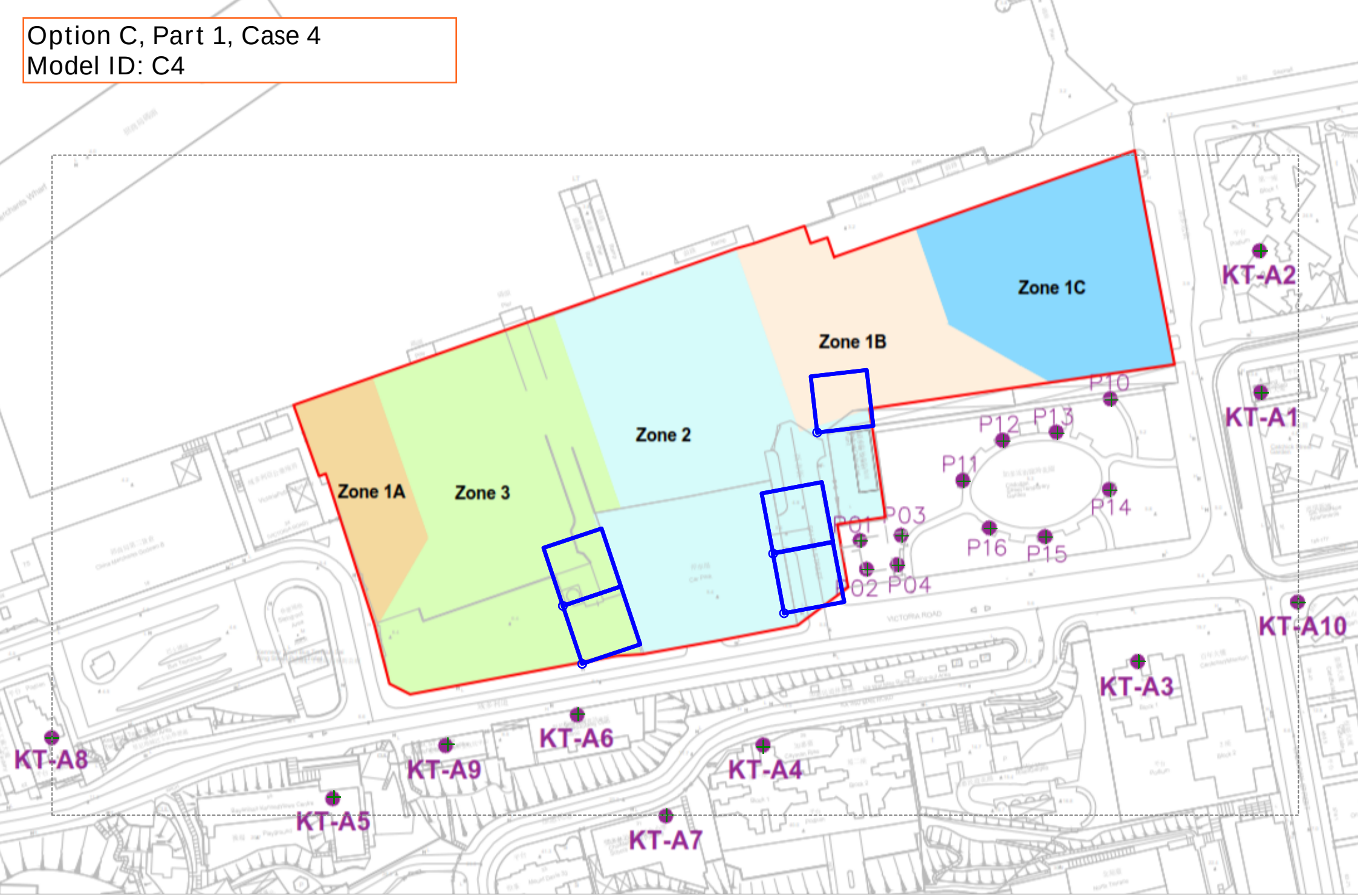
Option C, Part 1, Case 2
Model ID: C2



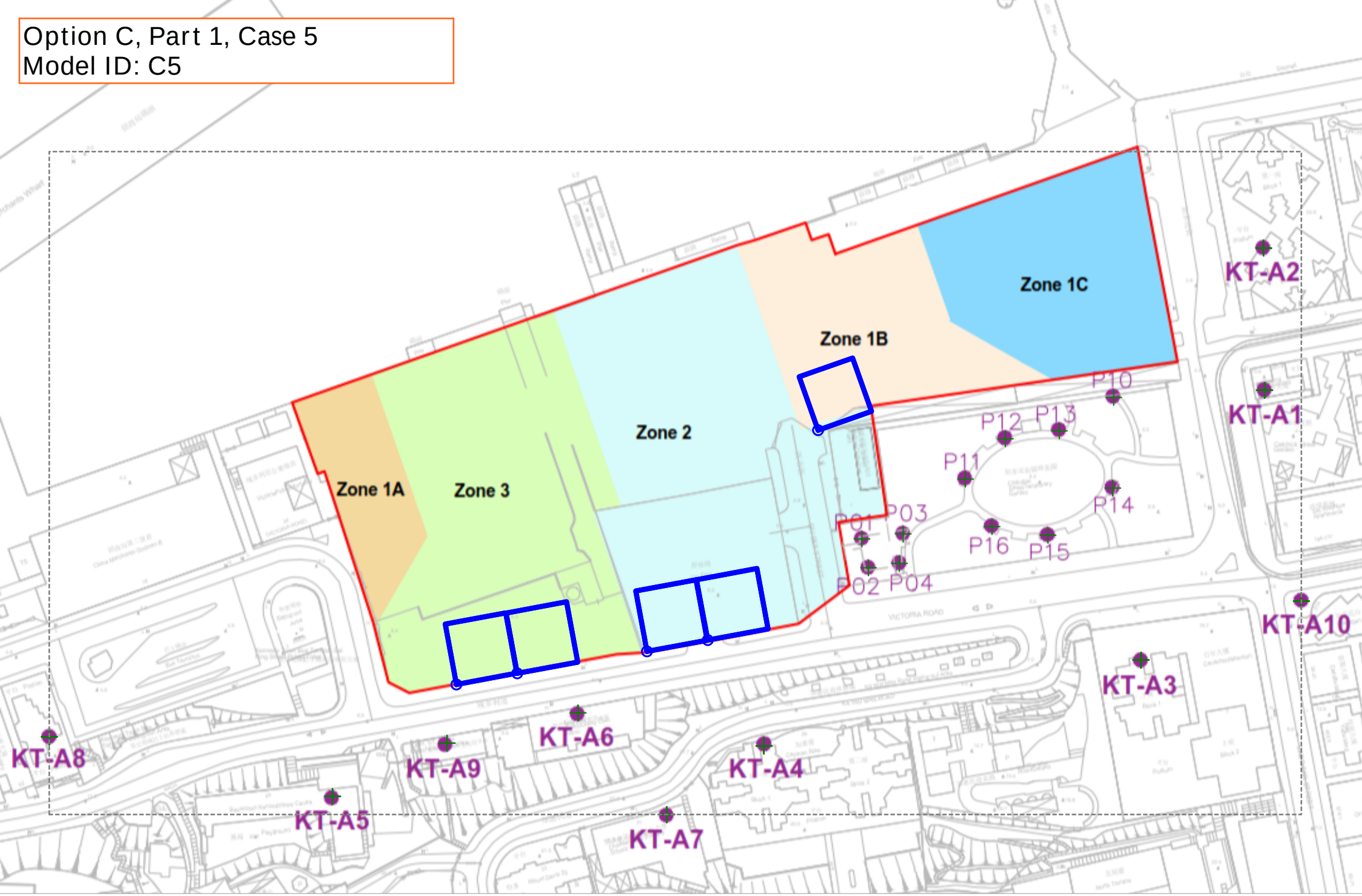
Option C, Part 1, Case 3
Model ID: C3



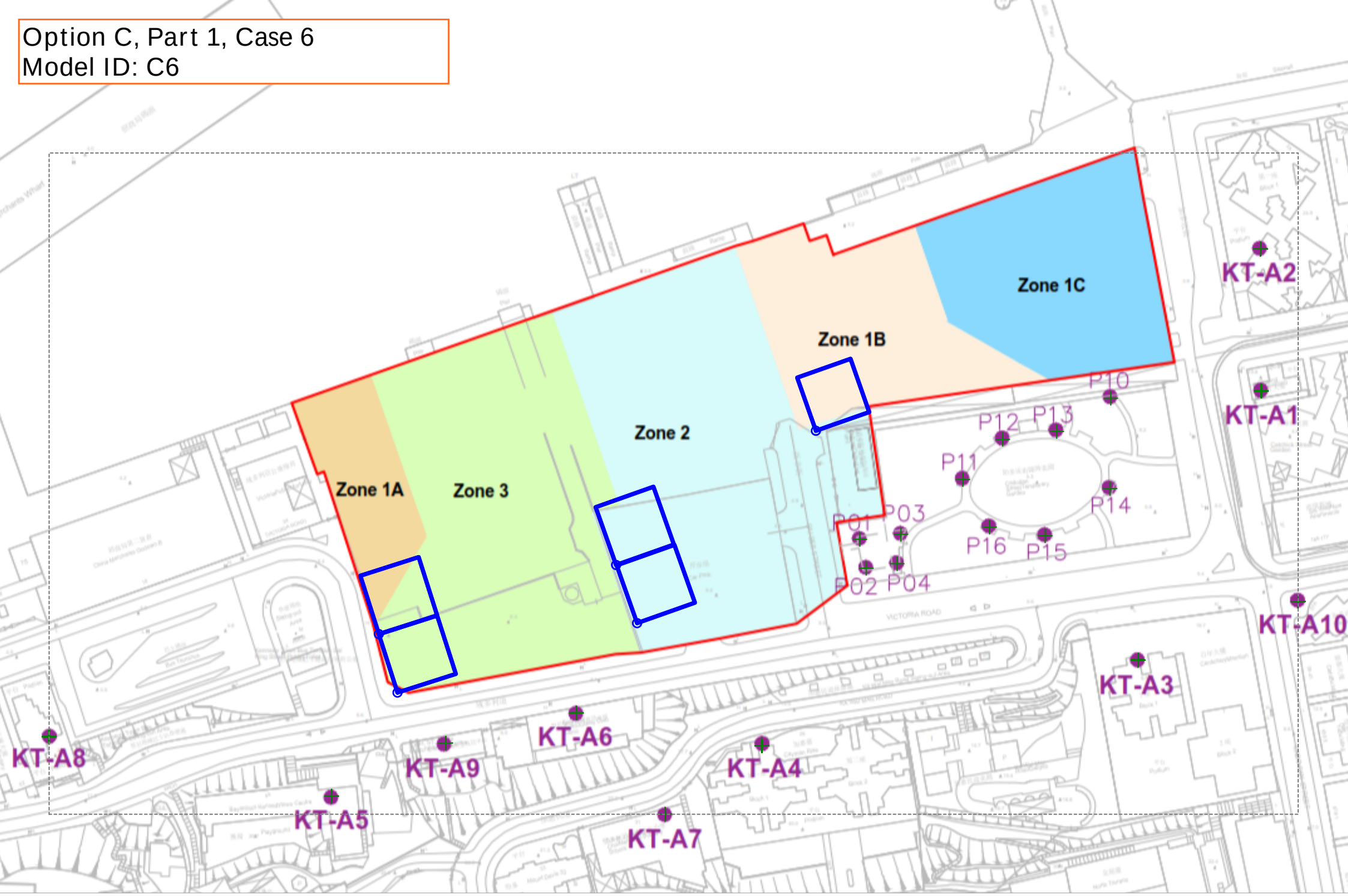
Option C, Part 1, Case 4
Model ID: C4



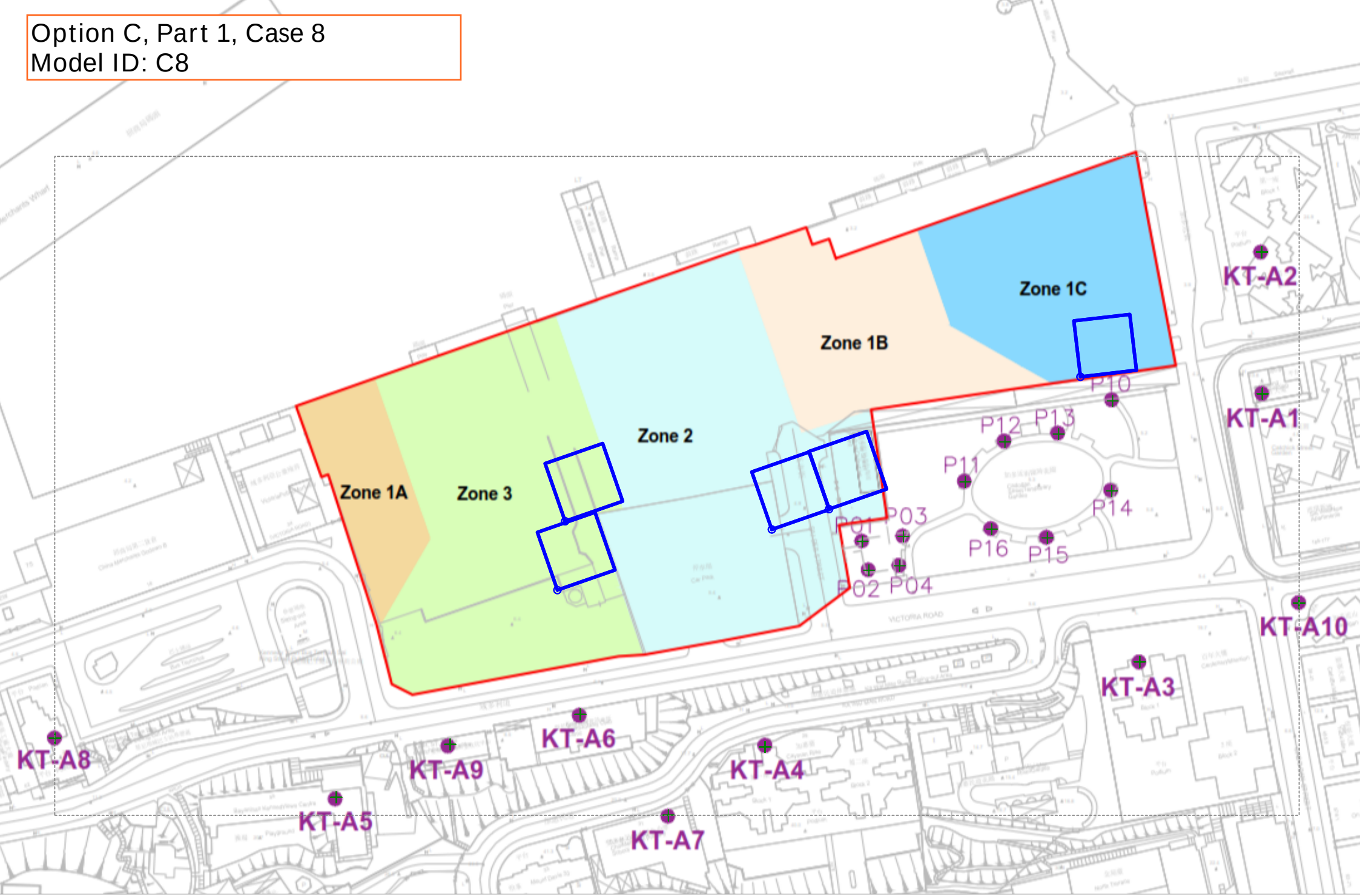
Option C, Part 1, Case 5
Model ID: C5



Option C, Part 1, Case 6
Model ID: C6



Option C, Part 1, Case 8
Model ID: C8



AERMOD Results on Hyd

Part and Case		Reprov. Option C - Part 1							
Maximum Value in Cases		0.02246	0.02889	0.02616	0.02309	0.02333	0.02333	0.02309	
ASR_ID	mAG	C1	C2	C3	C4	C5	C6	C8	
KT-A1	1.5	0.01327	0.01356	0.01755	0.0074	0.00607	0.0067	0.01731	
KT-A1a	4	0.01183	0.01694	0.02602	0.00685	0.00564	0.00625	0.01995	
KT-A1b	8	0.00903	0.01622	0.02432	0.00579	0.0048	0.00537	0.01917	
KT-A1c	12	0.00659	0.0043	0.00493	0.00472	0.00394	0.00447	0.00526	
KT-A1d	16	0.00479	0.00307	0.00336	0.00376	0.00316	0.00364	0.00333	
KT-A1e	20	0.0035	0.00223	0.0024	0.00295	0.0025	0.00294	0.00242	
KT-A1f	30	0.00149	0.00115	0.0011	0.00155	0.00135	0.00167	0.00128	
KT-A1g	40	0.00105	0.00067	0.00056	0.00089	0.00076	0.00092	0.00078	
KT-A1h	50	0.00076	0.00042	0.00039	0.00072	0.00063	0.00064	0.00051	
KT-A1i	60	0.00058	0.00031	0.00031	0.00058	0.00052	0.00053	0.00035	
KT-A1j	70	0.00046	0.00026	0.00027	0.00048	0.00042	0.00044	0.00027	
KT-A1k	80	0.00036	0.00022	0.00022	0.0004	0.00036	0.00036	0.00022	
KT-A1l	90	0.00028	0.00018	0.00019	0.00033	0.00031	0.0003	0.00019	
KT-A1m	100	0.00023	0.00015	0.00015	0.00027	0.00026	0.00025	0.00015	
KT-A2	1.5	0.01388	0.02643	0.02596	0.00942	0.00825	0.00812	0.02309	
KT-A2a	4	0.01448	0.02889	0.02616	0.00996	0.00873	0.00861	0.0229	
KT-A2b	8	0.01268	0.02011	0.02438	0.00897	0.00791	0.00784	0.02078	
KT-A2c	12	0.0084	0.01053	0.00869	0.00642	0.00578	0.00578	0.01015	
KT-A2d	16	0.00539	0.00414	0.0044	0.00405	0.00354	0.00375	0.00573	
KT-A2e	20	0.00402	0.00235	0.00235	0.00326	0.0029	0.0031	0.00332	
KT-A2f	30	0.00182	0.0011	0.00123	0.00184	0.00173	0.0019	0.00137	
KT-A2g	40	0.00097	0.0006	0.0007	0.00098	0.001	0.00113	0.0009	
KT-A2h	50	0.00077	0.00035	0.00043	0.00061	0.00056	0.00066	0.0006	
KT-A2i	60	0.00061	0.00028	0.0003	0.00053	0.00047	0.00048	0.00042	
KT-A2j	70	0.00049	0.00024	0.00024	0.00045	0.00041	0.00042	0.0003	
KT-A2k	80	0.0004	0.00021	0.0002	0.00039	0.00036	0.00037	0.00023	
KT-A2l	90	0.00032	0.00018	0.00018	0.00034	0.00031	0.00032	0.00019	
KT-A2m	100	0.00025	0.00016	0.00016	0.00029	0.00027	0.00027	0.00016	
KT-A2n	110	0.00021	0.00013	0.00013	0.00025	0.00023	0.00023	0.00014	
KT-A2o	120	0.00017	0.00011	0.00012	0.00021	0.0002	0.0002	0.00012	
KT-A2p	130	0.00014	0.0001	0.0001	0.00018	0.00017	0.00017	0.0001	
KT-A2q	140	0.00011	0.00009	0.00008	0.00015	0.00015	0.00015	0.00008	
KT-A2r	150	0.00009	0.00008	0.00007	0.00013	0.00012	0.00013	0.00007	
KT-A2s	160	0.00008	0.00007	0.00006	0.00011	0.00011	0.00011	0.00006	
KT-A2t	170	0.00007	0.00006	0.00005	0.0001	0.0001	0.0001	0.00005	
KT-A2u	180	0.00005	0.00005	0.00005	0.00008	0.00008	0.00009	0.00005	
KT-A3	1.5	0.00783	0.00634	0.00771	0.01086	0.00674	0.00711	0.01083	
KT-A3a	4	0.00709	0.00563	0.00654	0.00981	0.00608	0.00613	0.01021	
KT-A3b	8	0.00545	0.00405	0.00484	0.00737	0.00495	0.00495	0.00795	
KT-A3c	12	0.00344	0.00277	0.00289	0.00333	0.00254	0.00254	0.00406	
KT-A3d	16	0.0027	0.00196	0.00221	0.00226	0.00204	0.00168	0.00206	
KT-A3e	20	0.00212	0.00157	0.00177	0.00194	0.00162	0.00142	0.00156	
KT-A3f	30	0.00145	0.001	0.00106	0.00132	0.00102	0.00103	0.00106	
KT-A3g	40	0.00106	0.00066	0.00067	0.00105	0.00084	0.00079	0.00075	
KT-A3h	50	0.00081	0.00046	0.00049	0.00084	0.00069	0.00067	0.00053	
KT-A3i	60	0.00062	0.00037	0.00038	0.00065	0.00056	0.00056	0.00041	
KT-A3j	70	0.00046	0.0003	0.00029	0.0005	0.00045	0.00046	0.00032	
KT-A3k	80	0.00033	0.00025	0.00022	0.00039	0.00037	0.00037	0.00025	
KT-A3l	90	0.00026	0.00021	0.00018	0.00031	0.0003	0.0003	0.00019	
KT-A3m	100	0.00021	0.00018	0.00014	0.00024	0.00024	0.00025	0.00015	
KT-A4	1.5	0.00899	0.00506	0.00616	0.01387	0.00898	0.00715	0.00623	
KT-A4a	4	0.00739	0.0041	0.00499	0.01247	0.00968	0.00674	0.00504	
KT-A4b	8	0.00474	0.00261	0.00306	0.00816	0.00715	0.00431	0.00311	
KT-A4c	12	0.00327	0.0019	0.00252	0.005	0.00342	0.00292	0.00262	
KT-A4d	16	0.00277	0.00156	0.0021	0.00397	0.00248	0.00206	0.00219	
KT-A4e	20	0.00235	0.00126	0.00174	0.00317	0.00182	0.00167	0.00182	
KT-A4f	30	0.00154	0.00082	0.00107	0.00181	0.00107	0.00103	0.00114	
KT-A4g	40	0.00098	0.00064	0.00065	0.00102	0.00071	0.0007	0.00068	
KT-A4h	50	0.00062	0.0005	0.00049	0.00065	0.00046	0.0005	0.00052	
KT-A4i	60	0.00047	0.00039	0.00039	0.00043	0.00033	0.00036	0.00041	
KT-A4j	70	0.00038	0.00032	0.00031	0.00031	0.00024	0.00027	0.00033	

AERMOD Results on Hyd

Part and Case		Reprov. Option C - Part 1							
Maximum Value in Cases		0.02246	0.02889	0.02616	0.02309	0.02333	0.02333	0.02309	
ASR_ID	mAG	C1	C2	C3	C4	C5	C6	C8	
KT-A4k	80	0.0003	0.00026	0.00025	0.00022	0.00019	0.0002	0.00026	
KT-A4l	90	0.00023	0.00021	0.0002	0.00017	0.00014	0.00016	0.00021	
KT-A4m	100	0.00018	0.00018	0.00016	0.00013	0.00011	0.00012	0.00017	
KT-A4n	110	0.00015	0.00015	0.00013	0.0001	0.00009	0.00009	0.00013	
KT-A4o	120	0.00012	0.00013	0.0001	0.00008	0.00007	0.00007	0.00011	
KT-A5	1.5	0.00296	0.00241	0.00272	0.00357	0.00476	0.00496	0.00277	
KT-A5a	4	0.00344	0.00269	0.00316	0.00413	0.00541	0.00532	0.00322	
KT-A5b	8	0.00365	0.0027	0.00336	0.00432	0.00534	0.00495	0.00343	
KT-A5c	12	0.00309	0.00223	0.00287	0.0035	0.00398	0.00357	0.00293	
KT-A5d	16	0.00208	0.00152	0.00198	0.00218	0.00217	0.00197	0.00201	
KT-A5e	20	0.00107	0.00084	0.00108	0.00123	0.00162	0.00134	0.00108	
KT-A6	1.5	0.00513	0.00611	0.00463	0.00777	0.01243	0.01327	0.00473	
KT-A6a	4	0.00557	0.00519	0.00504	0.00813	0.01278	0.01694	0.00515	
KT-A6b	8	0.00521	0.00355	0.0048	0.0069	0.01038	0.01057	0.0049	
KT-A6c	12	0.00366	0.00228	0.0035	0.00424	0.00449	0.00439	0.00357	
KT-A7	1.5	0.00521	0.00265	0.00477	0.00874	0.00919	0.00514	0.00477	
KT-A7a	4	0.00438	0.00229	0.00399	0.00742	0.00856	0.00547	0.004	
KT-A7b	8	0.00297	0.00164	0.00268	0.00518	0.00632	0.00447	0.00268	
KT-A7c	12	0.00189	0.00123	0.00169	0.00332	0.00352	0.00246	0.00169	
KT-A7d	16	0.00153	0.00113	0.00124	0.00222	0.00286	0.0021	0.00128	
KT-A7e	20	0.00137	0.00105	0.0011	0.00195	0.00232	0.00179	0.00114	
KT-A8	1.5	0.00158	0.00143	0.00146	0.00177	0.00207	0.00226	0.00149	
KT-A8a	4	0.00197	0.00176	0.00183	0.00222	0.00258	0.00282	0.00186	
KT-A8b	8	0.00236	0.00216	0.00221	0.00267	0.00306	0.0033	0.00224	
KT-A8c	12	0.00232	0.00217	0.0022	0.0026	0.00291	0.00305	0.00223	
KT-A8d	16	0.00189	0.00182	0.00182	0.00207	0.00221	0.00224	0.00184	
KT-A8e	20	0.00125	0.00125	0.00125	0.00132	0.00132	0.00127	0.00125	
KT-A8f	30	0.00063	0.0006	0.00056	0.00064	0.00068	0.00087	0.00058	
KT-A8g	40	0.00058	0.00056	0.00053	0.00059	0.0006	0.00074	0.00054	
KT-A8h	50	0.00052	0.00051	0.00047	0.00052	0.00051	0.00061	0.00048	
KT-A8i	60	0.00045	0.00044	0.00041	0.00044	0.00041	0.00048	0.00042	
KT-A8j	70	0.00037	0.00037	0.00034	0.00035	0.00032	0.00036	0.00035	
KT-A8k	80	0.0003	0.0003	0.00028	0.00027	0.00024	0.00026	0.00028	
KT-A8l	90	0.00023	0.00024	0.00022	0.0002	0.00018	0.0002	0.00022	
KT-A8m	100	0.00017	0.00018	0.00017	0.00016	0.00016	0.00018	0.00017	
KT-A9	1.5	0.00415	0.00308	0.0038	0.00539	0.00806	0.00628	0.00387	
KT-A9a	4	0.00464	0.00324	0.00424	0.00603	0.00855	0.0068	0.00432	
KT-A9b	8	0.00458	0.00296	0.00419	0.00579	0.00742	0.00603	0.00428	
KT-A10	1.5	0.00923	0.00665	0.00661	0.00899	0.0067	0.0073	0.0067	
KT-A10a	4	0.00831	0.00639	0.00861	0.0084	0.00622	0.00687	0.00824	
KT-A10b	8	0.00605	0.00517	0.0064	0.00642	0.00476	0.0053	0.00633	
KT-A10c	12	0.00341	0.00243	0.0032	0.00357	0.0027	0.00304	0.00296	
KT-A10d	16	0.00227	0.00198	0.00242	0.00189	0.002	0.00149	0.00229	
KT-A10e	20	0.00153	0.00161	0.00183	0.00156	0.00174	0.00131	0.00177	
KT-A10f	30	0.00112	0.00096	0.00101	0.00094	0.00119	0.00094	0.00116	
KT-A10g	40	0.00088	0.00067	0.00076	0.00078	0.00079	0.00065	0.00084	
KT-A10h	50	0.00074	0.00054	0.00057	0.00068	0.00055	0.00055	0.00063	
KT-A10i	60	0.00062	0.00044	0.00042	0.00059	0.00049	0.00049	0.00048	
KT-A10j	70	0.00051	0.00035	0.00032	0.00051	0.00042	0.00043	0.00038	
KT-A10k	80	0.00041	0.00028	0.00026	0.00043	0.00036	0.00038	0.0003	
KT-A10l	90	0.00033	0.00023	0.00021	0.00035	0.0003	0.00032	0.00024	
KT-A10m	100	0.00027	0.0002	0.00017	0.00029	0.00026	0.00027	0.00019	
KT-A10n	110	0.00022	0.00017	0.00014	0.00025	0.00022	0.00023	0.00015	
KT-A10o	120	0.00018	0.00014	0.00011	0.0002	0.00019	0.0002	0.00012	
KT-A10p	130	0.00015	0.00012	0.0001	0.00018	0.00017	0.00017	0.0001	
KT-A10q	140	0.00013	0.0001	0.00008	0.00015	0.00015	0.00015	0.00008	

AERMOD Results on Hyd

Part and Case		Reprov. Option C - Part 1							
Maximum Value in Cases		0.02246	0.02889	0.02616	0.02309	0.02333	0.02333	0.02309	
ASR_ID	mAG	C1	C2	C3	C4	C5	C6	C8	
P01	1.5	0.01515	0.01306	0.01515	0.02309	0.02333	0.02333	0.01515	
P02	1.5	0.01553	0.01065	0.01532	0.02205	0.021	0.021	0.01532	
P03	1.5	0.01635	0.00938	0.01632	0.01917	0.01769	0.01769	0.01632	
P04	1.5	0.01693	0.00918	0.01545	0.02022	0.01871	0.01871	0.01545	
P10	1.5	0.01933	0.01889	0.02394	0.01405	0.01195	0.01313	0.01916	
P11	1.5	0.02194	0.01172	0.02194	0.01681	0.01686	0.01686	0.02194	
P12	1.5	0.02246	0.01054	0.01646	0.01588	0.0152	0.01538	0.01646	
P13	1.5	0.01985	0.01479	0.01295	0.01601	0.01198	0.01383	0.01982	
P14	1.5	0.01231	0.00935	0.01573	0.01215	0.01084	0.01144	0.01968	
P15	1.5	0.01739	0.0143	0.0124	0.01528	0.01477	0.01477	0.01666	
P16	1.5	0.01995	0.01162	0.01435	0.01603	0.01424	0.01424	0.01435	

APPENDIX 3.12

DETAIL RESULTS FOR HYDROCARBONS CONCENTRATIONS FOR NON-CARCINOGENC HEALTH RISKS

Health Impact Assessment Non-Criteria Pollutants Results — Non-Carcinogenic Health Risk

For all non-criteria pollutants, health risks from inhalation were evaluated against the exposure levels as listed below.
If the concentration predicted at the ASR is less than the reference listed , then health effects are not anticipated.

Hydrocarbons (HC)

Reprovisioning Option A

(Maximum of all Parts in this Option)

Pollutants		Hourly			Daily			Annual		
		Cumulative Conc. on ASRs	Criteria	Meet Criteria?	Cumulative Conc. on ASRs	Criteria	Meet Criteria?	Cumulative Conc. on ASRs	Criteria	Meet Criteria?
Naphthalene		**1.40E+01**	5.00E+02	YES	**9.80E+00**	2.25E+01	YES	**4.23E-01**	1.00E+01	YES
Phenanthrene		**3.89E-02**	5.00E-01	YES	**2.25E-02**	7.10E-01	YES	**1.33E-02**	5.00E-02	YES
Anthracene		**7.33E-03**	5.00E-01	YES				**6.98E-04**	5.00E-02	YES
Fluoranthene		**2.97E-02**	5.00E-01	YES				**2.96E-03**	5.00E-02	YES
Pyrene		**3.60E-02**	5.00E-01	YES	**7.38E-03**	7.10E-01	YES	**2.28E-03**	5.00E-02	YES
Benzo(a)pyrene		**2.69E-02**	3.00E-02	YES				**2.54E-04**	3.00E-04	YES
Benzene		**5.60E+00**	2.70E+01	YES	**4.36E+00**	2.90E+01	YES	**1.19E+00**	3.00E+01	YES
Toluene		**1.40E+01**	1.50E+04	YES	**1.19E+01**	3.75E+03	YES	**4.22E+00**	5.00E+03	YES
Ethylbenzene		**6.50E+00**	8.67E+04	YES	**3.22E+00**	2.17E+04	YES	**9.97E-01**	1.00E+03	YES
Xylenes (Total)		**2.17E+01**	7.37E+03	YES	**1.16E+01**	8.82E+03	YES	**3.68E+00**	1.00E+02	YES
Acenaphthylene		**3.78E-02**	1.00E+00	YES				**4.88E-03**	1.00E-01	YES
Acenaphthene		**3.92E-02**	1.00E+00	YES				**8.92E-03**	1.00E-01	YES
Fluorene		**9.37E-03**	1.00E+01	YES				**2.22E-03**	1.00E+00	YES
Chrysene		**1.71E-02**	3.60E-01	YES	**3.09E-03**	2.40E-01	YES	**6.64E-04**	5.00E-02	YES
Benzo(a)anthracene		**2.14E-02**	5.00E-01	YES	**3.13E-03**	3.60E-01	YES	**3.80E-04**	5.00E-02	YES
Benzo(b)fluoranthene		**2.69E-02**	3.60E-01	YES				**2.79E-04**	5.00E-02	YES
Benzo(k)fluoranthene		**1.92E-02**	5.00E-01	YES				**1.96E-04**	5.00E-02	YES
Dibenzo(a,h)anthracene		**7.14E-03**	5.00E-01	YES				**5.95E-05**	5.00E-02	YES
Indeno(1,2,3-cd)pyrene		**1.23E-02**	5.00E-01	YES				**1.80E-04**	5.00E-02	YES
Benzo(g,h,i)perylene		**1.67E-02**	5.00E-01	YES				**2.42E-04**	5.00E-02	YES

Health Impact Assessment Non-Criteria Pollutants Results — Non-Carcinogenic Health Risk

For all non-criteria pollutants, health risks from inhalation were evaluated against the exposure levels as listed below.
If the concentration predicted at the ASR is less than the reference listed , then health effects are not anticipated.

Hydrocarbons (HC)

Reprovisioning Option B

(Maximum of all Parts in this Option)

Pollutants		Hourly			Daily			Annual		
		Cumulative Conc. on ASRs	Criteria	Meet Criteria?	Cumulative Conc. on ASRs	Criteria	Meet Criteria?	Cumulative Conc. on ASRs	Criteria	Meet Criteria?
Naphthalene		**1.40E+01**	5.00E+02	YES	**9.80E+00**	2.25E+01	YES	**4.23E-01**	1.00E+01	YES
Phenanthrene		**4.03E-02**	5.00E-01	YES	**2.26E-02**	7.10E-01	YES	**1.33E-02**	5.00E-02	YES
Anthracene		**7.95E-03**	5.00E-01	YES				**7.08E-04**	5.00E-02	YES
Fluoranthene		**3.23E-02**	5.00E-01	YES				**2.96E-03**	5.00E-02	YES
Pyrene		**3.93E-02**	5.00E-01	YES	**7.79E-03**	7.10E-01	YES	**2.28E-03**	5.00E-02	YES
Benzo(a)pyrene		**2.96E-02**	3.00E-02	YES				**2.54E-04**	3.00E-04	YES
Benzene		**5.60E+00**	2.70E+01	YES	**4.36E+00**	2.90E+01	YES	**1.19E+00**	3.00E+01	YES
Toluene		**1.40E+01**	1.50E+04	YES	**1.19E+01**	3.75E+03	YES	**4.22E+00**	5.00E+03	YES
Ethylbenzene		**6.50E+00**	8.67E+04	YES	**3.22E+00**	2.17E+04	YES	**9.97E-01**	1.00E+03	YES
Xylenes (Total)		**2.17E+01**	7.37E+03	YES	**1.16E+01**	8.82E+03	YES	**3.68E+00**	1.00E+02	YES
Acenaphthylene		**3.84E-02**	1.00E+00	YES				**4.88E-03**	1.00E-01	YES
Acenaphthene		**3.89E-02**	1.00E+00	YES				**8.92E-03**	1.00E-01	YES
Fluorene		**9.70E-03**	1.00E+01	YES				**2.22E-03**	1.00E+00	YES
Chrysene		**1.87E-02**	3.60E-01	YES	**3.29E-03**	2.40E-01	YES	**6.64E-04**	5.00E-02	YES
Benzo(a)anthracene		**2.35E-02**	5.00E-01	YES	**3.40E-03**	3.60E-01	YES	**3.80E-04**	5.00E-02	YES
Benzo(b)fluoranthene		**2.61E-02**	3.60E-01	YES				**2.79E-04**	5.00E-02	YES
Benzo(k)fluoranthene		**2.12E-02**	5.00E-01	YES				**1.96E-04**	5.00E-02	YES
Dibenzo(a,h)anthracene		**7.86E-03**	5.00E-01	YES				**5.95E-05**	5.00E-02	YES
Indeno(1,2,3-cd)pyrene		**1.35E-02**	5.00E-01	YES				**1.80E-04**	5.00E-02	YES
Benzo(g,h,i)perylene		**1.83E-02**	5.00E-01	YES				**2.42E-04**	5.00E-02	YES

Health Impact Assessment Non-Criteria Pollutants Results — Non-Carcinogenic Health Risk

For all non-criteria pollutants, health risks from inhalation were evaluated against the exposure levels as listed below.
If the concentration predicted at the ASR is less than the reference listed , then health effects are not anticipated.

Hydrocarbons (HC)

Reprovisioning Option C

(Maximum of all Parts in this Option)

Pollutants		Hourly			Daily			Annual		
		Cumulative Conc. on ASRs	Criteria	Meet Criteria?	Cumulative Conc. on ASRs	Criteria	Meet Criteria?	Cumulative Conc. on ASRs	Criteria	Meet Criteria?
Naphthalene		**1.40E+01**	5.00E+02	YES	**9.80E+00**	2.25E+01	YES	**4.23E-01**	1.00E+01	YES
Phenanthrene		**3.24E-02**	5.00E-01	YES	**2.16E-02**	7.10E-01	YES	**1.33E-02**	5.00E-02	YES
Anthracene		**5.39E-03**	5.00E-01	YES				**8.18E-04**	5.00E-02	YES
Fluoranthene		**2.91E-02**	5.00E-01	YES				**3.15E-03**	5.00E-02	YES
Pyrene		**3.45E-02**	5.00E-01	YES	**6.57E-03**	7.10E-01	YES	**2.27E-03**	5.00E-02	YES
Benzo(a)pyrene		**2.92E-02**	3.00E-02	YES				**2.54E-04**	3.00E-04	YES
Benzene		**5.60E+00**	2.70E+01	YES	**4.36E+00**	2.90E+01	YES	**1.19E+00**	3.00E+01	YES
Toluene		**1.40E+01**	1.50E+04	YES	**1.19E+01**	3.75E+03	YES	**4.22E+00**	5.00E+03	YES
Ethylbenzene		**6.50E+00**	8.67E+04	YES	**3.22E+00**	2.17E+04	YES	**9.97E-01**	1.00E+03	YES
Xylenes (Total)		**2.17E+01**	7.37E+03	YES	**1.16E+01**	8.82E+03	YES	**3.68E+00**	1.00E+02	YES
Acenaphthylene		**3.78E-02**	1.00E+00	YES				**4.88E-03**	1.00E-01	YES
Acenaphthene		**3.88E-02**	1.00E+00	YES				**8.92E-03**	1.00E-01	YES
Fluorene		**8.07E-03**	1.00E+01	YES				**2.22E-03**	1.00E+00	YES
Chrysene		**1.67E-02**	3.60E-01	YES	**2.73E-03**	2.40E-01	YES	**6.64E-04**	5.00E-02	YES
Benzo(a)anthracene		**1.42E-02**	5.00E-01	YES	**1.95E-03**	3.60E-01	YES	**3.60E-04**	5.00E-02	YES
Benzo(b)fluoranthene		**2.94E-02**	3.60E-01	YES				**2.89E-04**	5.00E-02	YES
Benzo(k)fluoranthene		**1.45E-02**	5.00E-01	YES				**1.76E-04**	5.00E-02	YES
Dibenzo(a,h)anthracene		**5.73E-03**	5.00E-01	YES				**5.95E-05**	5.00E-02	YES
Indeno(1,2,3-cd)pyrene		**1.16E-02**	5.00E-01	YES				**1.80E-04**	5.00E-02	YES
Benzo(g,h,i)perylene		**1.43E-02**	5.00E-01	YES				**2.32E-04**	5.00E-02	YES

Results on Hydrocarbons (HC)

Hourly and Daily Results = From Background Concentration; = From Max. Project Contribution; = Used in Non-Criteria Non-Carcinogenic Health Risk

Results on Option A, Part 1

		Background		Project Contribution		Cumulative Concentration		Criteria		Meet Criteria ?	
		Hourly	Daily	Max Hourly	Max Daily	Max Hourly	Max Daily	Hourly	Daily	Hourly	Daily
ID	Pollutant	(µg/m3)	(µg/m3)	(µg/m3)	(µg/m3)	(µg/m3)	(µg/m3)	(µg/m3)	(µg/m3)	YES/NO?	YES/NO?
01	Naphthalene	1.40E+01	9.80E+00	9.30E-04	9.00E-05	1.40E+01	9.80E+00	**5.00E+02**	**2.25E+01**	YES	YES
02	Phenanthrene	2.57E-02	2.08E-02	5.36E-03	6.10E-04	3.11E-02	2.14E-02	**5.00E-01**	**7.10E-01**	YES	YES
03	Anthracene	1.26E-03		3.52E-03		4.78E-03		**5.00E-01**		YES	
04	Fluoranthene	4.03E-03		2.24E-02		2.65E-02		**5.00E-01**		YES	
05	Pyrene	4.09E-03	3.34E-03	2.72E-02	2.91E-03	3.13E-02	6.25E-03	**5.00E-01**	**7.10E-01**	YES	YES
06	Benzo(a)pyrene	2.70E-04		2.61E-02		2.64E-02		**3.00E-02**		YES	
07	Benzene	5.60E+00	4.36E+00	4.20E-04	5.00E-05	5.60E+00	4.36E+00	**2.70E+01**	**2.90E+01**	YES	YES
08	Toluene	1.40E+01	1.19E+01	5.00E-04	5.00E-05	1.40E+01	1.19E+01	**1.50E+04**	**3.75E+03**	YES	YES
09	Ethylbenzene	6.50E+00	3.22E+00	5.70E-04	6.00E-05	6.50E+00	3.22E+00	**8.67E+04**	**2.17E+04**	YES	YES
10	Xylenes (Total)	2.17E+01	1.16E+01	1.97E-03	1.90E-04	2.17E+01	1.16E+01	**7.37E+03**	**8.82E+03**	YES	YES
11	Acenaphthylene	3.22E-02		5.03E-03		3.72E-02		**1.00E+00**		YES	
12	Acenaphthene	3.73E-02		1.28E-03		3.86E-02		**1.00E+00**		YES	
13	Fluorene	6.18E-03		1.55E-03		7.73E-03		**1.00E+01**		YES	
14	Chrysene	1.21E-03	1.08E-03	1.38E-02	1.48E-03	1.50E-02	2.56E-03	**3.60E-01**	**2.40E-01**	YES	YES
15	Benzo(a)anthracene	5.63E-04	4.96E-04	1.17E-02	1.25E-03	1.22E-02	1.75E-03	**5.00E-01**	**3.60E-01**	YES	YES
16	Benzo(b)fluoranthene	5.73E-04		2.63E-02		2.69E-02		**3.60E-01**		YES	
17	Benzo(k)fluoranthene	2.26E-04		1.24E-02		1.26E-02		**5.00E-01**		YES	
18	Dibenzo(a,h)anthracene	3.77E-05		4.93E-03		4.97E-03		**5.00E-01**		YES	
19	Indeno(1,2,3-cd)pyrene	5.16E-04		9.79E-03		1.03E-02		**5.00E-01**		YES	
20	Benzo(g,h,i)perylene	6.96E-04		1.20E-02		1.27E-02		**5.00E-01**		YES	

Results on Option A, Part 2

		Background		Project Contribution		Cumulative Concentration		Criteria		Meet Criteria ?	
		Hourly	Daily	Max Hourly	Max Daily	Max Hourly	Max Daily	Hourly	Daily	Hourly	Daily
ID	Pollutant	(µg/m3)	(µg/m3)	(µg/m3)	(µg/m3)	(µg/m3)	(µg/m3)	(µg/m3)	(µg/m3)	YES/NO?	YES/NO?
01	Naphthalene	1.40E+01	9.80E+00	8.40E-04	1.10E-04	1.40E+01	9.80E+00	**5.00E+02**	**2.25E+01**	YES	YES
02	Phenanthrene	2.57E-02	2.08E-02	1.32E-02	1.67E-03	3.89E-02	2.25E-02	**5.00E-01**	**7.10E-01**	YES	YES
03	Anthracene	1.26E-03		6.07E-03		7.33E-03		**5.00E-01**		YES	
04	Fluoranthene	4.03E-03		2.57E-02		2.97E-02		**5.00E-01**		YES	
05	Pyrene	4.09E-03	3.34E-03	3.19E-02	4.04E-03	3.60E-02	7.38E-03	**5.00E-01**	**7.10E-01**	YES	YES
06	Benzo(a)pyrene	2.70E-04		2.66E-02		2.69E-02		**3.00E-02**		YES	
07	Benzene	5.60E+00	4.36E+00	7.00E-04	9.00E-05	5.60E+00	4.36E+00	**2.70E+01**	**2.90E+01**	YES	YES
08	Toluene	1.40E+01	1.19E+01	8.30E-04	1.00E-04	1.40E+01	1.19E+01	**1.50E+04**	**3.75E+03**	YES	YES
09	Ethylbenzene	6.50E+00	3.22E+00	9.60E-04	1.20E-04	6.50E+00	3.22E+00	**8.67E+04**	**2.17E+04**	YES	YES
10	Xylenes (Total)	2.17E+01	1.16E+01	2.87E-03	3.60E-04	2.17E+01	1.16E+01	**7.37E+03**	**8.82E+03**	YES	YES
11	Acenaphthylene	3.22E-02		5.66E-03		3.78E-02		**1.00E+00**		YES	
12	Acenaphthene	3.73E-02		1.25E-03		3.86E-02		**1.00E+00**		YES	
13	Fluorene	6.18E-03		3.19E-03		9.37E-03		**1.00E+01**		YES	
14	Chrysene	1.21E-03	1.08E-03	1.59E-02	2.01E-03	1.71E-02	3.09E-03	**3.60E-01**	**2.40E-01**	YES	YES
15	Benzo(a)anthracene	5.63E-04	4.96E-04	2.08E-02	2.63E-03	2.14E-02	3.13E-03	**5.00E-01**	**3.60E-01**	YES	YES
16	Benzo(b)fluoranthene	5.73E-04		2.20E-02		2.25E-02		**3.60E-01**		YES	
17	Benzo(k)fluoranthene	2.26E-04		1.90E-02		1.92E-02		**5.00E-01**		YES	
18	Dibenzo(a,h)anthracene	3.77E-05		7.10E-03		7.14E-03		**5.00E-01**		YES	
19	Indeno(1,2,3-cd)pyrene	5.16E-04		1.18E-02		1.23E-02		**5.00E-01**		YES	
20	Benzo(g,h,i)perylene	6.96E-04		1.60E-02		1.67E-02		**5.00E-01**		YES	

Results on Option A, Part 3

		Background		Project Contribution		Cumulative Concentration		Criteria		Meet Criteria ?	
		Hourly	Daily	Max Hourly	Max Daily	Max Hourly	Max Daily	Hourly	Daily	Hourly	Daily
ID	Pollutant	(µg/m3)	(µg/m3)	(µg/m3)	(µg/m3)	(µg/m3)	(µg/m3)	(µg/m3)	(µg/m3)	YES/NO?	YES/NO?
01	Naphthalene	1.40E+01	9.80E+00	1.92E-03	1.50E-04	1.40E+01	9.80E+00	**5.00E+02**	**2.25E+01**	YES	YES
02	Phenanthrene	2.57E-02	2.08E-02	3.29E-03	2.90E-04	2.90E-02	2.11E-02	**5.00E-01**	**7.10E-01**	YES	YES
03	Anthracene	1.26E-03		2.44E-03		3.70E-03		**5.00E-01**		YES	
04	Fluoranthene	4.03E-03		4.63E-03		8.66E-03		**5.00E-01**		YES	
05	Pyrene	4.09E-03	3.34E-03	4.82E-03	3.80E-04	8.91E-03	3.72E-03	**5.00E-01**	**7.10E-01**	YES	YES
06	Benzo(a)pyrene	2.70E-04		5.00E-03		5.27E-03		**3.00E-02**		YES	
07	Benzene	5.60E+00	4.36E+00	6.60E-04	5.00E-05	5.60E+00	4.36E+00	**2.70E+01**	**2.90E+01**	YES	YES
08	Toluene	1.40E+01	1.19E+01	1.03E-03	8.00E-05	1.40E+01	1.19E+01	**1.50E+04**	**3.75E+03**	YES	YES
09	Ethylbenzene	6.50E+00	3.22E+00	1.19E-03	1.00E-04	6.50E+00	3.22E+00	**8.67E+04**	**2.17E+04**	YES	YES
10	Xylenes (Total)	2.17E+01	1.16E+01	4.09E-03	3.20E-04	2.17E+01	1.16E+01	**7.37E+03**	**8.82E+03**	YES	YES
11	Acenaphthylene	3.22E-02		1.98E-03		3.41E-02		**1.00E+00**		YES	
12	Acenaphthene	3.73E-02		1.90E-03		3.92E-02		**1.00E+00**		YES	
13	Fluorene	6.18E-03		2.15E-03		8.33E-03		**1.00E+01**		YES	
14	Chrysene	1.21E-03	1.08E-03	3.96E-03	3.10E-04	5.17E-03	1.39E-03	**3.60E-01**	**2.40E-01**	YES	YES
15	Benzo(a)anthracene	5.63E-04	4.96E-04	3.56E-03	2.80E-04	4.12E-03	7.76E-04	**5.00E-01**	**3.60E-01**	YES	YES
16	Benzo(b)fluoranthene	5.73E-04		6.92E-03		7.49E-03		**3.60E-01**		YES	
17	Benzo(k)fluoranthene	2.26E-04		2.91E-03		3.14E-03		**5.00E-01**		YES	
18	Dibenzo(a,h)anthracene	3.77E-05		4.02E-03		4.06E-03		**5.00E-01**		YES	
19	Indeno(1,2,3-cd)pyrene	5.16E-04		4.70E-03		5.22E-03		**5.00E-01**		YES	
20	Benzo(g,h,i)perylene	6.96E-04		4.76E-03		5.46E-03		**5.00E-01**		YES	

Results on Hydrocarbons (HC)

Hourly and Daily Results

= From Background Concentration
= From Max. Project Contribution
= Used in Non-Criteria Non-Carcinogenic Health Risk

Results on Option B, Part 1

		Background		Project Contribution		Cumulative Concentration		Criteria		Meet Criteria ?	
		Hourly	Daily	Max Hourly	Max Daily	Max Hourly	Max Daily	Hourly	Daily	Hourly	Daily
ID	Pollutant	(µg/m3)	(µg/m3)	(µg/m3)	(µg/m3)	(µg/m3)	(µg/m3)	(µg/m3)	(µg/m3)	YES/NO?	YES/NO?
01	Naphthalene	1.40E+01	9.80E+00	8.30E-04	9.00E-05	1.40E+01	9.80E+00	5.00E+02	2.25E+01	YES	YES
02	Phenanthrene	2.57E-02	2.08E-02	5.25E-03	5.80E-04	3.10E-02	2.14E-02	5.00E-01	7.10E-01	YES	YES
03	Anthracene	1.26E-03		3.45E-03		4.71E-03		5.00E-01		YES	
04	Fluoranthene	4.03E-03		2.17E-02		2.58E-02		5.00E-01		YES	
05	Pyrene	4.09E-03	3.34E-03	2.63E-02	2.89E-03	3.04E-02	6.23E-03	5.00E-01	7.10E-01	YES	YES
06	Benzo(a)pyrene	2.70E-04		2.53E-02		2.56E-02		3.00E-02		YES	
07	Benzene	5.60E+00	4.36E+00	4.20E-04	5.00E-05	5.60E+00	4.36E+00	2.70E+01	2.90E+01	YES	YES
08	Toluene	1.40E+01	1.19E+01	5.00E-04	6.00E-05	1.40E+01	1.19E+01	1.50E+04	3.75E+03	YES	YES
09	Ethylbenzene	6.50E+00	3.22E+00	5.80E-04	6.00E-05	6.50E+00	3.22E+00	8.67E+04	2.17E+04	YES	YES
10	Xylenes (Total)	2.17E+01	1.16E+01	1.76E-03	1.90E-04	2.17E+01	1.16E+01	7.37E+03	8.82E+03	YES	YES
11	Acenaphthylene	3.22E-02		4.90E-03		3.71E-02		1.00E+00		YES	
12	Acenaphthene	3.73E-02		1.28E-03		3.86E-02		1.00E+00		YES	
13	Fluorene	6.18E-03		1.54E-03		7.72E-03		1.00E+01		YES	
14	Chrysene	1.21E-03	1.08E-03	1.34E-02	1.48E-03	1.46E-02	2.56E-03	3.60E-01	2.40E-01	YES	YES
15	Benzo(a)anthracene	5.63E-04	4.96E-04	1.13E-02	1.25E-03	1.19E-02	1.75E-03	5.00E-01	3.60E-01	YES	YES
16	Benzo(b)fluoranthene	5.73E-04		2.55E-02		2.61E-02		3.60E-01		YES	
17	Benzo(k)fluoranthene	2.26E-04		1.20E-02		1.22E-02		5.00E-01		YES	
18	Dibenzo(a,h)anthracene	3.77E-05		4.85E-03		4.89E-03		5.00E-01		YES	
19	Indeno(1,2,3-cd)pyrene	5.16E-04		9.55E-03		1.01E-02		5.00E-01		YES	
20	Benzo(g,h,i)perylene	6.96E-04		1.17E-02		1.24E-02		5.00E-01		YES	

Results on Option B, Part 2

		Background		Project Contribution		Cumulative Concentration		Criteria		Meet Criteria ?	
		Hourly	Daily	Max Hourly	Max Daily	Max Hourly	Max Daily	Hourly	Daily	Hourly	Daily
ID	Pollutant	(µg/m3)	(µg/m3)	(µg/m3)	(µg/m3)	(µg/m3)	(µg/m3)	(µg/m3)	(µg/m3)	YES/NO?	YES/NO?
01	Naphthalene	1.40E+01	9.80E+00	9.20E-04	1.20E-04	1.40E+01	9.80E+00	5.00E+02	2.25E+01	YES	YES
02	Phenanthrene	2.57E-02	2.08E-02	1.45E-02	1.84E-03	4.03E-02	2.26E-02	5.00E-01	7.10E-01	YES	YES
03	Anthracene	1.26E-03		6.69E-03		7.95E-03		5.00E-01		YES	
04	Fluoranthene	4.03E-03		2.83E-02		3.23E-02		5.00E-01		YES	
05	Pyrene	4.09E-03	3.34E-03	3.52E-02	4.45E-03	3.93E-02	7.79E-03	5.00E-01	7.10E-01	YES	YES
06	Benzo(a)pyrene	2.70E-04		2.94E-02		2.96E-02		3.00E-02		YES	
07	Benzene	5.60E+00	4.36E+00	7.80E-04	1.00E-04	5.60E+00	4.36E+00	2.70E+01	2.90E+01	YES	YES
08	Toluene	1.40E+01	1.19E+01	9.10E-04	1.20E-04	1.40E+01	1.19E+01	1.50E+04	3.75E+03	YES	YES
09	Ethylbenzene	6.50E+00	3.22E+00	1.05E-03	1.30E-04	6.50E+00	3.22E+00	8.67E+04	2.17E+04	YES	YES
10	Xylenes (Total)	2.17E+01	1.16E+01	3.16E-03	4.00E-04	2.17E+01	1.16E+01	7.37E+03	8.82E+03	YES	YES
11	Acenaphthylene	3.22E-02		6.24E-03		3.84E-02		1.00E+00		YES	
12	Acenaphthene	3.73E-02		1.38E-03		3.87E-02		1.00E+00		YES	
13	Fluorene	6.18E-03		3.52E-03		9.70E-03		1.00E+01		YES	
14	Chrysene	1.21E-03	1.08E-03	1.75E-02	2.21E-03	1.87E-02	3.29E-03	3.60E-01	2.40E-01	YES	YES
15	Benzo(a)anthracene	5.63E-04	4.96E-04	2.29E-02	2.90E-03	2.35E-02	3.40E-03	5.00E-01	3.60E-01	YES	YES
16	Benzo(b)fluoranthene	5.73E-04		2.42E-02		2.48E-02		3.60E-01		YES	
17	Benzo(k)fluoranthene	2.26E-04		2.09E-02		2.12E-02		5.00E-01		YES	
18	Dibenzo(a,h)anthracene	3.77E-05		7.82E-03		7.86E-03		5.00E-01		YES	
19	Indeno(1,2,3-cd)pyrene	5.16E-04		1.30E-02		1.35E-02		5.00E-01		YES	
20	Benzo(g,h,i)perylene	6.96E-04		1.76E-02		1.83E-02		5.00E-01		YES	

Results on Option B, Part 3

		Background		Project Contribution		Cumulative Concentration		Criteria		Meet Criteria ?	
		Hourly	Daily	Max Hourly	Max Daily	Max Hourly	Max Daily	Hourly	Daily	Hourly	Daily
ID	Pollutant	(µg/m3)	(µg/m3)	(µg/m3)	(µg/m3)	(µg/m3)	(µg/m3)	(µg/m3)	(µg/m3)	YES/NO?	YES/NO?
01	Naphthalene	1.40E+01	9.80E+00	1.61E-03	1.00E-04	1.40E+01	9.80E+00	5.00E+02	2.25E+01	YES	YES
02	Phenanthrene	2.57E-02	2.08E-02	2.75E-03	2.00E-04	2.85E-02	2.10E-02	5.00E-01	7.10E-01	YES	YES
03	Anthracene	1.26E-03		2.04E-03		3.30E-03		5.00E-01		YES	
04	Fluoranthene	4.03E-03		3.88E-03		7.91E-03		5.00E-01		YES	
05	Pyrene	4.09E-03	3.34E-03	4.03E-03	2.40E-04	8.12E-03	3.58E-03	5.00E-01	7.10E-01	YES	YES
06	Benzo(a)pyrene	2.70E-04		4.18E-03		4.45E-03		3.00E-02		YES	
07	Benzene	5.60E+00	4.36E+00	5.50E-04	3.00E-05	5.60E+00	4.36E+00	2.70E+01	2.90E+01	YES	YES
08	Toluene	1.40E+01	1.19E+01	8.60E-04	5.00E-05	1.40E+01	1.19E+01	1.50E+04	3.75E+03	YES	YES
09	Ethylbenzene	6.50E+00	3.22E+00	1.00E-03	6.00E-05	6.50E+00	3.22E+00	8.67E+04	2.17E+04	YES	YES
10	Xylenes (Total)	2.17E+01	1.16E+01	3.42E-03	2.10E-04	2.17E+01	1.16E+01	7.37E+03	8.82E+03	YES	YES
11	Acenaphthylene	3.22E-02		1.66E-03		3.38E-02		1.00E+00		YES	
12	Acenaphthene	3.73E-02		1.59E-03		3.89E-02		1.00E+00		YES	
13	Fluorene	6.18E-03		1.80E-03		7.98E-03		1.00E+01		YES	
14	Chrysene	1.21E-03	1.08E-03	3.31E-03	2.00E-04	4.52E-03	1.28E-03	3.60E-01	2.40E-01	YES	YES
15	Benzo(a)anthracene	5.63E-04	4.96E-04	2.97E-03	1.80E-04	3.53E-03	6.76E-04	5.00E-01	3.60E-01	YES	YES
16	Benzo(b)fluoranthene	5.73E-04		5.79E-03		6.36E-03		3.60E-01		YES	
17	Benzo(k)fluoranthene	2.26E-04		2.43E-03		2.66E-03		5.00E-01		YES	
18	Dibenzo(a,h)anthracene	3.77E-05		3.36E-03		3.40E-03		5.00E-01		YES	
19	Indeno(1,2,3-cd)pyrene	5.16E-04		3.93E-03		4.45E-03		5.00E-01		YES	
20	Benzo(g,h,i)perylene	6.96E-04		3.98E-03		4.68E-03		5.00E-01		YES	

Results on Hydrocarbons (HC)

Hourly and Daily Results = From Background Concentration; = From Max. Project Contribution; = Used in Non-Criteria Non-Carcinogenic Health Risk

Results on Option C, Part 1

		Background		Project Contribution		Cumulative Concentration		Criteria		Meet Criteria ?	
		Hourly	Daily	Max Hourly	Max Daily	Max Hourly	Max Daily	Hourly	Daily	Hourly	Daily
ID	Pollutant	(µg/m3)	(µg/m3)	(µg/m3)	(µg/m3)	(µg/m3)	(µg/m3)	(µg/m3)	(µg/m3)	YES/NO?	YES/NO?
01	Naphthalene	1.40E+01	9.80E+00	9.40E-04	1.00E-04	1.40E+01	9.80E+00	**5.00E+02**	**2.25E+01**	YES	YES
02	Phenanthrene	2.57E-02	2.08E-02	6.61E-03	7.70E-04	3.24E-02	2.16E-02	**5.00E-01**	**7.10E-01**	YES	YES
03	Anthracene	1.26E-03		4.13E-03		5.39E-03		**5.00E-01**		YES	
04	Fluoranthene	4.03E-03		2.51E-02		2.91E-02		**5.00E-01**		YES	
05	Pyrene	4.09E-03	3.34E-03	3.04E-02	3.23E-03	3.45E-02	6.57E-03	**5.00E-01**	**7.10E-01**	YES	YES
06	Benzo(a)pyrene	2.70E-04		2.89E-02		2.92E-02		**3.00E-02**		YES	
07	Benzene	5.60E+00	4.36E+00	5.00E-04	5.00E-05	5.60E+00	4.36E+00	**2.70E+01**	**2.90E+01**	YES	YES
08	Toluene	1.40E+01	1.19E+01	6.00E-04	6.00E-05	1.40E+01	1.19E+01	**1.50E+04**	**3.75E+03**	YES	YES
09	Ethylbenzene	6.50E+00	3.22E+00	6.90E-04	7.00E-05	6.50E+00	3.22E+00	**8.67E+04**	**2.17E+04**	YES	YES
10	Xylenes (Total)	2.17E+01	1.16E+01	2.08E-03	2.20E-04	2.17E+01	1.16E+01	**7.37E+03**	**8.82E+03**	YES	YES
11	Acenaphthylene	3.22E-02		5.64E-03		3.78E-02		**1.00E+00**		YES	
12	Acenaphthene	3.73E-02		1.45E-03		3.88E-02		**1.00E+00**		YES	
13	Fluorene	6.18E-03		1.89E-03		8.07E-03		**1.00E+01**		YES	
14	Chrysene	1.21E-03	1.08E-03	1.55E-02	1.65E-03	1.67E-02	2.73E-03	**3.60E-01**	**2.40E-01**	YES	YES
15	Benzo(a)anthracene	5.63E-04	4.96E-04	1.37E-02	1.45E-03	1.42E-02	1.95E-03	**5.00E-01**	**3.60E-01**	YES	YES
16	Benzo(b)fluoranthene	5.73E-04		2.88E-02		2.94E-02		**3.60E-01**		YES	
17	Benzo(k)fluoranthene	2.26E-04		1.42E-02		1.45E-02		**5.00E-01**		YES	
18	Dibenzo(a,h)anthracene	3.77E-05		5.69E-03		5.73E-03		**5.00E-01**		YES	
19	Indeno(1,2,3-cd)pyrene	5.16E-04		1.11E-02		1.16E-02		**5.00E-01**		YES	
20	Benzo(g,h,i)perylene	6.96E-04		1.37E-02		1.43E-02		**5.00E-01**		YES	

Results on Hydrocarbons (HC)

Annual Results

= From Background Concentration
= From Max. Project Contribution
= Used in Non-Criteria Non-Carcinogenic Health Risk

Results on Option A, Part 1

		Background		Project Contribution		Cumulative Concentration		Criteria		Meet Criteria ?	
		Annual		Max Annual		Max Annual		Annual		Annual	
ID	Pollutant	(µg/m3)		(µg/m3)		(µg/m3)		(µg/m3)		YES/NO?	
01	Naphthalene	4.23E-01		0.00E+00		4.23E-01		1.00E+01		YES	
02	Phenanthrene	1.32E-02		8.00E-05		1.33E-02		5.00E-02		YES	
03	Anthracene	4.48E-04		2.50E-04		6.98E-04		5.00E-02		YES	
04	Fluoranthene	2.00E-03		9.60E-04		2.96E-03		5.00E-02		YES	
05	Pyrene	2.04E-03		1.60E-04		2.20E-03		5.00E-02		YES	
06	Benzo(a)pyrene	5.45E-05		1.50E-04		2.04E-04		3.00E-04		YES	
07	Benzene	1.19E+00		0.00E+00		1.19E+00		3.00E+01		YES	
08	Toluene	4.22E+00		0.00E+00		4.22E+00		5.00E+03		YES	
09	Ethylbenzene	9.97E-01		0.00E+00		9.97E-01		1.00E+03		YES	
10	Xylenes (Total)	3.68E+00		1.00E-05		3.68E+00		1.00E+02		YES	
11	Acenaphthylene	4.84E-03		3.00E-05		4.87E-03		1.00E-01		YES	
12	Acenaphthene	8.91E-03		1.00E-05		8.92E-03		1.00E-01		YES	
13	Fluorene	2.20E-03		1.00E-05		2.21E-03		1.00E+00		YES	
14	Chrysene	5.44E-04		8.00E-05		6.24E-04		5.00E-02		YES	
15	Benzo(a)anthracene	2.20E-04		7.00E-05		2.90E-04		5.00E-02		YES	
16	Benzo(b)fluoranthene	1.09E-04		1.50E-04		2.59E-04		5.00E-02		YES	
17	Benzo(k)fluoranthene	4.62E-05		7.00E-05		1.16E-04		5.00E-02		YES	
18	Dibenzo(a,h)anthracene	9.53E-06		3.00E-05		3.95E-05		5.00E-02		YES	
19	Indeno(1,2,3-cd)pyrene	8.97E-05		6.00E-05		1.50E-04		5.00E-02		YES	
20	Benzo(g,h,i)perylene	1.22E-04		7.00E-05		1.92E-04		5.00E-02		YES	

Results on Option A, Part 2

		Background		Project Contribution		Cumulative Concentration		Criteria		Meet Criteria ?	
		Annual		Max Annual		Max Annual		Annual		Annual	
ID	Pollutant	(µg/m3)		(µg/m3)		(µg/m3)		(µg/m3)		YES/NO?	
01	Naphthalene	4.23E-01		1.00E-05		4.23E-01		1.00E+01		YES	
02	Phenanthrene	1.32E-02		1.40E-04		1.33E-02		5.00E-02		YES	
03	Anthracene	4.48E-04		2.10E-04		6.58E-04		5.00E-02		YES	
04	Fluoranthene	2.00E-03		5.50E-04		2.55E-03		5.00E-02		YES	
05	Pyrene	2.04E-03		2.40E-04		2.28E-03		5.00E-02		YES	
06	Benzo(a)pyrene	5.45E-05		2.00E-04		2.54E-04		3.00E-04		YES	
07	Benzene	1.19E+00		1.00E-05		1.19E+00		3.00E+01		YES	
08	Toluene	4.22E+00		1.00E-05		4.22E+00		5.00E+03		YES	
09	Ethylbenzene	9.97E-01		1.00E-05		9.97E-01		1.00E+03		YES	
10	Xylenes (Total)	3.68E+00		2.00E-05		3.68E+00		1.00E+02		YES	
11	Acenaphthylene	4.84E-03		4.00E-05		4.88E-03		1.00E-01		YES	
12	Acenaphthene	8.91E-03		1.00E-05		8.92E-03		1.00E-01		YES	
13	Fluorene	2.20E-03		2.00E-05		2.22E-03		1.00E+00		YES	
14	Chrysene	5.44E-04		1.20E-04		6.64E-04		5.00E-02		YES	
15	Benzo(a)anthracene	2.20E-04		1.60E-04		3.80E-04		5.00E-02		YES	
16	Benzo(b)fluoranthene	1.09E-04		1.70E-04		2.79E-04		5.00E-02		YES	
17	Benzo(k)fluoranthene	4.62E-05		1.50E-04		1.96E-04		5.00E-02		YES	
18	Dibenzo(a,h)anthracene	9.53E-06		5.00E-05		5.95E-05		5.00E-02		YES	
19	Indeno(1,2,3-cd)pyrene	8.97E-05		9.00E-05		1.80E-04		5.00E-02		YES	
20	Benzo(g,h,i)perylene	1.22E-04		1.20E-04		2.42E-04		5.00E-02		YES	

Results on Option A, Part 3

		Background		Project Contribution		Cumulative Concentration		Criteria		Meet Criteria ?	
		Annual		Max Annual		Max Annual		Annual		Annual	
ID	Pollutant	(µg/m3)		(µg/m3)		(µg/m3)		(µg/m3)		YES/NO?	
01	Naphthalene	4.23E-01		0.00E+00		4.23E-01		1.00E+01		YES	
02	Phenanthrene	1.32E-02		3.00E-05		1.32E-02		5.00E-02		YES	
03	Anthracene	4.48E-04		1.30E-04		5.78E-04		5.00E-02		YES	
04	Fluoranthene	2.00E-03		1.50E-04		2.15E-03		5.00E-02		YES	
05	Pyrene	2.04E-03		1.00E-05		2.05E-03		5.00E-02		YES	
06	Benzo(a)pyrene	5.45E-05		1.00E-05		6.45E-05		3.00E-04		YES	
07	Benzene	1.19E+00		0.00E+00		1.19E+00		3.00E+01		YES	
08	Toluene	4.22E+00		0.00E+00		4.22E+00		5.00E+03		YES	
09	Ethylbenzene	9.97E-01		1.00E-05		9.97E-01		1.00E+03		YES	
10	Xylenes (Total)	3.68E+00		1.00E-05		3.68E+00		1.00E+02		YES	
11	Acenaphthylene	4.84E-03		0.00E+00		4.84E-03		1.00E-01		YES	
12	Acenaphthene	8.91E-03		0.00E+00		8.91E-03		1.00E-01		YES	
13	Fluorene	2.20E-03		0.00E+00		2.20E-03		1.00E+00		YES	
14	Chrysene	5.44E-04		1.00E-05		5.54E-04		5.00E-02		YES	
15	Benzo(a)anthracene	2.20E-04		1.00E-05		2.30E-04		5.00E-02		YES	
16	Benzo(b)fluoranthene	1.09E-04		2.00E-05		1.29E-04		5.00E-02		YES	
17	Benzo(k)fluoranthene	4.62E-05		1.00E-05		5.62E-05		5.00E-02		YES	
18	Dibenzo(a,h)anthracene	9.53E-06		1.00E-05		1.95E-05		5.00E-02		YES	
19	Indeno(1,2,3-cd)pyrene	8.97E-05		1.00E-05		9.97E-05		5.00E-02		YES	
20	Benzo(g,h,i)perylene	1.22E-04		1.00E-05		1.32E-04		5.00E-02		YES	

Results on Hydrocarbons (HC) **Annual Results**

= From Background Concentration
= From Max. Project Contribution
= Used in Non-Criteria Non-Carcinogenic Health Risk

Results on Option B, Part 1

		Background		Project Contribution		Cumulative Concentration		Criteria		Meet Criteria ?	
		Annual		Max Annual		Max Annual		Annual		Annual	
ID	Pollutant	(µg/m3)		(µg/m3)		(µg/m3)		(µg/m3)		YES/NO?	
01	Naphthalene	4.23E-01		0.00E+00		4.23E-01		1.00E+01		YES	
02	Phenanthrene	1.32E-02		8.00E-05		1.33E-02		5.00E-02		YES	
03	Anthracene	4.48E-04		2.60E-04		7.08E-04		5.00E-02		YES	
04	Fluoranthene	2.00E-03		9.60E-04		2.96E-03		5.00E-02		YES	
05	Pyrene	2.04E-03		1.40E-04		2.18E-03		5.00E-02		YES	
06	Benzo(a)pyrene	5.45E-05		1.30E-04		1.84E-04		3.00E-04		YES	
07	Benzene	1.19E+00		0.00E+00		1.19E+00		3.00E+01		YES	
08	Toluene	4.22E+00		0.00E+00		4.22E+00		5.00E+03		YES	
09	Ethylbenzene	9.97E-01		1.00E-05		9.97E-01		1.00E+03		YES	
10	Xylenes (Total)	3.68E+00		1.00E-05		3.68E+00		1.00E+02		YES	
11	Acenaphthylene	4.84E-03		3.00E-05		4.87E-03		1.00E-01		YES	
12	Acenaphthene	8.91E-03		1.00E-05		8.92E-03		1.00E-01		YES	
13	Fluorene	2.20E-03		1.00E-05		2.21E-03		1.00E+00		YES	
14	Chrysene	5.44E-04		7.00E-05		6.14E-04		5.00E-02		YES	
15	Benzo(a)anthracene	2.20E-04		6.00E-05		2.80E-04		5.00E-02		YES	
16	Benzo(b)fluoranthene	1.09E-04		1.40E-04		2.49E-04		5.00E-02		YES	
17	Benzo(k)fluoranthene	4.62E-05		6.00E-05		1.06E-04		5.00E-02		YES	
18	Dibenzo(a,h)anthracene	9.53E-06		3.00E-05		3.95E-05		5.00E-02		YES	
19	Indeno(1,2,3-cd)pyrene	8.97E-05		5.00E-05		1.40E-04		5.00E-02		YES	
20	Benzo(g,h,i)perylene	1.22E-04		6.00E-05		1.82E-04		5.00E-02		YES	

Results on Option B, Part 2

		Background		Project Contribution		Cumulative Concentration		Criteria		Meet Criteria ?	
		Annual		Max Annual		Max Annual		Annual		Annual	
ID	Pollutant	(µg/m3)		(µg/m3)		(µg/m3)		(µg/m3)		YES/NO?	
01	Naphthalene	4.23E-01		1.00E-05		4.23E-01		1.00E+01		YES	
02	Phenanthrene	1.32E-02		1.40E-04		1.33E-02		5.00E-02		YES	
03	Anthracene	4.48E-04		2.10E-04		6.58E-04		5.00E-02		YES	
04	Fluoranthene	2.00E-03		5.50E-04		2.55E-03		5.00E-02		YES	
05	Pyrene	2.04E-03		2.40E-04		2.28E-03		5.00E-02		YES	
06	Benzo(a)pyrene	5.45E-05		2.00E-04		2.54E-04		3.00E-04		YES	
07	Benzene	1.19E+00		1.00E-05		1.19E+00		3.00E+01		YES	
08	Toluene	4.22E+00		1.00E-05		4.22E+00		5.00E+03		YES	
09	Ethylbenzene	9.97E-01		1.00E-05		9.97E-01		1.00E+03		YES	
10	Xylenes (Total)	3.68E+00		2.00E-05		3.68E+00		1.00E+02		YES	
11	Acenaphthylene	4.84E-03		4.00E-05		4.88E-03		1.00E-01		YES	
12	Acenaphthene	8.91E-03		1.00E-05		8.92E-03		1.00E-01		YES	
13	Fluorene	2.20E-03		2.00E-05		2.22E-03		1.00E+00		YES	
14	Chrysene	5.44E-04		1.20E-04		6.64E-04		5.00E-02		YES	
15	Benzo(a)anthracene	2.20E-04		1.60E-04		3.80E-04		5.00E-02		YES	
16	Benzo(b)fluoranthene	1.09E-04		1.70E-04		2.79E-04		5.00E-02		YES	
17	Benzo(k)fluoranthene	4.62E-05		1.50E-04		1.96E-04		5.00E-02		YES	
18	Dibenzo(a,h)anthracene	9.53E-06		5.00E-05		5.95E-05		5.00E-02		YES	
19	Indeno(1,2,3-cd)pyrene	8.97E-05		9.00E-05		1.80E-04		5.00E-02		YES	
20	Benzo(g,h,i)perylene	1.22E-04		1.20E-04		2.42E-04		5.00E-02		YES	

Results on Option B, Part 3

		Background		Project Contribution		Cumulative Concentration		Criteria		Meet Criteria ?	
		Annual		Max Annual		Max Annual		Annual		Annual	
ID	Pollutant	(µg/m3)		(µg/m3)		(µg/m3)		(µg/m3)		YES/NO?	
01	Naphthalene	4.23E-01		0.00E+00		4.23E-01		1.00E+01		YES	
02	Phenanthrene	1.32E-02		3.00E-05		1.32E-02		5.00E-02		YES	
03	Anthracene	4.48E-04		1.30E-04		5.78E-04		5.00E-02		YES	
04	Fluoranthene	2.00E-03		1.50E-04		2.15E-03		5.00E-02		YES	
05	Pyrene	2.04E-03		1.00E-05		2.05E-03		5.00E-02		YES	
06	Benzo(a)pyrene	5.45E-05		1.00E-05		6.45E-05		3.00E-04		YES	
07	Benzene	1.19E+00		0.00E+00		1.19E+00		3.00E+01		YES	
08	Toluene	4.22E+00		0.00E+00		4.22E+00		5.00E+03		YES	
09	Ethylbenzene	9.97E-01		0.00E+00		9.97E-01		1.00E+03		YES	
10	Xylenes (Total)	3.68E+00		1.00E-05		3.68E+00		1.00E+02		YES	
11	Acenaphthylene	4.84E-03		0.00E+00		4.84E-03		1.00E-01		YES	
12	Acenaphthene	8.91E-03		0.00E+00		8.91E-03		1.00E-01		YES	
13	Fluorene	2.20E-03		0.00E+00		2.20E-03		1.00E+00		YES	
14	Chrysene	5.44E-04		1.00E-05		5.54E-04		5.00E-02		YES	
15	Benzo(a)anthracene	2.20E-04		1.00E-05		2.30E-04		5.00E-02		YES	
16	Benzo(b)fluoranthene	1.09E-04		1.00E-05		1.19E-04		5.00E-02		YES	
17	Benzo(k)fluoranthene	4.62E-05		1.00E-05		5.62E-05		5.00E-02		YES	
18	Dibenzo(a,h)anthracene	9.53E-06		1.00E-05		1.95E-05		5.00E-02		YES	
19	Indeno(1,2,3-cd)pyrene	8.97E-05		1.00E-05		9.97E-05		5.00E-02		YES	
20	Benzo(g,h,i)perylene	1.22E-04		1.00E-05		1.32E-04		5.00E-02		YES	

Results on Hydrocarbons (HC) **Annual Results**

= From Background Concentration
= From Max. Project Contribution
= Used in Non-Criteria Non-Carcinogenic Health Risk

Results on Option C, Part 1

		Background		Project Contribution		Cumulative Concentration		Criteria		Meet Criteria ?	
		Annual		Max Annual		Max Annual		Annual		Annual	
ID	Pollutant	(µg/m3)		(µg/m3)		(µg/m3)		(µg/m3)		YES/NO?	
01	Naphthalene	4.23E-01		1.00E-05		4.23E-01		**1.00E+01**		YES	
02	Phenanthrene	1.32E-02		1.60E-04		1.33E-02		**5.00E-02**		YES	
03	Anthracene	4.48E-04		3.70E-04		8.18E-04		**5.00E-02**		YES	
04	Fluoranthene	2.00E-03		1.15E-03		3.15E-03		**5.00E-02**		YES	
05	Pyrene	2.04E-03		2.30E-04		2.27E-03		**5.00E-02**		YES	
06	Benzo(a)pyrene	5.45E-05		2.00E-04		2.54E-04		**3.00E-04**		YES	
07	Benzene	1.19E+00		1.00E-05		1.19E+00		**3.00E+01**		YES	
08	Toluene	4.22E+00		1.00E-05		4.22E+00		**5.00E+03**		YES	
09	Ethylbenzene	9.97E-01		1.00E-05		9.97E-01		**1.00E+03**		YES	
10	Xylenes (Total)	3.68E+00		2.00E-05		3.68E+00		**1.00E+02**		YES	
11	Acenaphthylene	4.84E-03		4.00E-05		4.88E-03		**1.00E-01**		YES	
12	Acenaphthene	8.91E-03		1.00E-05		8.92E-03		**1.00E-01**		YES	
13	Fluorene	2.20E-03		2.00E-05		2.22E-03		**1.00E+00**		YES	
14	Chrysene	5.44E-04		1.20E-04		6.64E-04		**5.00E-02**		YES	
15	Benzo(a)anthracene	2.20E-04		1.40E-04		3.60E-04		**5.00E-02**		YES	
16	Benzo(b)fluoranthene	1.09E-04		1.80E-04		2.89E-04		**5.00E-02**		YES	
17	Benzo(k)fluoranthene	4.62E-05		1.30E-04		1.76E-04		**5.00E-02**		YES	
18	Dibenzo(a,h)anthracene	9.53E-06		5.00E-05		5.95E-05		**5.00E-02**		YES	
19	Indeno(1,2,3-cd)pyrene	8.97E-05		9.00E-05		1.80E-04		**5.00E-02**		YES	
20	Benzo(g,h,i)perylene	1.22E-04		1.10E-04		2.32E-04		**5.00E-02**		YES	

AERMOD Model Results on Hydrocarbons (HC) **Option A, Part 1** **Hourly** = Used in Calculation on Project Contribution

Hourly		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20
		Naphthalene	Phenanthrer	Anthracene	Fluoranthen	Pyrene	Benzo(a)pyr	Benzene	Toluene	Ethylbenzen	Xylenes (Tot	Acenaphthy	Acenaphthe	Fluorene	Chrysene	Benzo(a)ant	Benzo(b)fluo	Benzo(k)fluo	Dibenzo(a,h)	Indeno(1,2,3	Benzo(g,h,i)perylene
Maximum Value		**9.30E-04**	**5.36E-03**	**3.52E-03**	**2.24E-02**	**2.72E-02**	**2.61E-02**	**4.20E-04**	**5.00E-04**	**5.70E-04**	**1.97E-03**	**5.03E-03**	**1.28E-03**	**1.55E-03**	**1.38E-02**	**1.17E-02**	**2.63E-02**	**1.24E-02**	**4.93E-03**	**9.79E-03**	**1.20E-02**
ASR_ID	**mAG**																				
KT-A1	1.5	6.20E-04	4.04E-03	2.65E-03	1.68E-02	2.04E-02	1.96E-02	3.20E-04	3.80E-04	4.40E-04	1.32E-03	3.78E-03	9.70E-04	1.18E-03	1.04E-02	8.76E-03	1.97E-02	9.28E-03	3.72E-03	7.36E-03	9.02E-03
KT-A1a	4	8.20E-04	5.36E-03	3.52E-03	2.24E-02	2.72E-02	2.61E-02	4.20E-04	5.00E-04	5.70E-04	1.72E-03	5.03E-03	1.28E-03	1.55E-03	1.38E-02	1.17E-02	2.63E-02	1.24E-02	4.93E-03	9.79E-03	1.20E-02
KT-A1b	8	7.70E-04	5.08E-03	3.33E-03	2.13E-02	2.58E-02	2.48E-02	4.00E-04	4.70E-04	5.40E-04	1.62E-03	4.77E-03	1.21E-03	1.47E-03	1.31E-02	1.11E-02	2.50E-02	1.18E-02	4.67E-03	9.28E-03	1.14E-02
KT-A1c	12	1.60E-04	1.02E-03	6.70E-04	4.23E-03	5.12E-03	4.92E-03	8.00E-05	1.00E-04	1.10E-04	3.30E-04	9.50E-04	2.40E-04	3.00E-04	2.61E-03	2.20E-03	4.97E-03	2.34E-03	9.30E-04	1.85E-03	2.27E-03
KT-A1d	16	1.10E-04	7.10E-04	4.70E-04	2.96E-03	3.58E-03	3.44E-03	6.00E-05	7.00E-05	8.00E-05	2.30E-04	6.70E-04	1.70E-04	2.10E-04	1.83E-03	1.54E-03	3.47E-03	1.63E-03	6.60E-04	1.30E-03	1.59E-03
KT-A1e	20	8.00E-05	5.20E-04	3.40E-04	2.14E-03	2.59E-03	2.49E-03	4.00E-05	5.00E-05	6.00E-05	1.70E-04	4.80E-04	1.30E-04	1.50E-04	1.32E-03	1.12E-03	2.51E-03	1.18E-03	4.80E-04	9.40E-04	1.15E-03
KT-A1f	30	4.00E-05	2.40E-04	1.60E-04	9.60E-04	1.17E-03	1.12E-03	2.00E-05	2.00E-05	3.00E-05	9.00E-05	2.20E-04	6.00E-05	7.00E-05	6.00E-04	5.00E-04	1.13E-03	5.30E-04	2.20E-04	4.30E-04	5.20E-04
KT-A1g	40	4.00E-05	1.10E-04	7.00E-05	4.50E-04	5.40E-04	5.20E-04	1.00E-05	2.00E-05	2.00E-05	8.00E-05	1.00E-04	4.00E-05	4.00E-05	2.80E-04	2.40E-04	5.30E-04	2.50E-04	1.10E-04	2.00E-04	2.50E-04
KT-A1h	50	3.00E-05	5.00E-05	4.00E-05	2.00E-04	2.40E-04	2.40E-04	1.00E-05	2.00E-05	2.00E-05	6.00E-05	5.00E-05	3.00E-05	3.00E-05	1.30E-04	1.10E-04	2.40E-04	1.10E-04	6.00E-05	1.00E-04	1.20E-04
KT-A1i	60	2.00E-05	4.00E-05	3.00E-05	1.10E-04	1.30E-04	1.20E-04	1.00E-05	1.00E-05	1.00E-05	5.00E-05	3.00E-05	2.00E-05	2.00E-05	7.00E-05	6.00E-05	1.30E-04	6.00E-05	5.00E-05	5.00E-05	6.00E-05
KT-A1j	70	2.00E-05	3.00E-05	2.00E-05	6.00E-05	7.00E-05	7.00E-05	1.00E-05	1.00E-05	1.00E-05	3.00E-05	2.00E-05	2.00E-05	2.00E-05	4.00E-05	3.00E-05	7.00E-05	3.00E-05	3.00E-05	4.00E-05	4.00E-05
KT-A1k	80	1.00E-05	2.00E-05	1.00E-05	3.00E-05	4.00E-05	4.00E-05	0.00E+00	1.00E-05	1.00E-05	2.00E-05	1.00E-05	1.00E-05	1.00E-05	2.00E-05	2.00E-05	4.00E-05	2.00E-05	2.00E-05	3.00E-05	3.00E-05
KT-A1l	90	1.00E-05	1.00E-05	1.00E-05	2.00E-05	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	2.00E-05	1.00E-05	1.00E-05	1.00E-05	2.00E-05	1.00E-05	3.00E-05	1.00E-05	2.00E-05	2.00E-05	2.00E-05
KT-A1m	100	1.00E-05	1.00E-05	1.00E-05	2.00E-05	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	2.00E-05	1.00E-05	1.00E-05	2.00E-05	2.00E-05
KT-A2	1.5	7.60E-04	4.59E-03	3.02E-03	1.88E-02	2.27E-02	2.19E-02	3.80E-04	4.60E-04	5.30E-04	1.60E-03	4.26E-03	1.14E-03	1.38E-03	1.16E-02	9.83E-03	2.21E-02	1.04E-02	4.26E-03	8.32E-03	1.02E-02
KT-A2a	4	7.50E-04	4.52E-03	2.98E-03	1.85E-02	2.24E-02	2.16E-02	3.70E-04	4.50E-04	5.20E-04	1.58E-03	4.20E-03	1.13E-03	1.36E-03	1.15E-02	9.69E-03	2.18E-02	1.02E-02	4.20E-03	8.20E-03	1.00E-02
KT-A2b	8	6.70E-04	4.09E-03	2.69E-03	1.67E-02	2.03E-02	1.95E-02	3.40E-04	4.10E-04	4.70E-04	1.43E-03	3.79E-03	1.02E-03	1.23E-03	1.04E-02	8.75E-03	1.97E-02	9.25E-03	3.79E-03	7.41E-03	9.05E-03
KT-A2c	12	2.70E-04	1.47E-03	9.70E-04	5.87E-03	7.10E-03	6.82E-03	1.30E-04	1.60E-04	1.80E-04	5.70E-04	1.34E-03	3.90E-04	4.60E-04	3.65E-03	3.09E-03	6.92E-03	3.25E-03	1.38E-03	2.64E-03	3.21E-03
KT-A2d	16	1.40E-04	7.30E-04	4.90E-04	2.89E-03	3.49E-03	3.36E-03	6.00E-05	8.00E-05	9.00E-05	2.90E-04	6.70E-04	2.00E-04	2.30E-04	1.80E-03	1.53E-03	3.42E-03	1.60E-03	6.90E-04	1.31E-03	1.59E-03
KT-A2e	20	7.00E-05	4.30E-04	2.90E-04	1.79E-03	2.16E-03	2.08E-03	4.00E-05	4.00E-05	5.00E-05	1.60E-04	4.00E-04	1.10E-04	1.30E-04	1.11E-03	9.30E-04	2.10E-03	9.90E-04	4.00E-04	7.90E-04	9.60E-04
KT-A2f	30	4.00E-05	2.40E-04	1.60E-04	9.80E-04	1.18E-03	1.14E-03	2.00E-05	2.00E-05	3.00E-05	9.00E-05	2.20E-04	6.00E-05	7.00E-05	6.10E-04	5.10E-04	1.15E-03	5.40E-04	2.20E-04	4.30E-04	5.30E-04
KT-A2g	40	2.00E-05	1.30E-04	9.00E-05	5.30E-04	6.40E-04	6.10E-04	1.00E-05	1.00E-05	2.00E-05	5.00E-05	1.20E-04	4.00E-05	4.00E-05	3.30E-04	2.80E-04	6.20E-04	2.90E-04	1.30E-04	2.40E-04	2.90E-04
KT-A2h	50	2.00E-05	7.00E-05	5.00E-05	2.80E-04	3.30E-04	3.20E-04	1.00E-05	1.00E-05	1.00E-05	4.00E-05	6.00E-05	2.00E-05	2.00E-05	1.70E-04	1.50E-04	3.30E-04	1.50E-04	7.00E-05	1.30E-04	1.60E-04
KT-A2i	60	1.00E-05	4.00E-05	3.00E-05	1.50E-04	1.80E-04	1.80E-04	0.00E+00	1.00E-05	1.00E-05	3.00E-05	4.00E-05	1.00E-05	2.00E-05	1.00E-04	8.00E-05	1.80E-04	8.00E-05	4.00E-05	7.00E-05	9.00E-05
KT-A2j	70	1.00E-05	3.00E-05	2.00E-05	9.00E-05	1.00E-04	1.00E-04	0.00E+00	1.00E-05	1.00E-05	2.00E-05	2.00E-05	1.00E-05	1.00E-05	6.00E-05	5.00E-05	1.00E-04	5.00E-05	3.00E-05	4.00E-05	5.00E-05
KT-A2k	80	1.00E-05	2.00E-05	1.00E-05	5.00E-05	6.00E-05	6.00E-05	0.00E+00	0.00E+00	0.00E+00	2.00E-05	1.00E-05	1.00E-05	1.00E-05	3.00E-05	3.00E-05	6.00E-05	3.00E-05	2.00E-05	3.00E-05	3.00E-05
KT-A2l	90	1.00E-05	1.00E-05	1.00E-05	3.00E-05	3.00E-05	3.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	2.00E-05	2.00E-05	4.00E-05	2.00E-05	1.00E-05	2.00E-05	2.00E-05
KT-A2m	100	1.00E-05	1.00E-05	1.00E-05	2.00E-05	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	3.00E-05	1.00E-05	1.00E-05	1.00E-05	2.00E-05
KT-A2n	110	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	2.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05
KT-A2o	120	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	2.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05
KT-A2p	130	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05	1.00E-05	2.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05
KT-A2q	140	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	2.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05
KT-A2r	150	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	2.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05
KT-A2s	160	0.00E+00	1.00E-05	0.00E+00	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05
KT-A2t	170	0.00E+00	1.00E-05	0.00E+00	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05
KT-A2u	180	0.00E+00	1.00E-05	0.00E+00	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05	1.00E-05
KT-A3	1.5	3.40E-04	2.30E-03	1.51E-03	9.65E-03	1.17E-02	1.12E-02	1.80E-04	2.10E-04	2.40E-04	7.30E-04	2.16E-03	5.50E-04	6.60E-04	5.95E-03	5.02E-03	1.13E-02	5.33E-03	2.11E-03	4.20E-03	5.16E-03
KT-A3a	4	3.20E-04	2.12E-03	1.39E-03	8.89E-03	1.08E-02	1.03E-02	1.60E-04	1.90E-04	2.20E-04	6.70E-04	1.99E-03	5.00E-04	6.10E-04	5.48E-03	4.62E-03	1.04E-02	4.90E-03	1.94E-03	3.87E-03	4.75E-03
KT-A3b	8	2.40E-04	1.61E-03	1.05E-03	6.74E-03	8.16E-03	7.84E-03	1.20E-04	1.50E-04	1.70E-04	5.10E-04	1.51E-03	3.80E-04	4.60E-04	4.15E-03	3.50E-03	7.90E-03	3.72E-03	1.47E-03	2.93E-03	3.60E-03
KT-A3c	12	1.20E-04	8.00E-04	5.30E-04	3.37E-03	4.09E-03	3.92E-03	6.00E-05	7.00E-05	8.00E-05	2.50E-04	7.60E-04	1.90E-04	2.30E-04	2.08E-03	1.75E-03	3.96E-03	1.86E-03	7.40E-04	1.47E-03	1.80E-03
KT-A3d	16	7.00E-05	4.90E-04	3.20E-04	2.06E-03	2.50E-03	2.40E-03	4.00E-05	5.00E-05	5.00E-05	1.60E-04	4.60E-04	1.20E-04	1.40E-04	1.27E-03	1.07E-03	2.42E-03	1.14E-03	4.50E-04	9.00E-04	1.10E-03
KT-A3e	20	6.00E-05	3.80E-04	2.50E-04	1.60E-03	1.94E-03	1.87E-03	3.00E-05	4.00E-05	4.00E-05	1.20E-04	3.60E-04	9.00E-05	1.10E-04	9.90E-04	8.30E-04	1.88E-03	8.80E-04	3.50E-04	7.00E-04	8.60E-04
KT-A3f	30	3.00E-05	2.30E-04	1.50E-04	9.70E-04	1.18E-03	1.13E-03	2.00E-05	2.00E-05	2.00E-05	7.00E-05	2.20E-04	6.00E-05	7.00E-05	6.00E-04	5.10E-04	1.14E-03	5.40E-04	2.10E-04	4.20E-04	5.20E-04
KT-A3g	40	2.00E-05	1.60E-04	1.10E-04	6.80E-04	8.30E-04	8.00E-04	1.00E-05	1.00E-05	2.00E-05	5.00E-05	1.50E-04	4.00E-05	5.00E-05	4.20E-04	3.60E-04	8.00E-04	3.80E-04	1.50E-04	3.00E-04	3.70E-04
KT-A3h	50	2.00E-05	1.10E-04	7.00E-05	4.70E-04	5.70E-04	5.40E-04	1.00E-05	1.00E-05	1.00E-05	4.00E-05	1.00E-04	3.00E-05	3.00E-05	2.90E-04	2.40E-04	5.50E-04	2.60E-04	1.00E-04	2.00E-04	2.50E-04
KT-A3i	60	1.00E-05	8.00E-05	5.00E-05	3.20E-04	3.90E-04	3.70E-04	1.00E-05	1.00E-05	1.00E-05	2.00E-05	7.00E-05	2.00E-05	2.00E-05	2.00E-04	1.70E-04	3.70E-04	1.80E-04	7.00E-05	1.40E-04	1.70E-04
KT-A3j	70	1.00E-05	5.00E-05	4.00E-05	2.30E-04	2.70E-04	2.60E-04	0.00E+00	1.00E-05	1.00E-05	2.00E-05	5.00E-05	1.00E-05	2.00E-05	1.40E-04	1.20E-04	2.70E-04	1.30E-04	5.00E-05	1.00E-04	1.20E-04
KT-A3k	80	1.00E-05	4.00E-05	3.00E-05	1.80E-04	2.20E-04	2.10E-04	0.00E+00	1.00E-05	1.00E-05	2.00E-05	4.00E-05	1.00E-05	1.00E-05	1.10E-04	9.00E-05	2.10E-04	1.00E-04	4.00E-05	8.00E-05	1.00E-04
KT-A3l	90	1.00E-05	3.00E-05	2.00E-05	1.40E-04	1.70E-04	1.60E-04	0.00E+00	0.00E+00	1.00E-05	2.00E-05	3.00E-05	1.00E-05	1.00E-05	9.00E-05	7.00E-05	1.70E-04	8.00E-05	3.00E-05	6.00E-05	8.00E-05
KT-A3m	100	1.00E-05	3.00E-05	2.00E-05	1.10E-04	1.30E-04	1.30E-04	0.00E+00	0.00E+00	1.00E-05	2.00E-05	2.00E-05	1.00E-05	1.00E-05	7.00E-05	6.00E-05	1.30E-04	6.00E-05	2.00E-05	5.00E-05	6.00E-05
KT-A4	1.5	2.80E-04	4.70E-04	3.50E-04	1.68E-03	2.03E-03	1.95E-03	9.00E-05	1.50E-04	1.70E-04	5.90E-04	3.80E-04	2.70E-04	3.10E-04	1.03E-03	8.70E-04	1.97E-03	9.30E-04	5.80E-04	7.30E-04	9.00E-04
KT-A4a	4	2.40E-04	4.10E-04	3.10E-04	1.47E-03	1.78E-03	1.71E-03	8.00E-05	1.30E-04	1.50E-04	5.10E-04	3.30E-04	2.40E-04	2.70E-04	9.00E-04	7.60E-04	1.72E-03	8.10E-04	5.00E-04	6.40E-04	7.80E-04
KT-A4b	8	1.80E-04	3.10E-04	2.30E-04	1.01E-03	1.22E-03	1.17E-03	6.00E-05	1.00E-04	1.10E-04	3.90E-04	2.30E-04	1.80E-04	2.10E-04	6.20E-04	5.20E-04	1.18E-03	5.60E-04	3.80E-04	4.50E-04	5.40E-04
KT-A4c	12	1.30E-04	2.30E-04	1.70E-04	6.80E-04	8.30E-04	8.00E-04	5.00E-05	7.00E-05	8.00E-05	2.80E-04	1.50E-04	1.30E-04	1.50E-04	4.20E-04	3.60E-04	8.00E-04	3.80E-04	2.80E-04	3.20E-04	3.70E-04
KT-A4d	16	9.00E-05	1.60E-04	1.20E-04	6.30E-04	7.60E-04	7.30E-04	3.00E-05	5.00E-05	6.00E-05	2.00E-04	1.40E-04	9.00E-05	1.00E-04	3.90E-04	3.30E-04	7.40E-04	3.50E-04	1.90E-04	2.70E-04	3.40E-04
KT-A4e	20	6.00E-05	1.30E-04	9.00E-05	5.70E-04	6.80E-04	6.60E-04	2.00E-05	3.00E-05	4.00E-05	1.30E-04	1.30E-04	6.00E-05	7.00E-05	3.50E-04	2.90E-04	6.60E-04	3.10E-04	1.30E-04	2.50E-04	3.00E-04

AERMOD Model Results on Hydrocarbons (HC) **Option A, Part 1** **Hourly** = Used in Calculation on Project Contribution

Hourly		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20
		Naphthalene	Phenanthrer	Anthracene	Fluoranthen	Pyrene	Benzo(a)pyr	Benzene	Toluene	Ethylbenzen	Xylenes (Tot	Acenaphthy	Acenaphthe	Fluorene	Chrysene	Benzo(a)ant	Benzo(b)fluo	Benzo(k)fluo	Dibenzo(a,h)	Indeno(1,2,3	Benzo(g,h,i)perylene
Maximum Value		**9.30E-04**	**5.36E-03**	**3.52E-03**	**2.24E-02**	**2.72E-02**	**2.61E-02**	**4.20E-04**	**5.00E-04**	**5.70E-04**	**1.97E-03**	**5.03E-04**	**1.28E-03**	**1.55E-03**	**1.38E-02**	**1.17E-02**	**2.63E-02**	**1.24E-02**	**4.93E-03**	**9.79E-03**	**1.20E-02**
ASR_ID	**mAG**																				
KT-A4f	30	4.00E-05	1.10E-04	7.00E-05	4.50E-04	5.50E-04	5.30E-04	1.00E-05	2.00E-05	2.00E-05	8.00E-05	1.00E-04	4.00E-05	4.00E-05	2.80E-04	2.40E-04	5.30E-04	2.50E-04	1.00E-04	2.00E-04	2.40E-04
KT-A4g	40	3.00E-05	8.00E-05	5.00E-05	3.40E-04	4.10E-04	3.90E-04	1.00E-05	2.00E-05	2.00E-05	6.00E-05	8.00E-05	3.00E-05	3.00E-05	2.10E-04	1.80E-04	4.00E-04	1.90E-04	7.00E-05	1.50E-04	1.80E-04
KT-A4h	50	2.00E-05	6.00E-05	4.00E-05	2.30E-04	2.80E-04	2.70E-04	1.00E-05	1.00E-05	2.00E-05	5.00E-05	5.00E-05	2.00E-05	3.00E-05	1.40E-04	1.20E-04	2.70E-04	1.30E-04	5.00E-05	1.00E-04	1.20E-04
KT-A4i	60	2.00E-05	4.00E-05	3.00E-05	1.80E-04	2.20E-04	2.10E-04	1.00E-05	1.00E-05	1.00E-05	4.00E-05	4.00E-05	2.00E-05	2.00E-05	1.10E-04	9.00E-05	2.10E-04	1.00E-04	4.00E-05	8.00E-05	1.00E-04
KT-A4j	70	2.00E-05	4.00E-05	3.00E-05	1.60E-04	2.00E-04	1.90E-04	1.00E-05	1.00E-05	1.00E-05	3.00E-05	4.00E-05	2.00E-05	2.00E-05	1.00E-04	8.00E-05	1.90E-04	9.00E-05	4.00E-05	7.00E-05	9.00E-05
KT-A4k	80	1.00E-05	4.00E-05	2.00E-05	1.50E-04	1.80E-04	1.70E-04	0.00E+00	1.00E-05	1.00E-05	3.00E-05	3.00E-05	1.00E-05	1.00E-05	9.00E-05	8.00E-05	1.70E-04	8.00E-05	3.00E-05	6.00E-05	8.00E-05
KT-A4l	90	1.00E-05	3.00E-05	2.00E-05	1.30E-04	1.60E-04	1.50E-04	0.00E+00	1.00E-05	1.00E-05	2.00E-05	3.00E-05	1.00E-05	1.00E-05	8.00E-05	7.00E-05	1.50E-04	7.00E-05	3.00E-05	6.00E-05	7.00E-05
KT-A4m	100	1.00E-05	3.00E-05	2.00E-05	1.20E-04	1.40E-04	1.40E-04	0.00E+00	0.00E+00	1.00E-05	2.00E-05	3.00E-05	1.00E-05	1.00E-05	7.00E-05	6.00E-05	1.40E-04	6.00E-05	3.00E-05	5.00E-05	6.00E-05
KT-A4n	110	1.00E-05	2.00E-05	2.00E-05	1.00E-04	1.30E-04	1.20E-04	0.00E+00	0.00E+00	0.00E+00	2.00E-05	2.00E-05	1.00E-05	1.00E-05	6.00E-05	5.00E-05	1.20E-04	6.00E-05	2.00E-05	5.00E-05	6.00E-05
KT-A4o	120	1.00E-05	2.00E-05	1.00E-05	9.00E-05	1.10E-04	1.10E-04	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05	1.00E-05	1.00E-05	6.00E-05	5.00E-05	1.10E-04	5.00E-05	2.00E-05	4.00E-05	5.00E-05
KT-A5	1.5	3.80E-04	6.60E-04	5.10E-04	1.04E-03	1.22E-03	1.19E-03	1.30E-04	2.10E-04	2.40E-04	8.20E-04	4.00E-04	3.80E-04	4.30E-04	7.90E-04	7.10E-04	1.39E-03	5.90E-04	8.00E-04	9.40E-04	9.50E-04
KT-A5a	4	3.70E-04	6.30E-04	4.80E-04	1.08E-03	1.29E-03	1.24E-03	1.30E-04	2.00E-04	2.30E-04	7.90E-04	3.80E-04	3.70E-04	4.10E-04	7.60E-04	6.80E-04	1.33E-03	6.00E-04	7.70E-04	9.00E-04	9.20E-04
KT-A5b	8	2.20E-04	3.70E-04	3.60E-04	1.14E-03	1.38E-03	1.32E-03	7.00E-05	1.20E-04	1.30E-04	4.60E-04	2.60E-04	2.10E-04	2.40E-04	7.10E-04	6.00E-04	1.34E-03	6.30E-04	4.50E-04	5.30E-04	6.20E-04
KT-A5c	12	1.50E-04	2.60E-04	2.00E-04	1.07E-03	1.30E-03	1.25E-03	5.00E-05	8.00E-05	1.00E-04	3.30E-04	2.40E-04	1.50E-04	1.70E-04	6.60E-04	5.60E-04	1.26E-03	5.90E-04	3.20E-04	4.70E-04	5.80E-04
KT-A5d	16	1.30E-04	2.20E-04	1.60E-04	8.60E-04	1.05E-03	1.00E-03	4.00E-05	7.00E-05	8.00E-05	2.80E-04	1.90E-04	1.30E-04	1.50E-04	5.30E-04	4.50E-04	1.01E-03	4.80E-04	2.70E-04	3.80E-04	4.60E-04
KT-A5e	20	1.10E-04	1.90E-04	1.40E-04	5.70E-04	6.90E-04	6.60E-04	4.00E-05	6.00E-05	7.00E-05	2.30E-04	1.30E-04	1.10E-04	1.20E-04	3.50E-04	2.90E-04	6.60E-04	3.10E-04	2.30E-04	2.70E-04	3.00E-04
KT-A6	1.5	5.00E-04	8.60E-04	6.40E-04	1.26E-03	1.53E-03	1.47E-03	1.70E-04	2.70E-04	3.10E-04	1.07E-03	5.20E-04	5.00E-04	5.60E-04	1.03E-03	9.30E-04	1.81E-03	7.60E-04	1.05E-03	1.23E-03	1.24E-03
KT-A6a	4	5.80E-04	9.90E-04	7.30E-04	1.50E-03	1.82E-03	1.75E-03	2.00E-04	3.10E-04	3.60E-04	1.23E-03	6.00E-04	5.70E-04	6.50E-04	1.19E-03	1.07E-03	2.08E-03	8.70E-04	1.21E-03	1.41E-03	1.43E-03
KT-A6b	8	4.10E-04	7.10E-04	5.20E-04	1.69E-03	2.04E-03	1.96E-03	1.40E-04	2.20E-04	2.60E-04	8.80E-04	4.30E-04	4.10E-04	4.60E-04	1.04E-03	8.80E-04	1.98E-03	9.30E-04	8.60E-04	1.01E-03	1.02E-03
KT-A6c	12	1.70E-04	3.60E-04	2.40E-04	1.50E-03	1.82E-03	1.75E-03	6.00E-05	9.00E-05	1.10E-04	3.70E-04	3.40E-04	1.70E-04	1.90E-04	9.30E-04	7.80E-04	1.76E-03	8.30E-04	3.60E-04	6.50E-04	8.00E-04
KT-A7	1.5	1.60E-04	2.70E-04	2.20E-04	1.12E-03	1.35E-03	1.30E-03	5.00E-05	8.00E-05	1.00E-04	3.30E-04	2.50E-04	1.50E-04	1.70E-04	6.90E-04	5.80E-04	1.31E-03	6.20E-04	3.20E-04	4.90E-04	6.00E-04
KT-A7a	4	1.90E-04	3.30E-04	2.40E-04	9.50E-04	1.15E-03	1.10E-03	7.00E-05	1.00E-04	1.20E-04	4.10E-04	2.10E-04	1.90E-04	2.10E-04	5.80E-04	4.90E-04	1.11E-03	5.20E-04	4.00E-04	4.70E-04	5.10E-04
KT-A7b	8	1.60E-04	2.70E-04	2.00E-04	6.60E-04	7.90E-04	7.60E-04	5.00E-05	9.00E-05	1.00E-04	3.40E-04	1.60E-04	1.60E-04	1.80E-04	4.00E-04	3.40E-04	7.70E-04	3.60E-04	3.30E-04	3.90E-04	3.90E-04
KT-A7c	12	8.00E-05	1.40E-04	1.00E-04	4.70E-04	5.70E-04	5.50E-04	3.00E-05	4.00E-05	5.00E-05	1.70E-04	1.10E-04	8.00E-05	9.00E-05	2.90E-04	2.40E-04	5.50E-04	2.60E-04	1.70E-04	2.00E-04	2.50E-04
KT-A7d	16	7.00E-05	1.20E-04	9.00E-05	4.40E-04	5.30E-04	5.10E-04	2.00E-05	4.00E-05	4.00E-05	1.50E-04	1.00E-04	7.00E-05	8.00E-05	2.70E-04	2.30E-04	5.10E-04	2.40E-04	1.50E-04	1.90E-04	2.30E-04
KT-A7e	20	6.00E-05	1.10E-04	8.00E-05	3.90E-04	4.80E-04	4.60E-04	2.00E-05	3.00E-05	4.00E-05	1.30E-04	9.00E-05	6.00E-05	7.00E-05	2.40E-04	2.00E-04	4.60E-04	2.20E-04	1.30E-04	1.70E-04	2.10E-04
KT-A8	1.5	1.50E-04	3.40E-04	2.40E-04	8.10E-04	9.30E-04	9.20E-04	5.00E-05	8.00E-05	9.00E-05	3.20E-04	2.50E-04	1.60E-04	1.80E-04	5.80E-04	5.00E-04	1.06E-03	4.70E-04	3.80E-04	5.40E-04	5.90E-04
KT-A8a	4	1.90E-04	4.20E-04	3.00E-04	9.80E-04	1.11E-03	1.10E-03	7.00E-05	1.00E-04	1.20E-04	3.90E-04	3.00E-04	2.00E-04	2.20E-04	7.00E-04	6.10E-04	1.27E-03	5.70E-04	4.70E-04	6.50E-04	7.20E-04
KT-A8b	8	2.00E-04	4.70E-04	3.40E-04	1.12E-03	1.29E-03	1.27E-03	7.00E-05	1.10E-04	1.30E-04	4.40E-04	3.40E-04	2.20E-04	2.50E-04	8.00E-04	6.90E-04	1.46E-03	6.50E-04	5.30E-04	7.40E-04	8.10E-04
KT-A8c	12	1.70E-04	4.10E-04	2.90E-04	1.05E-03	1.21E-03	1.19E-03	6.00E-05	9.00E-05	1.10E-04	3.60E-04	3.10E-04	1.80E-04	2.10E-04	7.30E-04	6.30E-04	1.34E-03	6.00E-04	4.60E-04	6.60E-04	7.30E-04
KT-A8d	16	1.10E-04	2.90E-04	2.00E-04	8.10E-04	9.50E-04	9.20E-04	4.00E-05	6.00E-05	7.00E-05	2.30E-04	2.20E-04	1.20E-04	1.40E-04	5.50E-04	4.70E-04	1.01E-03	4.60E-04	3.10E-04	4.70E-04	5.30E-04
KT-A8e	20	6.00E-05	1.60E-04	1.10E-04	5.60E-04	6.80E-04	6.50E-04	2.00E-05	3.00E-05	4.00E-05	1.20E-04	1.30E-04	6.00E-05	7.00E-05	3.50E-04	3.00E-04	6.70E-04	3.10E-04	1.60E-04	2.70E-04	3.20E-04
KT-A8f	30	5.00E-05	1.10E-04	8.00E-05	2.80E-04	3.30E-04	3.20E-04	2.00E-05	3.00E-05	3.00E-05	1.00E-04	8.00E-05	5.00E-05	6.00E-05	2.00E-04	1.70E-04	3.60E-04	1.60E-04	1.20E-04	1.80E-04	2.00E-04
KT-A8g	40	3.00E-05	9.00E-05	6.00E-05	2.50E-04	2.90E-04	2.80E-04	1.00E-05	2.00E-05	2.00E-05	7.00E-05	7.00E-05	4.00E-05	4.00E-05	1.70E-04	1.40E-04	3.10E-04	1.40E-04	9.00E-05	1.40E-04	1.60E-04
KT-A8h	50	2.00E-05	7.00E-05	5.00E-05	2.10E-04	2.50E-04	2.40E-04	1.00E-05	1.00E-05	1.00E-05	5.00E-05	5.00E-05	2.00E-05	3.00E-05	1.40E-04	1.20E-04	2.60E-04	1.20E-04	7.00E-05	1.10E-04	1.30E-04
KT-A8i	60	2.00E-05	5.00E-05	3.00E-05	1.80E-04	2.20E-04	2.10E-04	1.00E-05	1.00E-05	1.00E-05	4.00E-05	4.00E-05	2.00E-05	2.00E-05	1.20E-04	1.00E-04	2.20E-04	1.00E-04	5.00E-05	9.00E-05	1.00E-04
KT-A8j	70	1.00E-05	4.00E-05	3.00E-05	1.60E-04	1.90E-04	1.80E-04	1.00E-05	1.00E-05	1.00E-05	3.00E-05	4.00E-05	2.00E-05	2.00E-05	1.00E-04	8.00E-05	1.80E-04	9.00E-05	4.00E-05	7.00E-05	9.00E-05
KT-A8k	80	1.00E-05	3.00E-05	2.00E-05	1.30E-04	1.60E-04	1.60E-04	0.00E+00	1.00E-05	1.00E-05	2.00E-05	3.00E-05	1.00E-05	1.00E-05	8.00E-05	7.00E-05	1.60E-04	7.00E-05	3.00E-05	6.00E-05	7.00E-05
KT-A8l	90	1.00E-05	3.00E-05	2.00E-05	1.10E-04	1.40E-04	1.30E-04	0.00E+00	0.00E+00	1.00E-05	2.00E-05	3.00E-05	1.00E-05	1.00E-05	7.00E-05	6.00E-05	1.30E-04	6.00E-05	3.00E-05	5.00E-05	6.00E-05
KT-A8m	100	1.00E-05	2.00E-05	1.00E-05	9.00E-05	1.10E-04	1.10E-04	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05	1.00E-05	1.00E-05	6.00E-05	5.00E-05	1.10E-04	5.00E-05	2.00E-05	4.00E-05	5.00E-05
KT-A9	1.5	9.30E-04	1.58E-03	1.17E-03	2.23E-03	2.32E-03	2.41E-03	3.20E-04	5.00E-04	5.70E-04	1.97E-03	9.50E-04	9.20E-04	1.04E-03	1.91E-03	1.71E-03	3.33E-03	1.40E-03	1.94E-03	2.26E-03	2.29E-03
KT-A9a	4	9.00E-04	1.53E-03	1.14E-03	2.16E-03	2.25E-03	2.33E-03	3.10E-04	4.80E-04	5.60E-04	1.91E-03	9.20E-04	8.90E-04	1.01E-03	1.85E-03	1.66E-03	3.23E-03	1.36E-03	1.88E-03	2.19E-03	2.22E-03
KT-A9b	8	6.80E-04	1.16E-03	8.60E-04	1.64E-03	1.70E-03	1.77E-03	2.30E-04	3.70E-04	4.20E-04	1.44E-03	7.00E-04	6.70E-04	7.60E-04	1.40E-03	1.26E-03	2.44E-03	1.03E-03	1.42E-03	1.66E-03	1.68E-03
KT-A10	1.5	2.30E-04	1.50E-03	9.90E-04	6.31E-03	7.65E-03	7.35E-03	1.20E-04	1.40E-04	1.60E-04	4.80E-04	1.41E-03	3.60E-04	4.30E-04	3.89E-03	3.28E-03	7.40E-03	3.48E-03	1.38E-03	2.75E-03	3.38E-03
KT-A10a	4	2.90E-04	1.94E-03	1.27E-03	8.14E-03	9.86E-03	9.47E-03	1.50E-04	1.80E-04	2.00E-04	6.10E-04	1.82E-03	4.60E-04	5.60E-04	5.02E-03	4.23E-03	9.55E-03	4.49E-03	1.78E-03	3.55E-03	4.35E-03
KT-A10b	8	2.20E-04	1.45E-03	9.50E-04	6.08E-03	7.37E-03	7.08E-03	1.10E-04	1.30E-04	1.50E-04	4.60E-04	1.36E-03	3.40E-04	4.20E-04	3.75E-03	3.16E-03	7.13E-03	3.36E-03	1.33E-03	2.65E-03	3.25E-03
KT-A10c	12	1.10E-04	7.20E-04	4.80E-04	3.04E-03	3.68E-03	3.54E-03	6.00E-05	7.00E-05	8.00E-05	2.30E-04	6.80E-04	1.70E-04	2.10E-04	1.87E-03	1.58E-03	3.56E-03	1.68E-03	6.60E-04	1.32E-03	1.63E-03
KT-A10d	16	8.00E-05	5.50E-04	3.60E-04	2.32E-03	2.81E-03	2.70E-03	4.00E-05	5.00E-05	6.00E-05	1.80E-04	5.20E-04	1.30E-04	1.60E-04	1.43E-03	1.21E-03	2.72E-03	1.28E-03	5.10E-04	1.01E-03	1.24E-03
KT-A10e	20	6.00E-05	4.20E-04	2.80E-04	1.78E-03	2.15E-03	2.07E-03	3.00E-05	4.00E-05	4.00E-05	1.30E-04	4.00E-04	1.00E-04	1.20E-04	1.10E-03	9.20E-04	2.08E-03	9.80E-04	3.90E-04	7.70E-04	9.50E-04
KT-A10f	30	3.00E-05	2.20E-04	1.40E-04	9.30E-04	1.12E-03	1.08E-03	2.00E-05	2.00E-05	2.00E-05	7.00E-05	2.10E-04	5.00E-05	6.00E-05	5.70E-04	4.80E-04	1.09E-03	5.10E-04	2.00E-04	4.00E-04	5.00E-04
KT-A10g	40	2.00E-05	1.60E-04	1.00E-04	6.50E-04	7.80E-04	7.50E-04	1.00E-05	1.00E-05	2.00E-05	5.00E-05	1.50E-04	4.00E-05	5.00E-05	4.00E-04	3.40E-04	7.60E-04	3.60E-04	1.40E-04	2.80E-04	3.50E-04
KT-A10h	50	2.00E-05	1.20E-04	8.00E-05	4.90E-04	5.90E-04	5.60E-04	1.00E-05	1.00E-05	1.00E-05	4.00E-05	1.10E-04	3.00E-05	3.00E-05	3.00E-04	2.50E-04	5.70E-04	2.70E-04	1.10E-04	2.10E-04	2.60E-04
KT-A10i	60	1.00E-05	9.00E-05	6.00E-05	3.50E-04	4.30E-04	4.10E-04	1.00E-05	1.00E-05	1.00E-05	3.00E-05	8.00E-05	2.00E-05	3.00E-05	2.20E-04	1.80E-04	4.20E-04	2.00E-04	8.00E-05	1.60E-04	1.90E-04
KT-A10j	70	1.00E-05	6.00E-05	4.00E-05	2.50E-04	3.00E-04	2.90E-04	0.00E+00	1.00E-05	1.00E-05	2.00E-05	6.00E-05	2.00E-05	2.00E-05	1.50E-04	1.30E-04	2.90E-04	1.40E-04	6.00E-05	1.10E-04	1.30E-04
KT-A10k	80	1.00E-05	4.00E-05	3.00E-05	1.80E-04	2.20E-04	2.10E-04	0.00E+00	0.00E+00	1.00E-05	2.00E-05	4.00E-05	1.00E-05	1.00E-05	1.10E-04	9.00E-05	2.10E-04	1.00E-04	4.00E-05	8.00E-05	1.00E-04
KT-A10l	90	1.00E-05	3.00E-05	2.00E-05	1.40E-04	1.70E-04	1.60E-04	0.00E+00	0.00E+00	0.00E+00	2.00E-05	3.00E-05	1.00E-05	1.00E-05	9.00E-05	7.00E-05	1.60E-04	8.00E-05	3.00E-05	6.00E-05	8.00E-05

AERMOD Model Results on Hydrocarbons (HC) **Option A, Part 1** **Hourly** = Used in Calculation on Project Contribution

Hourly		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20
		Naphthalene	Phenanthrer	Anthracene	Fluoranthen	Pyrene	Benzo(a)pyr	Benzene	Toluene	Ethylbenzen	Xylenes (Tot	Acenaphthy	Acenaphthe	Fluorene	Chrysene	Benzo(a)ant	Benzo(b)fluo	Benzo(k)fluo	Dibenzo(a,h	Indeno(1,2,3	Benzo(g,h,i)perylene
Maximum Value		**9.30E-04**	**5.36E-03**	**3.52E-03**	**2.24E-02**	**2.72E-02**	**2.61E-02**	**4.20E-04**	**5.00E-04**	**5.70E-04**	**1.97E-03**	**5.03E-04**	**1.28E-03**	**1.55E-03**	**1.38E-02**	**1.17E-02**	**2.63E-02**	**1.24E-02**	**4.93E-03**	**9.79E-03**	**1.20E-02**
ASR_ID	**mAG**																				
KT-A10m	100	1.00E-05	3.00E-05	2.00E-05	1.10E-04	1.30E-04	1.20E-04	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05	1.00E-05	1.00E-05	7.00E-05	6.00E-05	1.30E-04	6.00E-05	3.00E-05	5.00E-05	6.00E-05
KT-A10n	110	1.00E-05	2.00E-05	1.00E-05	8.00E-05	1.00E-04	9.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05	1.00E-05	1.00E-05	5.00E-05	4.00E-05	1.00E-04	5.00E-05	2.00E-05	4.00E-05	5.00E-05
KT-A10o	120	1.00E-05	2.00E-05	1.00E-05	6.00E-05	8.00E-05	7.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	4.00E-05	3.00E-05	7.00E-05	3.00E-05	2.00E-05	3.00E-05	4.00E-05
KT-A10p	130	0.00E+00	1.00E-05	1.00E-05	5.00E-05	6.00E-05	5.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	1.00E-05	3.00E-05	3.00E-05	6.00E-05	3.00E-05	1.00E-05	2.00E-05	3.00E-05
KT-A10q	140	0.00E+00	1.00E-05	1.00E-05	4.00E-05	4.00E-05	4.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	2.00E-05	2.00E-05	4.00E-05	2.00E-05	1.00E-05	2.00E-05	2.00E-05
P01	1.5	2.40E-04	8.20E-04	5.40E-04	3.44E-03	4.17E-03	4.01E-03	8.00E-05	1.30E-04	1.50E-04	5.10E-04	7.70E-04	2.40E-04	2.70E-04	2.12E-03	1.79E-03	4.04E-03	1.90E-03	7.50E-04	1.50E-03	1.84E-03
P02	1.5	2.80E-04	7.60E-04	5.00E-04	3.20E-03	3.88E-03	3.73E-03	1.00E-04	1.50E-04	1.70E-04	5.90E-04	7.20E-04	2.70E-04	3.10E-04	1.98E-03	1.67E-03	3.76E-03	1.77E-03	7.00E-04	1.40E-03	1.71E-03
P03	1.5	2.00E-04	9.70E-04	6.40E-04	4.07E-03	4.93E-03	4.74E-03	8.00E-05	1.10E-04	1.20E-04	4.30E-04	9.10E-04	2.30E-04	2.80E-04	2.51E-03	2.12E-03	4.78E-03	2.25E-03	8.90E-04	1.77E-03	2.18E-03
P04	1.5	2.40E-04	8.50E-04	5.60E-04	3.58E-03	4.34E-03	4.17E-03	8.00E-05	1.30E-04	1.50E-04	5.20E-04	8.00E-04	2.40E-04	2.70E-04	2.21E-03	1.86E-03	4.20E-03	1.98E-03	7.80E-04	1.56E-03	1.92E-03
P10	1.5	6.20E-04	4.13E-03	2.71E-03	1.73E-02	2.10E-02	2.02E-02	3.20E-04	3.80E-04	4.40E-04	1.31E-03	3.88E-03	9.80E-04	1.19E-03	1.07E-02	9.01E-03	2.03E-02	9.56E-03	3.79E-03	7.55E-03	9.26E-03
P11	1.5	2.40E-04	1.61E-03	1.06E-03	6.76E-03	8.19E-03	7.87E-03	1.30E-04	1.50E-04	1.70E-04	5.10E-04	1.51E-03	3.80E-04	4.60E-04	4.17E-03	3.51E-03	7.93E-03	3.73E-03	1.48E-03	2.94E-03	3.61E-03
P12	1.5	4.00E-04	2.65E-03	1.74E-03	1.11E-02	1.35E-02	1.29E-02	2.10E-04	2.40E-04	2.80E-04	8.40E-04	2.49E-03	6.30E-04	7.60E-04	6.84E-03	5.77E-03	1.30E-02	6.13E-03	2.43E-03	4.84E-03	5.94E-03
P13	1.5	5.50E-04	3.67E-03	2.41E-03	1.54E-02	1.87E-02	1.79E-02	2.90E-04	3.40E-04	3.90E-04	1.16E-03	3.45E-03	8.70E-04	1.05E-03	9.49E-03	8.01E-03	1.81E-02	8.50E-03	3.37E-03	6.71E-03	8.23E-03
P14	1.5	5.30E-04	3.54E-03	2.32E-03	1.49E-02	1.80E-02	1.73E-02	2.80E-04	3.20E-04	3.70E-04	1.12E-03	3.33E-03	8.40E-04	1.02E-03	9.16E-03	7.73E-03	1.74E-02	8.20E-03	3.25E-03	6.47E-03	7.95E-03
P15	1.5	4.80E-04	3.19E-03	2.09E-03	1.34E-02	1.62E-02	1.56E-02	2.50E-04	2.90E-04	3.40E-04	1.01E-03	3.00E-03	7.60E-04	9.20E-04	8.24E-03	6.95E-03	1.57E-02	7.38E-03	2.92E-03	5.82E-03	7.15E-03
P16	1.5	2.30E-04	1.54E-03	1.01E-03	6.45E-03	7.81E-03	7.50E-03	1.20E-04	1.40E-04	1.60E-04	4.90E-04	1.44E-03	3.60E-04	4.40E-04	3.97E-03	3.35E-03	7.56E-03	3.56E-03	1.41E-03	2.81E-03	3.45E-03

AERMOD Model Results on Hydrocarbons (HC) **Option A, Part 2** **Hourly** = Used in Calculation on Project Contribution

Hourly		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20
		Naphthalene	Phenanthrer	Anthracene	Fluoranthen	Pyrene	Benzo(a)pyr	Benzene	Toluene	Ethylbenzen	Xylenes (Tot	Acenaphthy	Acenaphthe	Fluorene	Chrysene	Benzo(a)ant	Benzo(b)fluo	Benzo(k)fluo	Dibenzo(a,h)	Indeno(1,2,3	Benzo(g,h,i)perylene
Maximum Value		8.40E-04	1.32E-02	6.07E-03	2.57E-02	3.19E-02	2.66E-02	7.00E-04	8.30E-04	9.60E-04	2.87E-03	5.66E-03	1.25E-03	3.19E-03	1.59E-02	2.08E-02	2.20E-02	1.90E-02	7.10E-03	1.18E-02	1.60E-02
ASR_ID	mAG																				
KT-A1	1.5	1.60E-04	2.51E-03	1.15E-03	4.88E-03	6.06E-03	5.06E-03	1.30E-04	1.60E-04	1.80E-04	5.50E-04	1.08E-03	2.40E-04	6.10E-04	3.02E-03	3.95E-03	4.17E-03	3.61E-03	1.35E-03	2.24E-03	3.03E-03
KT-A1a	4	1.70E-04	2.68E-03	1.23E-03	5.21E-03	6.48E-03	5.40E-03	1.40E-04	1.70E-04	1.90E-04	5.80E-04	1.15E-03	2.50E-04	6.50E-04	3.22E-03	4.22E-03	4.46E-03	3.86E-03	1.44E-03	2.40E-03	3.24E-03
KT-A1b	8	1.60E-04	2.46E-03	1.13E-03	4.79E-03	5.95E-03	4.96E-03	1.30E-04	1.50E-04	1.80E-04	5.40E-04	1.06E-03	2.30E-04	6.00E-04	2.96E-03	3.88E-03	4.10E-03	3.54E-03	1.32E-03	2.20E-03	2.97E-03
KT-A1c	12	1.20E-04	1.82E-03	8.40E-04	3.54E-03	4.40E-03	3.67E-03	1.00E-04	1.10E-04	1.30E-04	4.00E-04	7.80E-04	1.70E-04	4.40E-04	2.19E-03	2.87E-03	3.03E-03	2.62E-03	9.80E-04	1.63E-03	2.20E-03
KT-A1d	16	8.00E-05	1.22E-03	5.60E-04	2.38E-03	2.96E-03	2.47E-03	7.00E-05	8.00E-05	9.00E-05	2.70E-04	5.30E-04	1.20E-04	3.00E-04	1.47E-03	1.93E-03	2.04E-03	1.76E-03	6.60E-04	1.10E-03	1.48E-03
KT-A1e	20	7.00E-05	1.04E-03	4.80E-04	2.02E-03	2.51E-03	2.09E-03	6.00E-05	7.00E-05	8.00E-05	2.30E-04	4.40E-04	1.00E-04	2.50E-04	1.25E-03	1.63E-03	1.73E-03	1.49E-03	5.60E-04	9.30E-04	1.25E-03
KT-A1f	30	4.00E-05	6.60E-04	3.00E-04	1.28E-03	1.59E-03	1.32E-03	3.00E-05	4.00E-05	5.00E-05	1.40E-04	2.80E-04	6.00E-05	1.60E-04	7.90E-04	1.03E-03	1.09E-03	9.40E-04	3.50E-04	5.90E-04	7.90E-04
KT-A1g	40	3.00E-05	4.00E-04	1.80E-04	7.70E-04	9.60E-04	8.00E-04	2.00E-05	2.00E-05	3.00E-05	9.00E-05	1.70E-04	4.00E-05	1.00E-04	4.80E-04	6.30E-04	6.60E-04	5.70E-04	2.10E-04	3.50E-04	4.80E-04
KT-A1h	50	1.00E-05	2.30E-04	1.00E-04	4.40E-04	5.50E-04	4.60E-04	1.00E-05	1.00E-05	2.00E-05	5.00E-05	1.00E-04	2.00E-05	6.00E-05	2.70E-04	3.60E-04	3.80E-04	3.30E-04	1.20E-04	2.00E-04	2.80E-04
KT-A1i	60	1.00E-05	1.50E-04	7.00E-05	2.90E-04	3.60E-04	3.00E-04	1.00E-05	1.00E-05	1.00E-05	3.00E-05	6.00E-05	1.00E-05	4.00E-05	1.80E-04	2.40E-04	2.50E-04	2.10E-04	8.00E-05	1.30E-04	1.80E-04
KT-A1j	70	1.00E-05	1.30E-04	6.00E-05	2.60E-04	3.20E-04	2.70E-04	1.00E-05	1.00E-05	1.00E-05	3.00E-05	6.00E-05	1.00E-05	3.00E-05	1.60E-04	2.10E-04	2.20E-04	1.90E-04	7.00E-05	1.20E-04	1.60E-04
KT-A1k	80	1.00E-05	1.20E-04	5.00E-05	2.30E-04	2.90E-04	2.40E-04	1.00E-05	1.00E-05	1.00E-05	3.00E-05	5.00E-05	1.00E-05	3.00E-05	1.40E-04	1.90E-04	2.00E-04	1.70E-04	6.00E-05	1.10E-04	1.40E-04
KT-A1l	90	1.00E-05	1.00E-04	5.00E-05	2.00E-04	2.50E-04	2.10E-04	1.00E-05	1.00E-05	1.00E-05	2.00E-05	4.00E-05	1.00E-05	3.00E-05	1.30E-04	1.60E-04	1.70E-04	1.50E-04	6.00E-05	9.00E-05	1.30E-04
KT-A1m	100	1.00E-05	9.00E-05	4.00E-05	1.80E-04	2.20E-04	1.80E-04	0.00E+00	1.00E-05	1.00E-05	2.00E-05	4.00E-05	1.00E-05	2.00E-05	1.10E-04	1.40E-04	1.50E-04	1.30E-04	5.00E-05	8.00E-05	1.10E-04
KT-A2	1.5	1.30E-04	2.10E-03	9.70E-04	4.09E-03	5.08E-03	4.24E-03	1.10E-04	1.30E-04	1.50E-04	4.60E-04	9.00E-04	2.00E-04	5.10E-04	2.53E-03	3.32E-03	3.50E-03	3.03E-03	1.13E-03	1.88E-03	2.54E-03
KT-A2a	4	1.40E-04	2.27E-03	1.04E-03	4.41E-03	5.49E-03	4.58E-03	1.20E-04	1.40E-04	1.60E-04	4.90E-04	9.70E-04	2.20E-04	5.50E-04	2.73E-03	3.58E-03	3.78E-03	3.27E-03	1.22E-03	2.03E-03	2.74E-03
KT-A2b	8	1.40E-04	2.15E-03	9.90E-04	4.18E-03	5.20E-03	4.34E-03	1.10E-04	1.40E-04	1.60E-04	4.70E-04	9.20E-04	2.00E-04	5.20E-04	2.58E-03	3.39E-03	3.58E-03	3.09E-03	1.16E-03	1.92E-03	2.60E-03
KT-A2c	12	1.10E-04	1.66E-03	7.70E-04	3.24E-03	4.02E-03	3.36E-03	9.00E-05	1.00E-04	1.20E-04	3.60E-04	7.10E-04	1.60E-04	4.00E-04	2.00E-03	2.62E-03	2.77E-03	2.39E-03	8.90E-04	1.49E-03	2.01E-03
KT-A2d	16	7.00E-05	1.03E-03	4.70E-04	2.00E-03	2.49E-03	2.08E-03	5.00E-05	6.00E-05	7.00E-05	2.20E-04	4.40E-04	1.00E-04	2.50E-04	1.24E-03	1.62E-03	1.71E-03	1.48E-03	5.50E-04	9.20E-04	1.24E-03
KT-A2e	20	4.00E-05	6.60E-04	3.00E-04	1.28E-03	1.59E-03	1.33E-03	4.00E-05	4.00E-05	5.00E-05	1.40E-04	2.80E-04	6.00E-05	1.60E-04	7.90E-04	1.04E-03	1.09E-03	9.50E-04	3.50E-04	5.90E-04	7.90E-04
KT-A2f	30	3.00E-05	4.50E-04	2.10E-04	8.70E-04	1.08E-03	9.00E-04	2.00E-05	3.00E-05	3.00E-05	1.00E-04	1.90E-04	4.00E-05	1.10E-04	5.40E-04	7.00E-04	7.40E-04	6.40E-04	2.40E-04	4.00E-04	5.40E-04
KT-A2g	40	2.00E-05	2.90E-04	1.30E-04	5.70E-04	7.10E-04	5.90E-04	2.00E-05	2.00E-05	2.00E-05	6.00E-05	1.30E-04	3.00E-05	7.00E-05	3.50E-04	4.60E-04	4.90E-04	4.20E-04	1.60E-04	2.60E-04	3.50E-04
KT-A2h	50	1.00E-05	1.80E-04	8.00E-05	3.60E-04	4.50E-04	3.70E-04	1.00E-05	1.00E-05	1.00E-05	4.00E-05	8.00E-05	2.00E-05	4.00E-05	2.20E-04	2.90E-04	3.10E-04	2.70E-04	1.00E-04	1.60E-04	2.20E-04
KT-A2i	60	1.00E-05	1.30E-04	6.00E-05	2.50E-04	3.10E-04	2.60E-04	1.00E-05	1.00E-05	1.00E-05	3.00E-05	6.00E-05	1.00E-05	3.00E-05	1.60E-04	2.00E-04	2.20E-04	1.90E-04	7.00E-05	1.20E-04	1.60E-04
KT-A2j	70	1.00E-05	1.10E-04	5.00E-05	2.20E-04	2.70E-04	2.30E-04	1.00E-05	1.00E-05	1.00E-05	2.00E-05	5.00E-05	1.00E-05	3.00E-05	1.30E-04	1.80E-04	1.90E-04	1.60E-04	6.00E-05	1.00E-04	1.40E-04
KT-A2k	80	1.00E-05	1.00E-04	4.00E-05	1.90E-04	2.30E-04	1.90E-04	1.00E-05	1.00E-05	1.00E-05	2.00E-05	4.00E-05	1.00E-05	2.00E-05	1.20E-04	1.50E-04	1.60E-04	1.40E-04	5.00E-05	9.00E-05	1.20E-04
KT-A2l	90	1.00E-05	8.00E-05	4.00E-05	1.60E-04	2.00E-04	1.70E-04	0.00E+00	1.00E-05	1.00E-05	2.00E-05	4.00E-05	1.00E-05	2.00E-05	1.00E-04	1.30E-04	1.40E-04	1.20E-04	5.00E-05	8.00E-05	1.00E-04
KT-A2m	100	0.00E+00	8.00E-05	4.00E-05	1.50E-04	1.90E-04	1.60E-04	0.00E+00	0.00E+00	1.00E-05	2.00E-05	3.00E-05	1.00E-05	2.00E-05	9.00E-05	1.20E-04	1.30E-04	1.10E-04	4.00E-05	7.00E-05	9.00E-05
KT-A2n	110	0.00E+00	7.00E-05	3.00E-05	1.40E-04	1.70E-04	1.40E-04	0.00E+00	0.00E+00	1.00E-05	2.00E-05	3.00E-05	1.00E-05	2.00E-05	8.00E-05	1.10E-04	1.20E-04	1.00E-04	4.00E-05	6.00E-05	8.00E-05
KT-A2o	120	0.00E+00	6.00E-05	3.00E-05	1.20E-04	1.50E-04	1.30E-04	0.00E+00	0.00E+00	0.00E+00	1.00E-05	3.00E-05	1.00E-05	2.00E-05	8.00E-05	1.00E-04	1.00E-04	9.00E-05	3.00E-05	6.00E-05	8.00E-05
KT-A2p	130	0.00E+00	6.00E-05	3.00E-05	1.10E-04	1.30E-04	1.10E-04	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05	1.00E-05	1.00E-05	7.00E-05	9.00E-05	9.00E-05	8.00E-05	3.00E-05	5.00E-05	7.00E-05
KT-A2q	140	0.00E+00	5.00E-05	2.00E-05	1.00E-04	1.20E-04	1.00E-04	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05	0.00E+00	1.00E-05	6.00E-05	8.00E-05	8.00E-05	7.00E-05	3.00E-05	4.00E-05	6.00E-05
KT-A2r	150	0.00E+00	4.00E-05	2.00E-05	8.00E-05	1.00E-04	9.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05	0.00E+00	1.00E-05	5.00E-05	7.00E-05	7.00E-05	6.00E-05	2.00E-05	4.00E-05	5.00E-05
KT-A2s	160	0.00E+00	4.00E-05	2.00E-05	7.00E-05	9.00E-05	8.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05	0.00E+00	1.00E-05	5.00E-05	6.00E-05	6.00E-05	5.00E-05	2.00E-05	3.00E-05	5.00E-05
KT-A2t	170	0.00E+00	3.00E-05	2.00E-05	7.00E-05	8.00E-05	7.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	1.00E-05	4.00E-05	5.00E-05	6.00E-05	5.00E-05	2.00E-05	3.00E-05	4.00E-05
KT-A2u	180	0.00E+00	3.00E-05	1.00E-05	6.00E-05	7.00E-05	6.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	1.00E-05	4.00E-05	5.00E-05	5.00E-05	4.00E-05	2.00E-05	3.00E-05	4.00E-05
KT-A3	1.5	2.20E-04	3.40E-03	1.56E-03	6.62E-03	8.22E-03	6.86E-03	1.80E-04	2.10E-04	2.50E-04	7.40E-04	1.46E-03	3.20E-04	8.20E-04	4.09E-03	5.36E-03	5.66E-03	4.90E-03	1.83E-03	3.04E-03	4.11E-03
KT-A3a	4	1.90E-04	3.03E-03	1.40E-03	5.90E-03	7.34E-03	6.12E-03	1.60E-04	1.90E-04	2.20E-04	6.60E-04	1.30E-03	2.90E-04	7.30E-04	3.65E-03	4.78E-03	5.05E-03	4.37E-03	1.63E-03	2.72E-03	3.67E-03
KT-A3b	8	1.40E-04	2.18E-03	1.01E-03	4.25E-03	5.28E-03	4.41E-03	1.20E-04	1.40E-04	1.60E-04	4.80E-04	9.40E-04	2.10E-04	5.30E-04	2.63E-03	3.45E-03	3.64E-03	3.15E-03	1.18E-03	1.96E-03	2.64E-03
KT-A3c	12	9.00E-05	1.50E-03	6.90E-04	2.91E-03	3.62E-03	3.02E-03	8.00E-05	9.00E-05	1.10E-04	3.30E-04	6.40E-04	1.40E-04	3.60E-04	1.80E-03	2.36E-03	2.49E-03	2.15E-03	8.00E-04	1.34E-03	1.81E-03
KT-A3d	16	7.00E-05	1.15E-03	5.30E-04	2.24E-03	2.79E-03	2.33E-03	6.00E-05	7.00E-05	8.00E-05	2.50E-04	4.90E-04	1.10E-04	2.80E-04	1.39E-03	1.82E-03	1.92E-03	1.66E-03	6.20E-04	1.03E-03	1.39E-03
KT-A3e	20	6.00E-05	8.80E-04	4.00E-04	1.71E-03	2.13E-03	1.78E-03	5.00E-05	6.00E-05	6.00E-05	1.90E-04	3.80E-04	8.00E-05	2.10E-04	1.06E-03	1.39E-03	1.47E-03	1.27E-03	4.70E-04	7.90E-04	1.06E-03
KT-A3f	30	3.00E-05	4.30E-04	2.00E-04	8.40E-04	1.04E-03	8.70E-04	2.00E-05	3.00E-05	3.00E-05	9.00E-05	1.90E-04	4.00E-05	1.00E-04	5.20E-04	6.80E-04	7.20E-04	6.20E-04	2.30E-04	3.90E-04	5.20E-04
KT-A3g	40	2.00E-05	3.20E-04	1.50E-04	6.20E-04	7.70E-04	6.40E-04	2.00E-05	2.00E-05	2.00E-05	7.00E-05	1.40E-04	3.00E-05	8.00E-05	3.80E-04	5.00E-04	5.30E-04	4.60E-04	1.70E-04	2.90E-04	3.90E-04
KT-A3h	50	2.00E-05	2.60E-04	1.20E-04	5.10E-04	6.30E-04	5.20E-04	1.00E-05	2.00E-05	2.00E-05	6.00E-05	1.10E-04	2.00E-05	6.00E-05	3.10E-04	4.10E-04	4.30E-04	3.70E-04	1.40E-04	2.30E-04	3.10E-04
KT-A3i	60	1.00E-05	2.10E-04	1.00E-04	4.10E-04	5.00E-04	4.20E-04	1.00E-05	1.00E-05	2.00E-05	5.00E-05	9.00E-05	2.00E-05	5.00E-05	2.50E-04	3.30E-04	3.50E-04	3.00E-04	1.10E-04	1.90E-04	2.50E-04
KT-A3j	70	1.00E-05	1.60E-04	8.00E-05	3.20E-04	3.90E-04	3.30E-04	1.00E-05	1.00E-05	1.00E-05	4.00E-05	7.00E-05	2.00E-05	4.00E-05	2.00E-04	2.60E-04	2.70E-04	2.30E-04	9.00E-05	1.50E-04	2.00E-04
KT-A3k	80	1.00E-05	1.30E-04	6.00E-05	2.60E-04	3.20E-04	2.70E-04	1.00E-05	1.00E-05	1.00E-05	3.00E-05	6.00E-05	1.00E-05	3.00E-05	1.60E-04	2.10E-04	2.20E-04	1.90E-04	7.00E-05	1.20E-04	1.60E-04
KT-A3l	90	1.00E-05	1.10E-04	5.00E-05	2.10E-04	2.70E-04	2.20E-04	1.00E-05	1.00E-05	1.00E-05	2.00E-05	5.00E-05	1.00E-05	3.00E-05	1.30E-04	1.70E-04	1.80E-04	1.60E-04	6.00E-05	1.00E-04	1.30E-04
KT-A3m	100	1.00E-05	9.00E-05	4.00E-05	1.80E-04	2.20E-04	1.80E-04	0.00E+00	1.00E-05	1.00E-05	2.00E-05	4.00E-05	1.00E-05	2.00E-05	1.10E-04	1.40E-04	1.50E-04	1.30E-04	5.00E-05	8.00E-05	1.10E-04
KT-A4	1.5	2.60E-04	4.10E-03	1.89E-03	7.98E-03	9.92E-03	8.28E-03	2.20E-04	2.60E-04	3.00E-04	8.90E-04	1.76E-03	3.90E-04	9.90E-04	4.94E-03	6.47E-03	6.83E-03	5.91E-03	2.21E-03	3.67E-03	4.96E-03
KT-A4a	4	3.00E-04	4.80E-03	2.21E-03	9.35E-03	1.16E-02	9.70E-03	2.60E-04	3.00E-04	3.50E-04	1.05E-03	2.06E-03	4.60E-04	1.16E-03	5.78E-03	7.58E-03	8.00E-03	6.92E-03	2.58E-03	4.30E-03	5.81E-03
KT-A4b	8	2.30E-04	3.59E-03	1.65E-03	6.99E-03	8.70E-03	7.26E-03	1.90E-04	2.30E-04	2.60E-04	7.80E-04	1.54E-03	3.40E-04	8.70E-04	4.33E-03	5.67E-03	5.99E-03	5.18E-03	1.93E-03	3.22E-03	4.35E-03
KT-A4c	12	1.00E-04	1.64E-03	7.60E-04	3.20E-03	3.98E-03	3.32E-03	9.00E-05	1.00E-04	1.20E-04	3.60E-04	7.10E-04	1.60E-04	4.00E-04	1.98E-03	2.59E-03	2.74E-03	2.37E-03	8.80E-04	1.47E-03	1.99E-03
KT-A4d	16	7.00E-05	1.13E-03	5.20E-04	2.19E-03	2.73E-03	2.28E-03	6.00E-05	7.00E-05	8.00E-05	2.50E-04	4.80E-04	1.10E-04	2.70E-04	1.36E-03	1.78E-03	1.88E-03	1.62E-03	6.10E-04	1.01E-03	1.36E-03
KT-A4e	20	5.00E-05	7.70E-04	3.50E-04	1.50E-03	1.86E-03	1.56E-03	4.00E-05	5.00E-05	6.00E-05	1.70E-04	3.30E-04	7.00E-05	1.90E-04	9.30E-04	1.22E-03	1.28E-03	1.11E-03	4.10E-04	6.90E-04	9.30E-04

AERMOD Model Results on Hydrocarbons (HC) **Option A, Part 2** **Hourly** = Used in Calculation on Project Contribution

Hourly		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20
		Naphthalene	Phenanthrer	Anthracene	Fluoranthen	Pyrene	Benzo(a)pyr	Benzene	Toluene	Ethylbenzen	Xylenes (Tot	Acenaphthy	Acenaphthe	Fluorene	Chrysene	Benzo(a)ant	Benzo(b)fluo	Benzo(k)fluo	Dibenzo(a,h)	Indeno(1,2,3	Benzo(g,h,i)perylene
Maximum Value		8.40E-04	1.32E-02	6.07E-03	2.57E-02	3.19E-02	2.66E-02	7.00E-04	8.30E-04	9.60E-04	2.87E-03	5.66E-03	1.25E-03	3.19E-03	1.59E-02	2.08E-02	2.20E-02	1.90E-02	7.10E-03	1.18E-02	1.60E-02
ASR_ID	mAG																				
KT-A4f	30	2.00E-05	3.60E-04	1.70E-04	7.10E-04	8.80E-04	7.30E-04	2.00E-05	2.00E-05	3.00E-05	8.00E-05	1.60E-04	3.00E-05	9.00E-05	4.40E-04	5.70E-04	6.00E-04	5.20E-04	2.00E-04	3.20E-04	4.40E-04
KT-A4g	40	1.00E-05	1.90E-04	9.00E-05	3.60E-04	4.50E-04	3.80E-04	1.00E-05	1.00E-05	1.00E-05	4.00E-05	8.00E-05	2.00E-05	5.00E-05	2.20E-04	2.90E-04	3.10E-04	2.70E-04	1.00E-04	1.70E-04	2.30E-04
KT-A4h	50	1.00E-05	9.00E-05	4.00E-05	1.80E-04	2.20E-04	1.90E-04	0.00E+00	1.00E-05	1.00E-05	2.00E-05	4.00E-05	1.00E-05	2.00E-05	1.10E-04	1.50E-04	1.50E-04	1.30E-04	5.00E-05	8.00E-05	1.10E-04
KT-A4i	60	0.00E+00	4.00E-05	2.00E-05	8.00E-05	1.00E-04	8.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05	0.00E+00	1.00E-05	5.00E-05	7.00E-05	7.00E-05	6.00E-05	2.00E-05	4.00E-05	5.00E-05
KT-A4j	70	0.00E+00	2.00E-05	1.00E-05	3.00E-05	4.00E-05	3.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	2.00E-05	3.00E-05	3.00E-05	2.00E-05	1.00E-05	2.00E-05	2.00E-05
KT-A4k	80	0.00E+00	1.00E-05	0.00E+00	1.00E-05	2.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A4l	90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4m	100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4n	110	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4o	120	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A5	1.5	1.00E-04	1.56E-03	7.20E-04	3.04E-03	3.78E-03	3.16E-03	8.00E-05	1.00E-04	1.10E-04	3.40E-04	6.70E-04	1.50E-04	3.80E-04	1.88E-03	2.47E-03	2.60E-03	2.25E-03	8.40E-04	1.40E-03	1.89E-03
KT-A5a	4	1.10E-04	1.80E-03	8.30E-04	3.50E-03	4.35E-03	3.63E-03	1.00E-04	1.10E-04	1.30E-04	3.90E-04	7.70E-04	1.70E-04	4.30E-04	2.16E-03	2.84E-03	2.99E-03	2.59E-03	9.70E-04	1.61E-03	2.17E-03
KT-A5b	8	1.20E-04	1.81E-03	8.30E-04	3.53E-03	4.39E-03	3.66E-03	1.00E-04	1.10E-04	1.30E-04	3.90E-04	7.80E-04	1.70E-04	4.40E-04	2.18E-03	2.86E-03	3.02E-03	2.61E-03	9.80E-04	1.62E-03	2.19E-03
KT-A5c	12	9.00E-05	1.37E-03	6.30E-04	2.67E-03	3.32E-03	2.77E-03	7.00E-05	9.00E-05	1.00E-04	3.00E-04	5.90E-04	1.30E-04	3.30E-04	1.65E-03	2.16E-03	2.28E-03	1.98E-03	7.40E-04	1.23E-03	1.66E-03
KT-A5d	16	5.00E-05	7.50E-04	3.40E-04	1.45E-03	1.80E-03	1.51E-03	4.00E-05	5.00E-05	5.00E-05	1.60E-04	3.20E-04	7.00E-05	1.80E-04	9.00E-04	1.18E-03	1.24E-03	1.07E-03	4.00E-04	6.70E-04	9.00E-04
KT-A5e	20	4.00E-05	6.50E-04	3.00E-04	1.27E-03	1.58E-03	1.32E-03	3.00E-05	4.00E-05	5.00E-05	1.40E-04	2.80E-04	6.00E-05	1.60E-04	7.80E-04	1.03E-03	1.09E-03	9.40E-04	3.50E-04	5.80E-04	7.90E-04
KT-A6	1.5	3.70E-04	5.75E-03	2.65E-03	1.12E-02	1.39E-02	1.16E-02	3.10E-04	3.60E-04	4.20E-04	1.25E-03	2.47E-03	5.50E-04	1.39E-03	6.92E-03	9.08E-03	9.58E-03	8.29E-03	3.10E-03	5.15E-03	6.96E-03
KT-A6a	4	3.80E-04	5.99E-03	2.76E-03	1.17E-02	1.45E-02	1.21E-02	3.20E-04	3.80E-04	4.30E-04	1.30E-03	2.57E-03	5.70E-04	1.45E-03	7.21E-03	9.45E-03	9.98E-03	8.63E-03	3.22E-03	5.36E-03	7.25E-03
KT-A6b	8	3.10E-04	4.95E-03	2.28E-03	9.63E-03	1.20E-02	1.00E-02	2.60E-04	3.10E-04	3.60E-04	1.08E-03	2.12E-03	4.70E-04	1.20E-03	5.96E-03	7.81E-03	8.25E-03	7.13E-03	2.66E-03	4.43E-03	5.99E-03
KT-A6c	12	1.40E-04	2.18E-03	1.00E-03	4.24E-03	5.27E-03	4.40E-03	1.20E-04	1.40E-04	1.60E-04	4.70E-04	9.30E-04	2.10E-04	5.30E-04	2.62E-03	3.44E-03	3.63E-03	3.14E-03	1.17E-03	1.95E-03	2.64E-03
KT-A7	1.5	1.90E-04	2.94E-03	1.35E-03	5.72E-03	7.12E-03	5.94E-03	1.60E-04	1.90E-04	2.10E-04	6.40E-04	1.26E-03	2.80E-04	7.10E-04	3.54E-03	4.64E-03	4.90E-03	4.24E-03	1.58E-03	2.63E-03	3.56E-03
KT-A7a	4	1.80E-04	2.81E-03	1.29E-03	5.46E-03	6.79E-03	5.67E-03	1.50E-04	1.80E-04	2.00E-04	6.10E-04	1.20E-03	2.70E-04	6.80E-04	3.38E-03	4.43E-03	4.67E-03	4.04E-03	1.51E-03	2.51E-03	3.40E-03
KT-A7b	8	1.30E-04	2.07E-03	9.50E-04	4.03E-03	5.01E-03	4.18E-03	1.10E-04	1.30E-04	1.50E-04	4.50E-04	8.90E-04	2.00E-04	5.00E-04	2.49E-03	3.27E-03	3.45E-03	2.98E-03	1.11E-03	1.85E-03	2.51E-03
KT-A7c	12	1.00E-04	1.50E-03	6.90E-04	2.92E-03	3.64E-03	3.03E-03	8.00E-05	9.00E-05	1.10E-04	3.30E-04	6.50E-04	1.40E-04	3.60E-04	1.81E-03	2.37E-03	2.50E-03	2.17E-03	8.10E-04	1.35E-03	1.82E-03
KT-A7d	16	7.00E-05	1.17E-03	5.40E-04	2.28E-03	2.83E-03	2.36E-03	6.00E-05	7.00E-05	8.00E-05	2.50E-04	5.00E-04	1.10E-04	2.80E-04	1.41E-03	1.85E-03	1.95E-03	1.69E-03	6.30E-04	1.05E-03	1.42E-03
KT-A7e	20	6.00E-05	9.00E-04	4.10E-04	1.75E-03	2.17E-03	1.81E-03	5.00E-05	6.00E-05	7.00E-05	2.00E-04	3.90E-04	9.00E-05	2.20E-04	1.08E-03	1.42E-03	1.50E-03	1.29E-03	4.80E-04	8.00E-04	1.09E-03
KT-A8	1.5	4.00E-05	6.70E-04	3.10E-04	1.31E-03	1.63E-03	1.36E-03	4.00E-05	4.00E-05	5.00E-05	1.50E-04	2.90E-04	6.00E-05	1.60E-04	8.10E-04	1.06E-03	1.12E-03	9.70E-04	3.60E-04	6.00E-04	8.10E-04
KT-A8a	4	5.00E-05	8.50E-04	3.90E-04	1.65E-03	2.05E-03	1.71E-03	5.00E-05	5.00E-05	6.00E-05	1.80E-04	3.60E-04	8.00E-05	2.10E-04	1.02E-03	1.34E-03	1.41E-03	1.22E-03	4.60E-04	7.60E-04	1.02E-03
KT-A8b	8	6.00E-05	1.02E-03	4.70E-04	1.99E-03	2.48E-03	2.07E-03	5.00E-05	6.00E-05	7.00E-05	2.20E-04	4.40E-04	1.00E-04	2.50E-04	1.23E-03	1.62E-03	1.71E-03	1.47E-03	5.50E-04	9.20E-04	1.24E-03
KT-A8c	12	6.00E-05	9.90E-04	4.60E-04	1.93E-03	2.40E-03	2.00E-03	5.00E-05	6.00E-05	7.00E-05	2.20E-04	4.20E-04	9.00E-05	2.40E-04	1.19E-03	1.56E-03	1.65E-03	1.43E-03	5.30E-04	8.90E-04	1.20E-03
KT-A8d	16	5.00E-05	7.70E-04	3.50E-04	1.49E-03	1.86E-03	1.55E-03	4.00E-05	5.00E-05	6.00E-05	1.70E-04	3.30E-04	7.00E-05	1.90E-04	9.20E-04	1.21E-03	1.28E-03	1.11E-03	4.10E-04	6.90E-04	9.30E-04
KT-A8e	20	3.00E-05	4.60E-04	2.10E-04	9.00E-04	1.12E-03	9.40E-04	2.00E-05	3.00E-05	3.00E-05	1.00E-04	2.00E-04	4.00E-05	1.10E-04	5.60E-04	7.30E-04	7.70E-04	6.70E-04	2.50E-04	4.10E-04	5.60E-04
KT-A8f	30	1.00E-05	2.00E-04	9.00E-05	3.90E-04	4.90E-04	4.10E-04	1.00E-05	1.00E-05	1.00E-05	4.00E-05	9.00E-05	2.00E-05	5.00E-05	2.40E-04	3.20E-04	3.40E-04	2.90E-04	1.10E-04	1.80E-04	2.40E-04
KT-A8g	40	1.00E-05	1.70E-04	8.00E-05	3.40E-04	4.20E-04	3.50E-04	1.00E-05	1.00E-05	1.00E-05	4.00E-05	7.00E-05	2.00E-05	4.00E-05	2.10E-04	2.70E-04	2.90E-04	2.50E-04	9.00E-05	1.50E-04	2.10E-04
KT-A8h	50	1.00E-05	1.40E-04	6.00E-05	2.70E-04	3.40E-04	2.80E-04	1.00E-05	1.00E-05	1.00E-05	3.00E-05	6.00E-05	1.00E-05	3.00E-05	1.70E-04	2.20E-04	2.30E-04	2.00E-04	8.00E-05	1.30E-04	1.70E-04
KT-A8i	60	1.00E-05	1.10E-04	5.00E-05	2.20E-04	2.70E-04	2.20E-04	1.00E-05	1.00E-05	1.00E-05	2.00E-05	5.00E-05	1.00E-05	3.00E-05	1.30E-04	1.70E-04	1.80E-04	1.60E-04	6.00E-05	1.00E-04	1.30E-04
KT-A8j	70	1.00E-05	9.00E-05	4.00E-05	1.80E-04	2.30E-04	1.90E-04	1.00E-05	1.00E-05	1.00E-05	2.00E-05	4.00E-05	1.00E-05	2.00E-05	1.10E-04	1.50E-04	1.60E-04	1.40E-04	5.00E-05	8.00E-05	1.10E-04
KT-A8k	80	1.00E-05	8.00E-05	4.00E-05	1.60E-04	2.00E-04	1.70E-04	0.00E+00	1.00E-05	1.00E-05	2.00E-05	4.00E-05	1.00E-05	2.00E-05	1.00E-04	1.30E-04	1.40E-04	1.20E-04	4.00E-05	7.00E-05	1.00E-04
KT-A8l	90	0.00E+00	7.00E-05	3.00E-05	1.40E-04	1.70E-04	1.40E-04	0.00E+00	0.00E+00	1.00E-05	2.00E-05	3.00E-05	1.00E-05	2.00E-05	9.00E-05	1.10E-04	1.20E-04	1.00E-04	4.00E-05	6.00E-05	9.00E-05
KT-A8m	100	0.00E+00	7.00E-05	3.00E-05	1.30E-04	1.60E-04	1.30E-04	0.00E+00	0.00E+00	0.00E+00	1.00E-05	3.00E-05	1.00E-05	2.00E-05	8.00E-05	1.00E-04	1.10E-04	9.00E-05	4.00E-05	6.00E-05	8.00E-05
KT-A9	1.5	1.70E-04	2.64E-03	1.21E-03	5.13E-03	6.37E-03	5.32E-03	1.40E-04	1.70E-04	1.90E-04	5.70E-04	1.13E-03	2.50E-04	6.40E-04	3.17E-03	4.16E-03	4.39E-03	3.80E-03	1.42E-03	2.36E-03	3.19E-03
KT-A9a	4	1.90E-04	2.95E-03	1.36E-03	5.74E-03	7.14E-03	5.96E-03	1.60E-04	1.90E-04	2.10E-04	6.40E-04	1.27E-03	2.80E-04	7.10E-04	3.55E-03	4.66E-03	4.92E-03	4.25E-03	1.59E-03	2.64E-03	3.57E-03
KT-A9b	8	1.70E-04	2.72E-03	1.25E-03	5.30E-03	6.59E-03	5.50E-03	1.50E-04	1.70E-04	2.00E-04	5.90E-04	1.17E-03	2.60E-04	6.60E-04	3.28E-03	4.30E-03	4.54E-03	3.93E-03	1.47E-03	2.44E-03	3.30E-03
KT-A10	1.5	1.20E-04	1.95E-03	9.00E-04	3.79E-03	4.71E-03	3.93E-03	1.00E-04	1.20E-04	1.40E-04	4.20E-04	8.40E-04	1.90E-04	4.70E-04	2.34E-03	3.07E-03	3.25E-03	2.81E-03	1.05E-03	1.74E-03	2.36E-03
KT-A10a	4	1.20E-04	1.84E-03	8.50E-04	3.59E-03	4.46E-03	3.72E-03	1.00E-04	1.20E-04	1.30E-04	4.00E-04	7.90E-04	1.80E-04	4.50E-04	2.22E-03	2.91E-03	3.07E-03	2.66E-03	9.90E-04	1.65E-03	2.23E-03
KT-A10b	8	1.00E-04	1.65E-03	7.60E-04	3.21E-03	3.99E-03	3.33E-03	9.00E-05	1.00E-04	1.20E-04	3.60E-04	7.10E-04	1.60E-04	4.00E-04	1.98E-03	2.60E-03	2.75E-03	2.37E-03	8.90E-04	1.48E-03	1.99E-03
KT-A10c	12	9.00E-05	1.45E-03	6.70E-04	2.81E-03	3.50E-03	2.92E-03	8.00E-05	9.00E-05	1.00E-04	3.10E-04	6.20E-04	1.40E-04	3.50E-04	1.74E-03	2.28E-03	2.41E-03	2.08E-03	7.80E-04	1.29E-03	1.75E-03
KT-A10d	16	8.00E-05	1.25E-03	5.70E-04	2.43E-03	3.02E-03	2.52E-03	7.00E-05	8.00E-05	9.00E-05	2.70E-04	5.40E-04	1.20E-04	3.00E-04	1.50E-03	1.97E-03	2.08E-03	1.80E-03	6.70E-04	1.12E-03	1.51E-03
KT-A10e	20	7.00E-05	1.07E-03	4.90E-04	2.08E-03	2.58E-03	2.16E-03	6.00E-05	7.00E-05	8.00E-05	2.30E-04	4.60E-04	1.00E-04	2.60E-04	1.28E-03	1.68E-03	1.78E-03	1.54E-03	5.70E-04	9.60E-04	1.29E-03
KT-A10f	30	4.00E-05	7.00E-04	3.20E-04	1.35E-03	1.68E-03	1.40E-03	4.00E-05	4.00E-05	5.00E-05	1.50E-04	3.00E-04	7.00E-05	1.70E-04	8.40E-04	1.10E-03	1.16E-03	1.00E-03	3.70E-04	6.20E-04	8.40E-04
KT-A10g	40	3.00E-05	4.40E-04	2.00E-04	8.50E-04	1.05E-03	8.80E-04	2.00E-05	3.00E-05	3.00E-05	9.00E-05	1.90E-04	4.00E-05	1.10E-04	5.20E-04	6.90E-04	7.20E-04	6.30E-04	2.30E-04	3.90E-04	5.30E-04
KT-A10h	50	2.00E-05	2.50E-04	1.20E-04	5.00E-04	6.20E-04	5.10E-04	1.00E-05	2.00E-05	2.00E-05	6.00E-05	1.10E-04	2.00E-05	6.00E-05	3.10E-04	4.00E-04	4.20E-04	3.70E-04	1.40E-04	2.30E-04	3.10E-04
KT-A10i	60	1.00E-05	1.70E-04	8.00E-05	3.30E-04	4.20E-04	3.50E-04	1.00E-05	1.00E-05	1.00E-05	4.00E-05	7.00E-05	2.00E-05	4.00E-05	2.10E-04	2.70E-04	2.90E-04	2.50E-04	9.00E-05	1.50E-04	2.10E-04
KT-A10j	70	1.00E-05	1.50E-04	7.00E-05	2.90E-04	3.60E-04	3.00E-04	1.00E-05	1.00E-05	1.00E-05	3.00E-05	6.00E-05	1.00E-05	4.00E-05	1.80E-04	2.30E-04	2.50E-04	2.10E-04	8.00E-05	1.30E-04	1.80E-04
KT-A10k	80	1.00E-05	1.30E-04	6.00E-05	2.50E-04	3.10E-04	2.60E-04	1.00E-05	1.00E-05	1.00E-05	3.00E-05	5.00E-05	1.00E-05	3.00E-05	1.50E-04	2.00E-04	2.10E-04	1.80E-04	7.00E-05	1.10E-04	1.50E-04
KT-A10l	90	1.00E-05	1.10E-04	5.00E-05	2.10E-04	2.60E-04	2.20E-04	1.00E-05	1.00E-05	1.00E-05	2.00E-05	5.00E-05	1.00E-05	3.00E-05	1.30E-04	1.70E-04	1.80E-04	1.50E-04	6.00E-05	1.00E-04	1.30E-04

AERMOD Model Results on Hydrocarbons (HC) **Option A, Part 2** **Hourly** = Used in Calculation on Project Contribution

Hourly		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20
		Naphthalene	Phenanthrer	Anthracene	Fluoranthen	Pyrene	Benzo(a)pyr	Benzene	Toluene	Ethylbenzen	Xylenes (Tot	Acenaphthy	Acenaphthe	Fluorene	Chrysene	Benzo(a)ant	Benzo(b)fluo	Benzo(k)fluo	Dibenzo(a,h	Indeno(1,2,3	Benzo(g,h,i)perylene
Maximum Value		**8.40E-04**	**1.32E-02**	**6.07E-03**	**2.57E-02**	**3.19E-02**	**2.66E-02**	**7.00E-04**	**8.30E-04**	**9.60E-04**	**2.87E-03**	**5.66E-03**	**1.25E-03**	**3.19E-03**	**1.59E-02**	**2.08E-02**	**2.20E-02**	**1.90E-02**	**7.10E-03**	**1.18E-02**	**1.60E-02**
ASR_ID	**mAG**																				
KT-A10m	100	1.00E-05	9.00E-05	4.00E-05	1.70E-04	2.20E-04	1.80E-04	0.00E+00	1.00E-05	1.00E-05	2.00E-05	4.00E-05	1.00E-05	2.00E-05	1.10E-04	1.40E-04	1.50E-04	1.30E-04	5.00E-05	8.00E-05	1.10E-04
KT-A10n	110	0.00E+00	8.00E-05	4.00E-05	1.50E-04	1.90E-04	1.50E-04	0.00E+00	0.00E+00	1.00E-05	2.00E-05	3.00E-05	1.00E-05	2.00E-05	9.00E-05	1.20E-04	1.30E-04	1.10E-04	4.00E-05	7.00E-05	9.00E-05
KT-A10o	120	0.00E+00	7.00E-05	3.00E-05	1.30E-04	1.60E-04	1.40E-04	0.00E+00	0.00E+00	0.00E+00	1.00E-05	3.00E-05	1.00E-05	2.00E-05	8.00E-05	1.10E-04	1.10E-04	1.00E-04	4.00E-05	6.00E-05	8.00E-05
KT-A10p	130	0.00E+00	6.00E-05	3.00E-05	1.10E-04	1.40E-04	1.20E-04	0.00E+00	0.00E+00	0.00E+00	1.00E-05	3.00E-05	1.00E-05	1.00E-05	7.00E-05	9.00E-05	1.00E-04	8.00E-05	3.00E-05	5.00E-05	7.00E-05
KT-A10q	140	0.00E+00	5.00E-05	2.00E-05	1.00E-04	1.20E-04	1.00E-04	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05	0.00E+00	1.00E-05	6.00E-05	8.00E-05	8.00E-05	7.00E-05	3.00E-05	5.00E-05	6.00E-05
P01	1.5	8.40E-04	1.32E-02	6.07E-03	2.57E-02	3.19E-02	2.66E-02	7.00E-04	8.30E-04	9.60E-04	2.87E-03	5.66E-03	1.25E-03	3.19E-03	1.59E-02	2.08E-02	2.20E-02	1.90E-02	7.10E-03	1.18E-02	1.60E-02
P02	1.5	7.50E-04	1.18E-02	5.41E-03	2.29E-02	2.85E-02	2.37E-02	6.30E-04	7.40E-04	8.50E-04	2.56E-03	5.05E-03	1.12E-03	2.85E-03	1.42E-02	1.86E-02	1.96E-02	1.69E-02	6.33E-03	1.05E-02	1.42E-02
P03	1.5	7.80E-04	1.23E-02	5.64E-03	2.39E-02	2.97E-02	2.48E-02	6.50E-04	7.70E-04	8.90E-04	2.67E-03	5.26E-03	1.16E-03	2.97E-03	1.48E-02	1.93E-02	2.04E-02	1.77E-02	6.59E-03	1.10E-02	1.48E-02
P04	1.5	6.60E-04	1.04E-02	4.80E-03	2.03E-02	2.53E-02	2.11E-02	5.60E-04	6.60E-04	7.60E-04	2.27E-03	4.48E-03	9.90E-04	2.53E-03	1.26E-02	1.65E-02	1.74E-02	1.50E-02	5.62E-03	9.35E-03	1.26E-02
P10	1.5	2.60E-04	4.08E-03	1.88E-03	7.94E-03	9.87E-03	8.24E-03	2.20E-04	2.60E-04	3.00E-04	8.90E-04	1.75E-03	3.90E-04	9.90E-04	4.91E-03	6.44E-03	6.79E-03	5.88E-03	2.19E-03	3.65E-03	4.93E-03
P11	1.5	5.00E-04	7.86E-03	3.62E-03	1.53E-02	1.90E-02	1.59E-02	4.20E-04	4.90E-04	5.70E-04	1.71E-03	3.37E-03	7.50E-04	1.90E-03	9.46E-03	1.24E-02	1.31E-02	1.13E-02	4.23E-03	7.04E-03	9.51E-03
P12	1.5	3.80E-04	6.04E-03	2.78E-03	1.18E-02	1.46E-02	1.22E-02	3.20E-04	3.80E-04	4.40E-04	1.31E-03	2.59E-03	5.70E-04	1.46E-03	7.27E-03	9.53E-03	1.01E-02	8.70E-03	3.25E-03	5.41E-03	7.31E-03
P13	1.5	3.20E-04	5.09E-03	2.34E-03	9.91E-03	1.23E-02	1.03E-02	2.70E-04	3.20E-04	3.70E-04	1.11E-03	2.19E-03	4.80E-04	1.23E-03	6.13E-03	8.04E-03	8.48E-03	7.34E-03	2.74E-03	4.56E-03	6.16E-03
P14	1.5	2.50E-04	3.96E-03	1.82E-03	7.70E-03	9.57E-03	7.99E-03	2.10E-04	2.50E-04	2.90E-04	8.60E-04	1.70E-03	3.80E-04	9.60E-04	4.76E-03	6.24E-03	6.59E-03	5.70E-03	2.13E-03	3.54E-03	4.79E-03
P15	1.5	3.00E-04	4.68E-03	2.15E-03	9.11E-03	1.13E-02	9.45E-03	2.50E-04	2.90E-04	3.40E-04	1.02E-03	2.01E-03	4.40E-04	1.13E-03	5.63E-03	7.38E-03	7.79E-03	6.74E-03	2.52E-03	4.19E-03	5.66E-03
P16	1.5	4.60E-04	7.21E-03	3.32E-03	1.40E-02	1.74E-02	1.46E-02	3.80E-04	4.50E-04	5.20E-04	1.57E-03	3.09E-03	6.80E-04	1.74E-03	8.67E-03	1.14E-02	1.20E-02	1.04E-02	3.88E-03	6.45E-03	8.72E-03

AERMOD Model Results on Hydrocarbons (HC) **Option A, Part 3** **Hourly** = Used in Calculation on Project Contribution

Hourly		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20
		Naphthalene	Phenanthrer	Anthracene	Fluoranthen	Pyrene	Benzo(a)pyr	Benzene	Toluene	Ethylbenzen	Xylenes (Tot	Acenaphthy	Acenaphthe	Fluorene	Chrysene	Benzo(a)ant	Benzo(b)fluo	Benzo(k)fluo	Dibenzo(a,h)	Indeno(1,2,3	Benzo(g,h,i)perylene
Maximum Value		**1.92E-03**	**3.29E-03**	**2.44E-03**	**4.63E-03**	**4.82E-03**	**5.00E-03**	**6.60E-04**	**1.03E-03**	**1.19E-03**	**4.09E-03**	**1.98E-03**	**1.90E-03**	**2.15E-03**	**3.96E-03**	**3.56E-03**	**6.92E-03**	**2.91E-03**	**4.02E-03**	**4.70E-03**	**4.76E-03**
ASR_ID	**mAG**																				
KT-A1	1.5	1.10E-04	1.90E-04	1.40E-04	2.60E-04	2.70E-04	2.80E-04	4.00E-05	6.00E-05	7.00E-05	2.30E-04	1.10E-04	1.10E-04	1.20E-04	2.20E-04	2.00E-04	3.90E-04	1.60E-04	2.30E-04	2.70E-04	2.70E-04
KT-A1a	4	1.10E-04	1.90E-04	1.40E-04	2.60E-04	2.70E-04	2.80E-04	4.00E-05	6.00E-05	7.00E-05	2.30E-04	1.10E-04	1.10E-04	1.20E-04	2.20E-04	2.00E-04	3.90E-04	1.60E-04	2.30E-04	2.70E-04	2.70E-04
KT-A1b	8	1.00E-04	1.60E-04	1.20E-04	2.30E-04	2.40E-04	2.50E-04	3.00E-05	5.00E-05	6.00E-05	2.00E-04	1.00E-04	9.00E-05	1.10E-04	2.00E-04	1.80E-04	3.40E-04	1.40E-04	2.00E-04	2.30E-04	2.40E-04
KT-A1c	12	7.00E-05	1.20E-04	1.00E-04	1.70E-04	1.80E-04	1.90E-04	2.00E-05	4.00E-05	4.00E-05	1.50E-04	7.00E-05	7.00E-05	8.00E-05	1.50E-04	1.30E-04	2.60E-04	1.10E-04	1.50E-04	1.80E-04	1.80E-04
KT-A1d	16	6.00E-05	1.00E-04	7.00E-05	1.40E-04	1.50E-04	1.50E-04	2.00E-05	3.00E-05	4.00E-05	1.30E-04	6.00E-05	6.00E-05	7.00E-05	1.20E-04	1.10E-04	2.10E-04	9.00E-05	1.20E-04	1.40E-04	1.50E-04
KT-A1e	20	5.00E-05	9.00E-05	7.00E-05	1.30E-04	1.30E-04	1.40E-04	2.00E-05	3.00E-05	3.00E-05	1.10E-04	5.00E-05	5.00E-05	6.00E-05	1.10E-04	1.00E-04	1.90E-04	8.00E-05	1.10E-04	1.30E-04	1.30E-04
KT-A1f	30	4.00E-05	6.00E-05	5.00E-05	9.00E-05	9.00E-05	1.00E-04	1.00E-05	2.00E-05	2.00E-05	8.00E-05	4.00E-05	4.00E-05	4.00E-05	8.00E-05	7.00E-05	1.40E-04	6.00E-05	8.00E-05	9.00E-05	9.00E-05
KT-A1g	40	3.00E-05	4.00E-05	3.00E-05	6.00E-05	6.00E-05	7.00E-05	1.00E-05	1.00E-05	2.00E-05	5.00E-05	3.00E-05	3.00E-05	3.00E-05	5.00E-05	5.00E-05	9.00E-05	4.00E-05	5.00E-05	6.00E-05	6.00E-05
KT-A1h	50	2.00E-05	3.00E-05	2.00E-05	5.00E-05	5.00E-05	5.00E-05	1.00E-05	1.00E-05	1.00E-05	4.00E-05	2.00E-05	2.00E-05	2.00E-05	4.00E-05	4.00E-05	7.00E-05	3.00E-05	4.00E-05	5.00E-05	5.00E-05
KT-A1i	60	1.00E-05	2.00E-05	2.00E-05	3.00E-05	4.00E-05	4.00E-05	0.00E+00	1.00E-05	1.00E-05	3.00E-05	1.00E-05	1.00E-05	2.00E-05	3.00E-05	3.00E-05	5.00E-05	2.00E-05	3.00E-05	4.00E-05	4.00E-05
KT-A1j	70	1.00E-05	2.00E-05	1.00E-05	2.00E-05	3.00E-05	3.00E-05	0.00E+00	1.00E-05	1.00E-05	2.00E-05	1.00E-05	1.00E-05	1.00E-05	2.00E-05	2.00E-05	4.00E-05	2.00E-05	2.00E-05	3.00E-05	3.00E-05
KT-A1k	80	1.00E-05	1.00E-05	1.00E-05	2.00E-05	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	2.00E-05	1.00E-05	1.00E-05	1.00E-05	2.00E-05	1.00E-05	3.00E-05	1.00E-05	2.00E-05	2.00E-05	2.00E-05
KT-A1l	90	1.00E-05	1.00E-05	1.00E-05	2.00E-05	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	2.00E-05	1.00E-05	1.00E-05	2.00E-05	2.00E-05
KT-A1m	100	1.00E-05	1.00E-05	1.00E-05	2.00E-05	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	2.00E-05	1.00E-05	1.00E-05	2.00E-05	2.00E-05
KT-A2	1.5	1.30E-04	2.20E-04	1.60E-04	3.10E-04	3.20E-04	3.30E-04	4.00E-05	7.00E-05	8.00E-05	2.70E-04	1.30E-04	1.30E-04	1.40E-04	2.60E-04	2.40E-04	4.60E-04	1.90E-04	2.70E-04	3.10E-04	3.20E-04
KT-A2a	4	1.40E-04	2.40E-04	1.80E-04	3.40E-04	3.50E-04	3.70E-04	5.00E-05	8.00E-05	9.00E-05	3.00E-04	1.50E-04	1.40E-04	1.60E-04	2.90E-04	2.60E-04	5.10E-04	2.10E-04	2.90E-04	3.40E-04	3.50E-04
KT-A2b	8	1.40E-04	2.40E-04	1.80E-04	3.40E-04	3.60E-04	3.70E-04	5.00E-05	8.00E-05	9.00E-05	3.00E-04	1.50E-04	1.40E-04	1.60E-04	2.90E-04	2.60E-04	5.10E-04	2.20E-04	3.00E-04	3.50E-04	3.50E-04
KT-A2c	12	1.20E-04	2.10E-04	1.60E-04	3.00E-04	3.10E-04	3.20E-04	4.00E-05	7.00E-05	8.00E-05	2.60E-04	1.30E-04	1.20E-04	1.40E-04	2.50E-04	2.30E-04	4.40E-04	1.90E-04	2.60E-04	3.00E-04	3.00E-04
KT-A2d	16	9.00E-05	1.50E-04	1.10E-04	2.20E-04	2.30E-04	2.30E-04	3.00E-05	5.00E-05	6.00E-05	1.90E-04	9.00E-05	9.00E-05	1.00E-04	1.90E-04	1.70E-04	3.20E-04	1.40E-04	1.90E-04	2.20E-04	2.20E-04
KT-A2e	20	6.00E-05	9.00E-05	7.00E-05	1.30E-04	1.40E-04	1.40E-04	2.00E-05	3.00E-05	3.00E-05	1.20E-04	6.00E-05	5.00E-05	6.00E-05	1.10E-04	1.00E-04	2.00E-04	8.00E-05	1.20E-04	1.30E-04	1.40E-04
KT-A2f	30	4.00E-05	8.00E-05	6.00E-05	1.10E-04	1.10E-04	1.10E-04	2.00E-05	2.00E-05	3.00E-05	9.00E-05	5.00E-05	4.00E-05	5.00E-05	9.00E-05	8.00E-05	1.60E-04	7.00E-05	9.00E-05	1.10E-04	1.10E-04
KT-A2g	40	4.00E-05	6.00E-05	5.00E-05	9.00E-05	9.00E-05	9.00E-05	1.00E-05	2.00E-05	2.00E-05	8.00E-05	4.00E-05	4.00E-05	4.00E-05	7.00E-05	7.00E-05	1.30E-04	5.00E-05	7.00E-05	9.00E-05	9.00E-05
KT-A2h	50	3.00E-05	5.00E-05	4.00E-05	7.00E-05	7.00E-05	7.00E-05	1.00E-05	2.00E-05	2.00E-05	6.00E-05	3.00E-05	3.00E-05	3.00E-05	6.00E-05	5.00E-05	1.00E-04	4.00E-05	6.00E-05	7.00E-05	7.00E-05
KT-A2i	60	2.00E-05	4.00E-05	3.00E-05	5.00E-05	5.00E-05	6.00E-05	1.00E-05	1.00E-05	1.00E-05	5.00E-05	2.00E-05	2.00E-05	2.00E-05	4.00E-05	4.00E-05	8.00E-05	3.00E-05	5.00E-05	5.00E-05	5.00E-05
KT-A2j	70	2.00E-05	3.00E-05	2.00E-05	4.00E-05	4.00E-05	4.00E-05	1.00E-05	1.00E-05	1.00E-05	3.00E-05	2.00E-05	2.00E-05	2.00E-05	3.00E-05	3.00E-05	6.00E-05	2.00E-05	3.00E-05	4.00E-05	4.00E-05
KT-A2k	80	1.00E-05	2.00E-05	2.00E-05	3.00E-05	3.00E-05	3.00E-05	0.00E+00	1.00E-05	1.00E-05	3.00E-05	1.00E-05	1.00E-05	1.00E-05	2.00E-05	2.00E-05	4.00E-05	2.00E-05	2.00E-05	3.00E-05	3.00E-05
KT-A2l	90	1.00E-05	1.00E-05	1.00E-05	2.00E-05	2.00E-05	2.00E-05	0.00E+00	0.00E+00	1.00E-05	2.00E-05	1.00E-05	1.00E-05	1.00E-05	2.00E-05	2.00E-05	3.00E-05	1.00E-05	2.00E-05	2.00E-05	2.00E-05
KT-A2m	100	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	2.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05
KT-A2n	110	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	2.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05
KT-A2o	120	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	2.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05
KT-A2p	130	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	2.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05
KT-A2q	140	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	2.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05
KT-A2r	150	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05
KT-A2s	160	0.00E+00	1.00E-05	0.00E+00	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05
KT-A2t	170	0.00E+00	1.00E-05	0.00E+00	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05
KT-A2u	180	0.00E+00	1.00E-05	0.00E+00	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05	1.00E-05
KT-A3	1.5	1.00E-04	1.80E-04	1.90E-04	2.50E-04	2.60E-04	2.70E-04	4.00E-05	6.00E-05	6.00E-05	2.20E-04	1.10E-04	1.00E-04	1.20E-04	2.10E-04	1.90E-04	3.70E-04	1.60E-04	2.20E-04	2.50E-04	2.60E-04
KT-A3a	4	1.00E-04	1.70E-04	2.00E-04	2.40E-04	2.50E-04	2.60E-04	3.00E-05	5.00E-05	6.00E-05	2.10E-04	1.00E-04	1.00E-04	1.10E-04	2.00E-04	1.80E-04	3.60E-04	1.50E-04	2.10E-04	2.40E-04	2.50E-04
KT-A3b	8	9.00E-05	1.60E-04	1.70E-04	2.20E-04	2.30E-04	2.40E-04	3.00E-05	5.00E-05	6.00E-05	1.90E-04	9.00E-05	9.00E-05	1.00E-04	1.90E-04	1.70E-04	3.30E-04	1.40E-04	1.90E-04	2.20E-04	2.30E-04
KT-A3c	12	8.00E-05	1.40E-04	1.30E-04	2.00E-04	2.10E-04	2.20E-04	3.00E-05	4.00E-05	5.00E-05	1.80E-04	9.00E-05	8.00E-05	9.00E-05	1.70E-04	1.50E-04	3.00E-04	1.30E-04	1.70E-04	2.00E-04	2.10E-04
KT-A3d	16	8.00E-05	1.30E-04	1.00E-04	1.80E-04	1.90E-04	2.00E-04	3.00E-05	4.00E-05	5.00E-05	1.60E-04	8.00E-05	7.00E-05	8.00E-05	1.50E-04	1.40E-04	2.70E-04	1.10E-04	1.60E-04	1.80E-04	1.90E-04
KT-A3e	20	7.00E-05	1.20E-04	9.00E-05	1.60E-04	1.70E-04	1.80E-04	2.00E-05	4.00E-05	4.00E-05	1.40E-04	7.00E-05	7.00E-05	8.00E-05	1.40E-04	1.30E-04	2.40E-04	1.00E-04	1.40E-04	1.70E-04	1.70E-04
KT-A3f	30	5.00E-05	9.00E-05	6.00E-05	1.20E-04	1.30E-04	1.30E-04	2.00E-05	3.00E-05	3.00E-05	1.10E-04	5.00E-05	5.00E-05	6.00E-05	1.00E-04	9.00E-05	1.80E-04	8.00E-05	1.10E-04	1.20E-04	1.30E-04
KT-A3g	40	4.00E-05	6.00E-05	5.00E-05	9.00E-05	9.00E-05	1.00E-04	1.00E-05	2.00E-05	2.00E-05	8.00E-05	4.00E-05	4.00E-05	4.00E-05	8.00E-05	7.00E-05	1.30E-04	6.00E-05	8.00E-05	9.00E-05	9.00E-05
KT-A3h	50	3.00E-05	4.00E-05	3.00E-05	6.00E-05	7.00E-05	7.00E-05	1.00E-05	1.00E-05	2.00E-05	6.00E-05	3.00E-05	3.00E-05	3.00E-05	5.00E-05	5.00E-05	9.00E-05	4.00E-05	5.00E-05	6.00E-05	6.00E-05
KT-A3i	60	2.00E-05	3.00E-05	2.00E-05	4.00E-05	4.00E-05	4.00E-05	1.00E-05	1.00E-05	1.00E-05	4.00E-05	2.00E-05	2.00E-05	2.00E-05	4.00E-05	3.00E-05	6.00E-05	3.00E-05	4.00E-05	4.00E-05	4.00E-05
KT-A3j	70	1.00E-05	2.00E-05	2.00E-05	3.00E-05	3.00E-05	3.00E-05	0.00E+00	1.00E-05	1.00E-05	3.00E-05	1.00E-05	1.00E-05	1.00E-05	3.00E-05	2.00E-05	4.00E-05	2.00E-05	3.00E-05	3.00E-05	3.00E-05
KT-A3k	80	1.00E-05	2.00E-05	1.00E-05	2.00E-05	3.00E-05	3.00E-05	0.00E+00	1.00E-05	1.00E-05	2.00E-05	1.00E-05	1.00E-05	1.00E-05	2.00E-05	2.00E-05	4.00E-05	2.00E-05	2.00E-05	3.00E-05	3.00E-05
KT-A3l	90	1.00E-05	2.00E-05	1.00E-05	2.00E-05	2.00E-05	2.00E-05	0.00E+00	0.00E+00	1.00E-05	2.00E-05	1.00E-05	1.00E-05	1.00E-05	2.00E-05	2.00E-05	3.00E-05	1.00E-05	2.00E-05	2.00E-05	2.00E-05
KT-A3m	100	1.00E-05	1.00E-05	1.00E-05	2.00E-05	2.00E-05	2.00E-05	0.00E+00	0.00E+00	1.00E-05	2.00E-05	1.00E-05	1.00E-05	1.00E-05	2.00E-05	2.00E-05	3.00E-05	1.00E-05	2.00E-05	2.00E-05	2.00E-05
KT-A4	1.5	4.00E-04	6.80E-04	5.00E-04	9.60E-04	1.00E-03	1.03E-03	1.40E-04	2.10E-04	2.50E-04	8.50E-04	4.10E-04	3.90E-04	4.50E-04	8.20E-04	7.40E-04	1.43E-03	6.00E-04	8.30E-04	9.70E-04	9.80E-04
KT-A4a	4	3.30E-04	5.70E-04	4.20E-04	8.00E-04	8.30E-04	8.60E-04	1.10E-04	1.80E-04	2.00E-04	7.00E-04	3.40E-04	3.30E-04	3.70E-04	6.80E-04	6.10E-04	1.19E-03	5.00E-04	6.90E-04	8.10E-04	8.20E-04
KT-A4b	8	2.30E-04	3.90E-04	2.90E-04	5.40E-04	5.60E-04	5.90E-04	8.00E-05	1.20E-04	1.40E-04	4.80E-04	2.30E-04	2.20E-04	2.50E-04	4.60E-04	4.20E-04	8.10E-04	3.40E-04	4.70E-04	5.50E-04	5.60E-04
KT-A4c	12	9.00E-05	1.50E-04	1.10E-04	2.10E-04	2.20E-04	2.30E-04	3.00E-05	5.00E-05	5.00E-05	1.90E-04	9.00E-05	9.00E-05	1.00E-04	1.80E-04	1.60E-04	3.10E-04	1.30E-04	1.80E-04	2.10E-04	2.20E-04
KT-A4d	16	6.00E-05	1.10E-04	9.00E-05	1.50E-04	1.60E-04	1.60E-04	2.00E-05	3.00E-05	4.00E-05	1.30E-04	7.00E-05	6.00E-05	7.00E-05	1.30E-04	1.20E-04	2.30E-04	1.00E-04	1.30E-04	1.50E-04	1.60E-04
KT-A4e	20	6.00E-05	1.00E-04	7.00E-05	1.40E-04	1.40E-04	1.50E-04	2.00E-05	3.00E-05	4.00E-05	1.20E-04	6.00E-05	6.00E-05	6.00E-05	1.20E-04	1.10E-04	2.10E-04	9.00E-05	1.20E-04	1.40E-04	1.40E-04

AERMOD Model Results on Hydrocarbons (HC) **Option A, Part 3** **Hourly** = Used in Calculation on Project Contribution

Hourly		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20
		Naphthalene	Phenanthrer	Anthracene	Fluoranthen	Pyrene	Benzo(a)pyr	Benzene	Toluene	Ethylbenzen	Xylenes (Tot	Acenaphthy	Acenaphthe	Fluorene	Chrysene	Benzo(a)ant	Benzo(b)fluo	Benzo(k)fluo	Dibenzo(a,h)	Indeno(1,2,3	Benzo(g,h,i)perylene
Maximum Value		1.92E-03	3.29E-03	2.44E-03	4.63E-03	4.82E-03	5.00E-03	6.60E-04	1.03E-03	1.19E-03	4.09E-03	1.98E-03	1.90E-03	2.15E-03	3.96E-03	3.56E-03	6.92E-03	2.91E-03	4.02E-03	4.70E-03	4.76E-03
ASR_ID	mAG																				
KT-A4f	30	5.00E-05	8.00E-05	6.00E-05	1.10E-04	1.20E-04	1.20E-04	2.00E-05	2.00E-05	3.00E-05	1.00E-04	5.00E-05	5.00E-05	5.00E-05	9.00E-05	9.00E-05	1.70E-04	7.00E-05	1.00E-04	1.10E-04	1.10E-04
KT-A4g	40	4.00E-05	6.00E-05	5.00E-05	9.00E-05	9.00E-05	1.00E-04	1.00E-05	2.00E-05	2.00E-05	8.00E-05	4.00E-05	4.00E-05	4.00E-05	8.00E-05	7.00E-05	1.30E-04	6.00E-05	8.00E-05	9.00E-05	9.00E-05
KT-A4h	50	3.00E-05	5.00E-05	4.00E-05	7.00E-05	7.00E-05	8.00E-05	1.00E-05	2.00E-05	2.00E-05	6.00E-05	3.00E-05	3.00E-05	3.00E-05	6.00E-05	5.00E-05	1.00E-04	4.00E-05	6.00E-05	7.00E-05	7.00E-05
KT-A4i	60	2.00E-05	4.00E-05	3.00E-05	5.00E-05	6.00E-05	6.00E-05	1.00E-05	1.00E-05	1.00E-05	5.00E-05	2.00E-05	2.00E-05	2.00E-05	5.00E-05	4.00E-05	8.00E-05	3.00E-05	5.00E-05	5.00E-05	5.00E-05
KT-A4j	70	2.00E-05	3.00E-05	2.00E-05	4.00E-05	4.00E-05	4.00E-05	1.00E-05	1.00E-05	1.00E-05	3.00E-05	2.00E-05	2.00E-05	2.00E-05	3.00E-05	3.00E-05	6.00E-05	2.00E-05	3.00E-05	4.00E-05	4.00E-05
KT-A4k	80	1.00E-05	2.00E-05	2.00E-05	3.00E-05	3.00E-05	3.00E-05	0.00E+00	1.00E-05	1.00E-05	3.00E-05	1.00E-05	1.00E-05	1.00E-05	3.00E-05	2.00E-05	5.00E-05	2.00E-05	3.00E-05	3.00E-05	3.00E-05
KT-A4l	90	1.00E-05	2.00E-05	1.00E-05	2.00E-05	2.00E-05	2.00E-05	0.00E+00	1.00E-05	1.00E-05	2.00E-05	1.00E-05	1.00E-05	1.00E-05	2.00E-05	2.00E-05	3.00E-05	1.00E-05	2.00E-05	2.00E-05	2.00E-05
KT-A4m	100	1.00E-05	1.00E-05	1.00E-05	2.00E-05	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	2.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	3.00E-05	1.00E-05	1.00E-05	2.00E-05	2.00E-05
KT-A4n	110	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	2.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05
KT-A4o	120	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	2.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05
KT-A5	1.5	6.80E-04	1.17E-03	8.70E-04	1.65E-03	1.71E-03	1.78E-03	2.40E-04	3.70E-04	4.20E-04	1.46E-03	7.00E-04	6.80E-04	7.70E-04	1.41E-03	1.27E-03	2.46E-03	1.03E-03	1.43E-03	1.67E-03	1.69E-03
KT-A5a	4	7.40E-04	1.27E-03	9.40E-04	1.79E-03	1.86E-03	1.93E-03	2.50E-04	4.00E-04	4.60E-04	1.58E-03	7.60E-04	7.30E-04	8.30E-04	1.52E-03	1.37E-03	2.67E-03	1.12E-03	1.55E-03	1.81E-03	1.83E-03
KT-A5b	8	4.70E-04	8.00E-04	5.90E-04	1.13E-03	1.17E-03	1.22E-03	1.60E-04	2.50E-04	2.90E-04	9.90E-04	4.80E-04	4.60E-04	5.20E-04	9.60E-04	8.60E-04	1.68E-03	7.10E-04	9.80E-04	1.14E-03	1.16E-03
KT-A5c	12	2.00E-04	3.40E-04	2.50E-04	4.80E-04	5.00E-04	5.20E-04	7.00E-05	1.10E-04	1.20E-04	4.20E-04	2.10E-04	2.00E-04	2.20E-04	4.10E-04	3.70E-04	7.20E-04	3.00E-04	4.20E-04	4.90E-04	4.90E-04
KT-A5d	16	1.40E-04	2.50E-04	1.80E-04	3.50E-04	3.60E-04	3.70E-04	5.00E-05	8.00E-05	9.00E-05	3.10E-04	1.50E-04	1.40E-04	1.60E-04	3.00E-04	2.70E-04	5.20E-04	2.20E-04	3.00E-04	3.50E-04	3.50E-04
KT-A5e	20	1.00E-04	1.80E-04	1.30E-04	2.50E-04	2.60E-04	2.70E-04	4.00E-05	6.00E-05	6.00E-05	2.20E-04	1.10E-04	1.00E-04	1.20E-04	2.10E-04	1.90E-04	3.70E-04	1.60E-04	2.20E-04	2.50E-04	2.60E-04
KT-A6	1.5	7.60E-04	1.31E-03	9.70E-04	1.84E-03	1.92E-03	1.99E-03	2.60E-04	4.10E-04	4.70E-04	1.63E-03	7.90E-04	7.60E-04	8.60E-04	1.57E-03	1.41E-03	2.75E-03	1.16E-03	1.60E-03	1.87E-03	1.89E-03
KT-A6a	4	8.10E-04	1.39E-03	1.03E-03	1.96E-03	2.03E-03	2.11E-03	2.80E-04	4.40E-04	5.00E-04	1.73E-03	8.40E-04	8.00E-04	9.10E-04	1.67E-03	1.50E-03	2.92E-03	1.23E-03	1.70E-03	1.98E-03	2.01E-03
KT-A6b	8	5.00E-04	8.60E-04	6.40E-04	1.21E-03	1.26E-03	1.31E-03	1.70E-04	2.70E-04	3.10E-04	1.07E-03	5.20E-04	5.00E-04	5.60E-04	1.03E-03	9.30E-04	1.81E-03	7.60E-04	1.05E-03	1.23E-03	1.24E-03
KT-A6c	12	2.10E-04	3.60E-04	2.70E-04	5.00E-04	5.20E-04	5.40E-04	7.00E-05	1.10E-04	1.30E-04	4.50E-04	2.20E-04	2.10E-04	2.30E-04	4.30E-04	3.90E-04	7.50E-04	3.20E-04	4.40E-04	5.10E-04	5.20E-04
KT-A7	1.5	3.10E-04	5.30E-04	3.90E-04	7.50E-04	7.80E-04	8.10E-04	1.10E-04	1.70E-04	1.90E-04	6.60E-04	3.20E-04	3.10E-04	3.50E-04	6.40E-04	5.80E-04	1.12E-03	4.70E-04	6.50E-04	7.60E-04	7.70E-04
KT-A7a	4	2.60E-04	4.40E-04	3.30E-04	6.20E-04	6.50E-04	6.70E-04	9.00E-05	1.40E-04	1.60E-04	5.50E-04	2.70E-04	2.60E-04	2.90E-04	5.30E-04	4.80E-04	9.30E-04	3.90E-04	5.40E-04	6.30E-04	6.40E-04
KT-A7b	8	1.80E-04	3.10E-04	2.30E-04	4.40E-04	4.60E-04	4.70E-04	6.00E-05	1.00E-04	1.10E-04	3.90E-04	1.90E-04	1.80E-04	2.00E-04	3.70E-04	3.40E-04	6.60E-04	2.80E-04	3.80E-04	4.50E-04	4.50E-04
KT-A7c	12	1.10E-04	1.80E-04	1.30E-04	2.60E-04	2.70E-04	2.80E-04	4.00E-05	6.00E-05	7.00E-05	2.30E-04	1.10E-04	1.10E-04	1.20E-04	2.20E-04	2.00E-04	3.80E-04	1.60E-04	2.20E-04	2.60E-04	2.60E-04
KT-A7d	16	8.00E-05	1.40E-04	1.10E-04	2.00E-04	2.10E-04	2.20E-04	3.00E-05	4.00E-05	5.00E-05	1.80E-04	9.00E-05	8.00E-05	9.00E-05	1.70E-04	1.50E-04	3.00E-04	1.30E-04	1.70E-04	2.00E-04	2.10E-04
KT-A7e	20	7.00E-05	1.30E-04	9.00E-05	1.80E-04	1.80E-04	1.90E-04	3.00E-05	4.00E-05	5.00E-05	1.60E-04	8.00E-05	7.00E-05	8.00E-05	1.50E-04	1.40E-04	2.70E-04	1.10E-04	1.50E-04	1.80E-04	1.80E-04
KT-A8	1.5	1.50E-04	2.60E-04	1.90E-04	3.70E-04	3.80E-04	4.00E-04	5.00E-05	8.00E-05	9.00E-05	3.20E-04	1.60E-04	1.50E-04	1.70E-04	3.10E-04	2.80E-04	5.50E-04	2.30E-04	3.20E-04	3.70E-04	3.80E-04
KT-A8a	4	1.90E-04	3.20E-04	2.40E-04	4.60E-04	4.80E-04	4.90E-04	7.00E-05	1.00E-04	1.20E-04	4.00E-04	2.00E-04	1.90E-04	2.10E-04	3.90E-04	3.50E-04	6.80E-04	2.90E-04	4.00E-04	4.60E-04	4.70E-04
KT-A8b	8	2.10E-04	3.60E-04	2.70E-04	5.00E-04	5.20E-04	5.40E-04	7.00E-05	1.10E-04	1.30E-04	4.50E-04	2.20E-04	2.10E-04	2.30E-04	4.30E-04	3.90E-04	7.50E-04	3.20E-04	4.40E-04	5.10E-04	5.20E-04
KT-A8c	12	1.70E-04	2.90E-04	2.10E-04	4.10E-04	4.20E-04	4.40E-04	6.00E-05	9.00E-05	1.00E-04	3.60E-04	1.70E-04	1.70E-04	1.90E-04	3.50E-04	3.10E-04	6.10E-04	2.60E-04	3.50E-04	4.10E-04	4.20E-04
KT-A8d	16	1.00E-04	1.70E-04	1.20E-04	2.30E-04	2.40E-04	2.50E-04	3.00E-05	5.00E-05	6.00E-05	2.10E-04	1.00E-04	1.00E-04	1.10E-04	2.00E-04	1.80E-04	3.50E-04	1.50E-04	2.00E-04	2.40E-04	2.40E-04
KT-A8e	20	7.00E-05	1.20E-04	9.00E-05	1.70E-04	1.70E-04	1.80E-04	2.00E-05	4.00E-05	4.00E-05	1.50E-04	7.00E-05	7.00E-05	8.00E-05	1.40E-04	1.30E-04	2.50E-04	1.10E-04	1.50E-04	1.70E-04	1.70E-04
KT-A8f	30	5.00E-05	9.00E-05	7.00E-05	1.30E-04	1.30E-04	1.40E-04	2.00E-05	3.00E-05	3.00E-05	1.10E-04	5.00E-05	5.00E-05	6.00E-05	1.10E-04	1.00E-04	1.90E-04	8.00E-05	1.10E-04	1.30E-04	1.30E-04
KT-A8g	40	3.00E-05	6.00E-05	4.00E-05	8.00E-05	9.00E-05	9.00E-05	1.00E-05	2.00E-05	2.00E-05	7.00E-05	4.00E-05	3.00E-05	4.00E-05	7.00E-05	6.00E-05	1.20E-04	5.00E-05	7.00E-05	8.00E-05	8.00E-05
KT-A8h	50	2.00E-05	3.00E-05	2.00E-05	5.00E-05	5.00E-05	5.00E-05	1.00E-05	1.00E-05	1.00E-05	4.00E-05	2.00E-05	2.00E-05	2.00E-05	4.00E-05	4.00E-05	7.00E-05	3.00E-05	4.00E-05	5.00E-05	5.00E-05
KT-A8i	60	2.00E-05	3.00E-05	2.00E-05	4.00E-05	4.00E-05	4.00E-05	1.00E-05	1.00E-05	1.00E-05	3.00E-05	2.00E-05	2.00E-05	2.00E-05	3.00E-05	3.00E-05	6.00E-05	2.00E-05	3.00E-05	4.00E-05	4.00E-05
KT-A8j	70	1.00E-05	2.00E-05	2.00E-05	3.00E-05	3.00E-05	3.00E-05	0.00E+00	1.00E-05	1.00E-05	3.00E-05	1.00E-05	1.00E-05	1.00E-05	3.00E-05	2.00E-05	4.00E-05	2.00E-05	3.00E-05	3.00E-05	3.00E-05
KT-A8k	80	1.00E-05	2.00E-05	1.00E-05	2.00E-05	2.00E-05	3.00E-05	0.00E+00	1.00E-05	1.00E-05	2.00E-05	1.00E-05	1.00E-05	1.00E-05	2.00E-05	2.00E-05	3.00E-05	1.00E-05	2.00E-05	2.00E-05	2.00E-05
KT-A8l	90	1.00E-05	1.00E-05	1.00E-05	2.00E-05	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	2.00E-05	1.00E-05	1.00E-05	1.00E-05	2.00E-05	1.00E-05	3.00E-05	1.00E-05	2.00E-05	2.00E-05	2.00E-05
KT-A8m	100	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	2.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05
KT-A9	1.5	1.29E-03	2.21E-03	1.64E-03	3.12E-03	3.24E-03	3.37E-03	4.40E-04	7.00E-04	8.00E-04	2.75E-03	1.33E-03	1.28E-03	1.45E-03	2.66E-03	2.39E-03	4.66E-03	1.96E-03	2.71E-03	3.16E-03	3.20E-03
KT-A9a	4	1.92E-03	3.29E-03	2.44E-03	4.63E-03	4.82E-03	5.00E-03	6.60E-04	1.03E-03	1.19E-03	4.09E-03	1.98E-03	1.90E-03	2.15E-03	3.96E-03	3.56E-03	6.92E-03	2.91E-03	4.02E-03	4.70E-03	4.76E-03
KT-A9b	8	9.20E-04	1.58E-03	1.17E-03	2.22E-03	2.31E-03	2.40E-03	3.20E-04	5.00E-04	5.70E-04	1.96E-03	9.50E-04	9.10E-04	1.03E-03	1.90E-03	1.71E-03	3.32E-03	1.39E-03	1.93E-03	2.25E-03	2.28E-03
KT-A10	1.5	8.00E-05	1.30E-04	1.50E-04	1.90E-04	2.00E-04	2.00E-04	3.00E-05	4.00E-05	5.00E-05	1.70E-04	8.00E-05	8.00E-05	9.00E-05	1.60E-04	1.50E-04	2.80E-04	1.20E-04	1.60E-04	1.90E-04	1.90E-04
KT-A10a	4	8.00E-05	1.30E-04	1.50E-04	1.80E-04	1.90E-04	2.00E-04	3.00E-05	4.00E-05	5.00E-05	1.60E-04	8.00E-05	8.00E-05	8.00E-05	1.60E-04	1.40E-04	2.70E-04	1.10E-04	1.60E-04	1.90E-04	1.90E-04
KT-A10b	8	7.00E-05	1.20E-04	1.40E-04	1.70E-04	1.80E-04	1.80E-04	2.00E-05	4.00E-05	4.00E-05	1.50E-04	7.00E-05	7.00E-05	8.00E-05	1.50E-04	1.30E-04	2.60E-04	1.10E-04	1.50E-04	1.70E-04	1.80E-04
KT-A10c	12	7.00E-05	1.10E-04	1.10E-04	1.60E-04	1.70E-04	1.70E-04	2.00E-05	4.00E-05	4.00E-05	1.40E-04	7.00E-05	7.00E-05	7.00E-05	1.40E-04	1.20E-04	2.40E-04	1.00E-04	1.40E-04	1.60E-04	1.60E-04
KT-A10d	16	6.00E-05	1.10E-04	8.00E-05	1.50E-04	1.60E-04	1.60E-04	2.00E-05	3.00E-05	4.00E-05	1.30E-04	6.00E-05	6.00E-05	7.00E-05	1.30E-04	1.10E-04	2.20E-04	9.00E-05	1.30E-04	1.50E-04	1.50E-04
KT-A10e	20	6.00E-05	1.00E-04	7.00E-05	1.40E-04	1.40E-04	1.50E-04	2.00E-05	3.00E-05	4.00E-05	1.20E-04	6.00E-05	6.00E-05	6.00E-05	1.20E-04	1.10E-04	2.10E-04	9.00E-05	1.20E-04	1.40E-04	1.40E-04
KT-A10f	30	5.00E-05	8.00E-05	6.00E-05	1.10E-04	1.20E-04	1.20E-04	2.00E-05	3.00E-05	3.00E-05	1.00E-04	5.00E-05	5.00E-05	5.00E-05	1.00E-04	9.00E-05	1.70E-04	7.00E-05	1.00E-04	1.20E-04	1.20E-04
KT-A10g	40	4.00E-05	7.00E-05	5.00E-05	9.00E-05	1.00E-04	1.00E-04	1.00E-05	2.00E-05	2.00E-05	8.00E-05	4.00E-05	4.00E-05	4.00E-05	8.00E-05	7.00E-05	1.40E-04	6.00E-05	8.00E-05	9.00E-05	9.00E-05
KT-A10h	50	3.00E-05	5.00E-05	4.00E-05	7.00E-05	8.00E-05	8.00E-05	1.00E-05	2.00E-05	2.00E-05	6.00E-05	3.00E-05	3.00E-05	3.00E-05	6.00E-05	6.00E-05	1.10E-04	5.00E-05	6.00E-05	7.00E-05	7.00E-05
KT-A10i	60	2.00E-05	4.00E-05	3.00E-05	6.00E-05	6.00E-05	6.00E-05	1.00E-05	1.00E-05	1.00E-05	5.00E-05	2.00E-05	2.00E-05	3.00E-05	5.00E-05	4.00E-05	8.00E-05	3.00E-05	5.00E-05	6.00E-05	6.00E-05
KT-A10j	70	2.00E-05	3.00E-05	2.00E-05	4.00E-05	4.00E-05	4.00E-05	1.00E-05	1.00E-05	1.00E-05	4.00E-05	2.00E-05	2.00E-05	2.00E-05	3.00E-05	3.00E-05	6.00E-05	3.00E-05	3.00E-05	4.00E-05	4.00E-05
KT-A10k	80	1.00E-05	2.00E-05	1.00E-05	3.00E-05	3.00E-05	3.00E-05	0.00E+00	1.00E-05	1.00E-05	2.00E-05	1.00E-05	1.00E-05	1.00E-05	2.00E-05	2.00E-05	4.00E-05	2.00E-05	2.00E-05	3.00E-05	3.00E-05
KT-A10l	90	1.00E-05	1.00E-05	1.00E-05	2.00E-05	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	2.00E-05	1.00E-05	1.00E-05	1.00E-05	2.00E-05	1.00E-05	3.00E-05	1.00E-05	2.00E-05	2.00E-05	2.00E-05

AERMOD Model Results on Hydrocarbons (HC) **Option A, Part 3** **Hourly** = Used in Calculation on Project Contribution

Hourly		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20
		Naphthalene	Phenanthrer	Anthracene	Fluoranthen	Pyrene	Benzo(a)pyr	Benzene	Toluene	Ethylbenzen	Xylenes (Tot	Acenaphthy	Acenaphthe	Fluorene	Chrysene	Benzo(a)ant	Benzo(b)fluo	Benzo(k)fluo	Dibenzo(a,h	Indeno(1,2,3	Benzo(g,h,i)perylene
Maximum Value		**1.92E-03**	**3.29E-03**	**2.44E-03**	**4.63E-03**	**4.82E-03**	**5.00E-03**	**6.60E-04**	**1.03E-03**	**1.19E-03**	**4.09E-03**	**1.98E-03**	**1.90E-03**	**2.15E-03**	**3.96E-03**	**3.56E-03**	**6.92E-03**	**2.91E-03**	**4.02E-03**	**4.70E-03**	**4.76E-03**
ASR_ID	**mAG**																				
KT-A10m	100	1.00E-05	1.00E-05	1.00E-05	2.00E-05	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	3.00E-05	1.00E-05	1.00E-05	2.00E-05	2.00E-05
KT-A10n	110	1.00E-05	1.00E-05	1.00E-05	2.00E-05	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	2.00E-05	1.00E-05	1.00E-05	2.00E-05	2.00E-05
KT-A10o	120	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	2.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05
KT-A10p	130	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	2.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05
KT-A10q	140	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	2.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05
P01	1.5	2.70E-04	4.60E-04	3.40E-04	6.50E-04	6.70E-04	7.00E-04	9.00E-05	1.40E-04	1.70E-04	5.70E-04	2.80E-04	2.70E-04	3.00E-04	5.50E-04	5.00E-04	9.70E-04	4.10E-04	5.60E-04	6.60E-04	6.60E-04
P02	1.5	3.00E-04	5.10E-04	3.80E-04	7.20E-04	7.50E-04	7.80E-04	1.00E-04	1.60E-04	1.90E-04	6.40E-04	3.10E-04	3.00E-04	3.40E-04	6.20E-04	5.60E-04	1.08E-03	4.50E-04	6.30E-04	7.30E-04	7.40E-04
P03	1.5	2.30E-04	3.90E-04	2.90E-04	5.50E-04	5.70E-04	5.90E-04	8.00E-05	1.20E-04	1.40E-04	4.80E-04	2.30E-04	2.20E-04	2.50E-04	4.70E-04	4.20E-04	8.10E-04	3.40E-04	4.70E-04	5.50E-04	5.60E-04
P04	1.5	2.60E-04	4.50E-04	3.30E-04	6.30E-04	6.60E-04	6.80E-04	9.00E-05	1.40E-04	1.60E-04	5.60E-04	2.70E-04	2.60E-04	2.90E-04	5.40E-04	4.80E-04	9.40E-04	4.00E-04	5.50E-04	6.40E-04	6.50E-04
P10	1.5	1.60E-04	2.80E-04	2.10E-04	3.90E-04	4.10E-04	4.20E-04	6.00E-05	9.00E-05	1.00E-04	3.50E-04	1.70E-04	1.60E-04	1.80E-04	3.40E-04	3.00E-04	5.90E-04	2.50E-04	3.40E-04	4.00E-04	4.00E-04
P11	1.5	2.10E-04	3.60E-04	2.70E-04	5.10E-04	5.30E-04	5.50E-04	7.00E-05	1.10E-04	1.30E-04	4.50E-04	2.20E-04	2.10E-04	2.40E-04	4.30E-04	3.90E-04	7.60E-04	3.20E-04	4.40E-04	5.10E-04	5.20E-04
P12	1.5	2.10E-04	3.50E-04	2.60E-04	5.00E-04	5.20E-04	5.40E-04	7.00E-05	1.10E-04	1.30E-04	4.40E-04	2.10E-04	2.10E-04	2.30E-04	4.30E-04	3.80E-04	7.50E-04	3.10E-04	4.30E-04	5.10E-04	5.10E-04
P13	1.5	1.80E-04	3.00E-04	2.20E-04	4.30E-04	4.40E-04	4.60E-04	6.00E-05	1.00E-04	1.10E-04	3.80E-04	1.80E-04	1.80E-04	2.00E-04	3.70E-04	3.30E-04	6.40E-04	2.70E-04	3.70E-04	4.30E-04	4.40E-04
P14	1.5	1.20E-04	2.10E-04	1.70E-04	2.90E-04	3.00E-04	3.10E-04	4.00E-05	6.00E-05	7.00E-05	2.60E-04	1.20E-04	1.20E-04	1.30E-04	2.50E-04	2.20E-04	4.30E-04	1.80E-04	2.50E-04	2.90E-04	3.00E-04
P15	1.5	1.50E-04	2.50E-04	1.90E-04	3.50E-04	3.70E-04	3.80E-04	5.00E-05	8.00E-05	9.00E-05	3.10E-04	1.50E-04	1.40E-04	1.60E-04	3.00E-04	2.70E-04	5.30E-04	2.20E-04	3.10E-04	3.60E-04	3.60E-04
P16	1.5	1.70E-04	2.80E-04	2.20E-04	4.00E-04	4.20E-04	4.30E-04	6.00E-05	9.00E-05	1.00E-04	3.50E-04	1.70E-04	1.60E-04	1.90E-04	3.40E-04	3.10E-04	6.00E-04	2.50E-04	3.50E-04	4.10E-04	4.10E-04

AERMOD Model Results on Hydrocarbons (HC) **Option B, Part 1** **Hourly** = Used in Calculation on Project Contribution

Hourly		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20
		Naphthalene	Phenanthrer	Anthracene	Fluoranthen	Pyrene	Benzo(a)pyr	Benzene	Toluene	Ethylbenzen	Xylenes (Tot	Acenaphthy	Acenaphthe	Fluorene	Chrysene	Benzo(a)ant	Benzo(b)fluo	Benzo(k)fluo	Dibenzo(a,h)	Indeno(1,2,3	Benzo(g,h,i)perylene
Maximum Value		8.30E-04	5.25E-03	3.45E-03	2.17E-02	2.63E-02	2.53E-02	4.20E-04	5.00E-04	5.80E-04	1.76E-03	4.90E-03	1.28E-03	1.54E-03	1.34E-02	1.13E-02	2.55E-02	1.20E-02	4.85E-03	9.55E-03	1.17E-02
ASR_ID	mAG																				
KT-A1	1.5	3.90E-04	2.60E-03	1.71E-03	1.09E-02	1.32E-02	1.27E-02	2.00E-04	2.40E-04	2.70E-04	8.20E-04	2.45E-03	6.20E-04	7.50E-04	6.73E-03	5.67E-03	1.28E-02	6.02E-03	2.39E-03	4.75E-03	5.83E-03
KT-A1a	4	5.00E-04	3.35E-03	2.20E-03	1.41E-02	1.70E-02	1.64E-02	2.60E-04	3.10E-04	3.50E-04	1.06E-03	3.15E-03	7.90E-04	9.60E-04	8.67E-03	7.31E-03	1.65E-02	7.76E-03	3.07E-03	6.12E-03	7.52E-03
KT-A1b	8	4.80E-04	3.19E-03	2.09E-03	1.34E-02	1.62E-02	1.56E-02	2.50E-04	2.90E-04	3.40E-04	1.01E-03	3.00E-03	7.60E-04	9.20E-04	8.25E-03	6.96E-03	1.57E-02	7.39E-03	2.93E-03	5.83E-03	7.16E-03
KT-A1c	12	1.30E-04	8.70E-04	5.70E-04	3.64E-03	4.40E-03	4.23E-03	7.00E-05	8.00E-05	9.00E-05	2.80E-04	8.20E-04	2.10E-04	2.50E-04	2.24E-03	1.89E-03	4.26E-03	2.01E-03	8.00E-04	1.58E-03	1.95E-03
KT-A1d	16	9.00E-05	6.20E-04	4.10E-04	2.60E-03	3.15E-03	3.03E-03	5.00E-05	6.00E-05	7.00E-05	2.00E-04	5.80E-04	1.50E-04	1.80E-04	1.60E-03	1.35E-03	3.05E-03	1.43E-03	5.70E-04	1.13E-03	1.39E-03
KT-A1e	20	7.00E-05	4.50E-04	3.00E-04	1.89E-03	2.30E-03	2.20E-03	4.00E-05	4.00E-05	5.00E-05	1.40E-04	4.30E-04	1.10E-04	1.30E-04	1.17E-03	9.90E-04	2.22E-03	1.05E-03	4.20E-04	8.30E-04	1.01E-03
KT-A1f	30	5.00E-05	2.30E-04	1.50E-04	9.60E-04	1.16E-03	1.11E-03	2.00E-05	3.00E-05	3.00E-05	1.00E-04	2.10E-04	5.00E-05	7.00E-05	5.90E-04	5.00E-04	1.12E-03	5.30E-04	2.10E-04	4.20E-04	5.10E-04
KT-A1g	40	3.00E-05	1.20E-04	8.00E-05	5.20E-04	6.20E-04	6.00E-04	1.00E-05	2.00E-05	2.00E-05	7.00E-05	1.20E-04	3.00E-05	4.00E-05	3.20E-04	2.70E-04	6.10E-04	2.80E-04	1.10E-04	2.30E-04	2.80E-04
KT-A1h	50	2.00E-05	6.00E-05	4.00E-05	2.60E-04	3.10E-04	3.00E-04	1.00E-05	1.00E-05	1.00E-05	5.00E-05	6.00E-05	2.00E-05	3.00E-05	1.60E-04	1.40E-04	3.00E-04	1.40E-04	6.00E-05	1.10E-04	1.40E-04
KT-A1i	60	2.00E-05	4.00E-05	2.00E-05	1.40E-04	1.70E-04	1.70E-04	1.00E-05	1.00E-05	1.00E-05	3.00E-05	3.00E-05	2.00E-05	2.00E-05	9.00E-05	8.00E-05	1.70E-04	8.00E-05	3.00E-05	7.00E-05	8.00E-05
KT-A1j	70	1.00E-05	2.00E-05	2.00E-05	8.00E-05	1.00E-04	9.00E-05	0.00E+00	1.00E-05	1.00E-05	2.00E-05	2.00E-05	1.00E-05	1.00E-05	5.00E-05	4.00E-05	1.00E-04	4.00E-05	2.00E-05	4.00E-05	5.00E-05
KT-A1k	80	1.00E-05	1.00E-05	1.00E-05	5.00E-05	6.00E-05	5.00E-05	0.00E+00	0.00E+00	1.00E-05	2.00E-05	1.00E-05	1.00E-05	1.00E-05	3.00E-05	3.00E-05	6.00E-05	3.00E-05	2.00E-05	3.00E-05	3.00E-05
KT-A1l	90	1.00E-05	1.00E-05	1.00E-05	3.00E-05	3.00E-05	3.00E-05	0.00E+00	0.00E+00	0.00E+00	2.00E-05	1.00E-05	1.00E-05	1.00E-05	2.00E-05	2.00E-05	3.00E-05	2.00E-05	2.00E-05	2.00E-05	2.00E-05
KT-A1m	100	1.00E-05	1.00E-05	1.00E-05	2.00E-05	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	2.00E-05	1.00E-05	1.00E-05	2.00E-05	2.00E-05
KT-A2	1.5	8.00E-04	5.01E-03	3.30E-03	2.07E-02	2.51E-02	2.41E-02	4.00E-04	4.80E-04	5.60E-04	1.69E-03	4.68E-03	1.22E-03	1.48E-03	1.28E-02	1.08E-02	2.44E-02	1.15E-02	4.63E-03	9.11E-03	1.12E-02
KT-A2a	4	8.30E-04	5.25E-03	3.45E-03	2.17E-02	2.63E-02	2.53E-02	4.20E-04	5.00E-04	5.80E-04	1.76E-03	4.90E-03	1.28E-03	1.54E-03	1.34E-02	1.13E-02	2.55E-02	1.20E-02	4.85E-03	9.55E-03	1.17E-02
KT-A2b	8	5.70E-04	3.55E-03	2.34E-03	1.46E-02	1.77E-02	1.70E-02	2.90E-04	3.50E-04	4.00E-04	1.21E-03	3.31E-03	8.70E-04	1.05E-03	9.06E-03	7.65E-03	1.72E-02	8.09E-03	3.29E-03	6.45E-03	7.89E-03
KT-A2c	12	3.10E-04	1.84E-03	1.21E-03	7.48E-03	9.04E-03	8.70E-03	1.50E-04	1.90E-04	2.20E-04	6.60E-04	1.70E-03	4.60E-04	5.60E-04	4.64E-03	3.92E-03	8.81E-03	4.14E-03	1.71E-03	3.33E-03	4.06E-03
KT-A2d	16	1.30E-04	6.70E-04	4.50E-04	2.61E-03	3.14E-03	3.03E-03	6.00E-05	8.00E-05	9.00E-05	2.80E-04	6.10E-04	1.80E-04	2.20E-04	1.63E-03	1.38E-03	3.09E-03	1.45E-03	6.40E-04	1.20E-03	1.45E-03
KT-A2e	20	7.00E-05	4.00E-04	2.70E-04	1.64E-03	1.98E-03	1.91E-03	3.00E-05	4.00E-05	5.00E-05	1.50E-04	3.70E-04	1.00E-04	1.20E-04	1.02E-03	8.60E-04	1.93E-03	9.10E-04	3.80E-04	7.30E-04	8.90E-04
KT-A2f	30	3.00E-05	1.90E-04	1.30E-04	7.80E-04	9.40E-04	9.10E-04	2.00E-05	2.00E-05	2.00E-05	7.00E-05	1.80E-04	5.00E-05	6.00E-05	4.90E-04	4.10E-04	9.20E-04	4.30E-04	1.80E-04	3.50E-04	4.30E-04
KT-A2g	40	2.00E-05	1.00E-04	6.00E-05	3.70E-04	4.50E-04	4.30E-04	1.00E-05	1.00E-05	1.00E-05	5.00E-05	9.00E-05	3.00E-05	3.00E-05	2.30E-04	2.00E-04	4.40E-04	2.10E-04	9.00E-05	1.70E-04	2.10E-04
KT-A2h	50	2.00E-05	5.00E-05	3.00E-05	1.70E-04	2.00E-04	1.90E-04	1.00E-05	1.00E-05	1.00E-05	3.00E-05	4.00E-05	2.00E-05	2.00E-05	1.10E-04	9.00E-05	2.00E-04	9.00E-05	5.00E-05	8.00E-05	1.00E-04
KT-A2i	60	1.00E-05	2.00E-05	2.00E-05	7.00E-05	8.00E-05	8.00E-05	0.00E+00	1.00E-05	1.00E-05	2.00E-05	2.00E-05	1.00E-05	1.00E-05	5.00E-05	4.00E-05	9.00E-05	4.00E-05	2.00E-05	4.00E-05	4.00E-05
KT-A2j	70	1.00E-05	1.00E-05	1.00E-05	3.00E-05	4.00E-05	4.00E-05	0.00E+00	0.00E+00	1.00E-05	2.00E-05	1.00E-05	1.00E-05	1.00E-05	2.00E-05	2.00E-05	4.00E-05	2.00E-05	2.00E-05	2.00E-05	2.00E-05
KT-A2k	80	1.00E-05	1.00E-05	1.00E-05	2.00E-05	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	2.00E-05	1.00E-05	1.00E-05	1.00E-05	2.00E-05	1.00E-05	3.00E-05	1.00E-05	2.00E-05	2.00E-05	2.00E-05
KT-A2l	90	1.00E-05	1.00E-05	1.00E-05	2.00E-05	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	2.00E-05	1.00E-05	1.00E-05	2.00E-05	2.00E-05
KT-A2m	100	1.00E-05	1.00E-05	1.00E-05	1.00E-05	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	2.00E-05	1.00E-05	1.00E-05	1.00E-05	2.00E-05
KT-A2n	110	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	2.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05
KT-A2o	120	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05	1.00E-05	2.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05
KT-A2p	130	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	2.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05
KT-A2q	140	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05
KT-A2r	150	0.00E+00	1.00E-05	0.00E+00	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05
KT-A2s	160	0.00E+00	1.00E-05	0.00E+00	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05	1.00E-05
KT-A2t	170	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05	1.00E-05
KT-A2u	180	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	1.00E-05	0.00E+00	1.00E-05	1.00E-05	1.00E-05
KT-A3	1.5	2.10E-04	1.39E-03	9.10E-04	5.84E-03	7.08E-03	6.80E-03	1.10E-04	1.30E-04	1.50E-04	4.40E-04	1.31E-03	3.30E-04	4.00E-04	3.60E-03	3.04E-03	6.85E-03	3.22E-03	1.28E-03	2.54E-03	3.12E-03
KT-A3a	4	2.10E-04	1.26E-03	8.20E-04	5.28E-03	6.39E-03	6.14E-03	1.00E-04	1.20E-04	1.30E-04	4.40E-04	1.18E-03	3.00E-04	3.60E-04	3.25E-03	2.74E-03	6.19E-03	2.91E-03	1.15E-03	2.30E-03	2.82E-03
KT-A3b	8	1.70E-04	9.20E-04	6.00E-04	3.87E-03	4.69E-03	4.50E-03	7.00E-05	9.00E-05	1.10E-04	3.70E-04	8.70E-04	2.20E-04	2.60E-04	2.38E-03	2.01E-03	4.54E-03	2.13E-03	8.50E-04	1.68E-03	2.07E-03
KT-A3c	12	1.10E-04	5.10E-04	3.30E-04	2.14E-03	2.59E-03	2.49E-03	4.00E-05	6.00E-05	7.00E-05	2.40E-04	4.80E-04	1.20E-04	1.50E-04	1.32E-03	1.11E-03	2.50E-03	1.18E-03	4.70E-04	9.30E-04	1.14E-03
KT-A3d	16	6.00E-05	4.00E-04	2.60E-04	1.67E-03	2.02E-03	1.94E-03	3.00E-05	4.00E-05	4.00E-05	1.30E-04	3.70E-04	9.00E-05	1.10E-04	1.03E-03	8.70E-04	1.96E-03	9.20E-04	3.60E-04	7.30E-04	8.90E-04
KT-A3e	20	5.00E-05	3.30E-04	2.10E-04	1.37E-03	1.66E-03	1.59E-03	3.00E-05	3.00E-05	3.00E-05	1.00E-04	3.10E-04	8.00E-05	9.00E-05	8.40E-04	7.10E-04	1.60E-03	7.50E-04	3.00E-04	6.00E-04	7.30E-04
KT-A3f	30	3.00E-05	2.10E-04	1.30E-04	8.60E-04	1.05E-03	1.00E-03	2.00E-05	2.00E-05	2.00E-05	7.00E-05	1.90E-04	5.00E-05	6.00E-05	5.30E-04	4.50E-04	1.01E-03	4.80E-04	1.90E-04	3.80E-04	4.60E-04
KT-A3g	40	2.00E-05	1.40E-04	9.00E-05	5.70E-04	6.90E-04	6.60E-04	1.00E-05	1.00E-05	1.00E-05	4.00E-05	1.30E-04	3.00E-05	4.00E-05	3.50E-04	2.90E-04	6.70E-04	3.10E-04	1.20E-04	2.50E-04	3.00E-04
KT-A3h	50	1.00E-05	9.00E-05	6.00E-05	3.90E-04	4.80E-04	4.60E-04	1.00E-05	1.00E-05	1.00E-05	3.00E-05	9.00E-05	2.00E-05	3.00E-05	2.40E-04	2.00E-04	4.60E-04	2.20E-04	9.00E-05	1.70E-04	2.10E-04
KT-A3i	60	1.00E-05	7.00E-05	5.00E-05	3.10E-04	3.80E-04	3.60E-04	1.00E-05	1.00E-05	1.00E-05	3.00E-05	7.00E-05	2.00E-05	2.00E-05	1.90E-04	1.60E-04	3.60E-04	1.70E-04	7.00E-05	1.40E-04	1.70E-04
KT-A3j	70	1.00E-05	6.00E-05	4.00E-05	2.40E-04	2.90E-04	2.80E-04	0.00E+00	1.00E-05	1.00E-05	2.00E-05	5.00E-05	1.00E-05	2.00E-05	1.50E-04	1.20E-04	2.80E-04	1.30E-04	5.00E-05	1.00E-04	1.30E-04
KT-A3k	80	1.00E-05	4.00E-05	3.00E-05	1.80E-04	2.20E-04	2.10E-04	0.00E+00	1.00E-05	1.00E-05	2.00E-05	4.00E-05	1.00E-05	1.00E-05	1.10E-04	9.00E-05	2.10E-04	1.00E-04	4.00E-05	8.00E-05	1.00E-04
KT-A3l	90	1.00E-05	3.00E-05	2.00E-05	1.40E-04	1.70E-04	1.60E-04	0.00E+00	0.00E+00	1.00E-05	2.00E-05	3.00E-05	1.00E-05	1.00E-05	8.00E-05	7.00E-05	1.60E-04	8.00E-05	3.00E-05	6.00E-05	7.00E-05
KT-A3m	100	1.00E-05	3.00E-05	2.00E-05	1.10E-04	1.40E-04	1.30E-04	0.00E+00	0.00E+00	0.00E+00	2.00E-05	3.00E-05	1.00E-05	1.00E-05	7.00E-05	6.00E-05	1.30E-04	6.00E-05	3.00E-05	5.00E-05	6.00E-05
KT-A4	1.5	1.80E-04	3.00E-04	3.60E-04	1.01E-03	1.23E-03	1.18E-03	6.00E-05	1.00E-04	1.10E-04	3.80E-04	2.30E-04	1.80E-04	2.00E-04	6.30E-04	5.30E-04	1.19E-03	5.60E-04	3.70E-04	4.40E-04	5.40E-04
KT-A4a	4	2.00E-04	3.40E-04	3.10E-04	8.50E-04	1.03E-03	9.90E-04	7.00E-05	1.10E-04	1.20E-04	4.20E-04	2.00E-04	2.00E-04	2.20E-04	5.30E-04	4.40E-04	1.00E-03	4.70E-04	4.10E-04	4.80E-04	4.90E-04
KT-A4b	8	1.50E-04	2.60E-04	2.00E-04	5.50E-04	6.70E-04	6.40E-04	5.00E-05	8.00E-05	9.00E-05	3.20E-04	1.50E-04	1.50E-04	1.70E-04	3.40E-04	2.90E-04	6.50E-04	3.00E-04	3.10E-04	3.70E-04	3.70E-04
KT-A4c	12	1.00E-04	1.70E-04	1.30E-04	5.00E-04	6.00E-04	5.80E-04	3.00E-05	5.00E-05	6.00E-05	2.10E-04	1.10E-04	1.00E-04	1.10E-04	3.10E-04	2.60E-04	5.80E-04	2.70E-04	2.10E-04	2.50E-04	2.70E-04
KT-A4d	16	8.00E-05	1.40E-04	1.10E-04	4.70E-04	5.70E-04	5.50E-04	3.00E-05	5.00E-05	5.00E-05	1.80E-04	1.10E-04	8.00E-05	9.00E-05	2.90E-04	2.40E-04	5.50E-04	2.60E-04	1.80E-04	2.10E-04	2.50E-04
KT-A4e	20	7.00E-05	1.20E-04	9.00E-05	4.30E-04	5.20E-04	5.00E-04	2.00E-05	4.00E-05	4.00E-05	1.50E-04	1.00E-04	7.00E-05	8.00E-05	2.70E-04	2.20E-04	5.10E-04	2.40E-04	1.50E-04	1.90E-04	2.30E-04

AERMOD Model Results on Hydrocarbons (HC) **Option B, Part 1** **Hourly** = Used in Calculation on Project Contribution

Hourly		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20
		Naphthalene	Phenanthrer	Anthracene	Fluoranthen	Pyrene	Benzo(a)pyr	Benzene	Toluene	Ethylbenzen	Xylenes (Tot	Acenaphthy	Acenaphthe	Fluorene	Chrysene	Benzo(a)ant	Benzo(b)fluo	Benzo(k)fluo	Dibenzo(a,h)	Indeno(1,2,3	Benzo(g,h,i)perylene
Maximum Value		**8.30E-04**	**5.25E-03**	**3.45E-03**	**2.17E-02**	**2.63E-02**	**2.53E-02**	**4.20E-04**	**5.00E-04**	**5.80E-04**	**1.76E-03**	**4.90E-03**	**1.28E-03**	**1.54E-03**	**1.34E-02**	**1.13E-02**	**2.55E-02**	**1.20E-02**	**4.85E-03**	**9.55E-03**	**1.17E-02**
ASR_ID	**mAG**																				
KT-A4f	30	4.00E-05	9.00E-05	6.00E-05	3.70E-04	4.40E-04	4.30E-04	1.00E-05	2.00E-05	3.00E-05	9.00E-05	8.00E-05	4.00E-05	5.00E-05	2.30E-04	1.90E-04	4.30E-04	2.00E-04	9.00E-05	1.60E-04	2.00E-04
KT-A4g	40	3.00E-05	7.00E-05	5.00E-05	2.90E-04	3.60E-04	3.40E-04	1.00E-05	1.00E-05	2.00E-05	6.00E-05	7.00E-05	3.00E-05	3.00E-05	1.80E-04	1.50E-04	3.40E-04	1.60E-04	6.00E-05	1.30E-04	1.60E-04
KT-A4h	50	2.00E-05	5.00E-05	3.00E-05	2.20E-04	2.70E-04	2.60E-04	1.00E-05	1.00E-05	1.00E-05	4.00E-05	5.00E-05	2.00E-05	2.00E-05	1.40E-04	1.10E-04	2.60E-04	1.20E-04	5.00E-05	1.00E-04	1.20E-04
KT-A4i	60	2.00E-05	4.00E-05	2.00E-05	1.60E-04	1.90E-04	1.80E-04	1.00E-05	1.00E-05	1.00E-05	3.00E-05	4.00E-05	2.00E-05	2.00E-05	1.00E-04	8.00E-05	1.80E-04	9.00E-05	3.00E-05	7.00E-05	8.00E-05
KT-A4j	70	1.00E-05	3.00E-05	2.00E-05	1.30E-04	1.50E-04	1.50E-04	0.00E+00	1.00E-05	1.00E-05	3.00E-05	3.00E-05	1.00E-05	1.00E-05	8.00E-05	7.00E-05	1.50E-04	7.00E-05	3.00E-05	6.00E-05	7.00E-05
KT-A4k	80	1.00E-05	3.00E-05	2.00E-05	1.20E-04	1.40E-04	1.30E-04	0.00E+00	0.00E+00	1.00E-05	2.00E-05	3.00E-05	1.00E-05	1.00E-05	7.00E-05	6.00E-05	1.40E-04	6.00E-05	3.00E-05	5.00E-05	6.00E-05
KT-A4l	90	1.00E-05	3.00E-05	2.00E-05	1.10E-04	1.30E-04	1.20E-04	0.00E+00	0.00E+00	0.00E+00	2.00E-05	2.00E-05	1.00E-05	1.00E-05	7.00E-05	6.00E-05	1.20E-04	6.00E-05	2.00E-05	5.00E-05	6.00E-05
KT-A4m	100	1.00E-05	2.00E-05	2.00E-05	1.00E-04	1.20E-04	1.10E-04	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05	1.00E-05	1.00E-05	6.00E-05	5.00E-05	1.10E-04	5.00E-05	2.00E-05	4.00E-05	5.00E-05
KT-A4n	110	1.00E-05	2.00E-05	1.00E-05	9.00E-05	1.10E-04	1.00E-04	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05	1.00E-05	1.00E-05	5.00E-05	5.00E-05	1.00E-04	5.00E-05	2.00E-05	4.00E-05	5.00E-05
KT-A4o	120	0.00E+00	2.00E-05	1.00E-05	8.00E-05	1.00E-04	9.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05	0.00E+00	1.00E-05	5.00E-05	4.00E-05	9.00E-05	4.00E-05	2.00E-05	3.00E-05	4.00E-05
KT-A5	1.5	1.60E-04	3.20E-04	3.50E-04	8.90E-04	1.03E-03	1.01E-03	5.00E-05	9.00E-05	1.00E-04	3.40E-04	2.50E-04	1.60E-04	1.80E-04	6.00E-04	5.20E-04	1.12E-03	5.10E-04	3.50E-04	5.20E-04	5.90E-04
KT-A5a	4	1.80E-04	3.40E-04	3.30E-04	1.00E-03	1.17E-03	1.14E-03	6.00E-05	1.00E-04	1.10E-04	3.80E-04	2.70E-04	1.80E-04	2.00E-04	6.70E-04	5.70E-04	1.24E-03	5.70E-04	3.70E-04	5.60E-04	6.40E-04
KT-A5b	8	1.10E-04	3.20E-04	2.60E-04	1.04E-03	1.24E-03	1.20E-03	4.00E-05	6.00E-05	7.00E-05	2.40E-04	2.60E-04	1.10E-04	1.30E-04	6.80E-04	5.80E-04	1.27E-03	5.90E-04	3.30E-04	5.40E-04	6.30E-04
KT-A5c	12	7.00E-05	2.60E-04	1.80E-04	9.40E-04	1.12E-03	1.09E-03	3.00E-05	4.00E-05	4.00E-05	1.40E-04	2.30E-04	8.00E-05	1.00E-04	6.00E-04	5.10E-04	1.13E-03	5.20E-04	2.60E-04	4.60E-04	5.40E-04
KT-A5d	16	5.00E-05	1.90E-04	1.30E-04	7.30E-04	8.80E-04	8.50E-04	2.00E-05	3.00E-05	3.00E-05	1.10E-04	1.70E-04	5.00E-05	6.00E-05	4.60E-04	3.90E-04	8.70E-04	4.10E-04	1.80E-04	3.40E-04	4.10E-04
KT-A5e	20	5.00E-05	1.20E-04	8.00E-05	4.80E-04	5.80E-04	5.60E-04	2.00E-05	2.00E-05	3.00E-05	1.00E-04	1.10E-04	5.00E-05	5.00E-05	3.00E-04	2.50E-04	5.60E-04	2.60E-04	1.10E-04	2.10E-04	2.60E-04
KT-A6	1.5	5.30E-04	9.10E-04	6.70E-04	1.28E-03	1.33E-03	1.38E-03	1.80E-04	2.90E-04	3.30E-04	1.13E-03	5.50E-04	5.20E-04	5.90E-04	1.09E-03	9.80E-04	1.91E-03	8.00E-04	1.11E-03	1.30E-03	1.31E-03
KT-A6a	4	4.90E-04	8.30E-04	6.20E-04	1.17E-03	1.38E-03	1.32E-03	1.70E-04	2.60E-04	3.00E-04	1.04E-03	5.00E-04	4.80E-04	5.50E-04	1.00E-03	9.00E-04	1.75E-03	7.40E-04	1.02E-03	1.19E-03	1.20E-03
KT-A6b	8	3.60E-04	6.10E-04	4.50E-04	1.24E-03	1.50E-03	1.44E-03	1.20E-04	1.90E-04	2.20E-04	7.60E-04	3.70E-04	3.50E-04	4.00E-04	7.60E-04	6.60E-04	1.45E-03	6.80E-04	7.50E-04	8.70E-04	8.80E-04
KT-A6c	12	1.60E-04	2.70E-04	2.00E-04	1.10E-03	1.33E-03	1.28E-03	5.00E-05	8.00E-05	1.00E-04	3.30E-04	2.50E-04	1.50E-04	1.70E-04	6.80E-04	5.70E-04	1.29E-03	6.10E-04	3.30E-04	4.80E-04	5.90E-04
KT-A7	1.5	2.90E-04	4.90E-04	3.70E-04	7.00E-04	8.10E-04	7.80E-04	1.00E-04	1.60E-04	1.80E-04	6.10E-04	3.00E-04	2.90E-04	3.20E-04	5.90E-04	5.30E-04	1.04E-03	4.40E-04	6.00E-04	7.00E-04	7.10E-04
KT-A7a	4	2.60E-04	4.40E-04	3.20E-04	6.20E-04	6.60E-04	6.70E-04	9.00E-05	1.40E-04	1.60E-04	5.50E-04	2.60E-04	2.50E-04	2.90E-04	5.30E-04	4.70E-04	9.20E-04	3.90E-04	5.40E-04	6.30E-04	6.30E-04
KT-A7b	8	1.90E-04	3.30E-04	2.50E-04	4.70E-04	4.90E-04	5.10E-04	7.00E-05	1.00E-04	1.20E-04	4.10E-04	2.00E-04	1.90E-04	2.20E-04	4.00E-04	3.60E-04	7.00E-04	2.90E-04	4.10E-04	4.80E-04	4.80E-04
KT-A7c	12	1.10E-04	1.90E-04	1.40E-04	3.70E-04	4.50E-04	4.40E-04	4.00E-05	6.00E-05	7.00E-05	2.30E-04	1.10E-04	1.10E-04	1.20E-04	2.30E-04	2.00E-04	4.40E-04	2.10E-04	2.30E-04	2.70E-04	2.70E-04
KT-A7d	16	5.00E-05	9.00E-05	7.00E-05	3.50E-04	4.30E-04	4.10E-04	2.00E-05	3.00E-05	3.00E-05	1.20E-04	8.00E-05	5.00E-05	6.00E-05	2.20E-04	1.80E-04	4.20E-04	2.00E-04	1.10E-04	1.50E-04	1.90E-04
KT-A7e	20	5.00E-05	8.00E-05	6.00E-05	3.30E-04	4.00E-04	3.80E-04	2.00E-05	3.00E-05	3.00E-05	1.00E-04	7.00E-05	5.00E-05	5.00E-05	2.00E-04	1.70E-04	3.80E-04	1.80E-04	1.00E-04	1.40E-04	1.70E-04
KT-A8	1.5	8.00E-05	2.00E-04	1.40E-04	5.50E-04	6.40E-04	6.30E-04	3.00E-05	4.00E-05	5.00E-05	1.60E-04	1.50E-04	8.00E-05	1.00E-04	3.80E-04	3.20E-04	7.00E-04	3.20E-04	2.20E-04	3.30E-04	3.70E-04
KT-A8a	4	1.00E-04	2.50E-04	1.80E-04	6.80E-04	7.90E-04	7.70E-04	4.00E-05	5.00E-05	6.00E-05	2.00E-04	1.90E-04	1.00E-04	1.20E-04	4.60E-04	4.00E-04	8.50E-04	3.90E-04	2.70E-04	4.00E-04	4.50E-04
KT-A8b	8	1.10E-04	3.00E-04	2.10E-04	8.30E-04	9.60E-04	9.40E-04	4.00E-05	6.00E-05	7.00E-05	2.40E-04	2.30E-04	1.30E-04	1.50E-04	5.60E-04	4.90E-04	1.04E-03	4.70E-04	3.30E-04	4.90E-04	5.50E-04
KT-A8c	12	1.10E-04	3.00E-04	2.10E-04	8.40E-04	9.80E-04	9.60E-04	4.00E-05	6.00E-05	7.00E-05	2.30E-04	2.30E-04	1.20E-04	1.40E-04	5.70E-04	4.90E-04	1.05E-03	4.80E-04	3.20E-04	4.90E-04	5.50E-04
KT-A8d	16	8.00E-05	2.40E-04	1.70E-04	7.20E-04	8.50E-04	8.30E-04	3.00E-05	5.00E-05	5.00E-05	1.80E-04	1.90E-04	9.00E-05	1.10E-04	4.80E-04	4.10E-04	8.90E-04	4.10E-04	2.60E-04	4.00E-04	4.60E-04
KT-A8e	20	5.00E-05	1.60E-04	1.10E-04	5.20E-04	6.20E-04	6.00E-04	2.00E-05	3.00E-05	3.00E-05	1.10E-04	1.30E-04	6.00E-05	7.00E-05	3.40E-04	2.90E-04	6.40E-04	3.00E-04	1.70E-04	2.80E-04	3.20E-04
KT-A8f	30	3.00E-05	8.00E-05	6.00E-05	2.20E-04	2.60E-04	2.60E-04	1.00E-05	2.00E-05	2.00E-05	6.00E-05	6.00E-05	3.00E-05	4.00E-05	1.50E-04	1.30E-04	2.80E-04	1.30E-04	9.00E-05	1.30E-04	1.50E-04
KT-A8g	40	3.00E-05	7.00E-05	5.00E-05	2.10E-04	2.50E-04	2.40E-04	1.00E-05	1.00E-05	2.00E-05	6.00E-05	6.00E-05	3.00E-05	3.00E-05	1.40E-04	1.20E-04	2.60E-04	1.20E-04	8.00E-05	1.20E-04	1.40E-04
KT-A8h	50	2.00E-05	7.00E-05	5.00E-05	2.00E-04	2.30E-04	2.20E-04	1.00E-05	1.00E-05	1.00E-05	5.00E-05	5.00E-05	2.00E-05	3.00E-05	1.30E-04	1.10E-04	2.40E-04	1.10E-04	7.00E-05	1.10E-04	1.20E-04
KT-A8i	60	2.00E-05	6.00E-05	4.00E-05	1.70E-04	2.10E-04	2.00E-04	1.00E-05	1.00E-05	1.00E-05	4.00E-05	5.00E-05	2.00E-05	2.00E-05	1.10E-04	1.00E-04	2.10E-04	1.00E-04	6.00E-05	9.00E-05	1.10E-04
KT-A8j	70	1.00E-05	5.00E-05	3.00E-05	1.50E-04	1.80E-04	1.80E-04	1.00E-05	1.00E-05	1.00E-05	3.00E-05	4.00E-05	2.00E-05	2.00E-05	1.00E-04	8.00E-05	1.90E-04	9.00E-05	5.00E-05	8.00E-05	9.00E-05
KT-A8k	80	1.00E-05	4.00E-05	3.00E-05	1.30E-04	1.60E-04	1.50E-04	0.00E+00	1.00E-05	1.00E-05	2.00E-05	3.00E-05	1.00E-05	1.00E-05	8.00E-05	7.00E-05	1.60E-04	7.00E-05	4.00E-05	6.00E-05	8.00E-05
KT-A8l	90	1.00E-05	3.00E-05	2.00E-05	1.10E-04	1.30E-04	1.30E-04	0.00E+00	0.00E+00	1.00E-05	2.00E-05	3.00E-05	1.00E-05	1.00E-05	7.00E-05	6.00E-05	1.30E-04	6.00E-05	3.00E-05	5.00E-05	6.00E-05
KT-A8m	100	1.00E-05	2.00E-05	2.00E-05	9.00E-05	1.10E-04	1.10E-04	0.00E+00	0.00E+00	0.00E+00	2.00E-05	2.00E-05	1.00E-05	1.00E-05	6.00E-05	5.00E-05	1.10E-04	5.00E-05	2.00E-05	4.00E-05	5.00E-05
KT-A9	1.5	4.80E-04	8.30E-04	6.10E-04	1.17E-03	1.25E-03	1.26E-03	1.70E-04	2.60E-04	3.00E-04	1.03E-03	5.00E-04	4.80E-04	5.40E-04	1.00E-03	9.00E-04	1.75E-03	7.30E-04	1.01E-03	1.18E-03	1.20E-03
KT-A9a	4	4.10E-04	7.00E-04	5.20E-04	1.14E-03	1.34E-03	1.31E-03	1.40E-04	2.20E-04	2.50E-04	8.70E-04	4.20E-04	4.00E-04	4.60E-04	8.40E-04	7.60E-04	1.47E-03	6.40E-04	8.50E-04	1.00E-03	1.01E-03
KT-A9b	8	2.80E-04	4.70E-04	3.50E-04	1.15E-03	1.37E-03	1.33E-03	1.00E-04	1.50E-04	1.70E-04	5.90E-04	2.90E-04	2.70E-04	3.10E-04	7.30E-04	6.20E-04	1.37E-03	6.40E-04	5.80E-04	6.80E-04	6.80E-04
KT-A10	1.5	1.90E-04	1.30E-03	8.50E-04	5.45E-03	6.60E-03	6.34E-03	1.00E-04	1.20E-04	1.40E-04	4.10E-04	1.22E-03	3.10E-04	3.70E-04	3.36E-03	2.83E-03	6.39E-03	3.01E-03	1.19E-03	2.37E-03	2.91E-03
KT-A10a	4	1.90E-04	1.30E-03	8.50E-04	5.44E-03	6.59E-03	6.33E-03	1.00E-04	1.20E-04	1.40E-04	4.10E-04	1.22E-03	3.10E-04	3.70E-04	3.35E-03	2.83E-03	6.38E-03	3.00E-03	1.19E-03	2.37E-03	2.91E-03
KT-A10b	8	1.60E-04	1.04E-03	6.80E-04	4.38E-03	5.30E-03	5.09E-03	8.00E-05	1.00E-04	1.10E-04	3.30E-04	9.80E-04	2.50E-04	3.00E-04	2.70E-03	2.28E-03	5.13E-03	2.41E-03	9.60E-04	1.91E-03	2.34E-03
KT-A10c	12	8.00E-05	4.90E-04	3.20E-04	2.07E-03	2.51E-03	2.41E-03	4.00E-05	5.00E-05	5.00E-05	1.80E-04	4.60E-04	1.20E-04	1.40E-04	1.28E-03	1.08E-03	2.43E-03	1.14E-03	4.50E-04	9.00E-04	1.11E-03
KT-A10d	16	6.00E-05	4.10E-04	2.70E-04	1.70E-03	2.06E-03	1.98E-03	3.00E-05	4.00E-05	4.00E-05	1.30E-04	3.80E-04	1.00E-04	1.20E-04	1.05E-03	8.80E-04	1.99E-03	9.40E-04	3.70E-04	7.40E-04	9.10E-04
KT-A10e	20	5.00E-05	3.30E-04	2.20E-04	1.38E-03	1.68E-03	1.61E-03	3.00E-05	3.00E-05	3.00E-05	1.00E-04	3.10E-04	8.00E-05	1.00E-04	8.50E-04	7.20E-04	1.62E-03	7.60E-04	3.00E-04	6.00E-04	7.40E-04
KT-A10f	30	3.00E-05	2.00E-04	1.30E-04	8.30E-04	1.00E-03	9.60E-04	2.00E-05	2.00E-05	2.00E-05	6.00E-05	1.90E-04	5.00E-05	6.00E-05	5.10E-04	4.30E-04	9.70E-04	4.60E-04	1.80E-04	3.60E-04	4.40E-04
KT-A10g	40	2.00E-05	1.30E-04	9.00E-05	5.60E-04	6.80E-04	6.50E-04	1.00E-05	1.00E-05	1.00E-05	4.00E-05	1.30E-04	3.00E-05	4.00E-05	3.50E-04	2.90E-04	6.60E-04	3.10E-04	1.20E-04	2.40E-04	3.00E-04
KT-A10h	50	1.00E-05	1.00E-04	6.00E-05	4.10E-04	5.00E-04	4.80E-04	1.00E-05	1.00E-05	1.00E-05	3.00E-05	9.00E-05	2.00E-05	3.00E-05	2.50E-04	2.10E-04	4.80E-04	2.30E-04	9.00E-05	1.80E-04	2.20E-04
KT-A10i	60	1.00E-05	7.00E-05	5.00E-05	3.00E-04	3.60E-04	3.40E-04	1.00E-05	1.00E-05	1.00E-05	3.00E-05	7.00E-05	2.00E-05	2.00E-05	1.80E-04	1.50E-04	3.50E-04	1.60E-04	6.00E-05	1.30E-04	1.60E-04
KT-A10j	70	1.00E-05	5.00E-05	3.00E-05	2.10E-04	2.60E-04	2.50E-04	0.00E+00	1.00E-05	1.00E-05	2.00E-05	5.00E-05	1.00E-05	2.00E-05	1.30E-04	1.10E-04	2.50E-04	1.20E-04	5.00E-05	9.00E-05	1.10E-04
KT-A10k	80	1.00E-05	4.00E-05	3.00E-05	1.60E-04	2.00E-04	1.90E-04	0.00E+00	0.00E+00	1.00E-05	2.00E-05	4.00E-05	1.00E-05	1.00E-05	1.00E-04	9.00E-05	1.90E-04	9.00E-05	4.00E-05	7.00E-05	9.00E-05
KT-A10l	90	1.00E-05	3.00E-05	2.00E-05	1.40E-04	1.60E-04	1.60E-04	0.00E+00	0.00E+00	0.00E+00	2.00E-05	3.00E-05	1.00E-05	1.00E-05	9.00E-05	7.00E-05	1.60E-04	8.00E-05	3.00E-05	6.00E-05	8.00E-05

AERMOD Model Results on Hydrocarbons (HC) **Option B, Part 1** **Hourly** = Used in Calculation on Project Contribution

Hourly		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20
		Naphthalene	Phenanthrer	Anthracene	Fluoranthen	Pyrene	Benzo(a)pyr	Benzene	Toluene	Ethylbenzen	Xylenes (Tot	Acenaphthy	Acenaphthe	Fluorene	Chrysene	Benzo(a)ant	Benzo(b)fluo	Benzo(k)fluo	Dibenzo(a,h	Indeno(1,2,3	Benzo(g,h,i)perylene
Maximum Value		**8.30E-04**	**5.25E-03**	**3.45E-03**	**2.17E-02**	**2.63E-02**	**2.53E-02**	**4.20E-04**	**5.00E-04**	**5.80E-04**	**1.76E-03**	**4.90E-03**	**1.28E-03**	**1.54E-03**	**1.34E-02**	**1.13E-02**	**2.55E-02**	**1.20E-02**	**4.85E-03**	**9.55E-03**	**1.17E-02**
ASR_ID	**mAG**																				
KT-A10m	100	1.00E-05	3.00E-05	2.00E-05	1.10E-04	1.40E-04	1.30E-04	0.00E+00	0.00E+00	0.00E+00	1.00E-05	3.00E-05	1.00E-05	1.00E-05	7.00E-05	6.00E-05	1.30E-04	6.00E-05	3.00E-05	5.00E-05	6.00E-05
KT-A10n	110	1.00E-05	2.00E-05	2.00E-05	9.00E-05	1.10E-04	1.10E-04	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05	1.00E-05	1.00E-05	6.00E-05	5.00E-05	1.10E-04	5.00E-05	2.00E-05	4.00E-05	5.00E-05
KT-A10o	120	1.00E-05	2.00E-05	1.00E-05	7.00E-05	9.00E-05	9.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05	1.00E-05	1.00E-05	5.00E-05	4.00E-05	9.00E-05	4.00E-05	2.00E-05	3.00E-05	4.00E-05
KT-A10p	130	0.00E+00	2.00E-05	1.00E-05	6.00E-05	7.00E-05	7.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	1.00E-05	4.00E-05	3.00E-05	7.00E-05	3.00E-05	2.00E-05	3.00E-05	3.00E-05
KT-A10q	140	0.00E+00	1.00E-05	1.00E-05	5.00E-05	6.00E-05	5.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	3.00E-05	3.00E-05	6.00E-05	3.00E-05	1.00E-05	2.00E-05	3.00E-05
P01	1.5	4.50E-04	7.60E-04	5.70E-04	2.24E-03	2.72E-03	2.61E-03	1.50E-04	2.40E-04	2.80E-04	9.50E-04	5.00E-04	4.40E-04	5.00E-04	1.38E-03	1.17E-03	2.63E-03	1.24E-03	9.30E-04	1.09E-03	1.20E-03
P02	1.5	4.10E-04	6.90E-04	5.10E-04	2.07E-03	2.51E-03	2.41E-03	1.40E-04	2.20E-04	2.50E-04	8.60E-04	4.60E-04	4.00E-04	4.50E-04	1.27E-03	1.08E-03	2.43E-03	1.14E-03	8.50E-04	9.90E-04	1.11E-03
P03	1.5	4.00E-04	6.80E-04	5.10E-04	2.52E-03	3.05E-03	2.93E-03	1.40E-04	2.10E-04	2.50E-04	8.50E-04	5.60E-04	4.00E-04	4.50E-04	1.55E-03	1.31E-03	2.95E-03	1.39E-03	8.30E-04	1.10E-03	1.35E-03
P04	1.5	3.90E-04	6.70E-04	5.00E-04	2.23E-03	2.70E-03	2.59E-03	1.30E-04	2.10E-04	2.40E-04	8.30E-04	5.00E-04	3.90E-04	4.40E-04	1.37E-03	1.16E-03	2.61E-03	1.23E-03	8.20E-04	9.70E-04	1.19E-03
P10	1.5	5.80E-04	3.86E-03	2.53E-03	1.62E-02	1.96E-02	1.89E-02	3.00E-04	3.50E-04	4.10E-04	1.22E-03	3.63E-03	9.20E-04	1.11E-03	9.98E-03	8.42E-03	1.90E-02	8.93E-03	3.54E-03	7.05E-03	8.66E-03
P11	1.5	2.60E-04	8.80E-04	5.80E-04	3.70E-03	4.48E-03	4.31E-03	9.00E-05	1.40E-04	1.60E-04	5.60E-04	8.30E-04	2.60E-04	3.00E-04	2.28E-03	1.92E-03	4.34E-03	2.04E-03	8.10E-04	1.61E-03	1.98E-03
P12	1.5	2.10E-04	1.39E-03	9.10E-04	5.85E-03	7.09E-03	6.81E-03	1.10E-04	1.30E-04	1.50E-04	4.40E-04	1.31E-03	3.30E-04	4.00E-04	3.61E-03	3.04E-03	6.86E-03	3.23E-03	1.28E-03	2.55E-03	3.13E-03
P13	1.5	4.90E-04	3.25E-03	2.13E-03	1.36E-02	1.65E-02	1.59E-02	2.50E-04	3.00E-04	3.40E-04	1.03E-03	3.05E-03	7.70E-04	9.30E-04	8.40E-03	7.08E-03	1.60E-02	7.52E-03	2.98E-03	5.93E-03	7.28E-03
P14	1.5	3.10E-04	2.07E-03	1.35E-03	8.66E-03	1.05E-02	1.01E-02	1.60E-04	1.90E-04	2.20E-04	6.50E-04	1.94E-03	4.90E-04	5.90E-04	5.34E-03	4.50E-03	1.02E-02	4.78E-03	1.90E-03	3.77E-03	4.63E-03
P15	1.5	4.30E-04	2.90E-03	1.90E-03	1.22E-02	1.48E-02	1.42E-02	2.30E-04	2.70E-04	3.10E-04	9.20E-04	2.73E-03	6.90E-04	8.30E-04	7.51E-03	6.33E-03	1.43E-02	6.72E-03	2.66E-03	5.30E-03	6.51E-03
P16	1.5	3.00E-04	1.79E-03	1.18E-03	7.52E-03	9.11E-03	8.75E-03	1.40E-04	1.60E-04	1.90E-04	6.30E-04	1.69E-03	4.30E-04	5.20E-04	4.64E-03	3.91E-03	8.82E-03	4.15E-03	1.65E-03	3.28E-03	4.02E-03

AERMOD Model Results on Hydrocarbons (HC) **Option B, Part 2** **Hourly** = Used in Calculation on Project Contribution

Hourly		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20
		Naphthalene	Phenanthrer	Anthracene	Fluoranthen	Pyrene	Benzo(a)pyr	Benzene	Toluene	Ethylbenzen	Xylenes (Tot	Acenaphthy	Acenaphthe	Fluorene	Chrysene	Benzo(a)ant	Benzo(b)fluo	Benzo(k)fluo	Dibenzo(a,h)	Indeno(1,2,3	Benzo(g,h,i)perylene
Maximum Value		**9.20E-04**	**1.45E-02**	**6.69E-03**	**2.83E-02**	**3.52E-02**	**2.94E-02**	**7.80E-04**	**9.10E-04**	**1.05E-03**	**3.16E-03**	**6.24E-03**	**1.38E-03**	**3.52E-03**	**1.75E-02**	**2.29E-02**	**2.42E-02**	**2.09E-02**	**7.82E-03**	**1.30E-02**	**1.76E-02**
ASR_ID	**mAG**																				
KT-A1	1.5	1.80E-04	2.76E-03	1.27E-03	5.38E-03	6.68E-03	5.58E-03	1.50E-04	1.70E-04	2.00E-04	6.00E-04	1.19E-03	2.60E-04	6.70E-04	3.32E-03	4.36E-03	4.60E-03	3.98E-03	1.49E-03	2.47E-03	3.34E-03
KT-A1a	4	1.90E-04	2.95E-03	1.36E-03	5.74E-03	7.14E-03	5.96E-03	1.60E-04	1.90E-04	2.10E-04	6.40E-04	1.27E-03	2.80E-04	7.10E-04	3.55E-03	4.65E-03	4.91E-03	4.25E-03	1.59E-03	2.64E-03	3.57E-03
KT-A1b	8	1.70E-04	2.71E-03	1.25E-03	5.27E-03	6.56E-03	5.47E-03	1.40E-04	1.70E-04	2.00E-04	5.90E-04	1.16E-03	2.60E-04	6.60E-04	3.26E-03	4.28E-03	4.51E-03	3.90E-03	1.46E-03	2.43E-03	3.28E-03
KT-A1c	12	1.30E-04	2.00E-03	9.20E-04	3.90E-03	4.85E-03	4.04E-03	1.10E-04	1.30E-04	1.50E-04	4.40E-04	8.60E-04	1.90E-04	4.80E-04	2.41E-03	3.16E-03	3.34E-03	2.89E-03	1.08E-03	1.79E-03	2.42E-03
KT-A1d	16	9.00E-05	1.35E-03	6.20E-04	2.63E-03	3.27E-03	2.73E-03	7.00E-05	8.00E-05	1.00E-04	2.90E-04	5.80E-04	1.30E-04	3.30E-04	1.62E-03	2.13E-03	2.25E-03	1.94E-03	7.30E-04	1.21E-03	1.63E-03
KT-A1e	20	7.00E-05	1.14E-03	5.30E-04	2.22E-03	2.76E-03	2.31E-03	6.00E-05	7.00E-05	8.00E-05	2.50E-04	4.90E-04	1.10E-04	2.80E-04	1.37E-03	1.80E-03	1.90E-03	1.64E-03	6.10E-04	1.02E-03	1.38E-03
KT-A1f	30	5.00E-05	7.20E-04	3.30E-04	1.41E-03	1.75E-03	1.46E-03	4.00E-05	5.00E-05	5.00E-05	1.60E-04	3.10E-04	7.00E-05	1.70E-04	8.70E-04	1.14E-03	1.20E-03	1.04E-03	3.90E-04	6.50E-04	8.70E-04
KT-A1g	40	3.00E-05	4.40E-04	2.00E-04	8.50E-04	1.06E-03	8.80E-04	2.00E-05	3.00E-05	3.00E-05	1.00E-04	1.90E-04	4.00E-05	1.10E-04	5.30E-04	6.90E-04	7.30E-04	6.30E-04	2.40E-04	3.90E-04	5.30E-04
KT-A1h	50	2.00E-05	2.50E-04	1.20E-04	4.90E-04	6.10E-04	5.10E-04	1.00E-05	2.00E-05	2.00E-05	5.00E-05	1.10E-04	2.00E-05	6.00E-05	3.00E-04	4.00E-04	4.20E-04	3.60E-04	1.30E-04	2.20E-04	3.00E-04
KT-A1i	60	1.00E-05	1.60E-04	8.00E-05	3.20E-04	4.00E-04	3.30E-04	1.00E-05	1.00E-05	1.00E-05	4.00E-05	7.00E-05	2.00E-05	4.00E-05	2.00E-04	2.60E-04	2.70E-04	2.40E-04	9.00E-05	1.50E-04	2.00E-04
KT-A1j	70	1.00E-05	1.50E-04	7.00E-05	2.90E-04	3.60E-04	3.00E-04	1.00E-05	1.00E-05	1.00E-05	3.00E-05	6.00E-05	1.00E-05	4.00E-05	1.80E-04	2.30E-04	2.40E-04	2.10E-04	8.00E-05	1.30E-04	1.80E-04
KT-A1k	80	1.00E-05	1.30E-04	6.00E-05	2.50E-04	3.20E-04	2.60E-04	1.00E-05	1.00E-05	1.00E-05	3.00E-05	6.00E-05	1.00E-05	3.00E-05	1.60E-04	2.10E-04	2.20E-04	1.90E-04	7.00E-05	1.20E-04	1.60E-04
KT-A1l	90	1.00E-05	1.20E-04	5.00E-05	2.20E-04	2.80E-04	2.30E-04	1.00E-05	1.00E-05	1.00E-05	3.00E-05	5.00E-05	1.00E-05	3.00E-05	1.40E-04	1.80E-04	1.90E-04	1.70E-04	6.00E-05	1.00E-04	1.40E-04
KT-A1m	100	1.00E-05	1.00E-04	5.00E-05	2.00E-04	2.40E-04	2.00E-04	1.00E-05	1.00E-05	1.00E-05	2.00E-05	4.00E-05	1.00E-05	2.00E-05	1.20E-04	1.60E-04	1.70E-04	1.40E-04	5.00E-05	9.00E-05	1.20E-04
KT-A2	1.5	1.50E-04	2.32E-03	1.07E-03	4.51E-03	5.61E-03	4.68E-03	1.20E-04	1.50E-04	1.70E-04	5.00E-04	9.90E-04	2.20E-04	5.60E-04	2.79E-03	3.65E-03	3.86E-03	3.34E-03	1.25E-03	2.07E-03	2.80E-03
KT-A2a	4	1.60E-04	2.50E-03	1.15E-03	4.86E-03	6.05E-03	5.05E-03	1.30E-04	1.60E-04	1.80E-04	5.40E-04	1.07E-03	2.40E-04	6.00E-04	3.01E-03	3.94E-03	4.16E-03	3.60E-03	1.34E-03	2.24E-03	3.02E-03
KT-A2b	8	1.50E-04	2.37E-03	1.09E-03	4.61E-03	5.73E-03	4.78E-03	1.30E-04	1.50E-04	1.70E-04	5.20E-04	1.02E-03	2.20E-04	5.70E-04	2.85E-03	3.73E-03	3.94E-03	3.41E-03	1.27E-03	2.12E-03	2.86E-03
KT-A2c	12	1.20E-04	1.83E-03	8.40E-04	3.57E-03	4.43E-03	3.70E-03	1.00E-04	1.20E-04	1.30E-04	4.00E-04	7.90E-04	1.70E-04	4.40E-04	2.20E-03	2.89E-03	3.05E-03	2.64E-03	9.90E-04	1.64E-03	2.22E-03
KT-A2d	16	7.00E-05	1.13E-03	5.20E-04	2.21E-03	2.74E-03	2.29E-03	6.00E-05	7.00E-05	8.00E-05	2.50E-04	4.90E-04	1.10E-04	2.70E-04	1.36E-03	1.79E-03	1.89E-03	1.63E-03	6.10E-04	1.02E-03	1.37E-03
KT-A2e	20	5.00E-05	7.20E-04	3.30E-04	1.41E-03	1.75E-03	1.46E-03	4.00E-05	5.00E-05	5.00E-05	1.60E-04	3.10E-04	7.00E-05	1.80E-04	8.70E-04	1.14E-03	1.21E-03	1.04E-03	3.90E-04	6.50E-04	8.80E-04
KT-A2f	30	3.00E-05	4.90E-04	2.30E-04	9.60E-04	1.19E-03	9.90E-04	3.00E-05	3.00E-05	4.00E-05	1.10E-04	2.10E-04	5.00E-05	1.20E-04	5.90E-04	7.80E-04	8.20E-04	7.10E-04	2.60E-04	4.40E-04	5.90E-04
KT-A2g	40	2.00E-05	3.20E-04	1.50E-04	6.30E-04	7.80E-04	6.50E-04	2.00E-05	2.00E-05	2.00E-05	7.00E-05	1.40E-04	3.00E-05	8.00E-05	3.90E-04	5.10E-04	5.40E-04	4.60E-04	1.70E-04	2.90E-04	3.90E-04
KT-A2h	50	1.00E-05	2.00E-04	9.00E-05	3.90E-04	4.90E-04	4.10E-04	1.00E-05	1.00E-05	1.00E-05	4.00E-05	9.00E-05	2.00E-05	5.00E-05	2.40E-04	3.20E-04	3.40E-04	2.90E-04	1.10E-04	1.80E-04	2.50E-04
KT-A2i	60	1.00E-05	1.40E-04	7.00E-05	2.80E-04	3.50E-04	2.90E-04	1.00E-05	1.00E-05	1.00E-05	3.00E-05	6.00E-05	1.00E-05	3.00E-05	1.70E-04	2.20E-04	2.40E-04	2.10E-04	8.00E-05	1.30E-04	1.70E-04
KT-A2j	70	1.00E-05	1.20E-04	6.00E-05	2.40E-04	3.00E-04	2.50E-04	1.00E-05	1.00E-05	1.00E-05	3.00E-05	5.00E-05	1.00E-05	3.00E-05	1.50E-04	1.90E-04	2.10E-04	1.80E-04	7.00E-05	1.10E-04	1.50E-04
KT-A2k	80	1.00E-05	1.10E-04	5.00E-05	2.10E-04	2.60E-04	2.10E-04	1.00E-05	1.00E-05	1.00E-05	2.00E-05	5.00E-05	1.00E-05	3.00E-05	1.30E-04	1.70E-04	1.80E-04	1.50E-04	6.00E-05	9.00E-05	1.30E-04
KT-A2l	90	1.00E-05	9.00E-05	4.00E-05	1.80E-04	2.20E-04	1.90E-04	0.00E+00	1.00E-05	1.00E-05	2.00E-05	4.00E-05	1.00E-05	2.00E-05	1.10E-04	1.50E-04	1.50E-04	1.30E-04	5.00E-05	8.00E-05	1.10E-04
KT-A2m	100	1.00E-05	8.00E-05	4.00E-05	1.70E-04	2.10E-04	1.70E-04	0.00E+00	1.00E-05	1.00E-05	2.00E-05	4.00E-05	1.00E-05	2.00E-05	1.00E-04	1.30E-04	1.40E-04	1.20E-04	5.00E-05	8.00E-05	1.00E-04
KT-A2n	110	0.00E+00	8.00E-05	4.00E-05	1.50E-04	1.90E-04	1.60E-04	0.00E+00	0.00E+00	1.00E-05	2.00E-05	3.00E-05	1.00E-05	2.00E-05	9.00E-05	1.20E-04	1.30E-04	1.10E-04	4.00E-05	7.00E-05	9.00E-05
KT-A2o	120	0.00E+00	7.00E-05	3.00E-05	1.30E-04	1.70E-04	1.40E-04	0.00E+00	0.00E+00	0.00E+00	1.00E-05	3.00E-05	1.00E-05	2.00E-05	8.00E-05	1.10E-04	1.10E-04	1.00E-04	4.00E-05	6.00E-05	8.00E-05
KT-A2p	130	0.00E+00	6.00E-05	3.00E-05	1.20E-04	1.50E-04	1.20E-04	0.00E+00	0.00E+00	0.00E+00	1.00E-05	3.00E-05	1.00E-05	1.00E-05	7.00E-05	1.00E-04	1.00E-04	9.00E-05	3.00E-05	5.00E-05	7.00E-05
KT-A2q	140	0.00E+00	5.00E-05	2.00E-05	1.10E-04	1.30E-04	1.10E-04	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05	1.00E-05	1.00E-05	7.00E-05	9.00E-05	9.00E-05	8.00E-05	3.00E-05	5.00E-05	7.00E-05
KT-A2r	150	0.00E+00	5.00E-05	2.00E-05	9.00E-05	1.20E-04	1.00E-04	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05	0.00E+00	1.00E-05	6.00E-05	8.00E-05	8.00E-05	7.00E-05	3.00E-05	4.00E-05	6.00E-05
KT-A2s	160	0.00E+00	4.00E-05	2.00E-05	8.00E-05	1.00E-04	8.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05	0.00E+00	1.00E-05	5.00E-05	7.00E-05	7.00E-05	6.00E-05	2.00E-05	4.00E-05	5.00E-05
KT-A2t	170	0.00E+00	4.00E-05	2.00E-05	7.00E-05	9.00E-05	8.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05	0.00E+00	1.00E-05	5.00E-05	6.00E-05	6.00E-05	5.00E-05	2.00E-05	3.00E-05	5.00E-05
KT-A2u	180	0.00E+00	3.00E-05	2.00E-05	7.00E-05	8.00E-05	7.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	1.00E-05	4.00E-05	5.00E-05	6.00E-05	5.00E-05	2.00E-05	3.00E-05	4.00E-05
KT-A3	1.5	2.40E-04	3.75E-03	1.72E-03	7.29E-03	9.07E-03	7.56E-03	2.00E-04	2.40E-04	2.70E-04	8.20E-04	1.61E-03	3.60E-04	9.10E-04	4.51E-03	5.91E-03	6.24E-03	5.40E-03	2.02E-03	3.35E-03	4.53E-03
KT-A3a	4	2.10E-04	3.34E-03	1.54E-03	6.50E-03	8.09E-03	6.75E-03	1.80E-04	2.10E-04	2.40E-04	7.30E-04	1.43E-03	3.20E-04	8.10E-04	4.02E-03	5.27E-03	5.57E-03	4.81E-03	1.80E-03	2.99E-03	4.04E-03
KT-A3b	8	1.50E-04	2.41E-03	1.11E-03	4.68E-03	5.83E-03	4.86E-03	1.30E-04	1.50E-04	1.70E-04	5.20E-04	1.03E-03	2.30E-04	5.80E-04	2.90E-03	3.80E-03	4.01E-03	3.47E-03	1.29E-03	2.15E-03	2.91E-03
KT-A3c	12	1.00E-04	1.65E-03	7.60E-04	3.21E-03	3.99E-03	3.33E-03	9.00E-05	1.00E-04	1.20E-04	3.60E-04	7.10E-04	1.60E-04	4.00E-04	1.98E-03	2.60E-03	2.74E-03	2.37E-03	8.90E-04	1.48E-03	1.99E-03
KT-A3d	16	8.00E-05	1.27E-03	5.80E-04	2.47E-03	3.07E-03	2.56E-03	7.00E-05	8.00E-05	9.00E-05	2.80E-04	5.40E-04	1.20E-04	3.10E-04	1.53E-03	2.00E-03	2.11E-03	1.83E-03	6.80E-04	1.14E-03	1.54E-03
KT-A3e	20	6.00E-05	9.70E-04	4.50E-04	1.89E-03	2.35E-03	1.96E-03	5.00E-05	6.00E-05	7.00E-05	2.10E-04	4.20E-04	9.00E-05	2.30E-04	1.17E-03	1.53E-03	1.61E-03	1.40E-03	5.20E-04	8.70E-04	1.17E-03
KT-A3f	30	3.00E-05	4.80E-04	2.20E-04	9.30E-04	1.15E-03	9.60E-04	3.00E-05	3.00E-05	3.00E-05	1.00E-04	2.00E-04	5.00E-05	1.20E-04	5.70E-04	7.50E-04	7.90E-04	6.90E-04	2.60E-04	4.30E-04	5.80E-04
KT-A3g	40	2.00E-05	3.50E-04	1.60E-04	6.80E-04	8.50E-04	7.10E-04	2.00E-05	2.00E-05	3.00E-05	8.00E-05	1.50E-04	3.00E-05	9.00E-05	4.20E-04	5.50E-04	5.90E-04	5.10E-04	1.90E-04	3.10E-04	4.30E-04
KT-A3h	50	2.00E-05	2.90E-04	1.30E-04	5.60E-04	6.90E-04	5.80E-04	2.00E-05	2.00E-05	2.00E-05	6.00E-05	1.20E-04	3.00E-05	7.00E-05	3.40E-04	4.50E-04	4.80E-04	4.10E-04	1.50E-04	2.60E-04	3.50E-04
KT-A3i	60	1.00E-05	2.30E-04	1.10E-04	4.50E-04	5.60E-04	4.60E-04	1.00E-05	1.00E-05	2.00E-05	5.00E-05	1.00E-04	2.00E-05	6.00E-05	2.80E-04	3.60E-04	3.80E-04	3.30E-04	1.20E-04	2.10E-04	2.80E-04
KT-A3j	70	1.00E-05	1.80E-04	8.00E-05	3.50E-04	4.40E-04	3.60E-04	1.00E-05	1.00E-05	1.00E-05	4.00E-05	8.00E-05	2.00E-05	4.00E-05	2.20E-04	2.80E-04	3.00E-04	2.60E-04	1.00E-04	1.60E-04	2.20E-04
KT-A3k	80	1.00E-05	1.40E-04	7.00E-05	2.80E-04	3.50E-04	2.90E-04	1.00E-05	1.00E-05	1.00E-05	3.00E-05	6.00E-05	1.00E-05	4.00E-05	1.70E-04	2.30E-04	2.40E-04	2.10E-04	8.00E-05	1.30E-04	1.80E-04
KT-A3l	90	1.00E-05	1.20E-04	6.00E-05	2.40E-04	2.90E-04	2.40E-04	1.00E-05	1.00E-05	1.00E-05	3.00E-05	5.00E-05	1.00E-05	3.00E-05	1.50E-04	1.90E-04	2.00E-04	1.70E-04	7.00E-05	1.10E-04	1.50E-04
KT-A3m	100	1.00E-05	1.00E-04	5.00E-05	2.00E-04	2.40E-04	2.00E-04	1.00E-05	1.00E-05	1.00E-05	2.00E-05	4.00E-05	1.00E-05	2.00E-05	1.20E-04	1.60E-04	1.70E-04	1.40E-04	5.00E-05	9.00E-05	1.20E-04
KT-A4	1.5	2.90E-04	4.52E-03	2.08E-03	8.80E-03	1.09E-02	9.13E-03	2.40E-04	2.80E-04	3.30E-04	9.80E-04	1.94E-03	4.30E-04	1.09E-03	5.44E-03	7.13E-03	7.53E-03	6.51E-03	2.43E-03	4.05E-03	5.47E-03
KT-A4a	4	3.40E-04	5.29E-03	2.44E-03	1.03E-02	1.28E-02	1.07E-02	2.80E-04	3.30E-04	3.80E-04	1.15E-03	2.27E-03	5.00E-04	1.28E-03	6.37E-03	8.35E-03	8.82E-03	7.63E-03	2.85E-03	4.74E-03	6.40E-03
KT-A4b	8	2.50E-04	3.96E-03	1.82E-03	7.71E-03	9.59E-03	8.00E-03	2.10E-04	2.50E-04	2.90E-04	8.60E-04	1.70E-03	3.80E-04	9.60E-04	4.77E-03	6.25E-03	6.60E-03	5.71E-03	2.13E-03	3.55E-03	4.79E-03
KT-A4c	12	1.10E-04	1.81E-03	8.30E-04	3.53E-03	4.39E-03	3.66E-03	1.00E-04	1.10E-04	1.30E-04	3.90E-04	7.80E-04	1.70E-04	4.40E-04	2.18E-03	2.86E-03	3.02E-03	2.61E-03	9.70E-04	1.62E-03	2.19E-03
KT-A4d	16	8.00E-05	1.24E-03	5.70E-04	2.42E-03	3.01E-03	2.51E-03	7.00E-05	8.00E-05	9.00E-05	2.70E-04	5.30E-04	1.20E-04	3.00E-04	1.49E-03	1.96E-03	2.07E-03	1.79E-03	6.70E-04	1.11E-03	1.50E-03
KT-A4e	20	5.00E-05	8.50E-04	3.90E-04	1.65E-03	2.06E-03	1.72E-03	5.00E-05	5.00E-05	6.00E-05	1.80E-04	3.60E-04	8.00E-05	2.10E-04	1.02E-03	1.34E-03	1.41E-03	1.22E-03	4.60E-04	7.60E-04	1.03E-03

AERMOD Model Results on Hydrocarbons (HC) **Option B, Part 2** **Hourly** = Used in Calculation on Project Contribution

Hourly		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20
		Naphthalene	Phenanthrer	Anthracene	Fluoranthen	Pyrene	Benzo(a)pyr	Benzene	Toluene	Ethylbenzen	Xylenes (Tot	Acenaphthy	Acenaphthe	Fluorene	Chrysene	Benzo(a)ant	Benzo(b)fluo	Benzo(k)fluo	Dibenzo(a,h)	Indeno(1,2,3	Benzo(g,h,i)perylene
Maximum Value		9.20E-04	1.45E-02	6.69E-03	2.83E-02	3.52E-02	2.94E-02	7.80E-04	9.10E-04	1.05E-03	3.16E-03	6.24E-03	1.38E-03	3.52E-03	1.75E-02	2.29E-02	2.42E-02	2.09E-02	7.82E-03	1.30E-02	1.76E-02
ASR_ID	mAG																				
KT-A4f	30	3.00E-05	4.00E-04	1.80E-04	7.80E-04	9.70E-04	8.10E-04	2.00E-05	3.00E-05	3.00E-05	9.00E-05	1.70E-04	4.00E-05	1.00E-04	4.80E-04	6.30E-04	6.70E-04	5.80E-04	2.10E-04	3.60E-04	4.80E-04
KT-A4g	40	1.00E-05	2.10E-04	9.00E-05	4.00E-04	5.00E-04	4.20E-04	1.00E-05	1.00E-05	1.00E-05	4.00E-05	9.00E-05	2.00E-05	5.00E-05	2.50E-04	3.20E-04	3.40E-04	3.00E-04	1.10E-04	1.80E-04	2.50E-04
KT-A4h	50	1.00E-05	1.00E-04	5.00E-05	2.00E-04	2.50E-04	2.10E-04	1.00E-05	1.00E-05	1.00E-05	2.00E-05	4.00E-05	1.00E-05	2.00E-05	1.20E-04	1.60E-04	1.70E-04	1.50E-04	5.00E-05	9.00E-05	1.20E-04
KT-A4i	60	0.00E+00	5.00E-05	2.00E-05	9.00E-05	1.10E-04	9.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05	0.00E+00	1.00E-05	6.00E-05	7.00E-05	8.00E-05	7.00E-05	2.00E-05	4.00E-05	6.00E-05
KT-A4j	70	0.00E+00	2.00E-05	1.00E-05	4.00E-05	5.00E-05	4.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	2.00E-05	3.00E-05	3.00E-05	3.00E-05	1.00E-05	2.00E-05	2.00E-05
KT-A4k	80	0.00E+00	1.00E-05	0.00E+00	1.00E-05	2.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A4l	90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4m	100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4n	110	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4o	120	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A5	1.5	1.10E-04	1.72E-03	7.90E-04	3.35E-03	4.17E-03	3.48E-03	9.00E-05	1.10E-04	1.20E-04	3.70E-04	7.40E-04	1.60E-04	4.20E-04	2.07E-03	2.72E-03	2.87E-03	2.48E-03	9.30E-04	1.54E-03	2.08E-03
KT-A5a	4	1.30E-04	1.98E-03	9.10E-04	3.85E-03	4.79E-03	4.00E-03	1.10E-04	1.20E-04	1.40E-04	4.30E-04	8.50E-04	1.90E-04	4.80E-04	2.38E-03	3.12E-03	3.30E-03	2.85E-03	1.07E-03	1.77E-03	2.40E-03
KT-A5b	8	1.30E-04	2.00E-03	9.20E-04	3.89E-03	4.84E-03	4.04E-03	1.10E-04	1.30E-04	1.40E-04	4.40E-04	8.60E-04	1.90E-04	4.80E-04	2.41E-03	3.15E-03	3.33E-03	2.88E-03	1.08E-03	1.79E-03	2.42E-03
KT-A5c	12	1.00E-04	1.51E-03	7.00E-04	2.94E-03	3.66E-03	3.05E-03	8.00E-05	1.00E-04	1.10E-04	3.30E-04	6.50E-04	1.40E-04	3.70E-04	1.82E-03	2.38E-03	2.52E-03	2.18E-03	8.10E-04	1.35E-03	1.83E-03
KT-A5d	16	5.00E-05	8.20E-04	3.80E-04	1.60E-03	1.99E-03	1.66E-03	4.00E-05	5.00E-05	6.00E-05	1.80E-04	3.50E-04	8.00E-05	2.00E-04	9.90E-04	1.30E-03	1.37E-03	1.18E-03	4.40E-04	7.40E-04	9.90E-04
KT-A5e	20	5.00E-05	7.20E-04	3.30E-04	1.40E-03	1.74E-03	1.45E-03	4.00E-05	5.00E-05	5.00E-05	1.60E-04	3.10E-04	7.00E-05	1.70E-04	8.60E-04	1.13E-03	1.20E-03	1.03E-03	3.90E-04	6.40E-04	8.70E-04
KT-A6	1.5	4.00E-04	6.34E-03	2.92E-03	1.23E-02	1.53E-02	1.28E-02	3.40E-04	4.00E-04	4.60E-04	1.38E-03	2.72E-03	6.00E-04	1.53E-03	7.63E-03	1.00E-02	1.06E-02	9.13E-03	3.41E-03	5.68E-03	7.67E-03
KT-A6a	4	4.20E-04	6.60E-03	3.04E-03	1.29E-02	1.60E-02	1.33E-02	3.50E-04	4.20E-04	4.80E-04	1.44E-03	2.83E-03	6.30E-04	1.60E-03	7.94E-03	1.04E-02	1.10E-02	9.51E-03	3.55E-03	5.91E-03	7.99E-03
KT-A6b	8	3.50E-04	5.46E-03	2.51E-03	1.06E-02	1.32E-02	1.10E-02	2.90E-04	3.40E-04	4.00E-04	1.19E-03	2.34E-03	5.20E-04	1.32E-03	6.56E-03	8.61E-03	9.09E-03	7.86E-03	2.94E-03	4.88E-03	6.60E-03
KT-A6c	12	1.50E-04	2.40E-03	1.10E-03	4.67E-03	5.81E-03	4.85E-03	1.30E-04	1.50E-04	1.70E-04	5.20E-04	1.03E-03	2.30E-04	5.80E-04	2.89E-03	3.79E-03	4.00E-03	3.46E-03	1.29E-03	2.15E-03	2.90E-03
KT-A7	1.5	2.10E-04	3.24E-03	1.49E-03	6.31E-03	7.84E-03	6.54E-03	1.70E-04	2.00E-04	2.30E-04	7.10E-04	1.39E-03	3.10E-04	7.80E-04	3.90E-03	5.11E-03	5.40E-03	4.67E-03	1.74E-03	2.90E-03	3.92E-03
KT-A7a	4	2.00E-04	3.09E-03	1.42E-03	6.02E-03	7.48E-03	6.24E-03	1.70E-04	1.90E-04	2.20E-04	6.70E-04	1.33E-03	2.90E-04	7.50E-04	3.72E-03	4.88E-03	5.15E-03	4.46E-03	1.66E-03	2.77E-03	3.74E-03
KT-A7b	8	1.40E-04	2.28E-03	1.05E-03	4.44E-03	5.53E-03	4.61E-03	1.20E-04	1.40E-04	1.70E-04	5.00E-04	9.80E-04	2.20E-04	5.50E-04	2.75E-03	3.60E-03	3.80E-03	3.29E-03	1.23E-03	2.04E-03	2.76E-03
KT-A7c	12	1.10E-04	1.66E-03	7.60E-04	3.22E-03	4.01E-03	3.34E-03	9.00E-05	1.00E-04	1.20E-04	3.60E-04	7.10E-04	1.60E-04	4.00E-04	1.99E-03	2.61E-03	2.76E-03	2.39E-03	8.90E-04	1.48E-03	2.00E-03
KT-A7d	16	8.00E-05	1.29E-03	5.90E-04	2.51E-03	3.12E-03	2.60E-03	7.00E-05	8.00E-05	9.00E-05	2.80E-04	5.50E-04	1.20E-04	3.10E-04	1.55E-03	2.03E-03	2.15E-03	1.86E-03	6.90E-04	1.15E-03	1.56E-03
KT-A7e	20	6.00E-05	9.90E-04	4.60E-04	1.93E-03	2.40E-03	2.00E-03	5.00E-05	6.00E-05	7.00E-05	2.20E-04	4.20E-04	9.00E-05	2.40E-04	1.19E-03	1.56E-03	1.65E-03	1.43E-03	5.30E-04	8.90E-04	1.20E-03
KT-A8	1.5	5.00E-05	7.40E-04	3.40E-04	1.44E-03	1.79E-03	1.50E-03	4.00E-05	5.00E-05	5.00E-05	1.60E-04	3.20E-04	7.00E-05	1.80E-04	8.90E-04	1.17E-03	1.23E-03	1.07E-03	4.00E-04	6.60E-04	9.00E-04
KT-A8a	4	6.00E-05	9.30E-04	4.30E-04	1.82E-03	2.26E-03	1.88E-03	5.00E-05	6.00E-05	7.00E-05	2.00E-04	4.00E-04	9.00E-05	2.30E-04	1.12E-03	1.47E-03	1.56E-03	1.34E-03	5.00E-04	8.40E-04	1.13E-03
KT-A8b	8	7.00E-05	1.13E-03	5.20E-04	2.20E-03	2.73E-03	2.28E-03	6.00E-05	7.00E-05	8.00E-05	2.50E-04	4.80E-04	1.10E-04	2.70E-04	1.36E-03	1.78E-03	1.88E-03	1.63E-03	6.10E-04	1.01E-03	1.36E-03
KT-A8c	12	7.00E-05	1.09E-03	5.00E-04	2.12E-03	2.64E-03	2.20E-03	6.00E-05	7.00E-05	8.00E-05	2.40E-04	4.70E-04	1.00E-04	2.60E-04	1.31E-03	1.72E-03	1.82E-03	1.57E-03	5.90E-04	9.80E-04	1.32E-03
KT-A8d	16	5.00E-05	8.50E-04	3.90E-04	1.65E-03	2.05E-03	1.71E-03	5.00E-05	5.00E-05	6.00E-05	1.80E-04	3.60E-04	8.00E-05	2.00E-04	1.02E-03	1.33E-03	1.41E-03	1.22E-03	4.50E-04	7.60E-04	1.02E-03
KT-A8e	20	3.00E-05	5.10E-04	2.30E-04	9.90E-04	1.24E-03	1.03E-03	3.00E-05	3.00E-05	4.00E-05	1.10E-04	2.20E-04	5.00E-05	1.20E-04	6.10E-04	8.10E-04	8.50E-04	7.40E-04	2.70E-04	4.60E-04	6.20E-04
KT-A8f	30	1.00E-05	2.20E-04	1.00E-04	4.30E-04	5.40E-04	4.50E-04	1.00E-05	1.00E-05	2.00E-05	5.00E-05	1.00E-04	2.00E-05	5.00E-05	2.70E-04	3.50E-04	3.70E-04	3.20E-04	1.20E-04	2.00E-04	2.70E-04
KT-A8g	40	1.00E-05	1.90E-04	9.00E-05	3.70E-04	4.60E-04	3.80E-04	1.00E-05	1.00E-05	1.00E-05	4.00E-05	8.00E-05	2.00E-05	5.00E-05	2.30E-04	3.00E-04	3.20E-04	2.70E-04	1.00E-04	1.70E-04	2.30E-04
KT-A8h	50	1.00E-05	1.60E-04	7.00E-05	3.00E-04	3.80E-04	3.10E-04	1.00E-05	1.00E-05	1.00E-05	3.00E-05	7.00E-05	1.00E-05	4.00E-05	1.90E-04	2.40E-04	2.60E-04	2.20E-04	8.00E-05	1.40E-04	1.90E-04
KT-A8i	60	1.00E-05	1.20E-04	6.00E-05	2.40E-04	2.90E-04	2.50E-04	1.00E-05	1.00E-05	1.00E-05	3.00E-05	5.00E-05	1.00E-05	3.00E-05	1.50E-04	1.90E-04	2.00E-04	1.80E-04	7.00E-05	1.10E-04	1.50E-04
KT-A8j	70	1.00E-05	1.00E-04	5.00E-05	2.00E-04	2.50E-04	2.10E-04	1.00E-05	1.00E-05	1.00E-05	2.00E-05	4.00E-05	1.00E-05	3.00E-05	1.30E-04	1.60E-04	1.70E-04	1.50E-04	6.00E-05	9.00E-05	1.30E-04
KT-A8k	80	1.00E-05	9.00E-05	4.00E-05	1.80E-04	2.20E-04	1.90E-04	0.00E+00	1.00E-05	1.00E-05	2.00E-05	4.00E-05	1.00E-05	2.00E-05	1.10E-04	1.40E-04	1.50E-04	1.30E-04	5.00E-05	8.00E-05	1.10E-04
KT-A8l	90	1.00E-05	8.00E-05	4.00E-05	1.50E-04	1.90E-04	1.60E-04	0.00E+00	0.00E+00	1.00E-05	2.00E-05	3.00E-05	1.00E-05	2.00E-05	1.00E-04	1.20E-04	1.30E-04	1.10E-04	4.00E-05	7.00E-05	1.00E-04
KT-A8m	100	0.00E+00	7.00E-05	3.00E-05	1.40E-04	1.70E-04	1.40E-04	0.00E+00	0.00E+00	1.00E-05	2.00E-05	3.00E-05	1.00E-05	2.00E-05	9.00E-05	1.10E-04	1.20E-04	1.00E-04	4.00E-05	6.00E-05	9.00E-05
KT-A9	1.5	1.80E-04	2.90E-03	1.34E-03	5.65E-03	7.03E-03	5.86E-03	1.50E-04	1.80E-04	2.10E-04	6.30E-04	1.25E-03	2.80E-04	7.00E-04	3.49E-03	4.58E-03	4.84E-03	4.18E-03	1.56E-03	2.60E-03	3.51E-03
KT-A9a	4	2.10E-04	3.25E-03	1.50E-03	6.33E-03	7.87E-03	6.57E-03	1.70E-04	2.00E-04	2.40E-04	7.10E-04	1.40E-03	3.10E-04	7.90E-04	3.91E-03	5.13E-03	5.42E-03	4.68E-03	1.75E-03	2.91E-03	3.93E-03
KT-A9b	8	1.90E-04	3.00E-03	1.38E-03	5.84E-03	7.27E-03	6.06E-03	1.60E-04	1.90E-04	2.20E-04	6.50E-04	1.29E-03	2.90E-04	7.30E-04	3.61E-03	4.74E-03	5.00E-03	4.33E-03	1.62E-03	2.69E-03	3.63E-03
KT-A10	1.5	1.40E-04	2.15E-03	9.90E-04	4.18E-03	5.20E-03	4.33E-03	1.10E-04	1.40E-04	1.60E-04	4.70E-04	9.20E-04	2.00E-04	5.20E-04	2.58E-03	3.39E-03	3.58E-03	3.09E-03	1.16E-03	1.92E-03	2.60E-03
KT-A10a	4	1.30E-04	2.03E-03	9.30E-04	3.95E-03	4.92E-03	4.10E-03	1.10E-04	1.30E-04	1.50E-04	4.40E-04	8.70E-04	1.90E-04	4.90E-04	2.44E-03	3.20E-03	3.38E-03	2.93E-03	1.09E-03	1.82E-03	2.46E-03
KT-A10b	8	1.20E-04	1.82E-03	8.40E-04	3.54E-03	4.40E-03	3.67E-03	1.00E-04	1.10E-04	1.30E-04	4.00E-04	7.80E-04	1.70E-04	4.40E-04	2.19E-03	2.87E-03	3.03E-03	2.62E-03	9.80E-04	1.63E-03	2.20E-03
KT-A10c	12	1.00E-04	1.59E-03	7.30E-04	3.10E-03	3.85E-03	3.22E-03	8.00E-05	1.00E-04	1.20E-04	3.50E-04	6.80E-04	1.50E-04	3.90E-04	1.92E-03	2.51E-03	2.65E-03	2.29E-03	8.60E-04	1.43E-03	1.93E-03
KT-A10d	16	9.00E-05	1.38E-03	6.30E-04	2.68E-03	3.33E-03	2.78E-03	7.00E-05	9.00E-05	1.00E-04	3.00E-04	5.90E-04	1.30E-04	3.30E-04	1.66E-03	2.17E-03	2.29E-03	1.98E-03	7.40E-04	1.23E-03	1.66E-03
KT-A10e	20	7.00E-05	1.18E-03	5.40E-04	2.29E-03	2.85E-03	2.38E-03	6.00E-05	7.00E-05	9.00E-05	2.60E-04	5.00E-04	1.10E-04	2.80E-04	1.42E-03	1.86E-03	1.96E-03	1.69E-03	6.30E-04	1.05E-03	1.42E-03
KT-A10f	30	5.00E-05	7.70E-04	3.50E-04	1.49E-03	1.86E-03	1.55E-03	4.00E-05	5.00E-05	6.00E-05	1.70E-04	3.30E-04	7.00E-05	1.90E-04	9.20E-04	1.21E-03	1.28E-03	1.10E-03	4.10E-04	6.90E-04	9.30E-04
KT-A10g	40	3.00E-05	4.80E-04	2.20E-04	9.30E-04	1.16E-03	9.70E-04	3.00E-05	3.00E-05	3.00E-05	1.00E-04	2.10E-04	5.00E-05	1.20E-04	5.80E-04	7.60E-04	8.00E-04	6.90E-04	2.60E-04	4.30E-04	5.80E-04
KT-A10h	50	2.00E-05	2.80E-04	1.30E-04	5.50E-04	6.80E-04	5.70E-04	1.00E-05	2.00E-05	2.00E-05	6.00E-05	1.20E-04	3.00E-05	7.00E-05	3.40E-04	4.40E-04	4.70E-04	4.00E-04	1.50E-04	2.50E-04	3.40E-04
KT-A10i	60	1.00E-05	1.90E-04	9.00E-05	3.70E-04	4.60E-04	3.80E-04	1.00E-05	1.00E-05	1.00E-05	4.00E-05	8.00E-05	2.00E-05	5.00E-05	2.30E-04	3.00E-04	3.20E-04	2.70E-04	1.00E-04	1.70E-04	2.30E-04
KT-A10j	70	1.00E-05	1.60E-04	8.00E-05	3.20E-04	4.00E-04	3.30E-04	1.00E-05	1.00E-05	1.00E-05	4.00E-05	7.00E-05	2.00E-05	4.00E-05	2.00E-04	2.60E-04	2.70E-04	2.40E-04	9.00E-05	1.50E-04	2.00E-04
KT-A10k	80	1.00E-05	1.40E-04	6.00E-05	2.70E-04	3.40E-04	2.80E-04	1.00E-05	1.00E-05	1.00E-05	3.00E-05	6.00E-05	1.00E-05	3.00E-05	1.70E-04	2.20E-04	2.30E-04	2.00E-04	8.00E-05	1.30E-04	1.70E-04
KT-A10l	90	1.00E-05	1.20E-04	5.00E-05	2.30E-04	2.90E-04	2.40E-04	1.00E-05	1.00E-05	1.00E-05	3.00E-05	5.00E-05	1.00E-05	3.00E-05	1.40E-04	1.90E-04	2.00E-04	1.70E-04	6.00E-05	1.10E-04	1.40E-04

AERMOD Model Results on Hydrocarbons (HC) **Option B, Part 2** **Hourly** = Used in Calculation on Project Contribution

Hourly		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20
		Naphthalene	Phenanthrer	Anthracene	Fluoranthen	Pyrene	Benzo(a)pyr	Benzene	Toluene	Ethylbenzen	Xylenes (Tot	Acenaphthy	Acenaphthe	Fluorene	Chrysene	Benzo(a)ant	Benzo(b)fluo	Benzo(k)fluo	Dibenzo(a,h	Indeno(1,2,3	Benzo(g,h,i)perylene
Maximum Value		**9.20E-04**	**1.45E-02**	**6.69E-03**	**2.83E-02**	**3.52E-02**	**2.94E-02**	**7.80E-04**	**9.10E-04**	**1.05E-03**	**3.16E-03**	**6.24E-03**	**1.38E-03**	**3.52E-03**	**1.75E-02**	**2.29E-02**	**2.42E-02**	**2.09E-02**	**7.82E-03**	**1.30E-02**	**1.76E-02**
ASR_ID	**mAG**																				
KT-A10m	100	1.00E-05	1.00E-04	5.00E-05	1.90E-04	2.40E-04	2.00E-04	1.00E-05	1.00E-05	1.00E-05	2.00E-05	4.00E-05	1.00E-05	2.00E-05	1.20E-04	1.60E-04	1.60E-04	1.40E-04	5.00E-05	9.00E-05	1.20E-04
KT-A10n	110	1.00E-05	8.00E-05	4.00E-05	1.60E-04	2.00E-04	1.70E-04	0.00E+00	1.00E-05	1.00E-05	2.00E-05	4.00E-05	1.00E-05	2.00E-05	1.00E-04	1.30E-04	1.40E-04	1.20E-04	5.00E-05	8.00E-05	1.00E-04
KT-A10o	120	0.00E+00	7.00E-05	3.00E-05	1.40E-04	1.80E-04	1.50E-04	0.00E+00	0.00E+00	1.00E-05	2.00E-05	3.00E-05	1.00E-05	2.00E-05	9.00E-05	1.20E-04	1.20E-04	1.10E-04	4.00E-05	7.00E-05	9.00E-05
KT-A10p	130	0.00E+00	6.00E-05	3.00E-05	1.30E-04	1.60E-04	1.30E-04	0.00E+00	0.00E+00	0.00E+00	1.00E-05	3.00E-05	1.00E-05	2.00E-05	8.00E-05	1.00E-04	1.10E-04	9.00E-05	3.00E-05	6.00E-05	8.00E-05
KT-A10q	140	0.00E+00	6.00E-05	3.00E-05	1.10E-04	1.30E-04	1.10E-04	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05	1.00E-05	1.00E-05	7.00E-05	9.00E-05	9.00E-05	8.00E-05	3.00E-05	5.00E-05	7.00E-05
P01	1.5	9.20E-04	1.45E-02	6.69E-03	2.83E-02	3.52E-02	2.94E-02	7.80E-04	9.10E-04	1.05E-03	3.16E-03	6.24E-03	1.38E-03	3.52E-03	1.75E-02	2.29E-02	2.42E-02	2.09E-02	7.82E-03	1.30E-02	1.76E-02
P02	1.5	8.20E-04	1.30E-02	5.96E-03	2.52E-02	3.14E-02	2.62E-02	6.90E-04	8.20E-04	9.40E-04	2.82E-03	5.56E-03	1.23E-03	3.14E-03	1.56E-02	2.04E-02	2.16E-02	1.87E-02	6.97E-03	1.16E-02	1.57E-02
P03	1.5	8.60E-04	1.35E-02	6.21E-03	2.63E-02	3.27E-02	2.73E-02	7.20E-04	8.50E-04	9.80E-04	2.94E-03	5.80E-03	1.28E-03	3.27E-03	1.63E-02	2.13E-02	2.25E-02	1.95E-02	7.27E-03	1.21E-02	1.63E-02
P04	1.5	7.30E-04	1.15E-02	5.29E-03	2.24E-02	2.78E-02	2.32E-02	6.10E-04	7.20E-04	8.30E-04	2.50E-03	4.94E-03	1.09E-03	2.78E-03	1.38E-02	1.82E-02	1.92E-02	1.66E-02	6.19E-03	1.03E-02	1.39E-02
P10	1.5	2.90E-04	4.50E-03	2.07E-03	8.75E-03	1.09E-02	9.08E-03	2.40E-04	2.80E-04	3.30E-04	9.80E-04	1.93E-03	4.30E-04	1.09E-03	5.41E-03	7.09E-03	7.49E-03	6.48E-03	2.42E-03	4.02E-03	5.44E-03
P11	1.5	5.50E-04	8.66E-03	3.99E-03	1.69E-02	2.10E-02	1.75E-02	4.60E-04	5.40E-04	6.30E-04	1.88E-03	3.72E-03	8.20E-04	2.10E-03	1.04E-02	1.37E-02	1.44E-02	1.25E-02	4.66E-03	7.75E-03	1.05E-02
P12	1.5	4.20E-04	6.66E-03	3.06E-03	1.30E-02	1.61E-02	1.34E-02	3.60E-04	4.20E-04	4.80E-04	1.45E-03	2.86E-03	6.30E-04	1.61E-03	8.01E-03	1.05E-02	1.11E-02	9.59E-03	3.58E-03	5.96E-03	8.05E-03
P13	1.5	3.60E-04	5.61E-03	2.58E-03	1.09E-02	1.36E-02	1.13E-02	3.00E-04	3.50E-04	4.10E-04	1.22E-03	2.41E-03	5.30E-04	1.36E-03	6.75E-03	8.85E-03	9.35E-03	8.09E-03	3.02E-03	5.02E-03	6.79E-03
P14	1.5	2.80E-04	4.36E-03	2.01E-03	8.48E-03	1.06E-02	8.80E-03	2.30E-04	2.70E-04	3.20E-04	9.50E-04	1.87E-03	4.10E-04	1.05E-03	5.24E-03	6.88E-03	7.26E-03	6.28E-03	2.35E-03	3.90E-03	5.27E-03
P15	1.5	3.30E-04	5.16E-03	2.37E-03	1.00E-02	1.25E-02	1.04E-02	2.80E-04	3.20E-04	3.70E-04	1.12E-03	2.21E-03	4.90E-04	1.25E-03	6.20E-03	8.13E-03	8.59E-03	7.43E-03	2.77E-03	4.62E-03	6.24E-03
P16	1.5	5.00E-04	7.94E-03	3.65E-03	1.55E-02	1.92E-02	1.60E-02	4.20E-04	5.00E-04	5.80E-04	1.73E-03	3.41E-03	7.50E-04	1.92E-03	9.55E-03	1.25E-02	1.32E-02	1.14E-02	4.27E-03	7.11E-03	9.60E-03

AERMOD Model Results on Hydrocarbons (HC) **Option B, Part 3** **Hourly** = Used in Calculation on Project Contribution

Hourly		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20
		Naphthalene	Phenanthrer	Anthracene	Fluoranthen	Pyrene	Benzo(a)pyr	Benzene	Toluene	Ethylbenzen	Xylenes (Tot	Acenaphthy	Acenaphthe	Fluorene	Chrysene	Benzo(a)ant	Benzo(b)fluo	Benzo(k)fluo	Dibenzo(a,h)	Indeno(1,2,3	Benzo(g,h,i)perylene
Maximum Value		1.61E-03	2.75E-03	2.04E-03	3.88E-03	4.03E-03	4.18E-03	5.50E-04	8.60E-04	1.00E-03	3.42E-03	1.66E-03	1.59E-03	1.80E-03	3.31E-03	2.97E-03	5.79E-03	2.43E-03	3.36E-03	3.93E-03	3.98E-03
ASR_ID	mAG																				
KT-A1	1.5	8.00E-05	1.30E-04	1.10E-04	1.80E-04	1.90E-04	2.00E-04	3.00E-05	4.00E-05	5.00E-05	1.60E-04	8.00E-05	8.00E-05	9.00E-05	1.60E-04	1.40E-04	2.80E-04	1.20E-04	1.60E-04	1.90E-04	1.90E-04
KT-A1a	4	7.00E-05	1.30E-04	1.20E-04	1.80E-04	1.90E-04	1.90E-04	3.00E-05	4.00E-05	5.00E-05	1.60E-04	8.00E-05	7.00E-05	8.00E-05	1.50E-04	1.40E-04	2.70E-04	1.10E-04	1.60E-04	1.80E-04	1.80E-04
KT-A1b	8	6.00E-05	1.10E-04	1.10E-04	1.50E-04	1.60E-04	1.70E-04	2.00E-05	3.00E-05	4.00E-05	1.40E-04	7.00E-05	6.00E-05	7.00E-05	1.30E-04	1.20E-04	2.30E-04	1.00E-04	1.30E-04	1.60E-04	1.60E-04
KT-A1c	12	5.00E-05	8.00E-05	1.00E-04	1.10E-04	1.20E-04	1.20E-04	2.00E-05	3.00E-05	3.00E-05	1.00E-04	5.00E-05	5.00E-05	5.00E-05	1.00E-04	9.00E-05	1.70E-04	7.00E-05	1.00E-04	1.20E-04	1.20E-04
KT-A1d	16	4.00E-05	7.00E-05	7.00E-05	9.00E-05	1.00E-04	1.00E-04	1.00E-05	2.00E-05	2.00E-05	8.00E-05	4.00E-05	4.00E-05	4.00E-05	8.00E-05	7.00E-05	1.40E-04	6.00E-05	8.00E-05	9.00E-05	1.00E-04
KT-A1e	20	3.00E-05	6.00E-05	4.00E-05	8.00E-05	9.00E-05	9.00E-05	1.00E-05	2.00E-05	2.00E-05	7.00E-05	4.00E-05	3.00E-05	4.00E-05	7.00E-05	6.00E-05	1.20E-04	5.00E-05	7.00E-05	8.00E-05	9.00E-05
KT-A1f	30	3.00E-05	4.00E-05	3.00E-05	6.00E-05	6.00E-05	7.00E-05	1.00E-05	1.00E-05	2.00E-05	5.00E-05	3.00E-05	2.00E-05	3.00E-05	5.00E-05	5.00E-05	9.00E-05	4.00E-05	5.00E-05	6.00E-05	6.00E-05
KT-A1g	40	2.00E-05	3.00E-05	2.00E-05	4.00E-05	4.00E-05	4.00E-05	1.00E-05	1.00E-05	1.00E-05	4.00E-05	2.00E-05	2.00E-05	2.00E-05	4.00E-05	3.00E-05	6.00E-05	3.00E-05	4.00E-05	4.00E-05	4.00E-05
KT-A1h	50	1.00E-05	2.00E-05	2.00E-05	3.00E-05	3.00E-05	4.00E-05	0.00E+00	1.00E-05	1.00E-05	3.00E-05	1.00E-05	1.00E-05	2.00E-05	3.00E-05	3.00E-05	5.00E-05	2.00E-05	3.00E-05	3.00E-05	3.00E-05
KT-A1i	60	1.00E-05	2.00E-05	1.00E-05	2.00E-05	3.00E-05	3.00E-05	0.00E+00	1.00E-05	1.00E-05	2.00E-05	1.00E-05	1.00E-05	1.00E-05	2.00E-05	2.00E-05	4.00E-05	2.00E-05	2.00E-05	3.00E-05	3.00E-05
KT-A1j	70	1.00E-05	1.00E-05	1.00E-05	2.00E-05	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	2.00E-05	1.00E-05	1.00E-05	1.00E-05	2.00E-05	1.00E-05	3.00E-05	1.00E-05	2.00E-05	2.00E-05	2.00E-05
KT-A1k	80	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	2.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05
KT-A1l	90	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	2.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05
KT-A1m	100	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05	1.00E-05	2.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05
KT-A2	1.5	9.00E-05	1.60E-04	1.20E-04	2.30E-04	2.40E-04	2.50E-04	3.00E-05	5.00E-05	6.00E-05	2.00E-04	1.00E-04	9.00E-05	1.10E-04	1.90E-04	1.80E-04	3.40E-04	1.40E-04	2.00E-04	2.30E-04	2.30E-04
KT-A2a	4	1.00E-04	1.80E-04	1.30E-04	2.50E-04	2.60E-04	2.70E-04	4.00E-05	6.00E-05	6.00E-05	2.20E-04	1.10E-04	1.00E-04	1.20E-04	2.10E-04	1.90E-04	3.70E-04	1.60E-04	2.20E-04	2.50E-04	2.50E-04
KT-A2b	8	1.00E-04	1.80E-04	1.30E-04	2.50E-04	2.60E-04	2.70E-04	4.00E-05	6.00E-05	6.00E-05	2.20E-04	1.10E-04	1.00E-04	1.10E-04	2.10E-04	1.90E-04	3.70E-04	1.50E-04	2.10E-04	2.50E-04	2.50E-04
KT-A2c	12	9.00E-05	1.50E-04	1.10E-04	2.10E-04	2.20E-04	2.30E-04	3.00E-05	5.00E-05	5.00E-05	1.90E-04	9.00E-05	9.00E-05	1.00E-04	1.80E-04	1.60E-04	3.20E-04	1.30E-04	1.80E-04	2.10E-04	2.20E-04
KT-A2d	16	6.00E-05	1.10E-04	8.00E-05	1.50E-04	1.60E-04	1.70E-04	2.00E-05	3.00E-05	4.00E-05	1.40E-04	7.00E-05	6.00E-05	7.00E-05	1.30E-04	1.20E-04	2.30E-04	1.00E-04	1.30E-04	1.60E-04	1.60E-04
KT-A2e	20	4.00E-05	7.00E-05	5.00E-05	1.00E-04	1.10E-04	1.10E-04	1.00E-05	2.00E-05	3.00E-05	9.00E-05	4.00E-05	4.00E-05	5.00E-05	9.00E-05	8.00E-05	1.50E-04	6.00E-05	9.00E-05	1.00E-04	1.10E-04
KT-A2f	30	3.00E-05	6.00E-05	4.00E-05	8.00E-05	8.00E-05	8.00E-05	1.00E-05	2.00E-05	2.00E-05	7.00E-05	3.00E-05	3.00E-05	4.00E-05	7.00E-05	6.00E-05	1.20E-04	5.00E-05	7.00E-05	8.00E-05	8.00E-05
KT-A2g	40	3.00E-05	4.00E-05	3.00E-05	6.00E-05	7.00E-05	7.00E-05	1.00E-05	1.00E-05	2.00E-05	6.00E-05	3.00E-05	3.00E-05	3.00E-05	5.00E-05	5.00E-05	9.00E-05	4.00E-05	6.00E-05	6.00E-05	7.00E-05
KT-A2h	50	2.00E-05	4.00E-05	3.00E-05	5.00E-05	5.00E-05	5.00E-05	1.00E-05	1.00E-05	1.00E-05	4.00E-05	2.00E-05	2.00E-05	2.00E-05	4.00E-05	4.00E-05	8.00E-05	3.00E-05	4.00E-05	5.00E-05	5.00E-05
KT-A2i	60	2.00E-05	3.00E-05	2.00E-05	4.00E-05	4.00E-05	4.00E-05	1.00E-05	1.00E-05	1.00E-05	4.00E-05	2.00E-05	2.00E-05	2.00E-05	3.00E-05	3.00E-05	6.00E-05	2.00E-05	3.00E-05	4.00E-05	4.00E-05
KT-A2j	70	1.00E-05	2.00E-05	2.00E-05	3.00E-05	3.00E-05	3.00E-05	0.00E+00	1.00E-05	1.00E-05	3.00E-05	1.00E-05	1.00E-05	1.00E-05	3.00E-05	2.00E-05	4.00E-05	2.00E-05	3.00E-05	3.00E-05	3.00E-05
KT-A2k	80	1.00E-05	2.00E-05	1.00E-05	2.00E-05	2.00E-05	2.00E-05	0.00E+00	0.00E+00	1.00E-05	2.00E-05	1.00E-05	1.00E-05	1.00E-05	2.00E-05	2.00E-05	3.00E-05	1.00E-05	2.00E-05	2.00E-05	2.00E-05
KT-A2l	90	1.00E-05	1.00E-05	1.00E-05	2.00E-05	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	2.00E-05	1.00E-05	1.00E-05	2.00E-05	2.00E-05
KT-A2m	100	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	2.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05
KT-A2n	110	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	2.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05
KT-A2o	120	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05
KT-A2p	130	0.00E+00	1.00E-05	0.00E+00	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05
KT-A2q	140	0.00E+00	1.00E-05	0.00E+00	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05
KT-A2r	150	0.00E+00	1.00E-05	0.00E+00	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05	1.00E-05
KT-A2s	160	0.00E+00	1.00E-05	0.00E+00	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05	1.00E-05
KT-A2t	170	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05	1.00E-05
KT-A2u	180	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	1.00E-05	0.00E+00	1.00E-05	1.00E-05	1.00E-05
KT-A3	1.5	9.00E-05	1.50E-04	1.70E-04	2.10E-04	2.20E-04	2.30E-04	3.00E-05	5.00E-05	5.00E-05	1.80E-04	9.00E-05	9.00E-05	1.00E-04	1.80E-04	1.60E-04	3.10E-04	1.30E-04	1.80E-04	2.10E-04	2.10E-04
KT-A3a	4	7.00E-05	1.30E-04	1.80E-04	1.90E-04	1.90E-04	2.00E-04	3.00E-05	4.00E-05	5.00E-05	1.60E-04	8.00E-05	7.00E-05	8.00E-05	1.50E-04	1.40E-04	2.70E-04	1.10E-04	1.60E-04	1.80E-04	1.90E-04
KT-A3b	8	6.00E-05	1.10E-04	1.60E-04	1.70E-04	1.50E-04	1.60E-04	2.00E-05	3.00E-05	4.00E-05	1.30E-04	6.00E-05	6.00E-05	7.00E-05	1.30E-04	1.10E-04	2.20E-04	9.00E-05	1.30E-04	1.50E-04	1.50E-04
KT-A3c	12	6.00E-05	1.00E-04	1.20E-04	1.40E-04	1.40E-04	1.50E-04	2.00E-05	3.00E-05	3.00E-05	1.20E-04	6.00E-05	6.00E-05	6.00E-05	1.20E-04	1.00E-04	2.00E-04	9.00E-05	1.20E-04	1.40E-04	1.40E-04
KT-A3d	16	5.00E-05	9.00E-05	7.00E-05	1.20E-04	1.30E-04	1.30E-04	2.00E-05	3.00E-05	3.00E-05	1.10E-04	5.00E-05	5.00E-05	6.00E-05	1.10E-04	9.00E-05	1.80E-04	8.00E-05	1.10E-04	1.30E-04	1.30E-04
KT-A3e	20	5.00E-05	8.00E-05	6.00E-05	1.10E-04	1.20E-04	1.20E-04	2.00E-05	2.00E-05	3.00E-05	1.00E-04	5.00E-05	5.00E-05	5.00E-05	1.00E-04	9.00E-05	1.70E-04	7.00E-05	1.00E-04	1.10E-04	1.10E-04
KT-A3f	30	4.00E-05	6.00E-05	4.00E-05	9.00E-05	9.00E-05	9.00E-05	1.00E-05	2.00E-05	2.00E-05	8.00E-05	4.00E-05	4.00E-05	4.00E-05	7.00E-05	7.00E-05	1.30E-04	5.00E-05	7.00E-05	9.00E-05	9.00E-05
KT-A3g	40	3.00E-05	5.00E-05	3.00E-05	6.00E-05	7.00E-05	7.00E-05	1.00E-05	1.00E-05	2.00E-05	6.00E-05	3.00E-05	3.00E-05	3.00E-05	5.00E-05	5.00E-05	9.00E-05	4.00E-05	6.00E-05	6.00E-05	7.00E-05
KT-A3h	50	2.00E-05	3.00E-05	2.00E-05	5.00E-05	5.00E-05	5.00E-05	1.00E-05	1.00E-05	1.00E-05	4.00E-05	2.00E-05	2.00E-05	2.00E-05	4.00E-05	3.00E-05	7.00E-05	3.00E-05	4.00E-05	5.00E-05	5.00E-05
KT-A3i	60	1.00E-05	2.00E-05	2.00E-05	3.00E-05	3.00E-05	3.00E-05	0.00E+00	1.00E-05	1.00E-05	3.00E-05	1.00E-05	1.00E-05	1.00E-05	3.00E-05	2.00E-05	5.00E-05	2.00E-05	3.00E-05	3.00E-05	3.00E-05
KT-A3j	70	1.00E-05	2.00E-05	1.00E-05	2.00E-05	2.00E-05	2.00E-05	0.00E+00	1.00E-05	1.00E-05	2.00E-05	1.00E-05	1.00E-05	1.00E-05	2.00E-05	2.00E-05	3.00E-05	1.00E-05	2.00E-05	2.00E-05	2.00E-05
KT-A3k	80	1.00E-05	1.00E-05	1.00E-05	2.00E-05	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	2.00E-05	1.00E-05	1.00E-05	1.00E-05	2.00E-05	1.00E-05	3.00E-05	1.00E-05	2.00E-05	2.00E-05	2.00E-05
KT-A3l	90	1.00E-05	1.00E-05	1.00E-05	2.00E-05	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	2.00E-05	1.00E-05	1.00E-05	2.00E-05	2.00E-05
KT-A3m	100	1.00E-05	1.00E-05	1.00E-05	2.00E-05	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	2.00E-05	1.00E-05	1.00E-05	2.00E-05	2.00E-05
KT-A4	1.5	2.80E-04	4.90E-04	3.60E-04	6.80E-04	7.10E-04	7.40E-04	1.00E-04	1.50E-04	1.80E-04	6.00E-04	2.90E-04	2.80E-04	3.20E-04	5.80E-04	5.30E-04	1.02E-03	4.30E-04	5.90E-04	6.90E-04	7.00E-04
KT-A4a	4	2.30E-04	4.00E-04	3.00E-04	5.70E-04	5.90E-04	6.10E-04	8.00E-05	1.30E-04	1.50E-04	5.00E-04	2.40E-04	2.30E-04	2.60E-04	4.80E-04	4.30E-04	8.50E-04	3.60E-04	4.90E-04	5.70E-04	5.80E-04
KT-A4b	8	1.60E-04	2.70E-04	2.00E-04	3.80E-04	3.90E-04	4.10E-04	5.00E-05	8.00E-05	1.00E-04	3.30E-04	1.60E-04	1.60E-04	1.80E-04	3.20E-04	2.90E-04	5.70E-04	2.40E-04	3.30E-04	3.80E-04	3.90E-04
KT-A4c	12	6.00E-05	1.10E-04	1.00E-04	1.60E-04	1.60E-04	1.70E-04	2.00E-05	3.00E-05	4.00E-05	1.40E-04	7.00E-05	6.00E-05	7.00E-05	1.30E-04	1.20E-04	2.30E-04	1.00E-04	1.40E-04	1.60E-04	1.60E-04
KT-A4d	16	5.00E-05	8.00E-05	8.00E-05	1.10E-04	1.20E-04	1.20E-04	2.00E-05	2.00E-05	3.00E-05	1.00E-04	5.00E-05	5.00E-05	5.00E-05	1.00E-04	9.00E-05	1.70E-04	7.00E-05	1.00E-04	1.10E-04	1.10E-04
KT-A4e	20	4.00E-05	7.00E-05	7.00E-05	1.00E-04	1.00E-04	1.00E-04	1.00E-05	2.00E-05	2.00E-05	8.00E-05	4.00E-05	4.00E-05	4.00E-05	8.00E-05	7.00E-05	1.40E-04	6.00E-05	8.00E-05	1.00E-04	1.00E-04

AERMOD Model Results on Hydrocarbons (HC) **Option B, Part 3** **Hourly** = Used in Calculation on Project Contribution

Hourly		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20
		Naphthalene	Phenanthrer	Anthracene	Fluoranthen	Pyrene	Benzo(a)pyr	Benzene	Toluene	Ethylbenzen	Xylenes (Tot	Acenaphthy	Acenaphthe	Fluorene	Chrysene	Benzo(a)ant	Benzo(b)fluo	Benzo(k)fluo	Dibenzo(a,h)	Indeno(1,2,3	Benzo(g,h,i)perylene
Maximum Value		1.61E-03	2.75E-03	2.04E-03	3.88E-03	4.03E-03	4.18E-03	5.50E-04	8.60E-04	1.00E-03	3.42E-03	1.66E-03	1.59E-03	1.80E-03	3.31E-03	2.97E-03	5.79E-03	2.43E-03	3.36E-03	3.93E-03	3.98E-03
ASR_ID	mAG																				
KT-A4f	30	3.00E-05	6.00E-05	4.00E-05	8.00E-05	8.00E-05	8.00E-05	1.00E-05	2.00E-05	2.00E-05	7.00E-05	3.00E-05	3.00E-05	4.00E-05	7.00E-05	6.00E-05	1.20E-04	5.00E-05	7.00E-05	8.00E-05	8.00E-05
KT-A4g	40	3.00E-05	5.00E-05	3.00E-05	6.00E-05	7.00E-05	7.00E-05	1.00E-05	1.00E-05	2.00E-05	6.00E-05	3.00E-05	3.00E-05	3.00E-05	6.00E-05	5.00E-05	1.00E-04	4.00E-05	6.00E-05	7.00E-05	7.00E-05
KT-A4h	50	2.00E-05	4.00E-05	3.00E-05	5.00E-05	5.00E-05	6.00E-05	1.00E-05	1.00E-05	1.00E-05	5.00E-05	2.00E-05	2.00E-05	2.00E-05	5.00E-05	4.00E-05	8.00E-05	3.00E-05	5.00E-05	5.00E-05	5.00E-05
KT-A4i	60	2.00E-05	3.00E-05	2.00E-05	4.00E-05	4.00E-05	5.00E-05	1.00E-05	1.00E-05	1.00E-05	4.00E-05	2.00E-05	2.00E-05	2.00E-05	4.00E-05	3.00E-05	6.00E-05	3.00E-05	4.00E-05	4.00E-05	4.00E-05
KT-A4j	70	1.00E-05	2.00E-05	2.00E-05	3.00E-05	3.00E-05	3.00E-05	0.00E+00	1.00E-05	1.00E-05	3.00E-05	1.00E-05	1.00E-05	2.00E-05	3.00E-05	2.00E-05	5.00E-05	2.00E-05	3.00E-05	3.00E-05	3.00E-05
KT-A4k	80	1.00E-05	2.00E-05	1.00E-05	3.00E-05	3.00E-05	3.00E-05	0.00E+00	1.00E-05	1.00E-05	2.00E-05	1.00E-05	1.00E-05	1.00E-05	2.00E-05	2.00E-05	4.00E-05	2.00E-05	2.00E-05	3.00E-05	3.00E-05
KT-A4l	90	1.00E-05	1.00E-05	1.00E-05	2.00E-05	2.00E-05	2.00E-05	0.00E+00	0.00E+00	1.00E-05	2.00E-05	1.00E-05	1.00E-05	1.00E-05	2.00E-05	2.00E-05	3.00E-05	1.00E-05	2.00E-05	2.00E-05	2.00E-05
KT-A4m	100	1.00E-05	1.00E-05	1.00E-05	2.00E-05	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	2.00E-05	1.00E-05	1.00E-05	2.00E-05	2.00E-05
KT-A4n	110	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05	1.00E-05	2.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05
KT-A4o	120	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05
KT-A5	1.5	6.20E-04	1.06E-03	7.90E-04	1.50E-03	1.56E-03	1.62E-03	2.10E-04	3.30E-04	3.90E-04	1.32E-03	6.40E-04	6.20E-04	7.00E-04	1.28E-03	1.15E-03	2.24E-03	9.40E-04	1.30E-03	1.52E-03	1.54E-03
KT-A5a	4	6.50E-04	1.12E-03	8.30E-04	1.58E-03	1.64E-03	1.70E-03	2.30E-04	3.50E-04	4.10E-04	1.39E-03	6.70E-04	6.50E-04	7.30E-04	1.35E-03	1.21E-03	2.36E-03	9.90E-04	1.37E-03	1.60E-03	1.62E-03
KT-A5b	8	4.20E-04	7.10E-04	5.30E-04	1.00E-03	1.04E-03	1.08E-03	1.40E-04	2.20E-04	2.60E-04	8.90E-04	4.30E-04	4.10E-04	4.70E-04	8.60E-04	7.70E-04	1.50E-03	6.30E-04	8.70E-04	1.02E-03	1.03E-03
KT-A5c	12	1.80E-04	3.10E-04	2.30E-04	4.30E-04	4.50E-04	4.70E-04	6.00E-05	1.00E-04	1.10E-04	3.80E-04	1.90E-04	1.80E-04	2.00E-04	3.70E-04	3.30E-04	6.50E-04	2.70E-04	3.80E-04	4.40E-04	4.50E-04
KT-A5d	16	1.30E-04	2.30E-04	1.70E-04	3.20E-04	3.30E-04	3.40E-04	5.00E-05	7.00E-05	8.00E-05	2.80E-04	1.40E-04	1.30E-04	1.50E-04	2.70E-04	2.40E-04	4.80E-04	2.00E-04	2.80E-04	3.20E-04	3.30E-04
KT-A5e	20	1.00E-04	1.70E-04	1.30E-04	2.40E-04	2.50E-04	2.60E-04	3.00E-05	5.00E-05	6.00E-05	2.10E-04	1.00E-04	1.00E-04	1.10E-04	2.00E-04	1.80E-04	3.60E-04	1.50E-04	2.10E-04	2.40E-04	2.40E-04
KT-A6	1.5	6.00E-04	1.03E-03	7.70E-04	1.46E-03	1.51E-03	1.57E-03	2.10E-04	3.30E-04	3.70E-04	1.29E-03	6.20E-04	6.00E-04	6.80E-04	1.24E-03	1.12E-03	2.18E-03	9.10E-04	1.26E-03	1.48E-03	1.50E-03
KT-A6a	4	6.00E-04	1.03E-03	7.60E-04	1.45E-03	1.51E-03	1.57E-03	2.10E-04	3.20E-04	3.70E-04	1.28E-03	6.20E-04	6.00E-04	6.80E-04	1.24E-03	1.12E-03	2.17E-03	9.10E-04	1.26E-03	1.47E-03	1.49E-03
KT-A6b	8	4.00E-04	6.80E-04	5.00E-04	9.60E-04	9.90E-04	1.03E-03	1.40E-04	2.10E-04	2.50E-04	8.40E-04	4.10E-04	3.90E-04	4.40E-04	8.20E-04	7.30E-04	1.43E-03	6.00E-04	8.30E-04	9.70E-04	9.80E-04
KT-A6c	12	1.70E-04	2.90E-04	2.20E-04	4.10E-04	4.30E-04	4.50E-04	6.00E-05	9.00E-05	1.10E-04	3.70E-04	1.80E-04	1.70E-04	1.90E-04	3.50E-04	3.20E-04	6.20E-04	2.60E-04	3.60E-04	4.20E-04	4.20E-04
KT-A7	1.5	2.50E-04	4.20E-04	3.10E-04	6.00E-04	6.20E-04	6.50E-04	9.00E-05	1.30E-04	1.50E-04	5.30E-04	2.60E-04	2.50E-04	2.80E-04	5.10E-04	4.60E-04	8.90E-04	3.80E-04	5.20E-04	6.10E-04	6.10E-04
KT-A7a	4	2.10E-04	3.60E-04	2.70E-04	5.00E-04	5.20E-04	5.40E-04	7.00E-05	1.10E-04	1.30E-04	4.40E-04	2.20E-04	2.10E-04	2.30E-04	4.30E-04	3.90E-04	7.50E-04	3.20E-04	4.40E-04	5.10E-04	5.20E-04
KT-A7b	8	1.40E-04	2.40E-04	1.90E-04	3.40E-04	3.50E-04	3.70E-04	5.00E-05	8.00E-05	9.00E-05	3.00E-04	1.50E-04	1.40E-04	1.60E-04	2.90E-04	2.60E-04	5.10E-04	2.10E-04	2.90E-04	3.40E-04	3.50E-04
KT-A7c	12	9.00E-05	1.50E-04	1.10E-04	2.20E-04	2.20E-04	2.30E-04	3.00E-05	5.00E-05	6.00E-05	1.90E-04	9.00E-05	9.00E-05	1.00E-04	1.80E-04	1.70E-04	3.20E-04	1.40E-04	1.90E-04	2.20E-04	2.20E-04
KT-A7d	16	6.00E-05	1.00E-04	7.00E-05	1.40E-04	1.50E-04	1.50E-04	2.00E-05	3.00E-05	4.00E-05	1.30E-04	6.00E-05	6.00E-05	7.00E-05	1.20E-04	1.10E-04	2.10E-04	9.00E-05	1.20E-04	1.40E-04	1.50E-04
KT-A7e	20	5.00E-05	9.00E-05	7.00E-05	1.30E-04	1.30E-04	1.40E-04	2.00E-05	3.00E-05	3.00E-05	1.10E-04	5.00E-05	5.00E-05	6.00E-05	1.10E-04	1.00E-04	1.90E-04	8.00E-05	1.10E-04	1.30E-04	1.30E-04
KT-A8	1.5	1.30E-04	2.20E-04	1.60E-04	3.10E-04	3.20E-04	3.40E-04	4.00E-05	7.00E-05	8.00E-05	2.70E-04	1.30E-04	1.30E-04	1.40E-04	2.70E-04	2.40E-04	4.60E-04	1.90E-04	2.70E-04	3.10E-04	3.20E-04
KT-A8a	4	1.60E-04	2.70E-04	2.00E-04	3.80E-04	3.90E-04	4.10E-04	5.00E-05	8.00E-05	1.00E-04	3.30E-04	1.60E-04	1.60E-04	1.80E-04	3.20E-04	2.90E-04	5.60E-04	2.40E-04	3.30E-04	3.80E-04	3.90E-04
KT-A8b	8	1.70E-04	2.80E-04	2.10E-04	4.00E-04	4.20E-04	4.30E-04	6.00E-05	9.00E-05	1.00E-04	3.50E-04	1.70E-04	1.60E-04	1.90E-04	3.40E-04	3.10E-04	6.00E-04	2.50E-04	3.50E-04	4.00E-04	4.10E-04
KT-A8c	12	1.30E-04	2.20E-04	1.60E-04	3.10E-04	3.20E-04	3.30E-04	4.00E-05	7.00E-05	8.00E-05	2.70E-04	1.30E-04	1.30E-04	1.40E-04	2.60E-04	2.30E-04	4.60E-04	1.90E-04	2.70E-04	3.10E-04	3.10E-04
KT-A8d	16	7.00E-05	1.20E-04	9.00E-05	1.70E-04	1.70E-04	1.80E-04	2.00E-05	4.00E-05	4.00E-05	1.50E-04	7.00E-05	7.00E-05	8.00E-05	1.40E-04	1.30E-04	2.50E-04	1.00E-04	1.40E-04	1.70E-04	1.70E-04
KT-A8e	20	6.00E-05	1.00E-04	8.00E-05	1.40E-04	1.50E-04	1.50E-04	2.00E-05	3.00E-05	4.00E-05	1.30E-04	6.00E-05	6.00E-05	7.00E-05	1.20E-04	1.10E-04	2.10E-04	9.00E-05	1.20E-04	1.50E-04	1.50E-04
KT-A8f	30	4.00E-05	8.00E-05	6.00E-05	1.10E-04	1.10E-04	1.10E-04	2.00E-05	2.00E-05	3.00E-05	9.00E-05	5.00E-05	4.00E-05	5.00E-05	9.00E-05	8.00E-05	1.60E-04	7.00E-05	9.00E-05	1.10E-04	1.10E-04
KT-A8g	40	3.00E-05	5.00E-05	4.00E-05	7.00E-05	7.00E-05	7.00E-05	1.00E-05	1.00E-05	2.00E-05	6.00E-05	3.00E-05	3.00E-05	3.00E-05	6.00E-05	5.00E-05	1.00E-04	4.00E-05	6.00E-05	7.00E-05	7.00E-05
KT-A8h	50	2.00E-05	3.00E-05	2.00E-05	4.00E-05	4.00E-05	4.00E-05	1.00E-05	1.00E-05	1.00E-05	4.00E-05	2.00E-05	2.00E-05	2.00E-05	3.00E-05	3.00E-05	6.00E-05	3.00E-05	3.00E-05	4.00E-05	4.00E-05
KT-A8i	60	1.00E-05	2.00E-05	2.00E-05	3.00E-05	3.00E-05	3.00E-05	0.00E+00	1.00E-05	1.00E-05	3.00E-05	1.00E-05	1.00E-05	1.00E-05	3.00E-05	2.00E-05	5.00E-05	2.00E-05	3.00E-05	3.00E-05	3.00E-05
KT-A8j	70	1.00E-05	2.00E-05	1.00E-05	2.00E-05	2.00E-05	3.00E-05	0.00E+00	1.00E-05	1.00E-05	2.00E-05	1.00E-05	1.00E-05	1.00E-05	2.00E-05	2.00E-05	3.00E-05	1.00E-05	2.00E-05	2.00E-05	2.00E-05
KT-A8k	80	1.00E-05	1.00E-05	1.00E-05	2.00E-05	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	2.00E-05	1.00E-05	1.00E-05	2.00E-05	2.00E-05
KT-A8l	90	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	2.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05
KT-A8m	100	0.00E+00	1.00E-05	0.00E+00	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05	1.00E-05
KT-A9	1.5	1.13E-03	1.94E-03	1.44E-03	2.74E-03	2.84E-03	2.95E-03	3.90E-04	6.10E-04	7.00E-04	2.41E-03	1.17E-03	1.12E-03	1.27E-03	2.34E-03	2.10E-03	4.09E-03	1.72E-03	2.37E-03	2.77E-03	2.81E-03
KT-A9a	4	1.61E-03	2.75E-03	2.04E-03	3.88E-03	4.03E-03	4.18E-03	5.50E-04	8.60E-04	1.00E-03	3.42E-03	1.66E-03	1.59E-03	1.80E-03	3.31E-03	2.97E-03	5.79E-03	2.43E-03	3.36E-03	3.93E-03	3.98E-03
KT-A9b	8	8.30E-04	1.43E-03	1.06E-03	2.01E-03	2.09E-03	2.17E-03	2.90E-04	4.50E-04	5.20E-04	1.78E-03	8.60E-04	8.30E-04	9.40E-04	1.72E-03	1.54E-03	3.01E-03	1.26E-03	1.75E-03	2.04E-03	2.06E-03
KT-A10	1.5	6.00E-05	1.00E-04	1.40E-04	1.50E-04	1.40E-04	1.50E-04	2.00E-05	3.00E-05	3.00E-05	1.20E-04	6.00E-05	6.00E-05	6.00E-05	1.20E-04	1.00E-04	2.00E-04	8.00E-05	1.20E-04	1.40E-04	1.40E-04
KT-A10a	4	5.00E-05	9.00E-05	1.40E-04	1.60E-04	1.40E-04	1.40E-04	2.00E-05	3.00E-05	3.00E-05	1.10E-04	6.00E-05	5.00E-05	6.00E-05	1.10E-04	1.00E-04	1.90E-04	8.00E-05	1.10E-04	1.30E-04	1.30E-04
KT-A10b	8	5.00E-05	9.00E-05	1.30E-04	1.40E-04	1.30E-04	1.30E-04	2.00E-05	3.00E-05	3.00E-05	1.10E-04	5.00E-05	5.00E-05	6.00E-05	1.00E-04	9.00E-05	1.80E-04	8.00E-05	1.10E-04	1.20E-04	1.30E-04
KT-A10c	12	5.00E-05	8.00E-05	1.10E-04	1.10E-04	1.20E-04	1.20E-04	2.00E-05	3.00E-05	3.00E-05	1.00E-04	5.00E-05	5.00E-05	5.00E-05	1.00E-04	9.00E-05	1.70E-04	7.00E-05	1.00E-04	1.20E-04	1.20E-04
KT-A10d	16	4.00E-05	8.00E-05	7.00E-05	1.10E-04	1.10E-04	1.20E-04	2.00E-05	2.00E-05	3.00E-05	9.00E-05	5.00E-05	4.00E-05	5.00E-05	9.00E-05	8.00E-05	1.60E-04	7.00E-05	9.00E-05	1.10E-04	1.10E-04
KT-A10e	20	4.00E-05	7.00E-05	5.00E-05	1.00E-04	1.00E-04	1.10E-04	1.00E-05	2.00E-05	3.00E-05	9.00E-05	4.00E-05	4.00E-05	5.00E-05	8.00E-05	8.00E-05	1.50E-04	6.00E-05	9.00E-05	1.00E-04	1.00E-04
KT-A10f	30	3.00E-05	6.00E-05	4.00E-05	8.00E-05	9.00E-05	9.00E-05	1.00E-05	2.00E-05	2.00E-05	7.00E-05	4.00E-05	3.00E-05	4.00E-05	7.00E-05	6.00E-05	1.20E-04	5.00E-05	7.00E-05	8.00E-05	8.00E-05
KT-A10g	40	3.00E-05	5.00E-05	4.00E-05	7.00E-05	7.00E-05	7.00E-05	1.00E-05	2.00E-05	2.00E-05	6.00E-05	3.00E-05	3.00E-05	3.00E-05	6.00E-05	5.00E-05	1.00E-04	4.00E-05	6.00E-05	7.00E-05	7.00E-05
KT-A10h	50	2.00E-05	4.00E-05	3.00E-05	5.00E-05	6.00E-05	6.00E-05	1.00E-05	1.00E-05	1.00E-05	5.00E-05	2.00E-05	2.00E-05	3.00E-05	5.00E-05	4.00E-05	8.00E-05	3.00E-05	5.00E-05	5.00E-05	6.00E-05
KT-A10i	60	2.00E-05	3.00E-05	2.00E-05	4.00E-05	4.00E-05	4.00E-05	1.00E-05	1.00E-05	1.00E-05	4.00E-05	2.00E-05	2.00E-05	2.00E-05	4.00E-05	3.00E-05	6.00E-05	3.00E-05	4.00E-05	4.00E-05	4.00E-05
KT-A10j	70	1.00E-05	2.00E-05	2.00E-05	3.00E-05	3.00E-05	3.00E-05	0.00E+00	1.00E-05	1.00E-05	3.00E-05	1.00E-05	1.00E-05	1.00E-05	3.00E-05	2.00E-05	5.00E-05	2.00E-05	3.00E-05	3.00E-05	3.00E-05
KT-A10k	80	1.00E-05	2.00E-05	1.00E-05	2.00E-05	2.00E-05	2.00E-05	0.00E+00	0.00E+00	1.00E-05	2.00E-05	1.00E-05	1.00E-05	1.00E-05	2.00E-05	2.00E-05	3.00E-05	1.00E-05	2.00E-05	2.00E-05	2.00E-05
KT-A10l	90	1.00E-05	1.00E-05	1.00E-05	2.00E-05	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	2.00E-05	1.00E-05	1.00E-05	2.00E-05	2.00E-05

AERMOD Model Results on Hydrocarbons (HC) **Option B, Part 3** **Hourly** = Used in Calculation on Project Contribution

Hourly		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20
		Naphthalene	Phenanthrer	Anthracene	Fluoranthen	Pyrene	Benzo(a)pyr	Benzene	Toluene	Ethylbenzen	Xylenes (Tot	Acenaphthy	Acenaphthe	Fluorene	Chrysene	Benzo(a)ant	Benzo(b)fluo	Benzo(k)fluo	Dibenzo(a,h)	Indeno(1,2,3	Benzo(g,h,i)perylene
Maximum Value		**1.61E-03**	**2.75E-03**	**2.04E-03**	**3.88E-03**	**4.03E-03**	**4.18E-03**	**5.50E-04**	**8.60E-04**	**1.00E-03**	**3.42E-03**	**1.66E-03**	**1.59E-03**	**1.80E-03**	**3.31E-03**	**2.97E-03**	**5.79E-03**	**2.43E-03**	**3.36E-03**	**3.93E-03**	**3.98E-03**
ASR_ID	**mAG**																				
KT-A10m	100	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	2.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05
KT-A10n	110	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05	1.00E-05	2.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05
KT-A10o	120	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	2.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05
KT-A10p	130	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05
KT-A10q	140	0.00E+00	1.00E-05	0.00E+00	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05
P01	1.5	1.90E-04	3.30E-04	2.60E-04	4.60E-04	4.80E-04	5.00E-04	7.00E-05	1.00E-04	1.20E-04	4.10E-04	2.00E-04	1.90E-04	2.10E-04	3.90E-04	3.50E-04	6.90E-04	2.90E-04	4.00E-04	4.70E-04	4.70E-04
P02	1.5	2.00E-04	3.40E-04	2.90E-04	4.80E-04	5.00E-04	5.20E-04	7.00E-05	1.10E-04	1.20E-04	4.30E-04	2.10E-04	2.00E-04	2.20E-04	4.10E-04	3.70E-04	7.20E-04	3.00E-04	4.20E-04	4.90E-04	5.00E-04
P03	1.5	1.60E-04	2.80E-04	2.40E-04	4.00E-04	4.10E-04	4.30E-04	6.00E-05	9.00E-05	1.00E-04	3.50E-04	1.70E-04	1.60E-04	1.80E-04	3.40E-04	3.00E-04	5.90E-04	2.50E-04	3.40E-04	4.00E-04	4.10E-04
P04	1.5	1.80E-04	3.00E-04	2.70E-04	4.30E-04	4.50E-04	4.60E-04	6.00E-05	1.00E-04	1.10E-04	3.80E-04	1.80E-04	1.80E-04	2.00E-04	3.70E-04	3.30E-04	6.40E-04	2.70E-04	3.70E-04	4.40E-04	4.40E-04
P10	1.5	1.10E-04	1.90E-04	1.40E-04	2.70E-04	2.80E-04	2.90E-04	4.00E-05	6.00E-05	7.00E-05	2.40E-04	1.20E-04	1.10E-04	1.30E-04	2.30E-04	2.10E-04	4.10E-04	1.70E-04	2.40E-04	2.80E-04	2.80E-04
P11	1.5	1.40E-04	2.30E-04	2.00E-04	3.30E-04	3.40E-04	3.60E-04	5.00E-05	7.00E-05	8.00E-05	2.90E-04	1.40E-04	1.40E-04	1.50E-04	2.80E-04	2.50E-04	4.90E-04	2.10E-04	2.90E-04	3.30E-04	3.40E-04
P12	1.5	1.40E-04	2.40E-04	1.80E-04	3.40E-04	3.50E-04	3.60E-04	5.00E-05	7.00E-05	9.00E-05	3.00E-04	1.40E-04	1.40E-04	1.60E-04	2.90E-04	2.60E-04	5.00E-04	2.10E-04	2.90E-04	3.40E-04	3.40E-04
P13	1.5	1.20E-04	2.10E-04	1.60E-04	2.90E-04	3.00E-04	3.10E-04	4.00E-05	6.00E-05	7.00E-05	2.60E-04	1.20E-04	1.20E-04	1.30E-04	2.50E-04	2.20E-04	4.30E-04	1.80E-04	2.50E-04	2.90E-04	3.00E-04
P14	1.5	8.00E-05	1.40E-04	1.50E-04	1.90E-04	2.00E-04	2.10E-04	3.00E-05	4.00E-05	5.00E-05	1.70E-04	8.00E-05	8.00E-05	9.00E-05	1.60E-04	1.50E-04	2.90E-04	1.20E-04	1.70E-04	1.90E-04	2.00E-04
P15	1.5	1.10E-04	1.80E-04	1.80E-04	2.60E-04	2.70E-04	2.80E-04	4.00E-05	6.00E-05	7.00E-05	2.30E-04	1.10E-04	1.10E-04	1.20E-04	2.20E-04	2.00E-04	3.80E-04	1.60E-04	2.20E-04	2.60E-04	2.60E-04
P16	1.5	1.20E-04	2.10E-04	1.90E-04	3.00E-04	3.10E-04	3.20E-04	4.00E-05	7.00E-05	8.00E-05	2.60E-04	1.30E-04	1.20E-04	1.40E-04	2.50E-04	2.30E-04	4.40E-04	1.90E-04	2.60E-04	3.00E-04	3.00E-04

AERMOD Model Results on Hydrocarbons (HC) **Option C, Part 1** **Hourly** = Used in Calculation on Project Contribution

Hourly		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20
		Naphthalene	Phenanthrer	Anthracene	Fluoranthen	Pyrene	Benzo(a)pyr	Benzene	Toluene	Ethylbenzen	Xylenes (Tot	Acenaphthy	Acenaphthe	Fluorene	Chrysene	Benzo(a)ant	Benzo(b)fluo	Benzo(k)fluo	Dibenzo(a,h)	Indeno(1,2,3	Benzo(g,h,i)perylene
Maximum Value		9.40E-04	6.61E-03	4.13E-03	2.51E-02	3.04E-02	2.89E-02	5.00E-04	6.00E-04	6.90E-04	2.08E-03	5.64E-03	1.45E-03	1.89E-03	1.55E-02	1.37E-02	2.88E-02	1.42E-02	5.69E-03	1.11E-02	1.37E-02
ASR_ID	mAG																				
KT-A1	1.5	4.20E-04	2.78E-03	1.82E-03	1.17E-02	1.41E-02	1.36E-02	2.20E-04	2.50E-04	2.90E-04	8.80E-04	2.61E-03	6.60E-04	8.00E-04	7.19E-03	6.06E-03	1.37E-02	6.43E-03	2.55E-03	5.08E-03	6.23E-03
KT-A1a	4	5.20E-04	3.47E-03	2.28E-03	1.46E-02	1.76E-02	1.69E-02	2.70E-04	3.20E-04	3.70E-04	1.10E-03	3.26E-03	8.20E-04	1.00E-03	8.98E-03	7.57E-03	1.71E-02	8.03E-03	3.18E-03	6.34E-03	7.78E-03
KT-A1b	8	5.00E-04	3.32E-03	2.18E-03	1.39E-02	1.69E-02	1.62E-02	2.60E-04	3.00E-04	3.50E-04	1.05E-03	3.12E-03	7.90E-04	9.50E-04	8.60E-03	7.25E-03	1.64E-02	7.69E-03	3.05E-03	6.07E-03	7.45E-03
KT-A1c	12	1.70E-04	1.30E-03	6.40E-04	3.71E-03	4.49E-03	4.30E-03	9.00E-05	1.20E-04	1.40E-04	4.50E-04	8.30E-04	2.10E-04	3.80E-04	2.29E-03	1.98E-03	4.32E-03	2.06E-03	8.20E-04	1.62E-03	1.99E-03
KT-A1d	16	1.40E-04	1.11E-03	5.50E-04	2.64E-03	3.20E-03	3.07E-03	8.00E-05	1.10E-04	1.20E-04	3.90E-04	5.90E-04	1.70E-04	3.30E-04	1.63E-03	1.68E-03	3.08E-03	1.52E-03	6.90E-04	1.15E-03	1.42E-03
KT-A1e	20	1.30E-04	9.30E-04	4.60E-04	1.93E-03	2.34E-03	2.23E-03	7.00E-05	9.00E-05	1.00E-04	3.30E-04	4.30E-04	1.50E-04	2.80E-04	1.19E-03	1.40E-03	2.24E-03	1.27E-03	5.90E-04	9.00E-04	1.16E-03
KT-A1f	30	9.00E-05	5.80E-04	2.90E-04	1.08E-03	1.31E-03	1.15E-03	5.00E-05	6.00E-05	7.00E-05	2.30E-04	2.70E-04	1.00E-04	1.80E-04	7.00E-04	8.70E-04	1.15E-03	7.80E-04	3.80E-04	5.70E-04	7.20E-04
KT-A1g	40	6.00E-05	3.50E-04	1.80E-04	6.40E-04	7.70E-04	6.70E-04	3.00E-05	4.00E-05	5.00E-05	1.50E-04	1.60E-04	7.00E-05	1.10E-04	4.20E-04	5.10E-04	6.40E-04	4.60E-04	2.30E-04	3.50E-04	4.40E-04
KT-A1h	50	4.00E-05	1.90E-04	1.00E-04	3.80E-04	4.70E-04	4.20E-04	2.00E-05	2.00E-05	3.00E-05	9.00E-05	9.00E-05	4.00E-05	7.00E-05	2.40E-04	2.80E-04	3.90E-04	2.60E-04	1.40E-04	2.00E-04	2.50E-04
KT-A1i	60	2.00E-05	1.60E-04	8.00E-05	3.00E-04	3.60E-04	3.10E-04	1.00E-05	2.00E-05	2.00E-05	6.00E-05	7.00E-05	2.00E-05	5.00E-05	1.90E-04	2.40E-04	2.70E-04	2.20E-04	1.00E-04	1.50E-04	2.00E-04
KT-A1j	70	2.00E-05	1.30E-04	7.00E-05	2.50E-04	3.10E-04	2.60E-04	1.00E-05	1.00E-05	2.00E-05	5.00E-05	6.00E-05	2.00E-05	4.00E-05	1.60E-04	2.00E-04	2.30E-04	1.80E-04	8.00E-05	1.30E-04	1.70E-04
KT-A1k	80	2.00E-05	1.10E-04	6.00E-05	2.10E-04	2.60E-04	2.20E-04	1.00E-05	1.00E-05	1.00E-05	4.00E-05	5.00E-05	2.00E-05	3.00E-05	1.40E-04	1.70E-04	2.00E-04	1.50E-04	7.00E-05	1.10E-04	1.40E-04
KT-A1l	90	1.00E-05	9.00E-05	5.00E-05	1.70E-04	2.10E-04	1.80E-04	1.00E-05	1.00E-05	1.00E-05	4.00E-05	4.00E-05	2.00E-05	3.00E-05	1.10E-04	1.40E-04	1.60E-04	1.30E-04	6.00E-05	9.00E-05	1.20E-04
KT-A1m	100	1.00E-05	8.00E-05	4.00E-05	1.50E-04	1.80E-04	1.50E-04	1.00E-05	1.00E-05	1.00E-05	3.00E-05	4.00E-05	1.00E-05	2.00E-05	9.00E-05	1.20E-04	1.40E-04	1.10E-04	5.00E-05	8.00E-05	1.00E-04
KT-A2	1.5	8.70E-04	6.15E-03	3.82E-03	2.30E-02	2.79E-02	2.64E-02	4.60E-04	5.60E-04	6.40E-04	1.94E-03	5.17E-03	1.33E-03	1.76E-03	1.42E-02	1.26E-02	2.63E-02	1.31E-02	5.25E-03	1.01E-02	1.25E-02
KT-A2a	4	9.40E-04	6.61E-03	4.13E-03	2.51E-02	3.04E-02	2.89E-02	5.00E-04	6.00E-04	6.90E-04	2.08E-03	5.64E-03	1.45E-03	1.89E-03	1.55E-02	1.37E-02	2.88E-02	1.42E-02	5.69E-03	1.11E-02	1.37E-02
KT-A2b	8	6.70E-04	4.72E-03	2.92E-03	1.75E-02	2.12E-02	2.01E-02	3.60E-04	4.30E-04	4.90E-04	1.49E-03	3.94E-03	1.02E-03	1.35E-03	1.08E-02	9.64E-03	2.00E-02	9.99E-03	4.01E-03	7.73E-03	9.57E-03
KT-A2c	12	3.70E-04	2.68E-03	1.61E-03	9.22E-03	1.12E-02	1.05E-02	2.00E-04	2.40E-04	2.80E-04	8.50E-04	2.08E-03	5.50E-04	7.60E-04	5.72E-03	5.27E-03	1.04E-02	5.39E-03	2.18E-03	4.12E-03	5.12E-03
KT-A2d	16	1.70E-04	1.29E-03	7.20E-04	3.70E-03	4.51E-03	4.14E-03	9.00E-05	1.20E-04	1.30E-04	4.10E-04	8.50E-04	2.40E-04	3.70E-04	2.31E-03	2.33E-03	3.97E-03	2.29E-03	9.50E-04	1.70E-03	2.14E-03
KT-A2e	20	9.00E-05	7.20E-04	3.70E-04	2.07E-03	2.51E-03	2.35E-03	5.00E-05	7.00E-05	8.00E-05	2.40E-04	4.70E-04	1.30E-04	2.10E-04	1.29E-03	1.22E-03	2.30E-03	1.23E-03	5.00E-04	9.30E-04	1.16E-03
KT-A2f	30	6.00E-05	3.80E-04	1.90E-04	9.70E-04	1.18E-03	1.10E-03	3.00E-05	4.00E-05	4.00E-05	1.40E-04	2.20E-04	6.00E-05	1.20E-04	6.10E-04	6.10E-04	1.08E-03	6.00E-04	2.50E-04	4.50E-04	5.60E-04
KT-A2g	40	4.00E-05	2.30E-04	1.20E-04	5.40E-04	6.60E-04	6.00E-04	2.00E-05	2.00E-05	3.00E-05	9.00E-05	1.20E-04	4.00E-05	7.00E-05	3.40E-04	3.60E-04	5.80E-04	3.40E-04	1.50E-04	2.50E-04	3.20E-04
KT-A2h	50	2.00E-05	1.70E-04	8.00E-05	3.30E-04	4.00E-04	3.50E-04	1.00E-05	2.00E-05	2.00E-05	6.00E-05	8.00E-05	3.00E-05	5.00E-05	2.10E-04	2.60E-04	3.30E-04	2.30E-04	1.00E-04	1.60E-04	2.10E-04
KT-A2i	60	2.00E-05	1.40E-04	7.00E-05	2.70E-04	3.20E-04	2.80E-04	1.00E-05	1.00E-05	2.00E-05	5.00E-05	6.00E-05	2.00E-05	4.00E-05	1.70E-04	2.10E-04	2.40E-04	1.90E-04	9.00E-05	1.30E-04	1.70E-04
KT-A2j	70	2.00E-05	1.20E-04	6.00E-05	2.30E-04	2.80E-04	2.40E-04	1.00E-05	1.00E-05	1.00E-05	4.00E-05	6.00E-05	2.00E-05	4.00E-05	1.50E-04	1.90E-04	2.10E-04	1.70E-04	8.00E-05	1.20E-04	1.50E-04
KT-A2k	80	1.00E-05	1.10E-04	5.00E-05	2.00E-04	2.50E-04	2.10E-04	1.00E-05	1.00E-05	1.00E-05	4.00E-05	5.00E-05	2.00E-05	3.00E-05	1.30E-04	1.60E-04	1.90E-04	1.50E-04	7.00E-05	1.00E-04	1.30E-04
KT-A2l	90	1.00E-05	9.00E-05	5.00E-05	1.80E-04	2.20E-04	1.80E-04	1.00E-05	1.00E-05	1.00E-05	3.00E-05	4.00E-05	2.00E-05	3.00E-05	1.10E-04	1.40E-04	1.60E-04	1.30E-04	6.00E-05	9.00E-05	1.20E-04
KT-A2m	100	1.00E-05	8.00E-05	4.00E-05	1.50E-04	1.90E-04	1.60E-04	1.00E-05	1.00E-05	1.00E-05	3.00E-05	4.00E-05	1.00E-05	2.00E-05	1.00E-04	1.20E-04	1.40E-04	1.10E-04	5.00E-05	8.00E-05	1.00E-04
KT-A2n	110	1.00E-05	7.00E-05	3.00E-05	1.30E-04	1.60E-04	1.30E-04	1.00E-05	1.00E-05	1.00E-05	3.00E-05	3.00E-05	1.00E-05	2.00E-05	8.00E-05	1.00E-04	1.20E-04	9.00E-05	4.00E-05	7.00E-05	9.00E-05
KT-A2o	120	1.00E-05	6.00E-05	3.00E-05	1.10E-04	1.30E-04	1.10E-04	0.00E+00	1.00E-05	1.00E-05	2.00E-05	3.00E-05	1.00E-05	2.00E-05	7.00E-05	9.00E-05	1.00E-04	8.00E-05	4.00E-05	6.00E-05	7.00E-05
KT-A2p	130	1.00E-05	5.00E-05	2.00E-05	9.00E-05	1.10E-04	1.00E-04	0.00E+00	1.00E-05	1.00E-05	2.00E-05	2.00E-05	1.00E-05	2.00E-05	6.00E-05	7.00E-05	9.00E-05	7.00E-05	3.00E-05	5.00E-05	6.00E-05
KT-A2q	140	1.00E-05	4.00E-05	2.00E-05	8.00E-05	1.00E-04	9.00E-05	0.00E+00	0.00E+00	1.00E-05	2.00E-05	2.00E-05	1.00E-05	1.00E-05	5.00E-05	7.00E-05	8.00E-05	6.00E-05	3.00E-05	4.00E-05	6.00E-05
KT-A2r	150	1.00E-05	4.00E-05	2.00E-05	7.00E-05	9.00E-05	8.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05	1.00E-05	1.00E-05	5.00E-05	6.00E-05	7.00E-05	5.00E-05	3.00E-05	4.00E-05	5.00E-05
KT-A2s	160	1.00E-05	3.00E-05	2.00E-05	6.00E-05	8.00E-05	7.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05	1.00E-05	1.00E-05	4.00E-05	5.00E-05	6.00E-05	5.00E-05	2.00E-05	3.00E-05	4.00E-05
KT-A2t	170	0.00E+00	3.00E-05	2.00E-05	5.00E-05	7.00E-05	6.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	4.00E-05	4.00E-05	5.00E-05	4.00E-05	2.00E-05	3.00E-05	4.00E-05
KT-A2u	180	0.00E+00	3.00E-05	1.00E-05	5.00E-05	6.00E-05	5.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	1.00E-05	3.00E-05	4.00E-05	5.00E-05	3.00E-05	2.00E-05	3.00E-05	3.00E-05
KT-A3	1.5	3.40E-04	2.80E-03	1.33E-03	5.45E-03	6.65E-03	6.34E-03	1.70E-04	2.20E-04	2.60E-04	8.40E-04	1.23E-03	3.80E-04	7.40E-04	3.37E-03	4.35E-03	6.38E-03	3.96E-03	1.60E-03	2.58E-03	3.42E-03
KT-A3a	4	3.30E-04	2.51E-03	1.19E-03	4.84E-03	5.96E-03	5.63E-03	1.50E-04	2.10E-04	2.40E-04	7.90E-04	1.10E-03	3.60E-04	6.60E-04	3.02E-03	3.90E-03	5.68E-03	3.55E-03	1.44E-03	2.32E-03	3.07E-03
KT-A3b	8	2.60E-04	1.93E-03	9.10E-04	3.69E-03	4.56E-03	4.05E-03	1.20E-04	1.60E-04	1.80E-04	6.10E-04	8.40E-04	2.80E-04	5.10E-04	2.32E-03	2.99E-03	4.08E-03	2.72E-03	1.11E-03	1.78E-03	2.35E-03
KT-A3c	12	1.60E-04	1.39E-03	6.60E-04	2.67E-03	3.29E-03	2.77E-03	9.00E-05	1.10E-04	1.20E-04	3.80E-04	6.10E-04	1.70E-04	3.70E-04	1.68E-03	2.16E-03	2.35E-03	1.96E-03	8.00E-04	1.29E-03	1.70E-03
KT-A3d	16	9.00E-05	9.90E-04	4.70E-04	1.88E-03	2.33E-03	1.96E-03	6.00E-05	8.00E-05	9.00E-05	2.80E-04	4.30E-04	1.20E-04	2.60E-04	1.19E-03	1.52E-03	1.92E-03	1.39E-03	5.70E-04	9.10E-04	1.21E-03
KT-A3e	20	7.00E-05	6.90E-04	3.30E-04	1.35E-03	1.63E-03	1.57E-03	4.00E-05	5.00E-05	6.00E-05	2.00E-04	3.00E-04	9.00E-05	1.90E-04	8.30E-04	1.06E-03	1.58E-03	9.70E-04	4.00E-04	6.40E-04	8.40E-04
KT-A3f	30	4.00E-05	3.40E-04	1.60E-04	8.60E-04	1.04E-03	1.00E-03	2.00E-05	3.00E-05	3.00E-05	1.10E-04	1.90E-04	5.00E-05	1.00E-04	5.30E-04	5.10E-04	1.01E-03	4.70E-04	2.10E-04	3.70E-04	4.60E-04
KT-A3g	40	3.00E-05	2.70E-04	1.30E-04	5.70E-04	6.90E-04	6.60E-04	2.00E-05	2.00E-05	3.00E-05	9.00E-05	1.30E-04	4.00E-05	8.00E-05	3.50E-04	4.10E-04	6.60E-04	3.80E-04	1.60E-04	2.50E-04	3.30E-04
KT-A3h	50	3.00E-05	2.20E-04	1.10E-04	4.30E-04	5.30E-04	4.60E-04	1.00E-05	2.00E-05	2.00E-05	7.00E-05	1.00E-04	3.00E-05	6.00E-05	2.70E-04	3.40E-04	4.60E-04	3.10E-04	1.30E-04	2.10E-04	2.80E-04
KT-A3i	60	2.00E-05	1.80E-04	9.00E-05	3.50E-04	4.30E-04	3.70E-04	1.00E-05	2.00E-05	2.00E-05	6.00E-05	8.00E-05	3.00E-05	5.00E-05	2.20E-04	2.80E-04	3.60E-04	2.60E-04	1.10E-04	1.70E-04	2.30E-04
KT-A3j	70	2.00E-05	1.50E-04	7.00E-05	2.80E-04	3.50E-04	3.00E-04	1.00E-05	1.00E-05	2.00E-05	5.00E-05	7.00E-05	2.00E-05	4.00E-05	1.80E-04	2.30E-04	2.80E-04	2.10E-04	9.00E-05	1.40E-04	1.80E-04
KT-A3k	80	2.00E-05	1.20E-04	6.00E-05	2.30E-04	2.80E-04	2.50E-04	1.00E-05	1.00E-05	1.00E-05	4.00E-05	5.00E-05	2.00E-05	3.00E-05	1.50E-04	1.80E-04	2.30E-04	1.60E-04	7.00E-05	1.10E-04	1.50E-04
KT-A3l	90	1.00E-05	1.00E-04	5.00E-05	2.00E-04	2.40E-04	2.10E-04	1.00E-05	1.00E-05	1.00E-05	4.00E-05	5.00E-05	2.00E-05	3.00E-05	1.20E-04	1.50E-04	2.00E-04	1.30E-04	6.00E-05	9.00E-05	1.20E-04
KT-A3m	100	1.00E-05	8.00E-05	4.00E-05	1.70E-04	2.00E-04	1.80E-04	1.00E-05	1.00E-05	1.00E-05	3.00E-05	4.00E-05	1.00E-05	2.00E-05	1.00E-04	1.20E-04	1.60E-04	1.10E-04	5.00E-05	8.00E-05	1.00E-04
KT-A4	1.5	2.60E-04	2.55E-03	1.23E-03	4.86E-03	5.99E-03	5.06E-03	1.60E-04	2.10E-04	2.40E-04	7.50E-04	1.13E-03	3.30E-04	7.00E-04	3.07E-03	3.93E-03	4.33E-03	3.57E-03	1.50E-03	2.39E-03	3.13E-03
KT-A4a	4	2.40E-04	2.07E-03	9.90E-04	3.95E-03	4.86E-03	4.10E-03	1.30E-04	1.70E-04	1.90E-04	6.00E-04	9.10E-04	2.70E-04	5.60E-04	2.49E-03	3.19E-03	3.51E-03	2.90E-03	1.21E-03	1.93E-03	2.54E-03
KT-A4b	8	1.80E-04	1.31E-03	6.30E-04	2.51E-03	3.09E-03	2.61E-03	8.00E-05	1.00E-04	1.20E-04	3.90E-04	5.80E-04	1.80E-04	3.50E-04	1.58E-03	2.03E-03	2.22E-03	1.84E-03	7.60E-04	1.22E-03	1.61E-03
KT-A4c	12	1.30E-04	9.40E-04	4.30E-04	1.83E-03	2.27E-03	1.90E-03	5.00E-05	7.00E-05	9.00E-05	2.90E-04	4.00E-04	1.30E-04	2.30E-04	1.13E-03	1.48E-03	1.57E-03	1.35E-03	5.10E-04	8.40E-04	1.14E-03
KT-A4d	16	1.10E-04	7.70E-04	3.60E-04	1.50E-03	1.86E-03	1.56E-03	4.00E-05	6.00E-05	7.00E-05	2.40E-04	3.30E-04	1.10E-04	1.90E-04	9.30E-04	1.22E-03	1.29E-03	1.11E-03	4.20E-04	6.90E-04	9.30E-04
KT-A4e	20	9.00E-05	6.30E-04	2.90E-04	1.22E-03	1.51E-03	1.26E-03	4.00E-05	5.00E-05	6.00E-05	1.90E-04	2.70E-04	9.00E-05	1.60E-04	7.50E-04	9.90E-04	1.04E-03	9.00E-04	3.40E-04	5.60E-04	7.60E-04

AERMOD Model Results on Hydrocarbons (HC) **Option C, Part 1** **Hourly** = Used in Calculation on Project Contribution

Hourly		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20
		Naphthalene	Phenanthrer	Anthracene	Fluoranthen	Pyrene	Benzo(a)pyr	Benzene	Toluene	Ethylbenzen	Xylenes (Tot	Acenaphthy	Acenaphthe	Fluorene	Chrysene	Benzo(a)ant	Benzo(b)fluo	Benzo(k)fluo	Dibenzo(a,h)	Indeno(1,2,3	Benzo(g,h,i)perylene
Maximum Value		9.40E-04	6.61E-03	4.13E-03	2.51E-02	3.04E-02	2.89E-02	5.00E-04	6.00E-04	6.90E-04	2.08E-03	5.64E-03	1.45E-03	1.89E-03	1.55E-02	1.37E-02	2.88E-02	1.42E-02	5.69E-03	1.11E-02	1.37E-02
ASR_ID	mAG																				
KT-A4f	30	6.00E-05	4.10E-04	2.00E-04	7.90E-04	9.80E-04	8.20E-04	3.00E-05	4.00E-05	5.00E-05	1.40E-04	1.80E-04	6.00E-05	1.20E-04	4.90E-04	6.40E-04	6.90E-04	5.80E-04	2.50E-04	3.80E-04	4.90E-04
KT-A4g	40	4.00E-05	3.00E-04	1.50E-04	6.00E-04	7.40E-04	6.40E-04	2.00E-05	3.00E-05	3.00E-05	1.10E-04	1.40E-04	5.00E-05	9.00E-05	3.70E-04	4.60E-04	5.50E-04	4.30E-04	1.90E-04	2.90E-04	3.70E-04
KT-A4h	50	3.00E-05	2.20E-04	1.10E-04	4.80E-04	5.90E-04	5.00E-04	2.00E-05	2.00E-05	2.00E-05	8.00E-05	1.10E-04	4.00E-05	7.00E-05	3.00E-04	3.60E-04	4.40E-04	3.40E-04	1.40E-04	2.20E-04	2.90E-04
KT-A4i	60	2.00E-05	1.70E-04	8.00E-05	3.70E-04	4.50E-04	3.90E-04	1.00E-05	2.00E-05	2.00E-05	6.00E-05	8.00E-05	3.00E-05	5.00E-05	2.30E-04	2.80E-04	3.50E-04	2.60E-04	1.00E-04	1.70E-04	2.30E-04
KT-A4j	70	2.00E-05	1.30E-04	7.00E-05	3.00E-04	3.70E-04	3.20E-04	1.00E-05	1.00E-05	1.00E-05	5.00E-05	7.00E-05	2.00E-05	4.00E-05	1.90E-04	2.20E-04	2.90E-04	2.00E-04	8.00E-05	1.40E-04	1.80E-04
KT-A4k	80	1.00E-05	1.00E-04	5.00E-05	2.40E-04	3.00E-04	2.60E-04	1.00E-05	1.00E-05	1.00E-05	4.00E-05	5.00E-05	2.00E-05	3.00E-05	1.50E-04	1.70E-04	2.40E-04	1.60E-04	7.00E-05	1.10E-04	1.50E-04
KT-A4l	90	1.00E-05	8.00E-05	4.00E-05	2.00E-04	2.40E-04	2.10E-04	1.00E-05	1.00E-05	1.00E-05	3.00E-05	4.00E-05	1.00E-05	3.00E-05	1.20E-04	1.40E-04	1.90E-04	1.30E-04	6.00E-05	9.00E-05	1.20E-04
KT-A4m	100	1.00E-05	7.00E-05	4.00E-05	1.60E-04	2.00E-04	1.80E-04	1.00E-05	1.00E-05	1.00E-05	3.00E-05	4.00E-05	1.00E-05	2.00E-05	1.00E-04	1.10E-04	1.60E-04	1.10E-04	5.00E-05	8.00E-05	1.00E-04
KT-A4n	110	1.00E-05	6.00E-05	3.00E-05	1.40E-04	1.70E-04	1.50E-04	0.00E+00	1.00E-05	1.00E-05	2.00E-05	3.00E-05	1.00E-05	2.00E-05	9.00E-05	1.00E-04	1.40E-04	9.00E-05	4.00E-05	6.00E-05	8.00E-05
KT-A4o	120	1.00E-05	5.00E-05	3.00E-05	1.20E-04	1.50E-04	1.30E-04	0.00E+00	0.00E+00	1.00E-05	2.00E-05	3.00E-05	1.00E-05	1.00E-05	7.00E-05	8.00E-05	1.20E-04	8.00E-05	3.00E-05	5.00E-05	7.00E-05
KT-A5	1.5	1.80E-04	1.03E-03	5.60E-04	2.23E-03	2.70E-03	2.41E-03	9.00E-05	1.20E-04	1.40E-04	4.50E-04	5.50E-04	2.20E-04	3.40E-04	1.45E-03	1.61E-03	2.30E-03	1.50E-03	7.50E-04	1.17E-03	1.45E-03
KT-A5a	4	2.30E-04	1.13E-03	6.10E-04	2.49E-03	3.01E-03	2.69E-03	9.00E-05	1.30E-04	1.50E-04	5.10E-04	6.10E-04	2.30E-04	3.60E-04	1.60E-03	1.79E-03	2.55E-03	1.67E-03	8.10E-04	1.28E-03	1.59E-03
KT-A5b	8	1.60E-04	1.08E-03	5.80E-04	2.49E-03	3.02E-03	2.70E-03	8.00E-05	1.10E-04	1.30E-04	4.00E-04	5.90E-04	2.00E-04	3.30E-04	1.58E-03	1.76E-03	2.53E-03	1.66E-03	7.60E-04	1.23E-03	1.55E-03
KT-A5c	12	1.10E-04	8.40E-04	4.50E-04	2.04E-03	2.49E-03	2.23E-03	6.00E-05	8.00E-05	9.00E-05	2.80E-04	4.70E-04	1.40E-04	2.40E-04	1.28E-03	1.41E-03	2.08E-03	1.34E-03	5.80E-04	9.80E-04	1.24E-03
KT-A5d	16	7.00E-05	5.30E-04	2.80E-04	1.38E-03	1.68E-03	1.52E-03	4.00E-05	5.00E-05	5.00E-05	1.80E-04	3.10E-04	9.00E-05	1.50E-04	8.60E-04	9.10E-04	1.42E-03	8.90E-04	3.60E-04	6.40E-04	8.10E-04
KT-A5e	20	7.00E-05	3.30E-04	1.80E-04	7.50E-04	9.20E-04	8.40E-04	3.00E-05	4.00E-05	5.00E-05	1.60E-04	1.70E-04	8.00E-05	1.20E-04	4.70E-04	5.00E-04	8.00E-04	4.70E-04	2.50E-04	3.60E-04	4.40E-04
KT-A6	1.5	6.20E-04	3.05E-03	1.42E-03	5.89E-03	7.30E-03	6.11E-03	2.10E-04	3.30E-04	3.80E-04	1.32E-03	1.32E-03	6.10E-04	7.70E-04	3.67E-03	4.77E-03	5.11E-03	4.35E-03	1.69E-03	2.77E-03	3.71E-03
KT-A6a	4	5.60E-04	2.59E-03	1.21E-03	5.00E-03	6.19E-03	5.19E-03	1.90E-04	3.00E-04	3.50E-04	1.20E-03	1.12E-03	5.60E-04	6.50E-04	3.11E-03	4.05E-03	4.34E-03	3.69E-03	1.44E-03	2.35E-03	3.14E-03
KT-A6b	8	4.10E-04	1.77E-03	8.20E-04	3.42E-03	4.24E-03	3.55E-03	1.40E-04	2.20E-04	2.50E-04	8.70E-04	7.70E-04	4.00E-04	4.60E-04	2.13E-03	2.77E-03	2.96E-03	2.52E-03	9.80E-04	1.60E-03	2.15E-03
KT-A6c	12	1.90E-04	1.14E-03	5.30E-04	2.20E-03	2.73E-03	2.28E-03	8.00E-05	1.10E-04	1.30E-04	4.20E-04	4.90E-04	1.90E-04	3.10E-04	1.37E-03	1.78E-03	1.90E-03	1.63E-03	6.30E-04	1.03E-03	1.38E-03
KT-A7	1.5	3.50E-04	1.31E-03	6.00E-04	2.55E-03	3.17E-03	2.65E-03	1.20E-04	1.90E-04	2.20E-04	7.50E-04	5.60E-04	3.50E-04	4.10E-04	1.58E-03	2.06E-03	2.19E-03	1.89E-03	7.80E-04	1.17E-03	1.58E-03
KT-A7a	4	3.10E-04	1.13E-03	5.20E-04	2.20E-03	2.74E-03	2.29E-03	1.10E-04	1.70E-04	1.90E-04	6.70E-04	4.90E-04	3.10E-04	3.60E-04	1.36E-03	1.78E-03	1.89E-03	1.63E-03	6.90E-04	1.01E-03	1.37E-03
KT-A7b	8	2.30E-04	8.10E-04	3.70E-04	1.57E-03	1.96E-03	1.64E-03	8.00E-05	1.30E-04	1.50E-04	5.10E-04	3.50E-04	2.30E-04	2.70E-04	9.70E-04	1.27E-03	1.35E-03	1.16E-03	5.20E-04	7.20E-04	9.80E-04
KT-A7c	12	1.30E-04	5.90E-04	2.80E-04	1.17E-03	1.45E-03	1.23E-03	5.00E-05	7.00E-05	8.00E-05	2.80E-04	2.70E-04	1.30E-04	1.60E-04	7.40E-04	9.20E-04	1.06E-03	8.50E-04	3.50E-04	5.60E-04	7.40E-04
KT-A7d	16	7.00E-05	5.40E-04	2.60E-04	1.08E-03	1.33E-03	1.13E-03	4.00E-05	5.00E-05	5.00E-05	1.70E-04	2.50E-04	8.00E-05	1.40E-04	6.80E-04	8.50E-04	9.80E-04	7.80E-04	3.20E-04	5.20E-04	6.80E-04
KT-A7e	20	7.00E-05	5.00E-04	2.40E-04	1.00E-03	1.23E-03	1.05E-03	3.00E-05	4.00E-05	5.00E-05	1.50E-04	2.30E-04	7.00E-05	1.30E-04	6.30E-04	7.80E-04	9.00E-04	7.20E-04	2.90E-04	4.80E-04	6.30E-04
KT-A8	1.5	1.10E-04	6.10E-04	3.30E-04	1.32E-03	1.60E-03	1.43E-03	5.00E-05	7.00E-05	8.00E-05	2.70E-04	3.30E-04	1.30E-04	2.00E-04	8.60E-04	9.50E-04	1.37E-03	8.90E-04	4.50E-04	6.90E-04	8.60E-04
KT-A8a	4	1.40E-04	7.50E-04	4.10E-04	1.63E-03	1.97E-03	1.76E-03	7.00E-05	9.00E-05	1.00E-04	3.30E-04	4.10E-04	1.60E-04	2.50E-04	1.06E-03	1.18E-03	1.69E-03	1.09E-03	5.50E-04	8.60E-04	1.06E-03
KT-A8b	8	1.70E-04	9.20E-04	5.00E-04	2.00E-03	2.42E-03	2.16E-03	8.00E-05	1.10E-04	1.20E-04	4.00E-04	5.00E-04	2.00E-04	3.00E-04	1.30E-03	1.44E-03	2.06E-03	1.34E-03	6.70E-04	1.05E-03	1.30E-03
KT-A8c	12	1.60E-04	9.10E-04	5.00E-04	2.01E-03	2.43E-03	2.17E-03	8.00E-05	1.10E-04	1.20E-04	3.90E-04	5.00E-04	1.90E-04	3.00E-04	1.30E-03	1.44E-03	2.07E-03	1.35E-03	6.60E-04	1.04E-03	1.30E-03
KT-A8d	16	1.20E-04	7.40E-04	4.00E-04	1.68E-03	2.03E-03	1.82E-03	6.00E-05	8.00E-05	9.00E-05	3.00E-04	4.10E-04	1.50E-04	2.40E-04	1.08E-03	1.19E-03	1.72E-03	1.12E-03	5.40E-04	8.60E-04	1.07E-03
KT-A8e	20	8.00E-05	4.90E-04	2.70E-04	1.15E-03	1.39E-03	1.25E-03	4.00E-05	5.00E-05	6.00E-05	1.90E-04	2.70E-04	9.00E-05	1.50E-04	7.30E-04	8.00E-04	1.18E-03	7.60E-04	3.50E-04	5.70E-04	7.20E-04
KT-A8f	30	5.00E-05	2.50E-04	1.40E-04	5.50E-04	6.70E-04	6.00E-04	2.00E-05	3.00E-05	3.00E-05	1.10E-04	1.40E-04	5.00E-05	8.00E-05	3.60E-04	4.00E-04	5.70E-04	3.70E-04	1.90E-04	2.90E-04	3.60E-04
KT-A8g	40	4.00E-05	2.30E-04	1.30E-04	5.20E-04	6.30E-04	5.60E-04	2.00E-05	3.00E-05	3.00E-05	1.00E-04	1.30E-04	5.00E-05	8.00E-05	3.30E-04	3.70E-04	5.30E-04	3.50E-04	1.70E-04	2.70E-04	3.30E-04
KT-A8h	50	3.00E-05	2.10E-04	1.10E-04	4.70E-04	5.70E-04	5.10E-04	2.00E-05	2.00E-05	3.00E-05	8.00E-05	1.10E-04	4.00E-05	7.00E-05	3.00E-04	3.30E-04	4.80E-04	3.10E-04	1.50E-04	2.40E-04	3.00E-04
KT-A8i	60	3.00E-05	1.80E-04	9.00E-05	4.10E-04	4.90E-04	4.40E-04	1.00E-05	2.00E-05	2.00E-05	7.00E-05	1.00E-04	3.00E-05	5.00E-05	2.60E-04	2.90E-04	4.20E-04	2.70E-04	1.30E-04	2.00E-04	2.50E-04
KT-A8j	70	2.00E-05	1.40E-04	8.00E-05	3.40E-04	4.10E-04	3.70E-04	1.00E-05	1.00E-05	2.00E-05	5.00E-05	8.00E-05	3.00E-05	4.00E-05	2.20E-04	2.40E-04	3.50E-04	2.20E-04	1.00E-04	1.70E-04	2.10E-04
KT-A8k	80	2.00E-05	1.10E-04	6.00E-05	2.80E-04	3.40E-04	3.00E-04	1.00E-05	1.00E-05	1.00E-05	4.00E-05	6.00E-05	2.00E-05	3.00E-05	1.70E-04	1.90E-04	2.80E-04	1.80E-04	8.00E-05	1.30E-04	1.70E-04
KT-A8l	90	1.00E-05	9.00E-05	5.00E-05	2.20E-04	2.70E-04	2.40E-04	1.00E-05	1.00E-05	1.00E-05	3.00E-05	5.00E-05	1.00E-05	2.00E-05	1.40E-04	1.50E-04	2.20E-04	1.40E-04	6.00E-05	1.00E-04	1.30E-04
KT-A8m	100	1.00E-05	7.00E-05	4.00E-05	1.70E-04	2.00E-04	1.80E-04	1.00E-05	1.00E-05	1.00E-05	3.00E-05	4.00E-05	1.00E-05	2.00E-05	1.00E-04	1.10E-04	1.70E-04	1.10E-04	5.00E-05	8.00E-05	1.00E-04
KT-A9	1.5	6.30E-04	1.32E-03	8.70E-04	2.86E-03	3.46E-03	3.08E-03	2.20E-04	3.50E-04	4.00E-04	1.36E-03	7.20E-04	6.30E-04	7.40E-04	1.85E-03	2.08E-03	2.91E-03	1.93E-03	1.40E-03	1.68E-03	1.85E-03
KT-A9a	4	5.30E-04	1.34E-03	7.30E-04	3.00E-03	3.65E-03	3.24E-03	1.90E-04	2.90E-04	3.40E-04	1.15E-03	7.20E-04	5.30E-04	6.20E-04	1.92E-03	2.16E-03	3.02E-03	2.02E-03	1.17E-03	1.50E-03	1.89E-03
KT-A9b	8	3.60E-04	1.14E-03	5.90E-04	2.72E-03	3.33E-03	2.96E-03	1.30E-04	2.00E-04	2.30E-04	7.70E-04	6.30E-04	3.60E-04	4.20E-04	1.71E-03	1.90E-03	2.73E-03	1.81E-03	7.90E-04	1.29E-03	1.65E-03
KT-A10	1.5	3.00E-04	2.40E-03	1.19E-03	5.71E-03	6.92E-03	6.65E-03	1.70E-04	2.20E-04	2.60E-04	8.20E-04	1.28E-03	3.70E-04	7.00E-04	3.52E-03	3.65E-03	6.70E-03	3.30E-03	1.49E-03	2.49E-03	3.05E-03
KT-A10a	4	3.00E-04	2.38E-03	1.18E-03	5.49E-03	6.65E-03	6.39E-03	1.70E-04	2.20E-04	2.50E-04	8.10E-04	1.23E-03	3.60E-04	6.90E-04	3.39E-03	3.62E-03	6.44E-03	3.28E-03	1.47E-03	2.39E-03	2.95E-03
KT-A10b	8	2.40E-04	1.97E-03	9.70E-04	4.44E-03	5.38E-03	5.17E-03	1.40E-04	1.80E-04	2.10E-04	6.60E-04	9.90E-04	3.00E-04	5.70E-04	2.74E-03	2.99E-03	5.21E-03	2.71E-03	1.22E-03	1.93E-03	2.44E-03
KT-A10c	12	1.60E-04	1.24E-03	6.10E-04	2.34E-03	2.86E-03	2.43E-03	9.00E-05	1.20E-04	1.30E-04	4.30E-04	5.60E-04	1.90E-04	3.60E-04	1.50E-03	1.88E-03	2.42E-03	1.71E-03	7.70E-04	1.19E-03	1.54E-03
KT-A10d	16	7.00E-05	5.30E-04	2.70E-04	1.71E-03	2.07E-03	1.98E-03	4.00E-05	5.00E-05	6.00E-05	1.90E-04	3.80E-04	1.00E-04	1.60E-04	1.05E-03	9.10E-04	1.98E-03	9.50E-04	3.80E-04	7.50E-04	9.20E-04
KT-A10e	20	5.00E-05	4.30E-04	2.20E-04	1.39E-03	1.69E-03	1.61E-03	3.00E-05	3.00E-05	4.00E-05	1.30E-04	3.10E-04	8.00E-05	1.20E-04	8.60E-04	7.40E-04	1.62E-03	7.80E-04	3.10E-04	6.10E-04	7.50E-04
KT-A10f	30	3.00E-05	2.60E-04	1.40E-04	8.30E-04	1.01E-03	9.60E-04	2.00E-05	2.00E-05	3.00E-05	9.00E-05	1.90E-04	5.00E-05	7.00E-05	5.10E-04	4.70E-04	9.60E-04	4.70E-04	1.90E-04	3.60E-04	4.50E-04
KT-A10g	40	3.00E-05	2.10E-04	1.10E-04	5.90E-04	7.20E-04	6.70E-04	1.00E-05	2.00E-05	2.00E-05	7.00E-05	1.30E-04	4.00E-05	6.00E-05	3.60E-04	3.70E-04	6.70E-04	3.70E-04	1.50E-04	2.70E-04	3.40E-04
KT-A10h	50	2.00E-05	1.70E-04	9.00E-05	4.80E-04	5.80E-04	5.40E-04	1.00E-05	2.00E-05	2.00E-05	6.00E-05	1.10E-04	3.00E-05	5.00E-05	3.00E-04	3.00E-04	5.20E-04	2.90E-04	1.20E-04	2.20E-04	2.70E-04
KT-A10i	60	2.00E-05	1.50E-04	8.00E-05	3.90E-04	4.80E-04	4.40E-04	1.00E-05	1.00E-05	2.00E-05	5.00E-05	9.00E-05	2.00E-05	4.00E-05	2.40E-04	2.50E-04	4.20E-04	2.40E-04	1.00E-04	1.80E-04	2.30E-04
KT-A10j	70	2.00E-05	1.30E-04	7.00E-05	3.20E-04	3.80E-04	3.50E-04	1.00E-05	1.00E-05	1.00E-05	5.00E-05	7.00E-05	2.00E-05	4.00E-05	2.00E-04	2.00E-04	3.30E-04	2.00E-04	8.00E-05	1.40E-04	1.80E-04
KT-A10k	80	2.00E-05	1.20E-04	6.00E-05	2.50E-04	3.00E-04	2.80E-04	1.00E-05	1.00E-05	1.00E-05	4.00E-05	6.00E-05	2.00E-05	3.00E-05	1.60E-04	1.80E-04	2.60E-04	1.60E-04	7.00E-05	1.20E-04	1.50E-04
KT-A10l	90	1.00E-05	1.00E-04	5.00E-05	2.10E-04	2.50E-04	2.30E-04	1.00E-05	1.00E-05	1.00E-05	4.00E-05	5.00E-05	2.00E-05	3.00E-05	1.30E-04	1.50E-04	2.20E-04	1.40E-04	6.00E-05	1.00E-04	1.30E-04

AERMOD Model Results on Hydrocarbons (HC) **Option C, Part 1** **Hourly** = Used in Calculation on Project Contribution

Hourly		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20
		Naphthalene	Phenanthrer	Anthracene	Fluoranthen	Pyrene	Benzo(a)pyr	Benzene	Toluene	Ethylbenzen	Xylenes (Tot	Acenaphthy	Acenaphthe	Fluorene	Chrysene	Benzo(a)ant	Benzo(b)fluo	Benzo(k)fluo	Dibenzo(a,h	Indeno(1,2,3	Benzo(g,h,i)perylene
Maximum Value		**9.40E-04**	**6.61E-03**	**4.13E-03**	**2.51E-02**	**3.04E-02**	**2.89E-02**	**5.00E-04**	**6.00E-04**	**6.90E-04**	**2.08E-03**	**5.64E-03**	**1.45E-03**	**1.89E-03**	**1.55E-02**	**1.37E-02**	**2.88E-02**	**1.42E-02**	**5.69E-03**	**1.11E-02**	**1.37E-02**
ASR_ID	**mAG**																				
KT-A10m	100	1.00E-05	9.00E-05	4.00E-05	1.80E-04	2.20E-04	2.00E-04	1.00E-05	1.00E-05	1.00E-05	3.00E-05	4.00E-05	1.00E-05	3.00E-05	1.10E-04	1.30E-04	1.90E-04	1.20E-04	6.00E-05	9.00E-05	1.10E-04
KT-A10n	110	1.00E-05	7.00E-05	4.00E-05	1.50E-04	1.90E-04	1.70E-04	1.00E-05	1.00E-05	1.00E-05	3.00E-05	4.00E-05	1.00E-05	2.00E-05	1.00E-04	1.10E-04	1.60E-04	1.00E-04	5.00E-05	7.00E-05	9.00E-05
KT-A10o	120	1.00E-05	6.00E-05	3.00E-05	1.30E-04	1.60E-04	1.40E-04	0.00E+00	1.00E-05	1.00E-05	2.00E-05	3.00E-05	1.00E-05	2.00E-05	8.00E-05	9.00E-05	1.40E-04	9.00E-05	4.00E-05	6.00E-05	8.00E-05
KT-A10p	130	1.00E-05	5.00E-05	3.00E-05	1.10E-04	1.40E-04	1.20E-04	0.00E+00	1.00E-05	1.00E-05	2.00E-05	3.00E-05	1.00E-05	2.00E-05	7.00E-05	8.00E-05	1.10E-04	7.00E-05	3.00E-05	5.00E-05	7.00E-05
KT-A10q	140	1.00E-05	5.00E-05	2.00E-05	9.00E-05	1.20E-04	1.00E-04	0.00E+00	0.00E+00	1.00E-05	2.00E-05	2.00E-05	1.00E-05	1.00E-05	6.00E-05	7.00E-05	1.00E-04	6.00E-05	3.00E-05	5.00E-05	6.00E-05
P01	1.5	5.80E-04	6.48E-03	3.00E-03	1.26E-02	1.56E-02	1.31E-02	3.50E-04	4.20E-04	4.80E-04	1.46E-03	2.79E-03	6.40E-04	1.59E-03	7.80E-03	1.02E-02	1.08E-02	9.31E-03	3.52E-03	5.83E-03	7.85E-03
P02	1.5	5.30E-04	5.30E-03	2.46E-03	1.03E-02	1.27E-02	1.07E-02	2.90E-04	3.50E-04	4.10E-04	1.24E-03	2.29E-03	5.40E-04	1.31E-03	6.37E-03	8.32E-03	8.86E-03	7.59E-03	2.90E-03	4.78E-03	6.43E-03
P03	1.5	5.70E-04	4.65E-03	2.15E-03	9.04E-03	1.12E-02	9.38E-03	2.50E-04	3.50E-04	4.00E-04	1.32E-03	2.00E-03	6.10E-04	1.13E-03	5.60E-03	7.33E-03	7.76E-03	6.69E-03	2.52E-03	4.18E-03	5.63E-03
P04	1.5	5.20E-04	4.56E-03	2.11E-03	8.84E-03	1.10E-02	9.18E-03	2.50E-04	3.00E-04	3.40E-04	1.15E-03	1.96E-03	5.30E-04	1.12E-03	5.48E-03	7.17E-03	7.61E-03	6.54E-03	2.48E-03	4.10E-03	5.52E-03
P10	1.5	5.80E-04	3.87E-03	2.54E-03	1.62E-02	1.97E-02	1.89E-02	3.00E-04	3.50E-04	4.10E-04	1.23E-03	3.64E-03	9.20E-04	1.11E-03	1.00E-02	8.44E-03	1.90E-02	8.95E-03	3.55E-03	7.07E-03	8.68E-03
P11	1.5	6.30E-04	5.92E-03	2.86E-03	1.13E-02	1.39E-02	1.17E-02	3.90E-04	4.90E-04	5.70E-04	1.78E-03	2.63E-03	8.00E-04	1.63E-03	7.13E-03	9.11E-03	1.01E-02	8.26E-03	3.52E-03	5.56E-03	7.28E-03
P12	1.5	4.80E-04	5.29E-03	2.51E-03	1.01E-02	1.25E-02	1.05E-02	3.20E-04	4.00E-04	4.60E-04	1.43E-03	2.31E-03	6.30E-04	1.39E-03	6.36E-03	8.20E-03	8.92E-03	7.46E-03	3.03E-03	4.87E-03	6.46E-03
P13	1.5	4.50E-04	3.97E-03	1.99E-03	1.27E-02	1.54E-02	1.48E-02	2.40E-04	3.00E-04	3.50E-04	1.07E-03	2.85E-03	7.20E-04	1.04E-03	7.83E-03	6.61E-03	1.49E-02	7.01E-03	2.78E-03	5.53E-03	6.79E-03
P14	1.5	4.10E-04	3.97E-03	1.91E-03	8.03E-03	9.73E-03	9.35E-03	2.60E-04	3.20E-04	3.70E-04	1.17E-03	1.80E-03	5.20E-04	1.08E-03	4.95E-03	6.12E-03	9.42E-03	5.56E-03	2.34E-03	3.71E-03	4.88E-03
P15	1.5	5.20E-04	4.15E-03	2.03E-03	1.23E-02	1.49E-02	1.43E-02	2.90E-04	3.80E-04	4.40E-04	1.40E-03	2.75E-03	6.90E-04	1.20E-03	7.57E-03	6.53E-03	1.44E-02	6.78E-03	2.69E-03	5.35E-03	6.57E-03
P16	1.5	5.70E-04	5.77E-03	2.67E-03	1.12E-02	1.39E-02	1.16E-02	3.20E-04	4.10E-04	4.80E-04	1.52E-03	2.49E-03	6.80E-04	1.42E-03	6.94E-03	9.08E-03	9.63E-03	8.28E-03	3.14E-03	5.19E-03	6.99E-03

AERMOD Model Results on Hydrocarbons (HC) **Option A, Part 1** **Daily** = Used in Calculation on Project Contribution

Daily		01	02	05	07	08	09	10	14	15
		Naphthalene	Phenanthren	Pyrene	Benzene	Toluene	Ethylbenzen	Xylenes (Tot	Chrysene	Benzo(a)ant
Maximum Value		9.00E-05	6.10E-04	2.91E-03	5.00E-05	5.00E-05	6.00E-05	1.90E-04	1.48E-03	1.25E-03
ASR_ID	mAG									
KT-A1	1.5	9.00E-05	5.80E-04	2.91E-03	5.00E-05	5.00E-05	6.00E-05	1.90E-04	1.48E-03	1.25E-03
KT-A1a	4	9.00E-05	6.10E-04	2.86E-03	5.00E-05	5.00E-05	6.00E-05	1.90E-04	1.46E-03	1.23E-03
KT-A1b	8	5.00E-05	3.60E-04	1.62E-03	3.00E-05	3.00E-05	4.00E-05	1.10E-04	8.30E-04	7.00E-04
KT-A1c	12	3.00E-05	1.80E-04	8.70E-04	1.00E-05	2.00E-05	2.00E-05	6.00E-05	4.50E-04	3.80E-04
KT-A1d	16	2.00E-05	9.00E-05	4.50E-04	1.00E-05	1.00E-05	1.00E-05	3.00E-05	2.30E-04	1.90E-04
KT-A1e	20	1.00E-05	4.00E-05	2.20E-04	0.00E+00	1.00E-05	1.00E-05	2.00E-05	1.10E-04	9.00E-05
KT-A1f	30	0.00E+00	2.00E-05	9.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	5.00E-05	4.00E-05
KT-A1g	40	0.00E+00	1.00E-05	4.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05	2.00E-05
KT-A1h	50	0.00E+00	0.00E+00	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05
KT-A1i	60	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00
KT-A1j	70	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A1k	80	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A1l	90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A1m	100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2	1.5	7.00E-05	4.30E-04	2.14E-03	3.00E-05	4.00E-05	5.00E-05	1.40E-04	1.09E-03	9.20E-04
KT-A2a	4	6.00E-05	3.90E-04	1.93E-03	3.00E-05	4.00E-05	4.00E-05	1.30E-04	9.90E-04	8.30E-04
KT-A2b	8	5.00E-05	3.10E-04	1.54E-03	2.00E-05	3.00E-05	3.00E-05	1.00E-04	7.90E-04	6.60E-04
KT-A2c	12	3.00E-05	1.70E-04	8.50E-04	1.00E-05	2.00E-05	2.00E-05	6.00E-05	4.30E-04	3.70E-04
KT-A2d	16	2.00E-05	1.20E-04	5.80E-04	1.00E-05	1.00E-05	1.00E-05	4.00E-05	3.00E-04	2.50E-04
KT-A2e	20	1.00E-05	8.00E-05	3.80E-04	1.00E-05	1.00E-05	1.00E-05	3.00E-05	1.90E-04	1.60E-04
KT-A2f	30	0.00E+00	2.00E-05	1.10E-04	0.00E+00	0.00E+00	0.00E+00	1.00E-05	6.00E-05	5.00E-05
KT-A2g	40	0.00E+00	1.00E-05	5.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	3.00E-05	2.00E-05
KT-A2h	50	0.00E+00	1.00E-05	3.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05
KT-A2i	60	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05
KT-A2j	70	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2k	80	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2l	90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2m	100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2n	110	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2o	120	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2p	130	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2q	140	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2r	150	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2s	160	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2t	170	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2u	180	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A3	1.5	2.00E-05	1.50E-04	7.40E-04	1.00E-05	1.00E-05	2.00E-05	5.00E-05	3.80E-04	3.20E-04
KT-A3a	4	2.00E-05	1.40E-04	6.60E-04	1.00E-05	1.00E-05	1.00E-05	4.00E-05	3.40E-04	2.80E-04
KT-A3b	8	1.00E-05	9.00E-05	4.20E-04	1.00E-05	1.00E-05	1.00E-05	3.00E-05	2.20E-04	1.80E-04
KT-A3c	12	1.00E-05	6.00E-05	2.80E-04	0.00E+00	1.00E-05	1.00E-05	2.00E-05	1.40E-04	1.20E-04
KT-A3d	16	1.00E-05	4.00E-05	2.20E-04	0.00E+00	0.00E+00	1.00E-05	2.00E-05	1.10E-04	9.00E-05
KT-A3e	20	1.00E-05	4.00E-05	1.70E-04	0.00E+00	0.00E+00	0.00E+00	1.00E-05	9.00E-05	8.00E-05
KT-A3f	30	0.00E+00	2.00E-05	1.00E-04	0.00E+00	0.00E+00	0.00E+00	1.00E-05	5.00E-05	4.00E-05
KT-A3g	40	0.00E+00	1.00E-05	6.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	3.00E-05	3.00E-05
KT-A3h	50	0.00E+00	1.00E-05	3.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05	2.00E-05
KT-A3i	60	0.00E+00	0.00E+00	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05
KT-A3j	70	0.00E+00	0.00E+00	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05
KT-A3k	80	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05
KT-A3l	90	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00
KT-A3m	100	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4	1.5	2.00E-05	4.00E-05	1.60E-04	1.00E-05	1.00E-05	1.00E-05	4.00E-05	8.00E-05	7.00E-05
KT-A4a	4	2.00E-05	4.00E-05	1.50E-04	1.00E-05	1.00E-05	1.00E-05	4.00E-05	8.00E-05	7.00E-05
KT-A4b	8	1.00E-05	3.00E-05	1.40E-04	0.00E+00	1.00E-05	1.00E-05	3.00E-05	7.00E-05	6.00E-05
KT-A4c	12	1.00E-05	3.00E-05	1.30E-04	0.00E+00	1.00E-05	1.00E-05	3.00E-05	7.00E-05	6.00E-05
KT-A4d	16	1.00E-05	2.00E-05	1.20E-04	0.00E+00	1.00E-05	1.00E-05	2.00E-05	6.00E-05	5.00E-05
KT-A4e	20	1.00E-05	2.00E-05	1.00E-04	0.00E+00	0.00E+00	1.00E-05	2.00E-05	5.00E-05	4.00E-05

AERMOD Model Results on Hydrocarbons (HC) **Option A, Part 1** **Daily** = Used in Calculation on Project Contribution

Daily		01	02	05	07	08	09	10	14	15
		Naphthalene	Phenanthren	Pyrene	Benzene	Toluene	Ethylbenzen	Xylenes (Tot	Chrysene	Benzo(a)ant
Maximum Value		9.00E-05	6.10E-04	2.91E-03	5.00E-05	5.00E-05	6.00E-05	1.90E-04	1.48E-03	1.25E-03
ASR_ID	mAG									
KT-A4f	30	0.00E+00	1.00E-05	6.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	3.00E-05	3.00E-05
KT-A4g	40	0.00E+00	1.00E-05	4.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05	2.00E-05
KT-A4h	50	0.00E+00	1.00E-05	3.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05	1.00E-05
KT-A4i	60	0.00E+00	1.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05
KT-A4j	70	0.00E+00	0.00E+00	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05
KT-A4k	80	0.00E+00	0.00E+00	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05
KT-A4l	90	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05
KT-A4m	100	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05
KT-A4n	110	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00
KT-A4o	120	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A5	1.5	4.00E-05	8.00E-05	1.10E-04	1.00E-05	2.00E-05	3.00E-05	9.00E-05	9.00E-05	8.00E-05
KT-A5a	4	4.00E-05	8.00E-05	1.10E-04	1.00E-05	2.00E-05	3.00E-05	9.00E-05	9.00E-05	8.00E-05
KT-A5b	8	2.00E-05	5.00E-05	1.00E-04	1.00E-05	1.00E-05	2.00E-05	5.00E-05	6.00E-05	5.00E-05
KT-A5c	12	1.00E-05	3.00E-05	8.00E-05	1.00E-05	1.00E-05	1.00E-05	3.00E-05	5.00E-05	4.00E-05
KT-A5d	16	1.00E-05	2.00E-05	7.00E-05	0.00E+00	1.00E-05	1.00E-05	2.00E-05	4.00E-05	3.00E-05
KT-A5e	20	1.00E-05	2.00E-05	6.00E-05	0.00E+00	0.00E+00	0.00E+00	2.00E-05	3.00E-05	3.00E-05
KT-A6	1.5	6.00E-05	1.10E-04	1.50E-04	2.00E-05	3.00E-05	4.00E-05	1.30E-04	1.30E-04	1.10E-04
KT-A6a	4	5.00E-05	9.00E-05	1.50E-04	2.00E-05	3.00E-05	3.00E-05	1.10E-04	1.00E-04	9.00E-05
KT-A6b	8	3.00E-05	6.00E-05	1.30E-04	1.00E-05	2.00E-05	2.00E-05	7.00E-05	8.00E-05	7.00E-05
KT-A6c	12	2.00E-05	4.00E-05	1.20E-04	1.00E-05	1.00E-05	1.00E-05	4.00E-05	6.00E-05	5.00E-05
KT-A7	1.5	2.00E-05	4.00E-05	1.10E-04	1.00E-05	1.00E-05	1.00E-05	5.00E-05	6.00E-05	5.00E-05
KT-A7a	4	2.00E-05	3.00E-05	1.10E-04	1.00E-05	1.00E-05	1.00E-05	4.00E-05	5.00E-05	5.00E-05
KT-A7b	8	1.00E-05	2.00E-05	1.00E-04	0.00E+00	1.00E-05	1.00E-05	3.00E-05	5.00E-05	4.00E-05
KT-A7c	12	1.00E-05	2.00E-05	9.00E-05	0.00E+00	1.00E-05	1.00E-05	2.00E-05	5.00E-05	4.00E-05
KT-A7d	16	1.00E-05	2.00E-05	8.00E-05	0.00E+00	0.00E+00	0.00E+00	2.00E-05	4.00E-05	4.00E-05
KT-A7e	20	1.00E-05	2.00E-05	7.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	4.00E-05	3.00E-05
KT-A8	1.5	1.00E-05	3.00E-05	7.00E-05	0.00E+00	1.00E-05	1.00E-05	3.00E-05	4.00E-05	4.00E-05
KT-A8a	4	1.00E-05	3.00E-05	7.00E-05	1.00E-05	1.00E-05	1.00E-05	3.00E-05	5.00E-05	4.00E-05
KT-A8b	8	1.00E-05	3.00E-05	8.00E-05	1.00E-05	1.00E-05	1.00E-05	3.00E-05	5.00E-05	4.00E-05
KT-A8c	12	1.00E-05	3.00E-05	8.00E-05	0.00E+00	1.00E-05	1.00E-05	3.00E-05	5.00E-05	4.00E-05
KT-A8d	16	1.00E-05	3.00E-05	7.00E-05	0.00E+00	1.00E-05	1.00E-05	3.00E-05	4.00E-05	4.00E-05
KT-A8e	20	1.00E-05	3.00E-05	7.00E-05	0.00E+00	1.00E-05	1.00E-05	2.00E-05	4.00E-05	4.00E-05
KT-A8f	30	1.00E-05	2.00E-05	5.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	3.00E-05	3.00E-05
KT-A8g	40	0.00E+00	1.00E-05	4.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05	2.00E-05
KT-A8h	50	0.00E+00	1.00E-05	3.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05	2.00E-05
KT-A8i	60	0.00E+00	1.00E-05	3.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05
KT-A8j	70	0.00E+00	0.00E+00	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05
KT-A8k	80	0.00E+00	0.00E+00	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05
KT-A8l	90	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05
KT-A8m	100	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05
KT-A9	1.5	5.00E-05	8.00E-05	1.60E-04	2.00E-05	2.00E-05	3.00E-05	1.00E-04	1.10E-04	1.00E-04
KT-A9a	4	4.00E-05	8.00E-05	1.50E-04	2.00E-05	2.00E-05	3.00E-05	9.00E-05	1.10E-04	1.00E-04
KT-A9b	8	3.00E-05	6.00E-05	1.20E-04	1.00E-05	2.00E-05	2.00E-05	7.00E-05	9.00E-05	8.00E-05
KT-A10	1.5	3.00E-05	2.10E-04	1.04E-03	2.00E-05	2.00E-05	2.00E-05	6.00E-05	5.30E-04	4.50E-04
KT-A10a	4	3.00E-05	1.80E-04	8.50E-04	1.00E-05	2.00E-05	2.00E-05	5.00E-05	4.30E-04	3.60E-04
KT-A10b	8	2.00E-05	1.10E-04	5.40E-04	1.00E-05	1.00E-05	1.00E-05	4.00E-05	2.70E-04	2.30E-04
KT-A10c	12	1.00E-05	7.00E-05	3.50E-04	1.00E-05	1.00E-05	1.00E-05	2.00E-05	1.80E-04	1.50E-04
KT-A10d	16	1.00E-05	6.00E-05	2.90E-04	0.00E+00	1.00E-05	1.00E-05	2.00E-05	1.50E-04	1.20E-04
KT-A10e	20	1.00E-05	5.00E-05	2.40E-04	0.00E+00	0.00E+00	1.00E-05	2.00E-05	1.20E-04	1.00E-04
KT-A10f	30	0.00E+00	3.00E-05	1.50E-04	0.00E+00	0.00E+00	0.00E+00	1.00E-05	7.00E-05	6.00E-05
KT-A10g	40	0.00E+00	2.00E-05	9.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	5.00E-05	4.00E-05
KT-A10h	50	0.00E+00	1.00E-05	6.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-05	2.00E-05
KT-A10i	60	0.00E+00	1.00E-05	3.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05	2.00E-05
KT-A10j	70	0.00E+00	0.00E+00	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05
KT-A10k	80	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05
KT-A10l	90	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

AERMOD Model Results on Hydrocarbons (HC) **Option A, Part 1** **Daily** = Used in Calculation on Project Contribution

Daily		01	02	05	07	08	09	10	14	15
		Naphthalene	Phenanthren	Pyrene	Benzene	Toluene	Ethylbenzen	Xylenes (Tot	Chrysene	Benzo(a)ant
Maximum Value		9.00E-05	6.10E-04	2.91E-03	5.00E-05	5.00E-05	6.00E-05	1.90E-04	1.48E-03	1.25E-03
ASR_ID	mAG									
KT-A10m	100	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10n	110	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10o	120	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10p	130	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10q	140	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
P01	1.5	2.00E-05	8.00E-05	3.90E-04	1.00E-05	1.00E-05	1.00E-05	5.00E-05	2.00E-04	1.70E-04
P02	1.5	2.00E-05	8.00E-05	3.70E-04	1.00E-05	1.00E-05	1.00E-05	4.00E-05	1.90E-04	1.60E-04
P03	1.5	2.00E-05	1.10E-04	5.00E-04	1.00E-05	1.00E-05	1.00E-05	4.00E-05	2.50E-04	2.10E-04
P04	1.5	2.00E-05	9.00E-05	4.40E-04	1.00E-05	1.00E-05	1.00E-05	4.00E-05	2.20E-04	1.90E-04
P10	1.5	8.00E-05	5.60E-04	2.69E-03	4.00E-05	5.00E-05	6.00E-05	1.70E-04	1.37E-03	1.16E-03
P11	1.5	3.00E-05	1.90E-04	9.30E-04	1.00E-05	2.00E-05	2.00E-05	6.00E-05	4.70E-04	4.00E-04
P12	1.5	5.00E-05	3.40E-04	1.60E-03	2.00E-05	3.00E-05	3.00E-05	1.00E-04	8.20E-04	6.90E-04
P13	1.5	7.00E-05	5.10E-04	2.43E-03	4.00E-05	4.00E-05	5.00E-05	1.50E-04	1.24E-03	1.04E-03
P14	1.5	6.00E-05	3.70E-04	1.85E-03	3.00E-05	3.00E-05	4.00E-05	1.20E-04	9.40E-04	7.90E-04
P15	1.5	5.00E-05	3.60E-04	1.77E-03	3.00E-05	3.00E-05	4.00E-05	1.10E-04	9.00E-04	7.60E-04
P16	1.5	3.00E-05	2.30E-04	1.16E-03	2.00E-05	2.00E-05	2.00E-05	7.00E-05	5.90E-04	5.00E-04

AERMOD Model Results on Hydrocarbons (HC) **Option A, Part 2** **Daily** = Used in Calculation on Project Contribution

Daily		01	02	05	07	08	09	10	14	15
		Naphthalene	Phenanthren	Pyrene	Benzene	Toluene	Ethylbenzen	Xylenes (Tot	Chrysene	Benzo(a)ant
Maximum Value		1.10E-04	1.67E-03	4.04E-03	9.00E-05	1.00E-04	1.20E-04	3.60E-04	2.01E-03	2.63E-03
ASR_ID	mAG									
KT-A1	1.5	1.00E-05	1.50E-04	3.70E-04	1.00E-05	1.00E-05	1.00E-05	3.00E-05	1.80E-04	2.40E-04
KT-A1a	4	1.00E-05	1.40E-04	3.50E-04	1.00E-05	1.00E-05	1.00E-05	3.00E-05	1.70E-04	2.30E-04
KT-A1b	8	1.00E-05	1.30E-04	3.20E-04	1.00E-05	1.00E-05	1.00E-05	3.00E-05	1.60E-04	2.10E-04
KT-A1c	12	1.00E-05	1.20E-04	2.80E-04	1.00E-05	1.00E-05	1.00E-05	3.00E-05	1.40E-04	1.90E-04
KT-A1d	16	1.00E-05	1.00E-04	2.50E-04	1.00E-05	1.00E-05	1.00E-05	2.00E-05	1.20E-04	1.60E-04
KT-A1e	20	1.00E-05	9.00E-05	2.20E-04	0.00E+00	1.00E-05	1.00E-05	2.00E-05	1.10E-04	1.40E-04
KT-A1f	30	0.00E+00	6.00E-05	1.50E-04	0.00E+00	0.00E+00	0.00E+00	1.00E-05	8.00E-05	1.00E-04
KT-A1g	40	0.00E+00	4.00E-05	1.10E-04	0.00E+00	0.00E+00	0.00E+00	1.00E-05	5.00E-05	7.00E-05
KT-A1h	50	0.00E+00	3.00E-05	7.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	4.00E-05	5.00E-05
KT-A1i	60	0.00E+00	2.00E-05	5.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05	3.00E-05
KT-A1j	70	0.00E+00	1.00E-05	3.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05	2.00E-05
KT-A1k	80	0.00E+00	1.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05
KT-A1l	90	0.00E+00	1.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05
KT-A1m	100	0.00E+00	1.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05
KT-A2	1.5	1.00E-05	1.30E-04	3.00E-04	1.00E-05	1.00E-05	1.00E-05	3.00E-05	1.50E-04	2.00E-04
KT-A2a	4	1.00E-05	1.30E-04	3.10E-04	1.00E-05	1.00E-05	1.00E-05	3.00E-05	1.60E-04	2.00E-04
KT-A2b	8	1.00E-05	1.20E-04	3.00E-04	1.00E-05	1.00E-05	1.00E-05	3.00E-05	1.50E-04	1.90E-04
KT-A2c	12	1.00E-05	1.00E-04	2.40E-04	1.00E-05	1.00E-05	1.00E-05	2.00E-05	1.20E-04	1.60E-04
KT-A2d	16	0.00E+00	7.00E-05	1.70E-04	0.00E+00	0.00E+00	1.00E-05	2.00E-05	9.00E-05	1.10E-04
KT-A2e	20	0.00E+00	6.00E-05	1.50E-04	0.00E+00	0.00E+00	0.00E+00	1.00E-05	7.00E-05	1.00E-04
KT-A2f	30	0.00E+00	5.00E-05	1.10E-04	0.00E+00	0.00E+00	0.00E+00	1.00E-05	5.00E-05	7.00E-05
KT-A2g	40	0.00E+00	4.00E-05	9.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	4.00E-05	6.00E-05
KT-A2h	50	0.00E+00	3.00E-05	7.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	3.00E-05	5.00E-05
KT-A2i	60	0.00E+00	2.00E-05	5.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-05	4.00E-05
KT-A2j	70	0.00E+00	2.00E-05	4.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05	3.00E-05
KT-A2k	80	0.00E+00	1.00E-05	3.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05	2.00E-05
KT-A2l	90	0.00E+00	1.00E-05	3.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05
KT-A2m	100	0.00E+00	1.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05
KT-A2n	110	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05
KT-A2o	120	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05
KT-A2p	130	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05
KT-A2q	140	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05
KT-A2r	150	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2s	160	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2t	170	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2u	180	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A3	1.5	2.00E-05	3.40E-04	8.20E-04	2.00E-05	2.00E-05	2.00E-05	7.00E-05	4.10E-04	5.30E-04
KT-A3a	4	2.00E-05	3.10E-04	7.40E-04	2.00E-05	2.00E-05	2.00E-05	7.00E-05	3.70E-04	4.80E-04
KT-A3b	8	2.00E-05	2.50E-04	6.00E-04	1.00E-05	2.00E-05	2.00E-05	5.00E-05	3.00E-04	3.90E-04
KT-A3c	12	1.00E-05	2.00E-04	4.80E-04	1.00E-05	1.00E-05	1.00E-05	4.00E-05	2.40E-04	3.10E-04
KT-A3d	16	1.00E-05	1.60E-04	3.80E-04	1.00E-05	1.00E-05	1.00E-05	3.00E-05	1.90E-04	2.50E-04
KT-A3e	20	1.00E-05	1.20E-04	3.00E-04	1.00E-05	1.00E-05	1.00E-05	3.00E-05	1.50E-04	1.90E-04
KT-A3f	30	0.00E+00	7.00E-05	1.60E-04	0.00E+00	0.00E+00	0.00E+00	1.00E-05	8.00E-05	1.10E-04
KT-A3g	40	0.00E+00	4.00E-05	9.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	4.00E-05	6.00E-05
KT-A3h	50	0.00E+00	2.00E-05	6.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	3.00E-05	4.00E-05
KT-A3i	60	0.00E+00	2.00E-05	4.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05	3.00E-05
KT-A3j	70	0.00E+00	2.00E-05	4.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05	2.00E-05
KT-A3k	80	0.00E+00	1.00E-05	3.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05
KT-A3l	90	0.00E+00	1.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05
KT-A3m	100	0.00E+00	1.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05
KT-A4	1.5	3.00E-05	5.30E-04	1.27E-03	3.00E-05	3.00E-05	4.00E-05	1.10E-04	6.30E-04	8.30E-04
KT-A4a	4	3.00E-05	4.70E-04	1.09E-03	2.00E-05	3.00E-05	3.00E-05	1.00E-04	5.40E-04	7.10E-04
KT-A4b	8	2.00E-05	2.90E-04	6.70E-04	1.00E-05	2.00E-05	2.00E-05	6.00E-05	3.30E-04	4.40E-04
KT-A4c	12	1.00E-05	1.70E-04	4.10E-04	1.00E-05	1.00E-05	1.00E-05	4.00E-05	2.10E-04	2.70E-04
KT-A4d	16	1.00E-05	1.10E-04	2.70E-04	1.00E-05	1.00E-05	1.00E-05	2.00E-05	1.40E-04	1.80E-04
KT-A4e	20	0.00E+00	7.00E-05	1.80E-04	0.00E+00	0.00E+00	1.00E-05	2.00E-05	9.00E-05	1.20E-04

AERMOD Model Results on Hydrocarbons (HC) **Option A, Part 2** **Daily** = Used in Calculation on Project Contribution

Daily		01	02	05	07	08	09	10	14	15
		Naphthalene	Phenanthren	Pyrene	Benzene	Toluene	Ethylbenzen	Xylenes (Tot	Chrysene	Benzo(a)ant
Maximum Value		1.10E-04	1.67E-03	4.04E-03	9.00E-05	1.00E-04	1.20E-04	3.60E-04	2.01E-03	2.63E-03
ASR_ID	mAG									
KT-A4f	30	0.00E+00	2.00E-05	6.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	3.00E-05	4.00E-05
KT-A4g	40	0.00E+00	1.00E-05	3.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05
KT-A4h	50	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05
KT-A4i	60	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4j	70	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4k	80	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4l	90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4m	100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4n	110	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4o	120	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A5	1.5	1.00E-05	1.40E-04	3.10E-04	1.00E-05	1.00E-05	1.00E-05	3.00E-05	1.50E-04	2.00E-04
KT-A5a	4	1.00E-05	1.40E-04	3.30E-04	1.00E-05	1.00E-05	1.00E-05	3.00E-05	1.60E-04	2.10E-04
KT-A5b	8	1.00E-05	1.50E-04	3.30E-04	1.00E-05	1.00E-05	1.00E-05	3.00E-05	1.70E-04	2.20E-04
KT-A5c	12	1.00E-05	1.40E-04	3.20E-04	1.00E-05	1.00E-05	1.00E-05	3.00E-05	1.60E-04	2.10E-04
KT-A5d	16	1.00E-05	1.20E-04	2.90E-04	1.00E-05	1.00E-05	1.00E-05	3.00E-05	1.40E-04	1.90E-04
KT-A5e	20	1.00E-05	1.10E-04	2.50E-04	1.00E-05	1.00E-05	1.00E-05	2.00E-05	1.20E-04	1.60E-04
KT-A6	1.5	4.00E-05	6.70E-04	1.53E-03	3.00E-05	4.00E-05	5.00E-05	1.40E-04	7.60E-04	1.00E-03
KT-A6a	4	4.00E-05	6.60E-04	1.51E-03	3.00E-05	4.00E-05	5.00E-05	1.40E-04	7.50E-04	9.80E-04
KT-A6b	8	3.00E-05	5.40E-04	1.24E-03	3.00E-05	3.00E-05	4.00E-05	1.10E-04	6.20E-04	8.10E-04
KT-A6c	12	2.00E-05	3.80E-04	8.90E-04	2.00E-05	2.00E-05	3.00E-05	8.00E-05	4.40E-04	5.80E-04
KT-A7	1.5	2.00E-05	3.60E-04	8.50E-04	2.00E-05	2.00E-05	3.00E-05	8.00E-05	4.20E-04	5.60E-04
KT-A7a	4	2.00E-05	3.80E-04	8.80E-04	2.00E-05	2.00E-05	3.00E-05	8.00E-05	4.40E-04	5.70E-04
KT-A7b	8	2.00E-05	2.50E-04	5.90E-04	1.00E-05	2.00E-05	2.00E-05	5.00E-05	2.90E-04	3.80E-04
KT-A7c	12	1.00E-05	1.30E-04	3.00E-04	1.00E-05	1.00E-05	1.00E-05	3.00E-05	1.50E-04	2.00E-04
KT-A7d	16	1.00E-05	8.00E-05	2.00E-04	0.00E+00	1.00E-05	1.00E-05	2.00E-05	1.00E-04	1.30E-04
KT-A7e	20	0.00E+00	5.00E-05	1.30E-04	0.00E+00	0.00E+00	0.00E+00	1.00E-05	6.00E-05	8.00E-05
KT-A8	1.5	0.00E+00	5.00E-05	1.20E-04	0.00E+00	0.00E+00	0.00E+00	1.00E-05	6.00E-05	8.00E-05
KT-A8a	4	0.00E+00	6.00E-05	1.30E-04	0.00E+00	0.00E+00	0.00E+00	1.00E-05	6.00E-05	8.00E-05
KT-A8b	8	0.00E+00	6.00E-05	1.40E-04	0.00E+00	0.00E+00	0.00E+00	1.00E-05	7.00E-05	9.00E-05
KT-A8c	12	0.00E+00	6.00E-05	1.40E-04	0.00E+00	0.00E+00	0.00E+00	1.00E-05	7.00E-05	9.00E-05
KT-A8d	16	0.00E+00	6.00E-05	1.30E-04	0.00E+00	0.00E+00	0.00E+00	1.00E-05	7.00E-05	9.00E-05
KT-A8e	20	0.00E+00	5.00E-05	1.20E-04	0.00E+00	0.00E+00	0.00E+00	1.00E-05	6.00E-05	8.00E-05
KT-A8f	30	0.00E+00	4.00E-05	1.00E-04	0.00E+00	0.00E+00	0.00E+00	1.00E-05	5.00E-05	6.00E-05
KT-A8g	40	0.00E+00	3.00E-05	7.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	4.00E-05	5.00E-05
KT-A8h	50	0.00E+00	2.00E-05	6.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	3.00E-05	4.00E-05
KT-A8i	60	0.00E+00	2.00E-05	4.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05	3.00E-05
KT-A8j	70	0.00E+00	1.00E-05	3.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05	2.00E-05
KT-A8k	80	0.00E+00	1.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05
KT-A8l	90	0.00E+00	1.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05
KT-A8m	100	0.00E+00	1.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05
KT-A9	1.5	1.00E-05	2.50E-04	5.60E-04	1.00E-05	1.00E-05	2.00E-05	5.00E-05	2.80E-04	3.70E-04
KT-A9a	4	2.00E-05	2.60E-04	6.00E-04	1.00E-05	2.00E-05	2.00E-05	5.00E-05	3.00E-04	3.90E-04
KT-A9b	8	2.00E-05	2.60E-04	5.90E-04	1.00E-05	2.00E-05	2.00E-05	5.00E-05	2.90E-04	3.90E-04
KT-A10	1.5	1.00E-05	1.50E-04	3.70E-04	1.00E-05	1.00E-05	1.00E-05	3.00E-05	1.90E-04	2.40E-04
KT-A10a	4	1.00E-05	1.40E-04	3.50E-04	1.00E-05	1.00E-05	1.00E-05	3.00E-05	1.70E-04	2.30E-04
KT-A10b	8	1.00E-05	1.30E-04	3.10E-04	1.00E-05	1.00E-05	1.00E-05	3.00E-05	1.60E-04	2.00E-04
KT-A10c	12	1.00E-05	1.10E-04	2.70E-04	1.00E-05	1.00E-05	1.00E-05	2.00E-05	1.40E-04	1.80E-04
KT-A10d	16	1.00E-05	1.00E-04	2.40E-04	1.00E-05	1.00E-05	1.00E-05	2.00E-05	1.20E-04	1.60E-04
KT-A10e	20	1.00E-05	8.00E-05	2.00E-04	0.00E+00	1.00E-05	1.00E-05	2.00E-05	1.00E-04	1.30E-04
KT-A10f	30	0.00E+00	6.00E-05	1.40E-04	0.00E+00	0.00E+00	0.00E+00	1.00E-05	7.00E-05	9.00E-05
KT-A10g	40	0.00E+00	4.00E-05	9.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	5.00E-05	6.00E-05
KT-A10h	50	0.00E+00	2.00E-05	6.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	3.00E-05	4.00E-05
KT-A10i	60	0.00E+00	2.00E-05	5.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05	3.00E-05
KT-A10j	70	0.00E+00	1.00E-05	4.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05	2.00E-05
KT-A10k	80	0.00E+00	1.00E-05	3.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05
KT-A10l	90	0.00E+00	1.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05

AERMOD Model Results on Hydrocarbons (HC) **Option A, Part 2** **Daily** = Used in Calculation on Project Contribution

Daily		01	02	05	07	08	09	10	14	15
		Naphthalene	Phenanthren	Pyrene	Benzene	Toluene	Ethylbenzen	Xylenes (Tot	Chrysene	Benzo(a)ant
Maximum Value		1.10E-04	1.67E-03	4.04E-03	9.00E-05	1.00E-04	1.20E-04	3.60E-04	2.01E-03	2.63E-03
ASR_ID	mAG									
KT-A10m	100	0.00E+00	1.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05
KT-A10n	110	0.00E+00	1.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05
KT-A10o	120	0.00E+00	1.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05
KT-A10p	130	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05
KT-A10q	140	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05
P01	1.5	9.00E-05	1.46E-03	3.53E-03	8.00E-05	9.00E-05	1.10E-04	3.20E-04	1.75E-03	2.30E-03
P02	1.5	1.10E-04	1.67E-03	4.04E-03	9.00E-05	1.00E-04	1.20E-04	3.60E-04	2.01E-03	2.63E-03
P03	1.5	8.00E-05	1.29E-03	3.13E-03	7.00E-05	8.00E-05	9.00E-05	2.80E-04	1.56E-03	2.04E-03
P04	1.5	9.00E-05	1.45E-03	3.50E-03	8.00E-05	9.00E-05	1.00E-04	3.10E-04	1.74E-03	2.28E-03
P10	1.5	2.00E-05	2.50E-04	6.10E-04	1.00E-05	2.00E-05	2.00E-05	5.00E-05	3.00E-04	4.00E-04
P11	1.5	4.00E-05	6.70E-04	1.63E-03	4.00E-05	4.00E-05	5.00E-05	1.50E-04	8.10E-04	1.06E-03
P12	1.5	3.00E-05	4.30E-04	1.05E-03	2.00E-05	3.00E-05	3.00E-05	9.00E-05	5.20E-04	6.80E-04
P13	1.5	2.00E-05	3.50E-04	8.60E-04	2.00E-05	2.00E-05	3.00E-05	8.00E-05	4.30E-04	5.60E-04
P14	1.5	2.00E-05	3.20E-04	7.80E-04	2.00E-05	2.00E-05	2.00E-05	7.00E-05	3.90E-04	5.10E-04
P15	1.5	3.00E-05	4.80E-04	1.15E-03	3.00E-05	3.00E-05	3.00E-05	1.00E-04	5.70E-04	7.50E-04
P16	1.5	5.00E-05	7.30E-04	1.76E-03	4.00E-05	5.00E-05	5.00E-05	1.60E-04	8.70E-04	1.15E-03

perylene

AERMOD Model Results on Hydrocarbons (HC) **Option A, Part 3** **Daily** = Used in Calculation on Project Contribution

Daily		01	02		05		07	08	09	10		14	15		
		Naphthalene	Phenanthren		Pyrene		Benzene	Toluene	Ethylbenzen	Xylenes (Tot		Chrysene	Benzo(a)ant		perylene
Maximum Value		1.50E-04	2.90E-04		3.80E-04		5.00E-05	8.00E-05	1.00E-04	3.20E-04		3.10E-04	2.80E-04		
ASR_ID	mAG														
KT-A1	1.5	1.00E-05	1.00E-05		1.00E-05		0.00E+00	0.00E+00	0.00E+00	1.00E-05		1.00E-05	1.00E-05		
KT-A1a	4	1.00E-05	1.00E-05		1.00E-05		0.00E+00	0.00E+00	0.00E+00	1.00E-05		1.00E-05	1.00E-05		
KT-A1b	8	0.00E+00	1.00E-05		1.00E-05		0.00E+00	0.00E+00	0.00E+00	1.00E-05		1.00E-05	1.00E-05		
KT-A1c	12	0.00E+00	1.00E-05		1.00E-05		0.00E+00	0.00E+00	0.00E+00	1.00E-05		1.00E-05	1.00E-05		
KT-A1d	16	0.00E+00	1.00E-05		1.00E-05		0.00E+00	0.00E+00	0.00E+00	1.00E-05		1.00E-05	1.00E-05		
KT-A1e	20	0.00E+00	1.00E-05		1.00E-05		0.00E+00	0.00E+00	0.00E+00	1.00E-05		1.00E-05	1.00E-05		
KT-A1f	30	0.00E+00	1.00E-05		1.00E-05		0.00E+00	0.00E+00	0.00E+00	1.00E-05		1.00E-05	1.00E-05		
KT-A1g	40	0.00E+00	0.00E+00		1.00E-05		0.00E+00	0.00E+00	0.00E+00	1.00E-05		1.00E-05	1.00E-05		
KT-A1h	50	0.00E+00	0.00E+00		1.00E-05		0.00E+00	0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00		
KT-A1i	60	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00		
KT-A1j	70	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00		
KT-A1k	80	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00		
KT-A1l	90	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00		
KT-A1m	100	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00		
KT-A2	1.5	1.00E-05	1.00E-05		2.00E-05		0.00E+00	0.00E+00	0.00E+00	1.00E-05		1.00E-05	1.00E-05		
KT-A2a	4	1.00E-05	1.00E-05		2.00E-05		0.00E+00	0.00E+00	0.00E+00	1.00E-05		1.00E-05	1.00E-05		
KT-A2b	8	1.00E-05	1.00E-05		2.00E-05		0.00E+00	0.00E+00	0.00E+00	1.00E-05		1.00E-05	1.00E-05		
KT-A2c	12	1.00E-05	1.00E-05		2.00E-05		0.00E+00	0.00E+00	0.00E+00	1.00E-05		1.00E-05	1.00E-05		
KT-A2d	16	0.00E+00	1.00E-05		1.00E-05		0.00E+00	0.00E+00	0.00E+00	1.00E-05		1.00E-05	1.00E-05		
KT-A2e	20	0.00E+00	1.00E-05		1.00E-05		0.00E+00	0.00E+00	0.00E+00	1.00E-05		1.00E-05	1.00E-05		
KT-A2f	30	0.00E+00	1.00E-05		1.00E-05		0.00E+00	0.00E+00	0.00E+00	1.00E-05		1.00E-05	1.00E-05		
KT-A2g	40	0.00E+00	0.00E+00		1.00E-05		0.00E+00	0.00E+00	0.00E+00	1.00E-05		1.00E-05	1.00E-05		
KT-A2h	50	0.00E+00	0.00E+00		1.00E-05		0.00E+00	0.00E+00	0.00E+00	1.00E-05		1.00E-05	0.00E+00		
KT-A2i	60	0.00E+00	0.00E+00		1.00E-05		0.00E+00	0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00		
KT-A2j	70	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00		
KT-A2k	80	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00		
KT-A2l	90	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00		
KT-A2m	100	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00		
KT-A2n	110	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00		
KT-A2o	120	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00		
KT-A2p	130	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00		
KT-A2q	140	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00		
KT-A2r	150	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00		
KT-A2s	160	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00		
KT-A2t	170	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00		
KT-A2u	180	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00		
KT-A3	1.5	1.00E-05	2.00E-05		2.00E-05		0.00E+00	1.00E-05	1.00E-05	2.00E-05		2.00E-05	2.00E-05		
KT-A3a	4	1.00E-05	2.00E-05		2.00E-05		0.00E+00	0.00E+00	1.00E-05	2.00E-05		2.00E-05	2.00E-05		
KT-A3b	8	1.00E-05	1.00E-05		2.00E-05		0.00E+00	0.00E+00	1.00E-05	2.00E-05		2.00E-05	2.00E-05		
KT-A3c	12	1.00E-05	1.00E-05		2.00E-05		0.00E+00	0.00E+00	0.00E+00	2.00E-05		2.00E-05	1.00E-05		
KT-A3d	16	1.00E-05	1.00E-05		2.00E-05		0.00E+00	0.00E+00	0.00E+00	1.00E-05		1.00E-05	1.00E-05		
KT-A3e	20	1.00E-05	1.00E-05		2.00E-05		0.00E+00	0.00E+00	0.00E+00	1.00E-05		1.00E-05	1.00E-05		
KT-A3f	30	0.00E+00	1.00E-05		1.00E-05		0.00E+00	0.00E+00	0.00E+00	1.00E-05		1.00E-05	1.00E-05		
KT-A3g	40	0.00E+00	1.00E-05		1.00E-05		0.00E+00	0.00E+00	0.00E+00	1.00E-05		1.00E-05	1.00E-05		
KT-A3h	50	0.00E+00	0.00E+00		1.00E-05		0.00E+00	0.00E+00	0.00E+00	1.00E-05		1.00E-05	1.00E-05		
KT-A3i	60	0.00E+00	0.00E+00		1.00E-05		0.00E+00	0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00		
KT-A3j	70	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00		
KT-A3k	80	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00		
KT-A3l	90	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00		
KT-A3m	100	0.00E+00	0.00E+00		0.00E+00		0.00E+00	0.00E+00	0.00E+00	0.00E+00		0.00E+00	0.00E+00		
KT-A4	1.5	3.00E-05	6.00E-05		8.00E-05		1.00E-05	2.00E-05	2.00E-05	6.00E-05		6.00E-05	6.00E-05		
KT-A4a	4	3.00E-05	5.00E-05		7.00E-05		1.00E-05	1.00E-05	2.00E-05	6.00E-05		5.00E-05	5.00E-05		
KT-A4b	8	2.00E-05	4.00E-05		5.00E-05		1.00E-05	1.00E-05	1.00E-05	4.00E-05		4.00E-05	4.00E-05		
KT-A4c	12	2.00E-05	3.00E-05		4.00E-05		1.00E-05	1.00E-05	1.00E-05	3.00E-05		3.00E-05	3.00E-05		
KT-A4d	16	1.00E-05	2.00E-05		3.00E-05		0.00E+00	1.00E-05	1.00E-05	3.00E-05		3.00E-05	2.00E-05		
KT-A4e	20	1.00E-05	2.00E-05		2.00E-05		0.00E+00	1.00E-05	1.00E-05	2.00E-05		2.00E-05	2.00E-05		

AERMOD Model Results on Hydrocarbons (HC) **Option A, Part 3** **Daily** = Used in Calculation on Project Contribution

Daily		01	02	05	07	08	09	10	14	15
		Naphthalene	Phenanthren	Pyrene	Benzene	Toluene	Ethylbenzen	Xylenes (Tot	Chrysene	Benzo(a)ant
Maximum Value		1.50E-04	2.90E-04	3.80E-04	5.00E-05	8.00E-05	1.00E-04	3.20E-04	3.10E-04	2.80E-04
ASR_ID	mAG									
KT-A4f	30	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05
KT-A4g	40	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05
KT-A4h	50	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4i	60	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4j	70	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4k	80	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4l	90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4m	100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4n	110	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4o	120	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A5	1.5	9.00E-05	1.60E-04	2.20E-04	3.00E-05	5.00E-05	6.00E-05	1.90E-04	1.80E-04	1.60E-04
KT-A5a	4	1.00E-04	1.90E-04	2.50E-04	3.00E-05	5.00E-05	6.00E-05	2.10E-04	2.10E-04	1.90E-04
KT-A5b	8	5.00E-05	1.00E-04	1.30E-04	2.00E-05	3.00E-05	3.00E-05	1.10E-04	1.10E-04	1.00E-04
KT-A5c	12	3.00E-05	5.00E-05	6.00E-05	1.00E-05	1.00E-05	2.00E-05	5.00E-05	5.00E-05	5.00E-05
KT-A5d	16	2.00E-05	3.00E-05	4.00E-05	1.00E-05	1.00E-05	1.00E-05	4.00E-05	3.00E-05	3.00E-05
KT-A5e	20	1.00E-05	2.00E-05	3.00E-05	0.00E+00	1.00E-05	1.00E-05	2.00E-05	2.00E-05	2.00E-05
KT-A6	1.5	1.10E-04	2.30E-04	2.90E-04	4.00E-05	6.00E-05	7.00E-05	2.40E-04	2.40E-04	2.10E-04
KT-A6a	4	9.00E-05	1.90E-04	2.30E-04	3.00E-05	5.00E-05	6.00E-05	2.00E-04	1.90E-04	1.70E-04
KT-A6b	8	5.00E-05	1.10E-04	1.30E-04	2.00E-05	3.00E-05	3.00E-05	1.10E-04	1.10E-04	9.00E-05
KT-A6c	12	3.00E-05	6.00E-05	8.00E-05	1.00E-05	2.00E-05	2.00E-05	6.00E-05	6.00E-05	6.00E-05
KT-A7	1.5	3.00E-05	5.00E-05	7.00E-05	1.00E-05	1.00E-05	2.00E-05	6.00E-05	6.00E-05	5.00E-05
KT-A7a	4	2.00E-05	5.00E-05	6.00E-05	1.00E-05	1.00E-05	2.00E-05	5.00E-05	5.00E-05	4.00E-05
KT-A7b	8	2.00E-05	4.00E-05	4.00E-05	1.00E-05	1.00E-05	1.00E-05	4.00E-05	4.00E-05	3.00E-05
KT-A7c	12	1.00E-05	3.00E-05	3.00E-05	0.00E+00	1.00E-05	1.00E-05	3.00E-05	3.00E-05	2.00E-05
KT-A7d	16	1.00E-05	2.00E-05	3.00E-05	0.00E+00	1.00E-05	1.00E-05	2.00E-05	2.00E-05	2.00E-05
KT-A7e	20	1.00E-05	2.00E-05	2.00E-05	0.00E+00	0.00E+00	1.00E-05	2.00E-05	2.00E-05	2.00E-05
KT-A8	1.5	1.00E-05	3.00E-05	3.00E-05	0.00E+00	1.00E-05	1.00E-05	3.00E-05	3.00E-05	2.00E-05
KT-A8a	4	2.00E-05	3.00E-05	4.00E-05	1.00E-05	1.00E-05	1.00E-05	3.00E-05	3.00E-05	3.00E-05
KT-A8b	8	2.00E-05	3.00E-05	4.00E-05	1.00E-05	1.00E-05	1.00E-05	3.00E-05	3.00E-05	3.00E-05
KT-A8c	12	2.00E-05	3.00E-05	4.00E-05	1.00E-05	1.00E-05	1.00E-05	3.00E-05	3.00E-05	3.00E-05
KT-A8d	16	1.00E-05	3.00E-05	4.00E-05	0.00E+00	1.00E-05	1.00E-05	3.00E-05	3.00E-05	3.00E-05
KT-A8e	20	1.00E-05	2.00E-05	3.00E-05	0.00E+00	1.00E-05	1.00E-05	3.00E-05	2.00E-05	2.00E-05
KT-A8f	30	1.00E-05	1.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	2.00E-05	1.00E-05	1.00E-05
KT-A8g	40	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05
KT-A8h	50	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00
KT-A8i	60	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A8j	70	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A8k	80	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A8l	90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A8m	100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A9	1.5	1.10E-04	1.90E-04	2.80E-04	4.00E-05	6.00E-05	7.00E-05	2.30E-04	2.30E-04	2.00E-04
KT-A9a	4	1.50E-04	2.90E-04	3.80E-04	5.00E-05	8.00E-05	1.00E-04	3.20E-04	3.10E-04	2.80E-04
KT-A9b	8	6.00E-05	1.00E-04	1.50E-04	2.00E-05	3.00E-05	4.00E-05	1.30E-04	1.20E-04	1.10E-04
KT-A10	1.5	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05
KT-A10a	4	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05
KT-A10b	8	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05
KT-A10c	12	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05
KT-A10d	16	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05
KT-A10e	20	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05
KT-A10f	30	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05
KT-A10g	40	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05
KT-A10h	50	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10i	60	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10j	70	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10k	80	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10l	90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

AERMOD Model Results on Hydrocarbons (HC) **Option A, Part 3** **Daily** = Used in Calculation on Project Contribution

Daily		01	02	05	07	08	09	10	14	15
		Naphthalene	Phenanthren	Pyrene	Benzene	Toluene	Ethylbenzen	Xylenes (Tot	Chrysene	Benzo(a)ant
Maximum Value		1.50E-04	2.90E-04	3.80E-04	5.00E-05	8.00E-05	1.00E-04	3.20E-04	3.10E-04	2.80E-04
ASR_ID	mAG									
KT-A10m	100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10n	110	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10o	120	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10p	130	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10q	140	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
P01	1.5	2.00E-05	4.00E-05	5.00E-05	1.00E-05	1.00E-05	1.00E-05	4.00E-05	4.00E-05	4.00E-05
P02	1.5	2.00E-05	4.00E-05	5.00E-05	1.00E-05	1.00E-05	1.00E-05	5.00E-05	4.00E-05	4.00E-05
P03	1.5	2.00E-05	3.00E-05	4.00E-05	1.00E-05	1.00E-05	1.00E-05	4.00E-05	4.00E-05	3.00E-05
P04	1.5	2.00E-05	3.00E-05	5.00E-05	1.00E-05	1.00E-05	1.00E-05	4.00E-05	4.00E-05	3.00E-05
P10	1.5	1.00E-05	1.00E-05	2.00E-05	0.00E+00	0.00E+00	1.00E-05	2.00E-05	2.00E-05	2.00E-05
P11	1.5	1.00E-05	2.00E-05	4.00E-05	0.00E+00	1.00E-05	1.00E-05	3.00E-05	3.00E-05	3.00E-05
P12	1.5	1.00E-05	2.00E-05	3.00E-05	0.00E+00	1.00E-05	1.00E-05	3.00E-05	3.00E-05	2.00E-05
P13	1.5	1.00E-05	2.00E-05	3.00E-05	0.00E+00	1.00E-05	1.00E-05	2.00E-05	2.00E-05	2.00E-05
P14	1.5	1.00E-05	1.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	2.00E-05	2.00E-05	1.00E-05
P15	1.5	1.00E-05	2.00E-05	2.00E-05	0.00E+00	1.00E-05	1.00E-05	2.00E-05	2.00E-05	2.00E-05
P16	1.5	1.00E-05	2.00E-05	3.00E-05	0.00E+00	1.00E-05	1.00E-05	2.00E-05	2.00E-05	2.00E-05

AERMOD Model Results on Hydrocarbons (HC) **Option B, Part 1** **Daily** = Used in Calculation on Project Contribution

Daily		01	02	05	07	08	09	10	14	15
		Naphthalene	Phenanthren	Pyrene	Benzene	Toluene	Ethylbenzen	Xylenes (Tot	Chrysene	Benzo(a)ant
Maximum Value		9.00E-05	5.80E-04	2.89E-03	5.00E-05	6.00E-05	6.00E-05	1.90E-04	1.48E-03	1.25E-03
ASR_ID	mAG									
KT-A1	1.5	5.00E-05	3.60E-04	1.75E-03	3.00E-05	3.00E-05	4.00E-05	1.10E-04	8.90E-04	7.50E-04
KT-A1a	4	5.00E-05	3.30E-04	1.65E-03	3.00E-05	3.00E-05	3.00E-05	1.00E-04	8.40E-04	7.10E-04
KT-A1b	8	3.00E-05	2.40E-04	1.16E-03	2.00E-05	2.00E-05	2.00E-05	7.00E-05	5.90E-04	5.00E-04
KT-A1c	12	2.00E-05	1.10E-04	5.50E-04	1.00E-05	1.00E-05	1.00E-05	4.00E-05	2.80E-04	2.40E-04
KT-A1d	16	1.00E-05	7.00E-05	3.80E-04	1.00E-05	1.00E-05	1.00E-05	2.00E-05	1.90E-04	1.60E-04
KT-A1e	20	1.00E-05	5.00E-05	2.60E-04	0.00E+00	1.00E-05	1.00E-05	2.00E-05	1.40E-04	1.10E-04
KT-A1f	30	0.00E+00	2.00E-05	1.10E-04	0.00E+00	0.00E+00	0.00E+00	1.00E-05	6.00E-05	5.00E-05
KT-A1g	40	0.00E+00	1.00E-05	4.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05	2.00E-05
KT-A1h	50	0.00E+00	1.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05
KT-A1i	60	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00
KT-A1j	70	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A1k	80	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A1l	90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A1m	100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2	1.5	9.00E-05	5.80E-04	2.89E-03	5.00E-05	6.00E-05	6.00E-05	1.90E-04	1.48E-03	1.25E-03
KT-A2a	4	8.00E-05	5.20E-04	2.62E-03	4.00E-05	5.00E-05	6.00E-05	1.70E-04	1.34E-03	1.13E-03
KT-A2b	8	5.00E-05	3.10E-04	1.56E-03	3.00E-05	3.00E-05	4.00E-05	1.10E-04	8.00E-04	6.80E-04
KT-A2c	12	3.00E-05	1.70E-04	8.60E-04	1.00E-05	2.00E-05	2.00E-05	6.00E-05	4.40E-04	3.70E-04
KT-A2d	16	2.00E-05	9.00E-05	4.50E-04	1.00E-05	1.00E-05	1.00E-05	4.00E-05	2.30E-04	2.00E-04
KT-A2e	20	1.00E-05	5.00E-05	2.30E-04	0.00E+00	1.00E-05	1.00E-05	2.00E-05	1.20E-04	1.00E-04
KT-A2f	30	0.00E+00	2.00E-05	9.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	5.00E-05	4.00E-05
KT-A2g	40	0.00E+00	1.00E-05	4.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05	2.00E-05
KT-A2h	50	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05
KT-A2i	60	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2j	70	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2k	80	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2l	90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2m	100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2n	110	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2o	120	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2p	130	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2q	140	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2r	150	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2s	160	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2t	170	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2u	180	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A3	1.5	1.00E-05	1.00E-04	4.70E-04	1.00E-05	1.00E-05	1.00E-05	3.00E-05	2.40E-04	2.00E-04
KT-A3a	4	1.00E-05	9.00E-05	4.20E-04	1.00E-05	1.00E-05	1.00E-05	3.00E-05	2.20E-04	1.80E-04
KT-A3b	8	1.00E-05	6.00E-05	2.90E-04	0.00E+00	1.00E-05	1.00E-05	2.00E-05	1.50E-04	1.20E-04
KT-A3c	12	1.00E-05	4.00E-05	1.80E-04	0.00E+00	0.00E+00	1.00E-05	2.00E-05	9.00E-05	8.00E-05
KT-A3d	16	1.00E-05	3.00E-05	1.50E-04	0.00E+00	0.00E+00	0.00E+00	1.00E-05	8.00E-05	6.00E-05
KT-A3e	20	1.00E-05	3.00E-05	1.20E-04	0.00E+00	0.00E+00	0.00E+00	1.00E-05	6.00E-05	5.00E-05
KT-A3f	30	0.00E+00	2.00E-05	8.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	4.00E-05	4.00E-05
KT-A3g	40	0.00E+00	1.00E-05	5.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	3.00E-05	2.00E-05
KT-A3h	50	0.00E+00	1.00E-05	4.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05	2.00E-05
KT-A3i	60	0.00E+00	1.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05
KT-A3j	70	0.00E+00	0.00E+00	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05
KT-A3k	80	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05
KT-A3l	90	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05
KT-A3m	100	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00
KT-A4	1.5	2.00E-05	4.00E-05	1.30E-04	1.00E-05	1.00E-05	1.00E-05	4.00E-05	7.00E-05	6.00E-05
KT-A4a	4	2.00E-05	3.00E-05	1.10E-04	1.00E-05	1.00E-05	1.00E-05	4.00E-05	6.00E-05	5.00E-05
KT-A4b	8	1.00E-05	2.00E-05	1.00E-04	0.00E+00	1.00E-05	1.00E-05	3.00E-05	5.00E-05	4.00E-05
KT-A4c	12	1.00E-05	2.00E-05	9.00E-05	0.00E+00	0.00E+00	1.00E-05	2.00E-05	5.00E-05	4.00E-05
KT-A4d	16	1.00E-05	2.00E-05	8.00E-05	0.00E+00	0.00E+00	0.00E+00	2.00E-05	4.00E-05	4.00E-05
KT-A4e	20	1.00E-05	2.00E-05	8.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	4.00E-05	3.00E-05

AERMOD Model Results on Hydrocarbons (HC) **Option B, Part 1** **Daily** = Used in Calculation on Project Contribution

Daily		01	02	05	07	08	09	10	14	15
		Naphthalene	Phenanthren	Pyrene	Benzene	Toluene	Ethylbenzen	Xylenes (Tot	Chrysene	Benzo(a)ant
Maximum Value		9.00E-05	5.80E-04	2.89E-03	5.00E-05	6.00E-05	6.00E-05	1.90E-04	1.48E-03	1.25E-03
ASR_ID	mAG									
KT-A4f	30	0.00E+00	1.00E-05	6.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	3.00E-05	2.00E-05
KT-A4g	40	0.00E+00	1.00E-05	4.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05	2.00E-05
KT-A4h	50	0.00E+00	1.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05
KT-A4i	60	0.00E+00	0.00E+00	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05
KT-A4j	70	0.00E+00	0.00E+00	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05
KT-A4k	80	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05
KT-A4l	90	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05
KT-A4m	100	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00
KT-A4n	110	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4o	120	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A5	1.5	2.00E-05	4.00E-05	8.00E-05	1.00E-05	1.00E-05	1.00E-05	5.00E-05	5.00E-05	4.00E-05
KT-A5a	4	2.00E-05	4.00E-05	8.00E-05	1.00E-05	1.00E-05	1.00E-05	5.00E-05	5.00E-05	4.00E-05
KT-A5b	8	2.00E-05	3.00E-05	8.00E-05	1.00E-05	1.00E-05	1.00E-05	3.00E-05	5.00E-05	4.00E-05
KT-A5c	12	1.00E-05	2.00E-05	7.00E-05	0.00E+00	1.00E-05	1.00E-05	2.00E-05	4.00E-05	3.00E-05
KT-A5d	16	1.00E-05	2.00E-05	6.00E-05	0.00E+00	0.00E+00	0.00E+00	2.00E-05	4.00E-05	3.00E-05
KT-A5e	20	1.00E-05	2.00E-05	6.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	3.00E-05	3.00E-05
KT-A6	1.5	3.00E-05	6.00E-05	1.10E-04	1.00E-05	2.00E-05	2.00E-05	7.00E-05	7.00E-05	6.00E-05
KT-A6a	4	3.00E-05	6.00E-05	1.10E-04	1.00E-05	2.00E-05	2.00E-05	7.00E-05	7.00E-05	6.00E-05
KT-A6b	8	2.00E-05	4.00E-05	1.00E-04	1.00E-05	1.00E-05	1.00E-05	4.00E-05	6.00E-05	5.00E-05
KT-A6c	12	1.00E-05	3.00E-05	9.00E-05	0.00E+00	1.00E-05	1.00E-05	3.00E-05	5.00E-05	4.00E-05
KT-A7	1.5	1.00E-05	2.00E-05	8.00E-05	0.00E+00	1.00E-05	1.00E-05	3.00E-05	4.00E-05	4.00E-05
KT-A7a	4	1.00E-05	2.00E-05	7.00E-05	0.00E+00	1.00E-05	1.00E-05	3.00E-05	4.00E-05	3.00E-05
KT-A7b	8	1.00E-05	2.00E-05	7.00E-05	0.00E+00	1.00E-05	1.00E-05	2.00E-05	4.00E-05	3.00E-05
KT-A7c	12	1.00E-05	2.00E-05	7.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	3.00E-05	3.00E-05
KT-A7d	16	1.00E-05	1.00E-05	6.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	3.00E-05	3.00E-05
KT-A7e	20	0.00E+00	1.00E-05	5.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	3.00E-05	2.00E-05
KT-A8	1.5	1.00E-05	2.00E-05	5.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	3.00E-05	2.00E-05
KT-A8a	4	1.00E-05	2.00E-05	5.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	3.00E-05	3.00E-05
KT-A8b	8	1.00E-05	2.00E-05	5.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	3.00E-05	3.00E-05
KT-A8c	12	1.00E-05	2.00E-05	5.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	3.00E-05	3.00E-05
KT-A8d	16	1.00E-05	2.00E-05	5.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	3.00E-05	3.00E-05
KT-A8e	20	1.00E-05	2.00E-05	5.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	3.00E-05	3.00E-05
KT-A8f	30	0.00E+00	1.00E-05	4.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	3.00E-05	2.00E-05
KT-A8g	40	0.00E+00	1.00E-05	4.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05	2.00E-05
KT-A8h	50	0.00E+00	1.00E-05	3.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05	1.00E-05
KT-A8i	60	0.00E+00	1.00E-05	3.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05
KT-A8j	70	0.00E+00	0.00E+00	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05
KT-A8k	80	0.00E+00	0.00E+00	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05
KT-A8l	90	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05
KT-A8m	100	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00
KT-A9	1.5	5.00E-05	9.00E-05	1.20E-04	2.00E-05	3.00E-05	3.00E-05	1.00E-04	1.00E-04	9.00E-05
KT-A9a	4	5.00E-05	9.00E-05	1.20E-04	2.00E-05	2.00E-05	3.00E-05	1.00E-04	9.00E-05	9.00E-05
KT-A9b	8	3.00E-05	5.00E-05	9.00E-05	1.00E-05	2.00E-05	2.00E-05	6.00E-05	6.00E-05	5.00E-05
KT-A10	1.5	2.00E-05	1.20E-04	5.90E-04	1.00E-05	1.00E-05	1.00E-05	4.00E-05	3.00E-04	2.50E-04
KT-A10a	4	2.00E-05	1.20E-04	5.80E-04	1.00E-05	1.00E-05	1.00E-05	4.00E-05	3.00E-04	2.50E-04
KT-A10b	8	2.00E-05	9.00E-05	4.30E-04	1.00E-05	1.00E-05	1.00E-05	3.00E-05	2.20E-04	1.90E-04
KT-A10c	12	1.00E-05	5.00E-05	2.30E-04	0.00E+00	0.00E+00	1.00E-05	2.00E-05	1.20E-04	1.00E-04
KT-A10d	16	1.00E-05	4.00E-05	1.90E-04	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-04	8.00E-05
KT-A10e	20	1.00E-05	3.00E-05	1.60E-04	0.00E+00	0.00E+00	0.00E+00	1.00E-05	8.00E-05	7.00E-05
KT-A10f	30	0.00E+00	2.00E-05	1.10E-04	0.00E+00	0.00E+00	0.00E+00	1.00E-05	6.00E-05	5.00E-05
KT-A10g	40	0.00E+00	2.00E-05	8.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	4.00E-05	3.00E-05
KT-A10h	50	0.00E+00	1.00E-05	5.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-05	2.00E-05
KT-A10i	60	0.00E+00	1.00E-05	4.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05	2.00E-05
KT-A10j	70	0.00E+00	1.00E-05	3.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05
KT-A10k	80	0.00E+00	0.00E+00	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05
KT-A10l	90	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05

AERMOD Model Results on Hydrocarbons (HC) **Option B, Part 1** **Daily** = Used in Calculation on Project Contribution

Daily		01	02	05	07	08	09	10	14	15
		Naphthalene	Phenanthren	Pyrene	Benzene	Toluene	Ethylbenzen	Xylenes (Tot	Chrysene	Benzo(a)ant
Maximum Value		9.00E-05	5.80E-04	2.89E-03	5.00E-05	6.00E-05	6.00E-05	1.90E-04	1.48E-03	1.25E-03
ASR_ID	mAG									
KT-A10m	100	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10n	110	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10o	120	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10p	130	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10q	140	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
P01	1.5	4.00E-05	8.00E-05	2.60E-04	1.00E-05	2.00E-05	3.00E-05	9.00E-05	1.30E-04	1.10E-04
P02	1.5	4.00E-05	8.00E-05	2.30E-04	1.00E-05	2.00E-05	3.00E-05	8.00E-05	1.20E-04	1.00E-04
P03	1.5	3.00E-05	7.00E-05	3.10E-04	1.00E-05	2.00E-05	2.00E-05	7.00E-05	1.60E-04	1.30E-04
P04	1.5	3.00E-05	7.00E-05	3.20E-04	1.00E-05	2.00E-05	2.00E-05	7.00E-05	1.60E-04	1.40E-04
P10	1.5	5.00E-05	3.60E-04	1.78E-03	3.00E-05	3.00E-05	4.00E-05	1.10E-04	9.00E-04	7.60E-04
P11	1.5	2.00E-05	1.20E-04	5.60E-04	1.00E-05	1.00E-05	2.00E-05	5.00E-05	2.90E-04	2.40E-04
P12	1.5	3.00E-05	1.80E-04	8.80E-04	1.00E-05	2.00E-05	2.00E-05	6.00E-05	4.50E-04	3.80E-04
P13	1.5	5.00E-05	3.70E-04	1.85E-03	3.00E-05	3.00E-05	4.00E-05	1.20E-04	9.40E-04	8.00E-04
P14	1.5	3.00E-05	2.10E-04	1.03E-03	2.00E-05	2.00E-05	2.00E-05	6.00E-05	5.20E-04	4.40E-04
P15	1.5	4.00E-05	2.60E-04	1.30E-03	2.00E-05	2.00E-05	3.00E-05	8.00E-05	6.60E-04	5.60E-04
P16	1.5	3.00E-05	2.30E-04	1.16E-03	2.00E-05	2.00E-05	2.00E-05	7.00E-05	5.90E-04	5.00E-04

perylene

AERMOD Model Results on Hydrocarbons (HC) **Option B, Part 2** **Daily** = Used in Calculation on Project Contribution

Daily		01	02	05	07	08	09	10	14	15
		Naphthalene	Phenanthren	Pyrene	Benzene	Toluene	Ethylbenzen	Xylenes (Tot	Chrysene	Benzo(a)ant
Maximum Value		1.20E-04	1.84E-03	4.45E-03	1.00E-04	1.20E-04	1.30E-04	4.00E-04	2.21E-03	2.90E-03
ASR_ID	mAG									
KT-A1	1.5	1.00E-05	1.70E-04	4.10E-04	1.00E-05	1.00E-05	1.00E-05	4.00E-05	2.00E-04	2.60E-04
KT-A1a	4	1.00E-05	1.60E-04	3.90E-04	1.00E-05	1.00E-05	1.00E-05	3.00E-05	1.90E-04	2.50E-04
KT-A1b	8	1.00E-05	1.40E-04	3.50E-04	1.00E-05	1.00E-05	1.00E-05	3.00E-05	1.70E-04	2.30E-04
KT-A1c	12	1.00E-05	1.30E-04	3.10E-04	1.00E-05	1.00E-05	1.00E-05	3.00E-05	1.60E-04	2.00E-04
KT-A1d	16	1.00E-05	1.10E-04	2.80E-04	1.00E-05	1.00E-05	1.00E-05	2.00E-05	1.40E-04	1.80E-04
KT-A1e	20	1.00E-05	1.00E-04	2.40E-04	1.00E-05	1.00E-05	1.00E-05	2.00E-05	1.20E-04	1.60E-04
KT-A1f	30	0.00E+00	7.00E-05	1.70E-04	0.00E+00	0.00E+00	1.00E-05	2.00E-05	8.00E-05	1.10E-04
KT-A1g	40	0.00E+00	5.00E-05	1.20E-04	0.00E+00	0.00E+00	0.00E+00	1.00E-05	6.00E-05	8.00E-05
KT-A1h	50	0.00E+00	3.00E-05	8.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	4.00E-05	5.00E-05
KT-A1i	60	0.00E+00	2.00E-05	5.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-05	3.00E-05
KT-A1j	70	0.00E+00	1.00E-05	4.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05	2.00E-05
KT-A1k	80	0.00E+00	1.00E-05	3.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05
KT-A1l	90	0.00E+00	1.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05
KT-A1m	100	0.00E+00	1.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05
KT-A2	1.5	1.00E-05	1.40E-04	3.30E-04	1.00E-05	1.00E-05	1.00E-05	3.00E-05	1.60E-04	2.20E-04
KT-A2a	4	1.00E-05	1.40E-04	3.50E-04	1.00E-05	1.00E-05	1.00E-05	3.00E-05	1.70E-04	2.30E-04
KT-A2b	8	1.00E-05	1.40E-04	3.30E-04	1.00E-05	1.00E-05	1.00E-05	3.00E-05	1.60E-04	2.10E-04
KT-A2c	12	1.00E-05	1.10E-04	2.70E-04	1.00E-05	1.00E-05	1.00E-05	2.00E-05	1.30E-04	1.70E-04
KT-A2d	16	0.00E+00	8.00E-05	1.90E-04	0.00E+00	0.00E+00	1.00E-05	2.00E-05	9.00E-05	1.20E-04
KT-A2e	20	0.00E+00	7.00E-05	1.60E-04	0.00E+00	0.00E+00	0.00E+00	1.00E-05	8.00E-05	1.10E-04
KT-A2f	30	0.00E+00	5.00E-05	1.20E-04	0.00E+00	0.00E+00	0.00E+00	1.00E-05	6.00E-05	8.00E-05
KT-A2g	40	0.00E+00	4.00E-05	1.00E-04	0.00E+00	0.00E+00	0.00E+00	1.00E-05	5.00E-05	6.00E-05
KT-A2h	50	0.00E+00	3.00E-05	8.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	4.00E-05	5.00E-05
KT-A2i	60	0.00E+00	2.00E-05	6.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	3.00E-05	4.00E-05
KT-A2j	70	0.00E+00	2.00E-05	5.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05	3.00E-05
KT-A2k	80	0.00E+00	1.00E-05	4.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05	2.00E-05
KT-A2l	90	0.00E+00	1.00E-05	3.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05
KT-A2m	100	0.00E+00	1.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05
KT-A2n	110	0.00E+00	1.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05
KT-A2o	120	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05
KT-A2p	130	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05
KT-A2q	140	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05
KT-A2r	150	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05
KT-A2s	160	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2t	170	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2u	180	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A3	1.5	2.00E-05	3.70E-04	9.00E-04	2.00E-05	2.00E-05	3.00E-05	8.00E-05	4.50E-04	5.90E-04
KT-A3a	4	2.00E-05	3.40E-04	8.10E-04	2.00E-05	2.00E-05	2.00E-05	7.00E-05	4.00E-04	5.30E-04
KT-A3b	8	2.00E-05	2.80E-04	6.70E-04	1.00E-05	2.00E-05	2.00E-05	6.00E-05	3.30E-04	4.30E-04
KT-A3c	12	1.00E-05	2.20E-04	5.30E-04	1.00E-05	1.00E-05	2.00E-05	5.00E-05	2.60E-04	3.50E-04
KT-A3d	16	1.00E-05	1.70E-04	4.20E-04	1.00E-05	1.00E-05	1.00E-05	4.00E-05	2.10E-04	2.70E-04
KT-A3e	20	1.00E-05	1.40E-04	3.30E-04	1.00E-05	1.00E-05	1.00E-05	3.00E-05	1.60E-04	2.10E-04
KT-A3f	30	0.00E+00	7.00E-05	1.80E-04	0.00E+00	0.00E+00	1.00E-05	2.00E-05	9.00E-05	1.20E-04
KT-A3g	40	0.00E+00	4.00E-05	1.00E-04	0.00E+00	0.00E+00	0.00E+00	1.00E-05	5.00E-05	6.00E-05
KT-A3h	50	0.00E+00	3.00E-05	6.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	3.00E-05	4.00E-05
KT-A3i	60	0.00E+00	2.00E-05	5.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05	3.00E-05
KT-A3j	70	0.00E+00	2.00E-05	4.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05	3.00E-05
KT-A3k	80	0.00E+00	1.00E-05	3.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05	2.00E-05
KT-A3l	90	0.00E+00	1.00E-05	3.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05
KT-A3m	100	0.00E+00	1.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05
KT-A4	1.5	4.00E-05	5.80E-04	1.40E-03	3.00E-05	4.00E-05	4.00E-05	1.30E-04	7.00E-04	9.10E-04
KT-A4a	4	3.00E-05	5.10E-04	1.20E-03	3.00E-05	3.00E-05	4.00E-05	1.10E-04	5.90E-04	7.80E-04
KT-A4b	8	2.00E-05	3.10E-04	7.40E-04	2.00E-05	2.00E-05	2.00E-05	7.00E-05	3.70E-04	4.80E-04
KT-A4c	12	1.00E-05	1.90E-04	4.60E-04	1.00E-05	1.00E-05	1.00E-05	4.00E-05	2.30E-04	3.00E-04
KT-A4d	16	1.00E-05	1.20E-04	3.00E-04	1.00E-05	1.00E-05	1.00E-05	3.00E-05	1.50E-04	2.00E-04
KT-A4e	20	1.00E-05	8.00E-05	1.90E-04	0.00E+00	1.00E-05	1.00E-05	2.00E-05	1.00E-04	1.30E-04

AERMOD Model Results on Hydrocarbons (HC) **Option B, Part 2** **Daily** = Used in Calculation on Project Contribution

Daily		01	02	05	07	08	09	10	14	15
		Naphthalene	Phenanthren	Pyrene	Benzene	Toluene	Ethylbenzen	Xylenes (Tot	Chrysene	Benzo(a)ant
Maximum Value		1.20E-04	1.84E-03	4.45E-03	1.00E-04	1.20E-04	1.30E-04	4.00E-04	2.21E-03	2.90E-03
ASR_ID	mAG									
KT-A4f	30	0.00E+00	3.00E-05	6.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	3.00E-05	4.00E-05
KT-A4g	40	0.00E+00	1.00E-05	3.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05	2.00E-05
KT-A4h	50	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05
KT-A4i	60	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4j	70	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4k	80	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4l	90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4m	100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4n	110	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4o	120	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A5	1.5	1.00E-05	1.50E-04	3.40E-04	1.00E-05	1.00E-05	1.00E-05	3.00E-05	1.70E-04	2.20E-04
KT-A5a	4	1.00E-05	1.60E-04	3.60E-04	1.00E-05	1.00E-05	1.00E-05	3.00E-05	1.80E-04	2.40E-04
KT-A5b	8	1.00E-05	1.60E-04	3.70E-04	1.00E-05	1.00E-05	1.00E-05	3.00E-05	1.80E-04	2.40E-04
KT-A5c	12	1.00E-05	1.50E-04	3.50E-04	1.00E-05	1.00E-05	1.00E-05	3.00E-05	1.70E-04	2.30E-04
KT-A5d	16	1.00E-05	1.40E-04	3.20E-04	1.00E-05	1.00E-05	1.00E-05	3.00E-05	1.60E-04	2.10E-04
KT-A5e	20	1.00E-05	1.20E-04	2.80E-04	1.00E-05	1.00E-05	1.00E-05	2.00E-05	1.40E-04	1.80E-04
KT-A6	1.5	4.00E-05	7.30E-04	1.69E-03	4.00E-05	4.00E-05	5.00E-05	1.50E-04	8.40E-04	1.10E-03
KT-A6a	4	4.00E-05	7.20E-04	1.66E-03	4.00E-05	4.00E-05	5.00E-05	1.50E-04	8.30E-04	1.08E-03
KT-A6b	8	4.00E-05	5.90E-04	1.37E-03	3.00E-05	4.00E-05	4.00E-05	1.20E-04	6.80E-04	8.90E-04
KT-A6c	12	3.00E-05	4.20E-04	9.80E-04	2.00E-05	3.00E-05	3.00E-05	9.00E-05	4.90E-04	6.40E-04
KT-A7	1.5	2.00E-05	3.90E-04	9.40E-04	2.00E-05	2.00E-05	3.00E-05	8.00E-05	4.70E-04	6.10E-04
KT-A7a	4	3.00E-05	4.10E-04	9.70E-04	2.00E-05	3.00E-05	3.00E-05	9.00E-05	4.80E-04	6.30E-04
KT-A7b	8	2.00E-05	2.80E-04	6.50E-04	1.00E-05	2.00E-05	2.00E-05	6.00E-05	3.20E-04	4.20E-04
KT-A7c	12	1.00E-05	1.40E-04	3.40E-04	1.00E-05	1.00E-05	1.00E-05	3.00E-05	1.70E-04	2.20E-04
KT-A7d	16	1.00E-05	9.00E-05	2.20E-04	0.00E+00	1.00E-05	1.00E-05	2.00E-05	1.10E-04	1.40E-04
KT-A7e	20	0.00E+00	6.00E-05	1.40E-04	0.00E+00	0.00E+00	0.00E+00	1.00E-05	7.00E-05	9.00E-05
KT-A8	1.5	0.00E+00	6.00E-05	1.40E-04	0.00E+00	0.00E+00	0.00E+00	1.00E-05	7.00E-05	9.00E-05
KT-A8a	4	0.00E+00	6.00E-05	1.40E-04	0.00E+00	0.00E+00	0.00E+00	1.00E-05	7.00E-05	9.00E-05
KT-A8b	8	0.00E+00	7.00E-05	1.50E-04	0.00E+00	0.00E+00	0.00E+00	1.00E-05	8.00E-05	1.00E-04
KT-A8c	12	0.00E+00	7.00E-05	1.50E-04	0.00E+00	0.00E+00	0.00E+00	1.00E-05	8.00E-05	1.00E-04
KT-A8d	16	0.00E+00	6.00E-05	1.50E-04	0.00E+00	0.00E+00	0.00E+00	1.00E-05	7.00E-05	1.00E-04
KT-A8e	20	0.00E+00	6.00E-05	1.40E-04	0.00E+00	0.00E+00	0.00E+00	1.00E-05	7.00E-05	9.00E-05
KT-A8f	30	0.00E+00	5.00E-05	1.10E-04	0.00E+00	0.00E+00	0.00E+00	1.00E-05	5.00E-05	7.00E-05
KT-A8g	40	0.00E+00	3.00E-05	8.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	4.00E-05	5.00E-05
KT-A8h	50	0.00E+00	3.00E-05	6.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	3.00E-05	4.00E-05
KT-A8i	60	0.00E+00	2.00E-05	5.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05	3.00E-05
KT-A8j	70	0.00E+00	1.00E-05	4.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05	2.00E-05
KT-A8k	80	0.00E+00	1.00E-05	3.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05
KT-A8l	90	0.00E+00	1.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05
KT-A8m	100	0.00E+00	1.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05
KT-A9	1.5	2.00E-05	2.70E-04	6.20E-04	1.00E-05	2.00E-05	2.00E-05	6.00E-05	3.10E-04	4.00E-04
KT-A9a	4	2.00E-05	2.90E-04	6.60E-04	1.00E-05	2.00E-05	2.00E-05	6.00E-05	3.30E-04	4.30E-04
KT-A9b	8	2.00E-05	2.80E-04	6.50E-04	1.00E-05	2.00E-05	2.00E-05	6.00E-05	3.20E-04	4.30E-04
KT-A10	1.5	1.00E-05	1.70E-04	4.10E-04	1.00E-05	1.00E-05	1.00E-05	4.00E-05	2.00E-04	2.70E-04
KT-A10a	4	1.00E-05	1.60E-04	3.90E-04	1.00E-05	1.00E-05	1.00E-05	3.00E-05	1.90E-04	2.50E-04
KT-A10b	8	1.00E-05	1.40E-04	3.40E-04	1.00E-05	1.00E-05	1.00E-05	3.00E-05	1.70E-04	2.20E-04
KT-A10c	12	1.00E-05	1.20E-04	3.00E-04	1.00E-05	1.00E-05	1.00E-05	3.00E-05	1.50E-04	2.00E-04
KT-A10d	16	1.00E-05	1.10E-04	2.60E-04	1.00E-05	1.00E-05	1.00E-05	2.00E-05	1.30E-04	1.70E-04
KT-A10e	20	1.00E-05	9.00E-05	2.30E-04	0.00E+00	1.00E-05	1.00E-05	2.00E-05	1.10E-04	1.50E-04
KT-A10f	30	0.00E+00	6.00E-05	1.50E-04	0.00E+00	0.00E+00	0.00E+00	1.00E-05	8.00E-05	1.00E-04
KT-A10g	40	0.00E+00	4.00E-05	1.00E-04	0.00E+00	0.00E+00	0.00E+00	1.00E-05	5.00E-05	7.00E-05
KT-A10h	50	0.00E+00	3.00E-05	7.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	3.00E-05	4.00E-05
KT-A10i	60	0.00E+00	2.00E-05	5.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-05	3.00E-05
KT-A10j	70	0.00E+00	2.00E-05	4.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05	3.00E-05
KT-A10k	80	0.00E+00	1.00E-05	3.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05
KT-A10l	90	0.00E+00	1.00E-05	3.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05

AERMOD Model Results on Hydrocarbons (HC) **Option B, Part 2** **Daily** = Used in Calculation on Project Contribution

Daily		01	02	05	07	08	09	10	14	15
		Naphthalene	Phenanthren	Pyrene	Benzene	Toluene	Ethylbenzen	Xylenes (Tot	Chrysene	Benzo(a)ant
Maximum Value		1.20E-04	1.84E-03	4.45E-03	1.00E-04	1.20E-04	1.30E-04	4.00E-04	2.21E-03	2.90E-03
ASR_ID	mAG									
KT-A10m	100	0.00E+00	1.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05
KT-A10n	110	0.00E+00	1.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05
KT-A10o	120	0.00E+00	1.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05
KT-A10p	130	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05
KT-A10q	140	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05
P01	1.5	1.00E-04	1.61E-03	3.89E-03	9.00E-05	1.00E-04	1.20E-04	3.50E-04	1.93E-03	2.53E-03
P02	1.5	1.20E-04	1.84E-03	4.45E-03	1.00E-04	1.20E-04	1.30E-04	4.00E-04	2.21E-03	2.90E-03
P03	1.5	9.00E-05	1.43E-03	3.45E-03	8.00E-05	9.00E-05	1.00E-04	3.10E-04	1.71E-03	2.25E-03
P04	1.5	1.00E-04	1.59E-03	3.86E-03	9.00E-05	1.00E-04	1.20E-04	3.50E-04	1.92E-03	2.51E-03
P10	1.5	2.00E-05	2.80E-04	6.70E-04	1.00E-05	2.00E-05	2.00E-05	6.00E-05	3.30E-04	4.40E-04
P11	1.5	5.00E-05	7.40E-04	1.80E-03	4.00E-05	5.00E-05	5.00E-05	1.60E-04	8.90E-04	1.17E-03
P12	1.5	3.00E-05	4.80E-04	1.15E-03	3.00E-05	3.00E-05	3.00E-05	1.00E-04	5.70E-04	7.50E-04
P13	1.5	2.00E-05	3.90E-04	9.50E-04	2.00E-05	2.00E-05	3.00E-05	9.00E-05	4.70E-04	6.20E-04
P14	1.5	2.00E-05	3.60E-04	8.60E-04	2.00E-05	2.00E-05	3.00E-05	8.00E-05	4.30E-04	5.60E-04
P15	1.5	3.00E-05	5.20E-04	1.27E-03	3.00E-05	3.00E-05	4.00E-05	1.10E-04	6.30E-04	8.30E-04
P16	1.5	5.00E-05	8.00E-04	1.94E-03	4.00E-05	5.00E-05	6.00E-05	1.70E-04	9.60E-04	1.26E-03

perylene

AERMOD Model Results on Hydrocarbons (HC) **Option B, Part 3** **Daily** = Used in Calculation on Project Contribution

Daily		01	02	05	07	08	09	10	14	15
		Naphthalene	Phenanthren	Pyrene	Benzene	Toluene	Ethylbenzen	Xylenes (Tot	Chrysene	Benzo(a)ant
Maximum Value		1.00E-04	2.00E-04	2.40E-04	3.00E-05	5.00E-05	6.00E-05	2.10E-04	2.00E-04	1.80E-04
ASR_ID	mAG									
KT-A1	1.5	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05
KT-A1a	4	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05
KT-A1b	8	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05
KT-A1c	12	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05
KT-A1d	16	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05
KT-A1e	20	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05
KT-A1f	30	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00
KT-A1g	40	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A1h	50	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A1i	60	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A1j	70	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A1k	80	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A1l	90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A1m	100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2	1.5	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05
KT-A2a	4	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05
KT-A2b	8	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05
KT-A2c	12	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05
KT-A2d	16	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05
KT-A2e	20	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05
KT-A2f	30	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00
KT-A2g	40	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2h	50	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2i	60	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2j	70	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2k	80	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2l	90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2m	100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2n	110	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2o	120	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2p	130	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2q	140	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2r	150	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2s	160	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2t	170	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2u	180	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A3	1.5	1.00E-05	1.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05
KT-A3a	4	1.00E-05	1.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05
KT-A3b	8	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05
KT-A3c	12	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05
KT-A3d	16	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05
KT-A3e	20	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05
KT-A3f	30	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05
KT-A3g	40	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05
KT-A3h	50	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A3i	60	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A3j	70	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A3k	80	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A3l	90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A3m	100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4	1.5	2.00E-05	4.00E-05	5.00E-05	1.00E-05	1.00E-05	1.00E-05	4.00E-05	4.00E-05	4.00E-05
KT-A4a	4	2.00E-05	4.00E-05	5.00E-05	1.00E-05	1.00E-05	1.00E-05	4.00E-05	4.00E-05	3.00E-05
KT-A4b	8	1.00E-05	3.00E-05	4.00E-05	1.00E-05	1.00E-05	1.00E-05	3.00E-05	3.00E-05	3.00E-05
KT-A4c	12	1.00E-05	2.00E-05	3.00E-05	0.00E+00	1.00E-05	1.00E-05	2.00E-05	2.00E-05	2.00E-05
KT-A4d	16	1.00E-05	2.00E-05	2.00E-05	0.00E+00	0.00E+00	1.00E-05	2.00E-05	2.00E-05	2.00E-05
KT-A4e	20	1.00E-05	1.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	2.00E-05	2.00E-05	1.00E-05

AERMOD Model Results on Hydrocarbons (HC) **Option B, Part 3** **Daily** = Used in Calculation on Project Contribution

Daily		01	02	05	07	08	09	10	14	15
		Naphthalene	Phenanthren	Pyrene	Benzene	Toluene	Ethylbenzen	Xylenes (Tot	Chrysene	Benzo(a)ant
Maximum Value		1.00E-04	2.00E-04	2.40E-04	3.00E-05	5.00E-05	6.00E-05	2.10E-04	2.00E-04	1.80E-04
ASR_ID	mAG									
KT-A4f	30	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05
KT-A4g	40	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00
KT-A4h	50	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4i	60	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4j	70	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4k	80	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4l	90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4m	100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4n	110	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4o	120	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A5	1.5	7.00E-05	1.30E-04	1.80E-04	2.00E-05	4.00E-05	4.00E-05	1.50E-04	1.40E-04	1.30E-04
KT-A5a	4	8.00E-05	1.50E-04	2.00E-04	3.00E-05	4.00E-05	5.00E-05	1.70E-04	1.70E-04	1.50E-04
KT-A5b	8	4.00E-05	8.00E-05	1.10E-04	1.00E-05	2.00E-05	3.00E-05	9.00E-05	9.00E-05	8.00E-05
KT-A5c	12	2.00E-05	3.00E-05	5.00E-05	1.00E-05	1.00E-05	1.00E-05	4.00E-05	4.00E-05	3.00E-05
KT-A5d	16	1.00E-05	2.00E-05	3.00E-05	0.00E+00	1.00E-05	1.00E-05	2.00E-05	2.00E-05	2.00E-05
KT-A5e	20	1.00E-05	1.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05
KT-A6	1.5	8.00E-05	1.60E-04	2.00E-04	3.00E-05	4.00E-05	5.00E-05	1.70E-04	1.70E-04	1.50E-04
KT-A6a	4	6.00E-05	1.40E-04	1.60E-04	2.00E-05	3.00E-05	4.00E-05	1.40E-04	1.30E-04	1.20E-04
KT-A6b	8	4.00E-05	8.00E-05	9.00E-05	1.00E-05	2.00E-05	3.00E-05	8.00E-05	8.00E-05	7.00E-05
KT-A6c	12	2.00E-05	4.00E-05	6.00E-05	1.00E-05	1.00E-05	1.00E-05	5.00E-05	5.00E-05	4.00E-05
KT-A7	1.5	2.00E-05	4.00E-05	5.00E-05	1.00E-05	1.00E-05	1.00E-05	4.00E-05	4.00E-05	4.00E-05
KT-A7a	4	2.00E-05	4.00E-05	4.00E-05	1.00E-05	1.00E-05	1.00E-05	4.00E-05	4.00E-05	3.00E-05
KT-A7b	8	1.00E-05	3.00E-05	3.00E-05	0.00E+00	1.00E-05	1.00E-05	3.00E-05	3.00E-05	3.00E-05
KT-A7c	12	1.00E-05	2.00E-05	3.00E-05	0.00E+00	1.00E-05	1.00E-05	2.00E-05	2.00E-05	2.00E-05
KT-A7d	16	1.00E-05	1.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	2.00E-05	2.00E-05	1.00E-05
KT-A7e	20	1.00E-05	1.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05
KT-A8	1.5	1.00E-05	2.00E-05	3.00E-05	0.00E+00	1.00E-05	1.00E-05	2.00E-05	2.00E-05	2.00E-05
KT-A8a	4	1.00E-05	3.00E-05	3.00E-05	0.00E+00	1.00E-05	1.00E-05	3.00E-05	3.00E-05	2.00E-05
KT-A8b	8	1.00E-05	3.00E-05	3.00E-05	0.00E+00	1.00E-05	1.00E-05	3.00E-05	3.00E-05	3.00E-05
KT-A8c	12	1.00E-05	3.00E-05	3.00E-05	0.00E+00	1.00E-05	1.00E-05	3.00E-05	3.00E-05	2.00E-05
KT-A8d	16	1.00E-05	2.00E-05	3.00E-05	0.00E+00	1.00E-05	1.00E-05	2.00E-05	2.00E-05	2.00E-05
KT-A8e	20	1.00E-05	2.00E-05	2.00E-05	0.00E+00	1.00E-05	1.00E-05	2.00E-05	2.00E-05	2.00E-05
KT-A8f	30	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05
KT-A8g	40	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05
KT-A8h	50	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A8i	60	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A8j	70	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A8k	80	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A8l	90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A8m	100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A9	1.5	8.00E-05	1.40E-04	2.00E-04	3.00E-05	4.00E-05	5.00E-05	1.70E-04	1.70E-04	1.50E-04
KT-A9a	4	1.00E-04	2.00E-04	2.40E-04	3.00E-05	5.00E-05	6.00E-05	2.10E-04	2.00E-04	1.80E-04
KT-A9b	8	4.00E-05	7.00E-05	1.10E-04	2.00E-05	2.00E-05	3.00E-05	9.00E-05	9.00E-05	8.00E-05
KT-A10	1.5	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05
KT-A10a	4	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05
KT-A10b	8	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05
KT-A10c	12	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05
KT-A10d	16	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05
KT-A10e	20	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05
KT-A10f	30	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00
KT-A10g	40	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10h	50	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10i	60	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10j	70	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10k	80	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10l	90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

perylene

AERMOD Model Results on Hydrocarbons (HC) **Option B, Part 3** **Daily** = Used in Calculation on Project Contribution

Daily		01	02	05	07	08	09	10	14	15
		Naphthalene	Phenanthren	Pyrene	Benzene	Toluene	Ethylbenzen	Xylenes (Tot	Chrysene	Benzo(a)ant
Maximum Value		1.00E-04	2.00E-04	2.40E-04	3.00E-05	5.00E-05	6.00E-05	2.10E-04	2.00E-04	1.80E-04
ASR_ID	mAG									
KT-A10m	100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10n	110	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10o	120	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10p	130	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10q	140	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
P01	1.5	1.00E-05	2.00E-05	3.00E-05	0.00E+00	1.00E-05	1.00E-05	3.00E-05	3.00E-05	3.00E-05
P02	1.5	2.00E-05	3.00E-05	4.00E-05	1.00E-05	1.00E-05	1.00E-05	3.00E-05	3.00E-05	3.00E-05
P03	1.5	1.00E-05	2.00E-05	3.00E-05	0.00E+00	1.00E-05	1.00E-05	2.00E-05	2.00E-05	2.00E-05
P04	1.5	1.00E-05	2.00E-05	3.00E-05	0.00E+00	1.00E-05	1.00E-05	3.00E-05	3.00E-05	2.00E-05
P10	1.5	1.00E-05	1.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05
P11	1.5	1.00E-05	2.00E-05	2.00E-05	0.00E+00	1.00E-05	1.00E-05	2.00E-05	2.00E-05	2.00E-05
P12	1.5	1.00E-05	1.00E-05	2.00E-05	0.00E+00	0.00E+00	1.00E-05	2.00E-05	2.00E-05	2.00E-05
P13	1.5	1.00E-05	1.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05
P14	1.5	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05
P15	1.5	1.00E-05	1.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	2.00E-05	1.00E-05	1.00E-05
P16	1.5	1.00E-05	1.00E-05	2.00E-05	0.00E+00	0.00E+00	1.00E-05	2.00E-05	2.00E-05	2.00E-05

perylene

AERMOD Model Results on Hydrocarbons (HC) **Option C, Part 1** **Daily** = Used in Calculation on Project Contribution

Daily		01	02	05	07	08	09	10	14	15
		Naphthalene	Phenanthren	Pyrene	Benzene	Toluene	Ethylbenzen	Xylenes (Tot	Chrysene	Benzo(a)ant
Maximum Value		1.00E-04	7.70E-04	3.23E-03	5.00E-05	6.00E-05	7.00E-05	2.20E-04	1.65E-03	1.45E-03
ASR_ID	mAG									
KT-A1	1.5	6.00E-05	4.20E-04	1.84E-03	3.00E-05	4.00E-05	4.00E-05	1.20E-04	9.30E-04	8.10E-04
KT-A1a	4	5.00E-05	3.70E-04	1.75E-03	3.00E-05	3.00E-05	4.00E-05	1.10E-04	8.90E-04	7.60E-04
KT-A1b	8	4.00E-05	2.70E-04	1.24E-03	2.00E-05	2.00E-05	3.00E-05	8.00E-05	6.30E-04	5.30E-04
KT-A1c	12	2.00E-05	1.80E-04	6.00E-04	1.00E-05	2.00E-05	2.00E-05	6.00E-05	3.00E-04	3.10E-04
KT-A1d	16	2.00E-05	1.30E-04	4.10E-04	1.00E-05	1.00E-05	1.00E-05	4.00E-05	2.10E-04	2.10E-04
KT-A1e	20	1.00E-05	1.00E-04	3.00E-04	1.00E-05	1.00E-05	1.00E-05	3.00E-05	1.50E-04	1.60E-04
KT-A1f	30	1.00E-05	6.00E-05	1.30E-04	0.00E+00	1.00E-05	1.00E-05	2.00E-05	7.00E-05	8.00E-05
KT-A1g	40	0.00E+00	3.00E-05	9.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	5.00E-05	5.00E-05
KT-A1h	50	0.00E+00	2.00E-05	6.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	3.00E-05	4.00E-05
KT-A1i	60	0.00E+00	2.00E-05	4.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05	3.00E-05
KT-A1j	70	0.00E+00	1.00E-05	3.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05	2.00E-05
KT-A1k	80	0.00E+00	1.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05
KT-A1l	90	0.00E+00	1.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05
KT-A1m	100	0.00E+00	1.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05
KT-A2	1.5	1.00E-04	7.10E-04	3.23E-03	5.00E-05	6.00E-05	7.00E-05	2.20E-04	1.65E-03	1.45E-03
KT-A2a	4	9.00E-05	6.60E-04	3.00E-03	5.00E-05	6.00E-05	7.00E-05	2.10E-04	1.53E-03	1.35E-03
KT-A2b	8	6.00E-05	4.30E-04	1.87E-03	3.00E-05	4.00E-05	4.00E-05	1.40E-04	9.50E-04	8.60E-04
KT-A2c	12	4.00E-05	2.70E-04	1.09E-03	2.00E-05	2.00E-05	3.00E-05	9.00E-05	5.50E-04	5.20E-04
KT-A2d	16	2.00E-05	1.70E-04	6.20E-04	1.00E-05	2.00E-05	2.00E-05	5.00E-05	3.20E-04	3.10E-04
KT-A2e	20	1.00E-05	1.10E-04	3.60E-04	1.00E-05	1.00E-05	1.00E-05	4.00E-05	1.80E-04	1.90E-04
KT-A2f	30	1.00E-05	6.00E-05	1.40E-04	0.00E+00	1.00E-05	1.00E-05	2.00E-05	7.00E-05	9.00E-05
KT-A2g	40	1.00E-05	4.00E-05	8.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	4.00E-05	6.00E-05
KT-A2h	50	0.00E+00	3.00E-05	6.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	3.00E-05	4.00E-05
KT-A2i	60	0.00E+00	2.00E-05	4.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05	3.00E-05
KT-A2j	70	0.00E+00	1.00E-05	3.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	2.00E-05
KT-A2k	80	0.00E+00	1.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05
KT-A2l	90	0.00E+00	1.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05
KT-A2m	100	0.00E+00	1.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05
KT-A2n	110	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05
KT-A2o	120	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05
KT-A2p	130	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05
KT-A2q	140	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05
KT-A2r	150	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2s	160	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2t	170	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2u	180	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A3	1.5	2.00E-05	2.00E-04	4.70E-04	1.00E-05	2.00E-05	2.00E-05	6.00E-05	2.40E-04	2.60E-04
KT-A3a	4	2.00E-05	1.90E-04	4.30E-04	1.00E-05	1.00E-05	2.00E-05	5.00E-05	2.20E-04	2.40E-04
KT-A3b	8	2.00E-05	1.60E-04	3.20E-04	1.00E-05	1.00E-05	2.00E-05	5.00E-05	1.70E-04	2.10E-04
KT-A3c	12	2.00E-05	1.30E-04	2.60E-04	1.00E-05	1.00E-05	1.00E-05	4.00E-05	1.40E-04	1.70E-04
KT-A3d	16	1.00E-05	1.00E-04	2.20E-04	1.00E-05	1.00E-05	1.00E-05	3.00E-05	1.20E-04	1.40E-04
KT-A3e	20	1.00E-05	8.00E-05	1.80E-04	1.00E-05	1.00E-05	1.00E-05	3.00E-05	1.00E-04	1.20E-04
KT-A3f	30	1.00E-05	5.00E-05	1.20E-04	0.00E+00	1.00E-05	1.00E-05	2.00E-05	6.00E-05	7.00E-05
KT-A3g	40	0.00E+00	4.00E-05	1.00E-04	0.00E+00	0.00E+00	0.00E+00	1.00E-05	5.00E-05	6.00E-05
KT-A3h	50	0.00E+00	3.00E-05	8.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	4.00E-05	5.00E-05
KT-A3i	60	0.00E+00	2.00E-05	6.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	3.00E-05	4.00E-05
KT-A3j	70	0.00E+00	2.00E-05	5.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05	3.00E-05
KT-A3k	80	0.00E+00	1.00E-05	4.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05	2.00E-05
KT-A3l	90	0.00E+00	1.00E-05	3.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05	2.00E-05
KT-A3m	100	0.00E+00	1.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05
KT-A4	1.5	3.00E-05	1.80E-04	4.00E-04	1.00E-05	2.00E-05	2.00E-05	6.00E-05	2.10E-04	2.70E-04
KT-A4a	4	2.00E-05	1.60E-04	3.50E-04	1.00E-05	1.00E-05	2.00E-05	5.00E-05	1.80E-04	2.30E-04
KT-A4b	8	2.00E-05	1.10E-04	2.70E-04	1.00E-05	1.00E-05	1.00E-05	4.00E-05	1.40E-04	1.70E-04
KT-A4c	12	1.00E-05	8.00E-05	2.20E-04	1.00E-05	1.00E-05	1.00E-05	3.00E-05	1.10E-04	1.30E-04
KT-A4d	16	1.00E-05	7.00E-05	1.70E-04	1.00E-05	1.00E-05	1.00E-05	3.00E-05	9.00E-05	1.10E-04
KT-A4e	20	1.00E-05	6.00E-05	1.40E-04	0.00E+00	1.00E-05	1.00E-05	2.00E-05	8.00E-05	9.00E-05

AERMOD Model Results on Hydrocarbons (HC) **Option C, Part 1** **Daily** = Used in Calculation on Project Contribution

Daily		01	02	05	07	08	09	10	14	15
		Naphthalene	Phenanthren	Pyrene	Benzene	Toluene	Ethylbenzen	Xylenes (Tot	Chrysene	Benzo(a)ant
Maximum Value		1.00E-04	7.70E-04	3.23E-03	5.00E-05	6.00E-05	7.00E-05	2.20E-04	1.65E-03	1.45E-03
ASR_ID	mAG									
KT-A4f	30	1.00E-05	4.00E-05	9.00E-05	0.00E+00	0.00E+00	0.00E+00	2.00E-05	5.00E-05	6.00E-05
KT-A4g	40	0.00E+00	3.00E-05	6.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	3.00E-05	4.00E-05
KT-A4h	50	0.00E+00	2.00E-05	4.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05	3.00E-05
KT-A4i	60	0.00E+00	1.00E-05	3.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05	2.00E-05
KT-A4j	70	0.00E+00	1.00E-05	3.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05
KT-A4k	80	0.00E+00	1.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05
KT-A4l	90	0.00E+00	1.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05
KT-A4m	100	0.00E+00	1.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05
KT-A4n	110	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05
KT-A4o	120	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05
KT-A5	1.5	2.00E-05	9.00E-05	2.00E-04	1.00E-05	1.00E-05	2.00E-05	5.00E-05	1.10E-04	1.20E-04
KT-A5a	4	2.00E-05	9.00E-05	2.00E-04	1.00E-05	1.00E-05	1.00E-05	5.00E-05	1.10E-04	1.20E-04
KT-A5b	8	2.00E-05	9.00E-05	2.00E-04	1.00E-05	1.00E-05	1.00E-05	4.00E-05	1.10E-04	1.20E-04
KT-A5c	12	1.00E-05	8.00E-05	1.90E-04	1.00E-05	1.00E-05	1.00E-05	3.00E-05	1.00E-04	1.10E-04
KT-A5d	16	1.00E-05	7.00E-05	1.70E-04	1.00E-05	1.00E-05	1.00E-05	3.00E-05	9.00E-05	1.00E-04
KT-A5e	20	1.00E-05	6.00E-05	1.60E-04	0.00E+00	1.00E-05	1.00E-05	2.00E-05	8.00E-05	9.00E-05
KT-A6	1.5	5.00E-05	4.00E-04	9.10E-04	2.00E-05	3.00E-05	4.00E-05	1.20E-04	4.70E-04	6.00E-04
KT-A6a	4	4.00E-05	3.80E-04	8.50E-04	2.00E-05	3.00E-05	3.00E-05	1.00E-04	4.30E-04	5.60E-04
KT-A6b	8	3.00E-05	2.50E-04	5.70E-04	1.00E-05	2.00E-05	2.00E-05	7.00E-05	2.90E-04	3.70E-04
KT-A6c	12	2.00E-05	1.50E-04	3.40E-04	1.00E-05	1.00E-05	1.00E-05	5.00E-05	1.70E-04	2.20E-04
KT-A7	1.5	2.00E-05	1.30E-04	3.00E-04	1.00E-05	1.00E-05	2.00E-05	5.00E-05	1.60E-04	1.90E-04
KT-A7a	4	2.00E-05	1.40E-04	3.10E-04	1.00E-05	1.00E-05	2.00E-05	5.00E-05	1.60E-04	2.00E-04
KT-A7b	8	1.00E-05	1.10E-04	2.30E-04	1.00E-05	1.00E-05	1.00E-05	4.00E-05	1.20E-04	1.50E-04
KT-A7c	12	1.00E-05	6.00E-05	1.60E-04	0.00E+00	1.00E-05	1.00E-05	2.00E-05	8.00E-05	1.00E-04
KT-A7d	16	1.00E-05	5.00E-05	1.30E-04	0.00E+00	1.00E-05	1.00E-05	2.00E-05	7.00E-05	8.00E-05
KT-A7e	20	1.00E-05	4.00E-05	1.10E-04	0.00E+00	0.00E+00	1.00E-05	2.00E-05	6.00E-05	7.00E-05
KT-A8	1.5	1.00E-05	5.00E-05	1.20E-04	0.00E+00	1.00E-05	1.00E-05	2.00E-05	7.00E-05	7.00E-05
KT-A8a	4	1.00E-05	5.00E-05	1.30E-04	0.00E+00	1.00E-05	1.00E-05	2.00E-05	7.00E-05	8.00E-05
KT-A8b	8	1.00E-05	6.00E-05	1.40E-04	0.00E+00	1.00E-05	1.00E-05	2.00E-05	7.00E-05	8.00E-05
KT-A8c	12	1.00E-05	6.00E-05	1.40E-04	0.00E+00	1.00E-05	1.00E-05	2.00E-05	7.00E-05	8.00E-05
KT-A8d	16	1.00E-05	5.00E-05	1.30E-04	0.00E+00	1.00E-05	1.00E-05	2.00E-05	7.00E-05	8.00E-05
KT-A8e	20	1.00E-05	5.00E-05	1.30E-04	0.00E+00	1.00E-05	1.00E-05	2.00E-05	7.00E-05	8.00E-05
KT-A8f	30	1.00E-05	4.00E-05	1.10E-04	0.00E+00	0.00E+00	1.00E-05	2.00E-05	6.00E-05	7.00E-05
KT-A8g	40	1.00E-05	3.00E-05	9.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	5.00E-05	5.00E-05
KT-A8h	50	0.00E+00	2.00E-05	7.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	4.00E-05	4.00E-05
KT-A8i	60	0.00E+00	2.00E-05	5.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	3.00E-05	3.00E-05
KT-A8j	70	0.00E+00	1.00E-05	4.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05	2.00E-05
KT-A8k	80	0.00E+00	1.00E-05	3.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05	2.00E-05
KT-A8l	90	0.00E+00	1.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05
KT-A8m	100	0.00E+00	1.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05
KT-A9	1.5	7.00E-05	1.80E-04	3.30E-04	2.00E-05	4.00E-05	4.00E-05	1.50E-04	2.10E-04	2.20E-04
KT-A9a	4	6.00E-05	1.70E-04	3.20E-04	2.00E-05	4.00E-05	4.00E-05	1.40E-04	2.00E-04	2.10E-04
KT-A9b	8	4.00E-05	1.20E-04	2.70E-04	2.00E-05	2.00E-05	3.00E-05	9.00E-05	1.50E-04	1.70E-04
KT-A10	1.5	2.00E-05	1.90E-04	7.70E-04	1.00E-05	2.00E-05	2.00E-05	6.00E-05	3.90E-04	3.70E-04
KT-A10a	4	2.00E-05	1.90E-04	7.50E-04	1.00E-05	2.00E-05	2.00E-05	6.00E-05	3.80E-04	3.60E-04
KT-A10b	8	2.00E-05	1.50E-04	5.80E-04	1.00E-05	1.00E-05	1.00E-05	5.00E-05	3.00E-04	2.80E-04
KT-A10c	12	1.00E-05	1.10E-04	3.00E-04	1.00E-05	1.00E-05	1.00E-05	3.00E-05	1.50E-04	1.60E-04
KT-A10d	16	1.00E-05	9.00E-05	2.30E-04	1.00E-05	1.00E-05	1.00E-05	3.00E-05	1.20E-04	1.40E-04
KT-A10e	20	1.00E-05	7.00E-05	2.00E-04	1.00E-05	1.00E-05	1.00E-05	2.00E-05	1.00E-04	1.20E-04
KT-A10f	30	1.00E-05	5.00E-05	1.50E-04	0.00E+00	0.00E+00	1.00E-05	2.00E-05	8.00E-05	8.00E-05
KT-A10g	40	0.00E+00	3.00E-05	1.10E-04	0.00E+00	0.00E+00	0.00E+00	1.00E-05	6.00E-05	6.00E-05
KT-A10h	50	0.00E+00	2.00E-05	8.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	4.00E-05	4.00E-05
KT-A10i	60	0.00E+00	2.00E-05	6.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	3.00E-05	3.00E-05
KT-A10j	70	0.00E+00	2.00E-05	5.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05	3.00E-05
KT-A10k	80	0.00E+00	1.00E-05	4.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05	2.00E-05
KT-A10l	90	0.00E+00	1.00E-05	3.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05

AERMOD Model Results on Hydrocarbons (HC) **Option C, Part 1** **Daily** = Used in Calculation on Project Contribution

Daily		01	02	05	07	08	09	10	14	15
		Naphthalene	Phenanthren	Pyrene	Benzene	Toluene	Ethylbenzen	Xylenes (Tot	Chrysene	Benzo(a)ant
Maximum Value		1.00E-04	7.70E-04	3.23E-03	5.00E-05	6.00E-05	7.00E-05	2.20E-04	1.65E-03	1.45E-03
ASR_ID	mAG									
KT-A10m	100	0.00E+00	1.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05
KT-A10n	110	0.00E+00	1.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05
KT-A10o	120	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05
KT-A10p	130	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05
KT-A10q	140	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05
P01	1.5	7.00E-05	6.20E-04	1.49E-03	4.00E-05	5.00E-05	6.00E-05	1.90E-04	7.50E-04	9.70E-04
P02	1.5	6.00E-05	5.30E-04	1.23E-03	3.00E-05	4.00E-05	5.00E-05	1.60E-04	6.20E-04	8.10E-04
P03	1.5	7.00E-05	6.50E-04	1.52E-03	4.00E-05	5.00E-05	6.00E-05	1.90E-04	7.80E-04	9.90E-04
P04	1.5	6.00E-05	6.10E-04	1.45E-03	3.00E-05	5.00E-05	5.00E-05	1.60E-04	7.20E-04	9.40E-04
P10	1.5	5.00E-05	3.80E-04	1.78E-03	3.00E-05	3.00E-05	4.00E-05	1.20E-04	9.10E-04	7.90E-04
P11	1.5	7.00E-05	7.70E-04	1.72E-03	4.00E-05	5.00E-05	6.00E-05	1.90E-04	8.70E-04	1.13E-03
P12	1.5	6.00E-05	6.20E-04	1.45E-03	4.00E-05	5.00E-05	6.00E-05	1.80E-04	7.40E-04	9.50E-04
P13	1.5	5.00E-05	4.50E-04	1.80E-03	3.00E-05	4.00E-05	4.00E-05	1.30E-04	9.20E-04	7.70E-04
P14	1.5	3.00E-05	3.10E-04	1.05E-03	2.00E-05	2.00E-05	3.00E-05	9.00E-05	5.40E-04	4.60E-04
P15	1.5	4.00E-05	4.40E-04	1.32E-03	3.00E-05	3.00E-05	4.00E-05	1.20E-04	6.70E-04	6.20E-04
P16	1.5	5.00E-05	5.80E-04	1.26E-03	3.00E-05	4.00E-05	5.00E-05	1.50E-04	6.40E-04	8.30E-04

perylene

AERMOD Model Results on Hydrocarbons (HC) **Option A, Part 1** **Annual** = Used in Calculation on Project Contribution

Annual		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20
		Naphthalene	Phenanthren	Anthracene	Fluoranthen	Pyrene	Benzo(a)pyr	Benzene	Toluene	Ethylbenzen	Xylenes (Tot	Acenaphthy	Acenaphthe	Fluorene	Chrysene	Benzo(a)ant	Benzo(b)fluo	Benzo(k)fluo	Dibenzo(a,h)	Indeno(1,2,3	Benzo(g,h,i)perylene
Maximum Value		**0.00E+00**	**8.00E-05**	**2.50E-04**	**9.60E-04**	**1.60E-04**	**1.50E-04**	**0.00E+00**	**0.00E+00**	**0.00E+00**	**1.00E-05**	**3.00E-05**	**1.00E-05**	**1.00E-05**	**8.00E-05**	**7.00E-05**	**1.50E-04**	**7.00E-05**	**3.00E-05**	**6.00E-05**	**7.00E-05**
ASR_ID	**mAG**																				
KT-A1	1.5	0.00E+00	2.00E-05	6.00E-05	2.50E-04	6.00E-05	6.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	3.00E-05	3.00E-05	6.00E-05	3.00E-05	1.00E-05	2.00E-05	3.00E-05
KT-A1a	4	0.00E+00	2.00E-05	6.00E-05	2.40E-04	6.00E-05	5.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	3.00E-05	2.00E-05	6.00E-05	3.00E-05	1.00E-05	2.00E-05	2.00E-05
KT-A1b	8	0.00E+00	2.00E-05	5.00E-05	1.80E-04	4.00E-05	4.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	2.00E-05	2.00E-05	4.00E-05	2.00E-05	1.00E-05	1.00E-05	2.00E-05
KT-A1c	12	0.00E+00	1.00E-05	2.00E-05	7.00E-05	3.00E-05	3.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	3.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A1d	16	0.00E+00	0.00E+00	1.00E-05	3.00E-05	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	2.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A1e	20	0.00E+00	0.00E+00	0.00E+00	2.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	1.00E-05
KT-A1f	30	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A1g	40	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A1h	50	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A1i	60	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A1j	70	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A1k	80	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A1l	90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A1m	100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2	1.5	0.00E+00	4.00E-05	1.10E-04	4.30E-04	1.00E-04	1.00E-04	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05	0.00E+00	1.00E-05	5.00E-05	4.00E-05	1.00E-04	5.00E-05	2.00E-05	4.00E-05	5.00E-05
KT-A2a	4	0.00E+00	4.00E-05	9.00E-05	3.60E-04	9.00E-05	8.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05	0.00E+00	1.00E-05	4.00E-05	4.00E-05	9.00E-05	4.00E-05	2.00E-05	3.00E-05	4.00E-05
KT-A2b	8	0.00E+00	3.00E-05	7.00E-05	2.60E-04	6.00E-05	6.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	3.00E-05	3.00E-05	6.00E-05	3.00E-05	1.00E-05	2.00E-05	3.00E-05
KT-A2c	12	0.00E+00	1.00E-05	3.00E-05	1.20E-04	4.00E-05	4.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	2.00E-05	2.00E-05	4.00E-05	2.00E-05	1.00E-05	1.00E-05	2.00E-05
KT-A2d	16	0.00E+00	1.00E-05	1.00E-05	5.00E-05	3.00E-05	3.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	3.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A2e	20	0.00E+00	0.00E+00	1.00E-05	3.00E-05	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	2.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A2f	30	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2g	40	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2h	50	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2i	60	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2j	70	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2k	80	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2l	90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2m	100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2n	110	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2o	120	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2p	130	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2q	140	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2r	150	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2s	160	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2t	170	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2u	180	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A3	1.5	0.00E+00	2.00E-05	6.00E-05	2.20E-04	3.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	3.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A3a	4	0.00E+00	2.00E-05	6.00E-05	2.10E-04	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	2.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A3b	8	0.00E+00	1.00E-05	4.00E-05	1.50E-04	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	2.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A3c	12	0.00E+00	1.00E-05	2.00E-05	6.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A3d	16	0.00E+00	0.00E+00	1.00E-05	3.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A3e	20	0.00E+00	0.00E+00	0.00E+00	2.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A3f	30	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A3g	40	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A3h	50	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A3i	60	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A3j	70	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A3k	80	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A3l	90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A3m	100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4	1.5	0.00E+00	2.00E-05	6.00E-05	2.10E-04	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	2.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A4a	4	0.00E+00	1.00E-05	5.00E-05	1.90E-04	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	2.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A4b	8	0.00E+00	1.00E-05	4.00E-05	1.40E-04	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A4c	12	0.00E+00	1.00E-05	2.00E-05	8.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	1.00E-05
KT-A4d	16	0.00E+00	0.00E+00	1.00E-05	4.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4e	20	0.00E+00	0.00E+00	1.00E-05	3.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00

AERMOD Model Results on Hydrocarbons (HC) **Option A, Part 1** **Annual** = Used in Calculation on Project Contribution

Annual		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20
		Naphthalene	Phenanthren	Anthracene	Fluoranthen	Pyrene	Benzo(a)pyr	Benzene	Toluene	Ethylbenzen	Xylenes (Tot	Acenaphthy	Acenaphthe	Fluorene	Chrysene	Benzo(a)ant	Benzo(b)fluo	Benzo(k)fluo	Dibenzo(a,h)	Indeno(1,2,3	Benzo(g,h,i)perylene
Maximum Value		0.00E+00	8.00E-05	2.50E-04	9.60E-04	1.60E-04	1.50E-04	0.00E+00	0.00E+00	0.00E+00	1.00E-05	3.00E-05	1.00E-05	1.00E-05	8.00E-05	7.00E-05	1.50E-04	7.00E-05	3.00E-05	6.00E-05	7.00E-05
ASR_ID	mAG																				
KT-A4f	30	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4g	40	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4h	50	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4i	60	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4j	70	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4k	80	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4l	90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4m	100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4n	110	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4o	120	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A5	1.5	0.00E+00	1.00E-05	5.00E-05	1.60E-04	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A5a	4	0.00E+00	1.00E-05	5.00E-05	1.60E-04	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	1.00E-05
KT-A5b	8	0.00E+00	1.00E-05	4.00E-05	1.40E-04	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05
KT-A5c	12	0.00E+00	1.00E-05	3.00E-05	1.20E-04	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A5d	16	0.00E+00	1.00E-05	3.00E-05	9.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A5e	20	0.00E+00	1.00E-05	2.00E-05	7.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A6	1.5	0.00E+00	2.00E-05	8.00E-05	2.70E-04	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	2.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A6a	4	0.00E+00	2.00E-05	7.00E-05	2.60E-04	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	2.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A6b	8	0.00E+00	2.00E-05	6.00E-05	2.10E-04	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	2.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A6c	12	0.00E+00	1.00E-05	4.00E-05	1.50E-04	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	2.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A7	1.5	0.00E+00	1.00E-05	4.00E-05	1.30E-04	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	1.00E-05
KT-A7a	4	0.00E+00	1.00E-05	3.00E-05	1.30E-04	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A7b	8	0.00E+00	1.00E-05	3.00E-05	1.00E-04	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A7c	12	0.00E+00	1.00E-05	2.00E-05	6.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A7d	16	0.00E+00	0.00E+00	1.00E-05	4.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A7e	20	0.00E+00	0.00E+00	1.00E-05	2.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A8	1.5	0.00E+00	1.00E-05	4.00E-05	1.30E-04	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05
KT-A8a	4	0.00E+00	1.00E-05	4.00E-05	1.30E-04	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05
KT-A8b	8	0.00E+00	1.00E-05	4.00E-05	1.40E-04	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05
KT-A8c	12	0.00E+00	1.00E-05	4.00E-05	1.20E-04	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A8d	16	0.00E+00	1.00E-05	3.00E-05	1.10E-04	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A8e	20	0.00E+00	1.00E-05	3.00E-05	9.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A8f	30	0.00E+00	0.00E+00	1.00E-05	4.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A8g	40	0.00E+00	0.00E+00	1.00E-05	2.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A8h	50	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A8i	60	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A8j	70	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A8k	80	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A8l	90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A8m	100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A9	1.5	0.00E+00	2.00E-05	6.00E-05	2.00E-04	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	2.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A9a	4	0.00E+00	2.00E-05	6.00E-05	2.00E-04	2.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	2.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A9b	8	0.00E+00	1.00E-05	5.00E-05	1.70E-04	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A10	1.5	0.00E+00	1.00E-05	4.00E-05	1.40E-04	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	2.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A10a	4	0.00E+00	1.00E-05	4.00E-05	1.30E-04	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	2.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A10b	8	0.00E+00	1.00E-05	3.00E-05	1.00E-04	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	2.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A10c	12	0.00E+00	0.00E+00	1.00E-05	5.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	1.00E-05
KT-A10d	16	0.00E+00	0.00E+00	1.00E-05	2.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10e	20	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10f	30	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10g	40	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10h	50	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10i	60	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10j	70	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10k	80	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10l	90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

AERMOD Model Results on Hydrocarbons (HC) **Option A, Part 1** **Annual** = Used in Calculation on Project Contribution

Annual		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20
		Naphthalene	Phenanthren	Anthracene	Fluoranthen	Pyrene	Benzo(a)pyr	Benzene	Toluene	Ethylbenzen	Xylenes (Tot	Acenaphthy	Acenaphthe	Fluorene	Chrysene	Benzo(a)ant	Benzo(b)fluo	Benzo(k)fluo	Dibenzo(a,h)	Indeno(1,2,3	Benzo(g,h,i)perylene
Maximum Value		**0.00E+00**	**8.00E-05**	**2.50E-04**	**9.60E-04**	**1.60E-04**	**1.50E-04**	**0.00E+00**	**0.00E+00**	**0.00E+00**	**1.00E-05**	**3.00E-05**	**1.00E-05**	**1.00E-05**	**8.00E-05**	**7.00E-05**	**1.50E-04**	**7.00E-05**	**3.00E-05**	**6.00E-05**	**7.00E-05**
ASR_ID	**mAG**																				
KT-A10m	100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10n	110	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10o	120	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10p	130	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10q	140	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
P01	1.5	0.00E+00	6.00E-05	1.90E-04	7.00E-04	8.00E-05	8.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	4.00E-05	3.00E-05	8.00E-05	4.00E-05	1.00E-05	3.00E-05	4.00E-05
P02	1.5	0.00E+00	5.00E-05	1.60E-04	6.10E-04	7.00E-05	6.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	3.00E-05	3.00E-05	7.00E-05	3.00E-05	1.00E-05	2.00E-05	3.00E-05
P03	1.5	0.00E+00	6.00E-05	1.80E-04	6.90E-04	8.00E-05	8.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05	0.00E+00	0.00E+00	4.00E-05	4.00E-05	8.00E-05	4.00E-05	2.00E-05	3.00E-05	4.00E-05
P04	1.5	0.00E+00	5.00E-05	1.60E-04	6.10E-04	7.00E-05	6.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	3.00E-05	3.00E-05	7.00E-05	3.00E-05	1.00E-05	2.00E-05	3.00E-05
P10	1.5	0.00E+00	6.00E-05	1.80E-04	7.00E-04	1.40E-04	1.40E-04	0.00E+00	0.00E+00	0.00E+00	1.00E-05	3.00E-05	1.00E-05	1.00E-05	7.00E-05	6.00E-05	1.40E-04	7.00E-05	3.00E-05	5.00E-05	6.00E-05
P11	1.5	0.00E+00	7.00E-05	2.20E-04	8.30E-04	1.20E-04	1.20E-04	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05	1.00E-05	1.00E-05	6.00E-05	5.00E-05	1.20E-04	6.00E-05	2.00E-05	4.00E-05	5.00E-05
P12	1.5	0.00E+00	8.00E-05	2.50E-04	9.60E-04	1.60E-04	1.50E-04	0.00E+00	0.00E+00	0.00E+00	1.00E-05	3.00E-05	1.00E-05	1.00E-05	8.00E-05	7.00E-05	1.50E-04	7.00E-05	3.00E-05	6.00E-05	7.00E-05
P13	1.5	0.00E+00	7.00E-05	2.10E-04	8.10E-04	1.40E-04	1.40E-04	0.00E+00	0.00E+00	0.00E+00	1.00E-05	3.00E-05	1.00E-05	1.00E-05	7.00E-05	6.00E-05	1.40E-04	7.00E-05	3.00E-05	5.00E-05	6.00E-05
P14	1.5	0.00E+00	4.00E-05	1.10E-04	4.30E-04	8.00E-05	7.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	4.00E-05	3.00E-05	8.00E-05	4.00E-05	1.00E-05	3.00E-05	3.00E-05
P15	1.5	0.00E+00	4.00E-05	1.30E-04	4.80E-04	7.00E-05	7.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	4.00E-05	3.00E-05	7.00E-05	3.00E-05	1.00E-05	2.00E-05	3.00E-05
P16	1.5	0.00E+00	5.00E-05	1.60E-04	6.10E-04	8.00E-05	8.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05	0.00E+00	0.00E+00	4.00E-05	4.00E-05	8.00E-05	4.00E-05	1.00E-05	3.00E-05	4.00E-05

AERMOD Model Results on Hydrocarbons (HC) **Option A, Part 2** **Annual** = Used in Calculation on Project Contribution

Annual		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20
		Naphthalene	Phenanthrer	Anthracene	Fluoranthen	Pyrene	Benzo(a)pyr	Benzene	Toluene	Ethylbenzen	Xylenes (Tot	Acenaphthy	Acenaphthe	Fluorene	Chrysene	Benzo(a)ant	Benzo(b)fluo	Benzo(k)fluo	Dibenzo(a,h)	Indeno(1,2,3	Benzo(g,h,i)perylene
Maximum Value		**1.00E-05**	**1.40E-04**	**2.10E-04**	**5.50E-04**	**2.40E-04**	**2.00E-04**	**1.00E-05**	**1.00E-05**	**1.00E-05**	**2.00E-05**	**4.00E-05**	**1.00E-05**	**2.00E-05**	**1.20E-04**	**1.60E-04**	**1.70E-04**	**1.50E-04**	**5.00E-05**	**9.00E-05**	**1.20E-04**
ASR_ID	**mAG**																				
KT-A1	1.5	0.00E+00	1.00E-05	2.00E-05	7.00E-05	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A1a	4	0.00E+00	1.00E-05	2.00E-05	6.00E-05	2.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A1b	8	0.00E+00	1.00E-05	2.00E-05	5.00E-05	2.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A1c	12	0.00E+00	1.00E-05	1.00E-05	3.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A1d	16	0.00E+00	1.00E-05	1.00E-05	2.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	1.00E-05
KT-A1e	20	0.00E+00	1.00E-05	0.00E+00	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	1.00E-05
KT-A1f	30	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A1g	40	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A1h	50	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A1i	60	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A1j	70	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A1k	80	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A1l	90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A1m	100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2	1.5	0.00E+00	2.00E-05	3.00E-05	7.00E-05	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	2.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05
KT-A2a	4	0.00E+00	1.00E-05	2.00E-05	6.00E-05	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A2b	8	0.00E+00	1.00E-05	2.00E-05	5.00E-05	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A2c	12	0.00E+00	1.00E-05	1.00E-05	4.00E-05	2.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A2d	16	0.00E+00	1.00E-05	1.00E-05	3.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A2e	20	0.00E+00	1.00E-05	1.00E-05	2.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	1.00E-05
KT-A2f	30	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00
KT-A2g	40	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2h	50	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2i	60	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2j	70	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2k	80	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2l	90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2m	100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2n	110	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2o	120	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2p	130	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2q	140	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2r	150	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2s	160	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2t	170	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2u	180	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A3	1.5	0.00E+00	2.00E-05	3.00E-05	7.00E-05	3.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05	2.00E-05	2.00E-05	1.00E-05	1.00E-05	1.00E-05
KT-A3a	4	0.00E+00	2.00E-05	2.00E-05	7.00E-05	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05	2.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05
KT-A3b	8	0.00E+00	1.00E-05	2.00E-05	5.00E-05	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A3c	12	0.00E+00	1.00E-05	1.00E-05	3.00E-05	2.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A3d	16	0.00E+00	1.00E-05	1.00E-05	2.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A3e	20	0.00E+00	1.00E-05	0.00E+00	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	1.00E-05
KT-A3f	30	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A3g	40	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A3h	50	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A3i	60	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A3j	70	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A3k	80	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A3l	90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A3m	100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4	1.5	0.00E+00	4.00E-05	6.00E-05	1.50E-04	5.00E-05	5.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	1.00E-05	3.00E-05	4.00E-05	4.00E-05	3.00E-05	1.00E-05	2.00E-05	3.00E-05
KT-A4a	4	0.00E+00	4.00E-05	6.00E-05	1.70E-04	5.00E-05	4.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	2.00E-05	3.00E-05	3.00E-05	3.00E-05	1.00E-05	2.00E-05	2.00E-05
KT-A4b	8	0.00E+00	3.00E-05	4.00E-05	1.10E-04	3.00E-05	3.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	2.00E-05	2.00E-05	2.00E-05	2.00E-05	1.00E-05	1.00E-05	2.00E-05
KT-A4c	12	0.00E+00	1.00E-05	1.00E-05	4.00E-05	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	2.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05
KT-A4d	16	0.00E+00	1.00E-05	1.00E-05	2.00E-05	2.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A4e	20	0.00E+00	1.00E-05	0.00E+00	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	1.00E-05

AERMOD Model Results on Hydrocarbons (HC) **Option A, Part 2** **Annual** = Used in Calculation on Project Contribution

Annual		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20
		Naphthalene	Phenanthren	Anthracene	Fluoranthen	Pyrene	Benzo(a)pyr	Benzene	Toluene	Ethylbenzen	Xylenes (Tot	Acenaphthy	Acenaphthe	Fluorene	Chrysene	Benzo(a)ant	Benzo(b)fluo	Benzo(k)fluo	Dibenzo(a,h)	Indeno(1,2,3	Benzo(g,h,i)perylene
Maximum Value		1.00E-05	1.40E-04	2.10E-04	5.50E-04	2.40E-04	2.00E-04	1.00E-05	1.00E-05	1.00E-05	2.00E-05	4.00E-05	1.00E-05	2.00E-05	1.20E-04	1.60E-04	1.70E-04	1.50E-04	5.00E-05	9.00E-05	1.20E-04
ASR_ID	mAG																				
KT-A4f	30	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4g	40	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4h	50	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4i	60	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4j	70	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4k	80	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4l	90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4m	100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4n	110	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4o	120	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A5	1.5	0.00E+00	4.00E-05	8.00E-05	2.00E-04	4.00E-05	3.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	2.00E-05	2.00E-05	3.00E-05	2.00E-05	1.00E-05	1.00E-05	2.00E-05
KT-A5a	4	0.00E+00	4.00E-05	8.00E-05	2.00E-04	4.00E-05	3.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	2.00E-05	2.00E-05	3.00E-05	2.00E-05	1.00E-05	1.00E-05	2.00E-05
KT-A5b	8	0.00E+00	3.00E-05	7.00E-05	1.70E-04	3.00E-05	3.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	2.00E-05	2.00E-05	2.00E-05	2.00E-05	1.00E-05	1.00E-05	2.00E-05
KT-A5c	12	0.00E+00	3.00E-05	5.00E-05	1.40E-04	3.00E-05	3.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	2.00E-05	2.00E-05	2.00E-05	2.00E-05	1.00E-05	1.00E-05	2.00E-05
KT-A5d	16	0.00E+00	2.00E-05	4.00E-05	1.00E-04	3.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05	2.00E-05	2.00E-05	1.00E-05	1.00E-05	1.00E-05
KT-A5e	20	0.00E+00	2.00E-05	2.00E-05	6.00E-05	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05	2.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05
KT-A6	1.5	0.00E+00	1.10E-04	2.10E-04	5.50E-04	1.20E-04	1.00E-04	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05	0.00E+00	1.00E-05	6.00E-05	8.00E-05	9.00E-05	7.00E-05	3.00E-05	5.00E-05	6.00E-05
KT-A6a	4	0.00E+00	1.10E-04	2.10E-04	5.40E-04	1.10E-04	9.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05	0.00E+00	1.00E-05	5.00E-05	7.00E-05	8.00E-05	7.00E-05	2.00E-05	4.00E-05	6.00E-05
KT-A6b	8	0.00E+00	7.00E-05	1.40E-04	3.60E-04	8.00E-05	7.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	1.00E-05	4.00E-05	5.00E-05	6.00E-05	5.00E-05	2.00E-05	3.00E-05	4.00E-05
KT-A6c	12	0.00E+00	4.00E-05	7.00E-05	1.80E-04	6.00E-05	5.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	1.00E-05	3.00E-05	4.00E-05	4.00E-05	3.00E-05	1.00E-05	2.00E-05	3.00E-05
KT-A7	1.5	0.00E+00	2.00E-05	4.00E-05	1.10E-04	3.00E-05	3.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	2.00E-05	2.00E-05	2.00E-05	2.00E-05	1.00E-05	1.00E-05	2.00E-05
KT-A7a	4	0.00E+00	3.00E-05	5.00E-05	1.30E-04	3.00E-05	3.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	2.00E-05	2.00E-05	2.00E-05	2.00E-05	1.00E-05	1.00E-05	2.00E-05
KT-A7b	8	0.00E+00	2.00E-05	4.00E-05	1.00E-04	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05	2.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05
KT-A7c	12	0.00E+00	1.00E-05	1.00E-05	4.00E-05	2.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A7d	16	0.00E+00	1.00E-05	1.00E-05	2.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	1.00E-05
KT-A7e	20	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	1.00E-05
KT-A8	1.5	0.00E+00	2.00E-05	5.00E-05	1.20E-04	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05	2.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05
KT-A8a	4	0.00E+00	3.00E-05	5.00E-05	1.30E-04	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05	2.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05
KT-A8b	8	0.00E+00	3.00E-05	5.00E-05	1.30E-04	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05	2.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05
KT-A8c	12	0.00E+00	2.00E-05	5.00E-05	1.20E-04	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05	2.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05
KT-A8d	16	0.00E+00	2.00E-05	4.00E-05	1.00E-04	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05	2.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05
KT-A8e	20	0.00E+00	2.00E-05	3.00E-05	8.00E-05	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A8f	30	0.00E+00	1.00E-05	1.00E-05	4.00E-05	2.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A8g	40	0.00E+00	1.00E-05	1.00E-05	2.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	1.00E-05
KT-A8h	50	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A8i	60	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A8j	70	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A8k	80	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A8l	90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A8m	100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A9	1.5	0.00E+00	6.00E-05	1.30E-04	3.30E-04	6.00E-05	5.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	1.00E-05	3.00E-05	4.00E-05	5.00E-05	4.00E-05	1.00E-05	2.00E-05	3.00E-05
KT-A9a	4	0.00E+00	6.00E-05	1.20E-04	3.20E-04	6.00E-05	5.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	1.00E-05	3.00E-05	4.00E-05	4.00E-05	4.00E-05	1.00E-05	2.00E-05	3.00E-05
KT-A9b	8	0.00E+00	5.00E-05	1.00E-04	2.60E-04	5.00E-05	4.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	1.00E-05	3.00E-05	4.00E-05	4.00E-05	3.00E-05	1.00E-05	2.00E-05	3.00E-05
KT-A10	1.5	0.00E+00	1.00E-05	2.00E-05	5.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A10a	4	0.00E+00	1.00E-05	2.00E-05	4.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	1.00E-05
KT-A10b	8	0.00E+00	1.00E-05	1.00E-05	3.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	1.00E-05
KT-A10c	12	0.00E+00	1.00E-05	1.00E-05	2.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	1.00E-05
KT-A10d	16	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00
KT-A10e	20	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10f	30	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10g	40	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10h	50	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10i	60	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10j	70	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10k	80	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10l	90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

AERMOD Model Results on Hydrocarbons (HC) **Option A, Part 2** **Annual** = Used in Calculation on Project Contribution

Annual		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20
		Naphthalene	Phenanthren	Anthracene	Fluoranthen	Pyrene	Benzo(a)pyr	Benzene	Toluene	Ethylbenzen	Xylenes (Tot	Acenaphthy	Acenaphthe	Fluorene	Chrysene	Benzo(a)ant	Benzo(b)fluo	Benzo(k)fluo	Dibenzo(a,h)	Indeno(1,2,3	Benzo(g,h,i)perylene
Maximum Value		**1.00E-05**	**1.40E-04**	**2.10E-04**	**5.50E-04**	**2.40E-04**	**2.00E-04**	**1.00E-05**	**1.00E-05**	**1.00E-05**	**2.00E-05**	**4.00E-05**	**1.00E-05**	**2.00E-05**	**1.20E-04**	**1.60E-04**	**1.70E-04**	**1.50E-04**	**5.00E-05**	**9.00E-05**	**1.20E-04**
ASR_ID	**mAG**																				
KT-A10m	100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10n	110	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10o	120	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10p	130	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10q	140	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
P01	1.5	1.00E-05	1.40E-04	1.60E-04	4.80E-04	2.40E-04	2.00E-04	1.00E-05	1.00E-05	1.00E-05	2.00E-05	4.00E-05	1.00E-05	2.00E-05	1.20E-04	1.60E-04	1.70E-04	1.50E-04	5.00E-05	9.00E-05	1.20E-04
P02	1.5	0.00E+00	1.00E-04	1.20E-04	3.60E-04	1.80E-04	1.50E-04	0.00E+00	0.00E+00	1.00E-05	2.00E-05	3.00E-05	1.00E-05	2.00E-05	9.00E-05	1.20E-04	1.20E-04	1.10E-04	4.00E-05	7.00E-05	9.00E-05
P03	1.5	0.00E+00	1.00E-04	1.10E-04	3.20E-04	1.70E-04	1.40E-04	0.00E+00	0.00E+00	1.00E-05	2.00E-05	3.00E-05	1.00E-05	2.00E-05	8.00E-05	1.10E-04	1.20E-04	1.00E-04	4.00E-05	6.00E-05	9.00E-05
P04	1.5	0.00E+00	9.00E-05	1.00E-04	2.90E-04	1.50E-04	1.30E-04	0.00E+00	0.00E+00	1.00E-05	1.00E-05	3.00E-05	1.00E-05	2.00E-05	8.00E-05	1.00E-04	1.00E-04	9.00E-05	3.00E-05	6.00E-05	8.00E-05
P10	1.5	0.00E+00	3.00E-05	4.00E-05	1.20E-04	4.00E-05	4.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	2.00E-05	3.00E-05	3.00E-05	3.00E-05	1.00E-05	2.00E-05	2.00E-05
P11	1.5	0.00E+00	7.00E-05	9.00E-05	2.60E-04	1.30E-04	1.10E-04	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05	0.00E+00	1.00E-05	6.00E-05	8.00E-05	9.00E-05	8.00E-05	3.00E-05	5.00E-05	6.00E-05
P12	1.5	0.00E+00	6.00E-05	8.00E-05	2.20E-04	1.00E-04	8.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05	0.00E+00	1.00E-05	5.00E-05	6.00E-05	7.00E-05	6.00E-05	2.00E-05	4.00E-05	5.00E-05
P13	1.5	0.00E+00	4.00E-05	5.00E-05	1.50E-04	6.00E-05	5.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	1.00E-05	3.00E-05	4.00E-05	4.00E-05	4.00E-05	1.00E-05	2.00E-05	3.00E-05
P14	1.5	0.00E+00	3.00E-05	4.00E-05	1.00E-04	4.00E-05	3.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	2.00E-05	3.00E-05	3.00E-05	2.00E-05	1.00E-05	1.00E-05	2.00E-05
P15	1.5	0.00E+00	4.00E-05	5.00E-05	1.40E-04	6.00E-05	5.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	1.00E-05	3.00E-05	4.00E-05	4.00E-05	3.00E-05	1.00E-05	2.00E-05	3.00E-05
P16	1.5	0.00E+00	5.00E-05	7.00E-05	1.90E-04	9.00E-05	7.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05	0.00E+00	1.00E-05	4.00E-05	6.00E-05	6.00E-05	5.00E-05	2.00E-05	3.00E-05	4.00E-05

AERMOD Model Results on Hydrocarbons (HC) **Option A, Part 3** **Annual** = Used in Calculation on Project Contribution

Annual		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20
		Naphthalene	Phenanthren	Anthracene	Fluoranthen	Pyrene	Benzo(a)pyr	Benzene	Toluene	Ethylbenzen	Xylenes (Tot	Acenaphthy	Acenaphthe	Fluorene	Chrysene	Benzo(a)ant	Benzo(b)fluo	Benzo(k)fluo	Dibenzo(a,h)	Indeno(1,2,3	Benzo(g,h,i)perylene
Maximum Value		**0.00E+00**	**3.00E-05**	**1.30E-04**	**1.50E-04**	**1.00E-05**	**1.00E-05**	**0.00E+00**	**0.00E+00**	**1.00E-05**	**1.00E-05**	**0.00E+00**	**0.00E+00**	**0.00E+00**	**1.00E-05**	**1.00E-05**	**2.00E-05**	**1.00E-05**	**1.00E-05**	**1.00E-05**	**1.00E-05**
ASR_ID	**mAG**																				
KT-A1	1.5	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A1a	4	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A1b	8	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A1c	12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A1d	16	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A1e	20	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A1f	30	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A1g	40	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A1h	50	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A1i	60	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A1j	70	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A1k	80	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A1l	90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A1m	100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2	1.5	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2a	4	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2b	8	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2c	12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2d	16	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2e	20	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2f	30	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2g	40	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2h	50	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2i	60	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2j	70	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2k	80	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2l	90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2m	100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2n	110	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2o	120	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2p	130	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2q	140	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2r	150	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2s	160	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2t	170	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2u	180	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A3	1.5	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A3a	4	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A3b	8	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A3c	12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A3d	16	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A3e	20	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A3f	30	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A3g	40	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A3h	50	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A3i	60	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A3j	70	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A3k	80	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A3l	90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A3m	100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4	1.5	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4a	4	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4b	8	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4c	12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4d	16	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4e	20	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

AERMOD Model Results on Hydrocarbons (HC) **Option A, Part 3** **Annual** = Used in Calculation on Project Contribution

Annual		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20
		Naphthalene	Phenanthren	Anthracene	Fluoranthen	Pyrene	Benzo(a)pyr	Benzene	Toluene	Ethylbenzen	Xylenes (Tot	Acenaphthy	Acenaphthe	Fluorene	Chrysene	Benzo(a)ant	Benzo(b)fluo	Benzo(k)fluo	Dibenzo(a,h)	Indeno(1,2,3	Benzo(g,h,i)perylene
Maximum Value		0.00E+00	3.00E-05	1.30E-04	1.50E-04	1.00E-05	1.00E-05	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	2.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05
ASR_ID	mAG																				
KT-A4f	30	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4g	40	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4h	50	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4i	60	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4j	70	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4k	80	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4l	90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4m	100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4n	110	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4o	120	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A5	1.5	0.00E+00	2.00E-05	8.00E-05	9.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	1.00E-05	1.00E-05
KT-A5a	4	0.00E+00	2.00E-05	8.00E-05	9.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	1.00E-05	1.00E-05
KT-A5b	8	0.00E+00	1.00E-05	5.00E-05	6.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A5c	12	0.00E+00	1.00E-05	3.00E-05	3.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A5d	16	0.00E+00	0.00E+00	1.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A5e	20	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A6	1.5	0.00E+00	2.00E-05	7.00E-05	8.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05
KT-A6a	4	0.00E+00	3.00E-05	1.00E-04	1.10E-04	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05
KT-A6b	8	0.00E+00	1.00E-05	4.00E-05	5.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	1.00E-05	1.00E-05
KT-A6c	12	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A7	1.5	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A7a	4	0.00E+00	0.00E+00	1.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A7b	8	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A7c	12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A7d	16	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A7e	20	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A8	1.5	0.00E+00	1.00E-05	4.00E-05	5.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A8a	4	0.00E+00	1.00E-05	4.00E-05	5.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A8b	8	0.00E+00	1.00E-05	4.00E-05	5.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A8c	12	0.00E+00	1.00E-05	4.00E-05	4.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A8d	16	0.00E+00	1.00E-05	3.00E-05	3.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A8e	20	0.00E+00	0.00E+00	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A8f	30	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A8g	40	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A8h	50	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A8i	60	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A8j	70	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A8k	80	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A8l	90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A8m	100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A9	1.5	0.00E+00	3.00E-05	1.10E-04	1.30E-04	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	2.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05
KT-A9a	4	0.00E+00	3.00E-05	1.30E-04	1.50E-04	1.00E-05	1.00E-05	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05
KT-A9b	8	0.00E+00	2.00E-05	6.00E-05	7.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	1.00E-05	1.00E-05
KT-A10	1.5	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10a	4	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10b	8	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10c	12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10d	16	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10e	20	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10f	30	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10g	40	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10h	50	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10i	60	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10j	70	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10k	80	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10l	90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

AERMOD Model Results on Hydrocarbons (HC) **Option A, Part 3** **Annual** = Used in Calculation on Project Contribution

Annual		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20
		Naphthalene	Phenanthren	Anthracene	Fluoranthen	Pyrene	Benzo(a)pyr	Benzene	Toluene	Ethylbenzen	Xylenes (Tot	Acenaphthy	Acenaphthe	Fluorene	Chrysene	Benzo(a)ant	Benzo(b)fluo	Benzo(k)fluo	Dibenzo(a,h)	Indeno(1,2,3	Benzo(g,h,i)perylene
Maximum Value		**0.00E+00**	**3.00E-05**	**1.30E-04**	**1.50E-04**	**1.00E-05**	**1.00E-05**	**0.00E+00**	**0.00E+00**	**1.00E-05**	**1.00E-05**	**0.00E+00**	**0.00E+00**	**0.00E+00**	**1.00E-05**	**1.00E-05**	**2.00E-05**	**1.00E-05**	**1.00E-05**	**1.00E-05**	**1.00E-05**
ASR_ID	**mAG**																				
KT-A10m	100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10n	110	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10o	120	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10p	130	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10q	140	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
P01	1.5	0.00E+00	1.00E-05	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
P02	1.5	0.00E+00	1.00E-05	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
P03	1.5	0.00E+00	0.00E+00	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
P04	1.5	0.00E+00	0.00E+00	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
P10	1.5	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
P11	1.5	0.00E+00	0.00E+00	1.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
P12	1.5	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
P13	1.5	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
P14	1.5	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
P15	1.5	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
P16	1.5	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

AERMOD Model Results on Hydrocarbons (HC) **Option B, Part 1** **Annual** = Used in Calculation on Project Contribution

Annual		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20
		Naphthalene	Phenanthren	Anthracene	Fluoranthen	Pyrene	Benzo(a)pyr	Benzene	Toluene	Ethylbenzen	Xylenes (Tot	Acenaphthy	Acenaphthe	Fluorene	Chrysene	Benzo(a)ant	Benzo(b)fluo	Benzo(k)fluo	Dibenzo(a,h)	Indeno(1,2,3	Benzo(g,h,i)perylene
Maximum Value		**0.00E+00**	**8.00E-05**	**2.60E-04**	**9.60E-04**	**1.40E-04**	**1.30E-04**	**0.00E+00**	**0.00E+00**	**1.00E-05**	**1.00E-05**	**3.00E-05**	**1.00E-05**	**1.00E-05**	**7.00E-05**	**6.00E-05**	**1.40E-04**	**6.00E-05**	**3.00E-05**	**5.00E-05**	**6.00E-05**
ASR_ID	**mAG**																				
KT-A1	1.5	0.00E+00	2.00E-05	7.00E-05	2.50E-04	5.00E-05	5.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	3.00E-05	2.00E-05	5.00E-05	2.00E-05	1.00E-05	2.00E-05	2.00E-05
KT-A1a	4	0.00E+00	2.00E-05	6.00E-05	2.40E-04	5.00E-05	5.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	3.00E-05	2.00E-05	5.00E-05	2.00E-05	1.00E-05	2.00E-05	2.00E-05
KT-A1b	8	0.00E+00	2.00E-05	5.00E-05	1.80E-04	3.00E-05	3.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	2.00E-05	2.00E-05	3.00E-05	2.00E-05	1.00E-05	1.00E-05	2.00E-05
KT-A1c	12	0.00E+00	1.00E-05	2.00E-05	7.00E-05	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	2.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A1d	16	0.00E+00	0.00E+00	1.00E-05	3.00E-05	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	2.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A1e	20	0.00E+00	0.00E+00	1.00E-05	2.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	1.00E-05
KT-A1f	30	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A1g	40	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A1h	50	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A1i	60	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A1j	70	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A1k	80	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A1l	90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A1m	100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2	1.5	0.00E+00	4.00E-05	1.10E-04	4.20E-04	9.00E-05	9.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05	0.00E+00	1.00E-05	5.00E-05	4.00E-05	9.00E-05	4.00E-05	2.00E-05	3.00E-05	4.00E-05
KT-A2a	4	0.00E+00	3.00E-05	9.00E-05	3.50E-04	8.00E-05	7.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	4.00E-05	3.00E-05	8.00E-05	4.00E-05	1.00E-05	3.00E-05	3.00E-05
KT-A2b	8	0.00E+00	3.00E-05	7.00E-05	2.60E-04	5.00E-05	5.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	3.00E-05	2.00E-05	5.00E-05	2.00E-05	1.00E-05	2.00E-05	2.00E-05
KT-A2c	12	0.00E+00	1.00E-05	3.00E-05	1.20E-04	4.00E-05	3.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	2.00E-05	2.00E-05	4.00E-05	2.00E-05	1.00E-05	1.00E-05	2.00E-05
KT-A2d	16	0.00E+00	1.00E-05	1.00E-05	5.00E-05	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	2.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A2e	20	0.00E+00	0.00E+00	1.00E-05	3.00E-05	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	2.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A2f	30	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2g	40	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2h	50	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2i	60	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2j	70	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2k	80	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2l	90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2m	100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2n	110	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2o	120	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2p	130	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2q	140	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2r	150	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2s	160	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2t	170	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2u	180	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A3	1.5	0.00E+00	2.00E-05	7.00E-05	2.30E-04	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	2.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A3a	4	0.00E+00	2.00E-05	6.00E-05	2.10E-04	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	2.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A3b	8	0.00E+00	1.00E-05	4.00E-05	1.50E-04	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	2.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A3c	12	0.00E+00	1.00E-05	2.00E-05	6.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	1.00E-05
KT-A3d	16	0.00E+00	0.00E+00	1.00E-05	3.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A3e	20	0.00E+00	0.00E+00	0.00E+00	2.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A3f	30	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A3g	40	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A3h	50	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A3i	60	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A3j	70	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A3k	80	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A3l	90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A3m	100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4	1.5	0.00E+00	2.00E-05	7.00E-05	2.20E-04	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	2.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A4a	4	0.00E+00	2.00E-05	6.00E-05	2.00E-04	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	2.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A4b	8	0.00E+00	1.00E-05	4.00E-05	1.50E-04	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A4c	12	0.00E+00	1.00E-05	2.00E-05	8.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	1.00E-05
KT-A4d	16	0.00E+00	0.00E+00	1.00E-05	4.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4e	20	0.00E+00	0.00E+00	1.00E-05	3.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00

AERMOD Model Results on Hydrocarbons (HC) **Option B, Part 1** **Annual** = Used in Calculation on Project Contribution

Annual		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20
		Naphthalene	Phenanthren	Anthracene	Fluoranthen	Pyrene	Benzo(a)pyr	Benzene	Toluene	Ethylbenzen	Xylenes (Tot	Acenaphthy	Acenaphthe	Fluorene	Chrysene	Benzo(a)ant	Benzo(b)fluo	Benzo(k)fluo	Dibenzo(a,h)	Indeno(1,2,3	Benzo(g,h,i)perylene
Maximum Value		**0.00E+00**	**8.00E-05**	**2.60E-04**	**9.60E-04**	**1.40E-04**	**1.30E-04**	**0.00E+00**	**0.00E+00**	**1.00E-05**	**1.00E-05**	**3.00E-05**	**1.00E-05**	**1.00E-05**	**7.00E-05**	**6.00E-05**	**1.40E-04**	**6.00E-05**	**3.00E-05**	**5.00E-05**	**6.00E-05**
ASR_ID	**mAG**																				
KT-A4f	30	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4g	40	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4h	50	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4i	60	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4j	70	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4k	80	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4l	90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4m	100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4n	110	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4o	120	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A5	1.5	0.00E+00	3.00E-05	1.40E-04	2.50E-04	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	2.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05
KT-A5a	4	0.00E+00	3.00E-05	1.30E-04	2.50E-04	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	2.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05
KT-A5b	8	0.00E+00	2.00E-05	1.00E-04	2.00E-04	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	2.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05
KT-A5c	12	0.00E+00	2.00E-05	6.00E-05	1.50E-04	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A5d	16	0.00E+00	1.00E-05	4.00E-05	1.10E-04	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	1.00E-05	1.00E-05
KT-A5e	20	0.00E+00	1.00E-05	2.00E-05	8.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A6	1.5	0.00E+00	4.00E-05	1.40E-04	3.40E-04	3.00E-05	3.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	1.00E-05	2.00E-05	2.00E-05	3.00E-05	1.00E-05	1.00E-05	2.00E-05	2.00E-05
KT-A6a	4	0.00E+00	4.00E-05	1.70E-04	3.70E-04	3.00E-05	3.00E-05	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	0.00E+00	1.00E-05	2.00E-05	1.00E-05	3.00E-05	1.00E-05	1.00E-05	2.00E-05	2.00E-05
KT-A6b	8	0.00E+00	3.00E-05	1.00E-04	2.60E-04	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	2.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05
KT-A6c	12	0.00E+00	1.00E-05	5.00E-05	1.60E-04	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	2.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A7	1.5	0.00E+00	1.00E-05	5.00E-05	1.40E-04	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A7a	4	0.00E+00	1.00E-05	5.00E-05	1.40E-04	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A7b	8	0.00E+00	1.00E-05	4.00E-05	1.10E-04	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05
KT-A7c	12	0.00E+00	1.00E-05	2.00E-05	6.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A7d	16	0.00E+00	0.00E+00	1.00E-05	4.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A7e	20	0.00E+00	0.00E+00	1.00E-05	2.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A8	1.5	0.00E+00	2.00E-05	8.00E-05	1.70E-04	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A8a	4	0.00E+00	2.00E-05	9.00E-05	1.80E-04	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A8b	8	0.00E+00	2.00E-05	9.00E-05	1.80E-04	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A8c	12	0.00E+00	2.00E-05	7.00E-05	1.60E-04	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A8d	16	0.00E+00	2.00E-05	6.00E-05	1.30E-04	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A8e	20	0.00E+00	1.00E-05	4.00E-05	1.00E-04	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A8f	30	0.00E+00	1.00E-05	2.00E-05	5.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A8g	40	0.00E+00	0.00E+00	1.00E-05	2.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A8h	50	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A8i	60	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A8j	70	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A8k	80	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A8l	90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A8m	100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A9	1.5	0.00E+00	4.00E-05	1.70E-04	3.30E-04	2.00E-05	2.00E-05	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	2.00E-05	1.00E-05	3.00E-05	1.00E-05	1.00E-05	2.00E-05	2.00E-05
KT-A9a	4	0.00E+00	5.00E-05	1.90E-04	3.50E-04	2.00E-05	2.00E-05	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05	1.00E-05	3.00E-05	1.00E-05	1.00E-05	1.00E-05	2.00E-05
KT-A9b	8	0.00E+00	3.00E-05	1.10E-04	2.40E-04	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	2.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05
KT-A10	1.5	0.00E+00	1.00E-05	4.00E-05	1.50E-04	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	2.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A10a	4	0.00E+00	1.00E-05	4.00E-05	1.40E-04	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	2.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A10b	8	0.00E+00	1.00E-05	3.00E-05	1.00E-04	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	2.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A10c	12	0.00E+00	1.00E-05	1.00E-05	5.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	1.00E-05
KT-A10d	16	0.00E+00	0.00E+00	1.00E-05	2.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10e	20	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10f	30	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10g	40	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10h	50	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10i	60	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10j	70	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10k	80	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10l	90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

AERMOD Model Results on Hydrocarbons (HC) **Option B, Part 1** **Annual** = Used in Calculation on Project Contribution

Annual		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20
		Naphthalene	Phenanthren	Anthracene	Fluoranthen	Pyrene	Benzo(a)pyr	Benzene	Toluene	Ethylbenzen	Xylenes (Tot	Acenaphthy	Acenaphthe	Fluorene	Chrysene	Benzo(a)ant	Benzo(b)fluo	Benzo(k)fluo	Dibenzo(a,h)	Indeno(1,2,3	Benzo(g,h,i)perylene
Maximum Value		**0.00E+00**	**8.00E-05**	**2.60E-04**	**9.60E-04**	**1.40E-04**	**1.30E-04**	**0.00E+00**	**0.00E+00**	**1.00E-05**	**1.00E-05**	**3.00E-05**	**1.00E-05**	**1.00E-05**	**7.00E-05**	**6.00E-05**	**1.40E-04**	**6.00E-05**	**3.00E-05**	**5.00E-05**	**6.00E-05**
ASR_ID	**mAG**																				
KT-A10m	100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10n	110	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10o	120	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10p	130	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10q	140	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
P01	1.5	0.00E+00	6.00E-05	2.00E-04	7.20E-04	7.00E-05	7.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	1.00E-05	4.00E-05	3.00E-05	7.00E-05	3.00E-05	2.00E-05	3.00E-05	3.00E-05
P02	1.5	0.00E+00	5.00E-05	1.80E-04	6.20E-04	6.00E-05	6.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	3.00E-05	3.00E-05	6.00E-05	3.00E-05	1.00E-05	2.00E-05	3.00E-05
P03	1.5	0.00E+00	6.00E-05	2.00E-04	7.00E-04	7.00E-05	7.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	1.00E-05	4.00E-05	3.00E-05	8.00E-05	3.00E-05	1.00E-05	3.00E-05	3.00E-05
P04	1.5	0.00E+00	5.00E-05	1.80E-04	6.20E-04	6.00E-05	6.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	3.00E-05	3.00E-05	6.00E-05	3.00E-05	1.00E-05	2.00E-05	3.00E-05
P10	1.5	0.00E+00	6.00E-05	1.90E-04	7.00E-04	1.30E-04	1.20E-04	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05	1.00E-05	1.00E-05	6.00E-05	5.00E-05	1.20E-04	6.00E-05	2.00E-05	5.00E-05	6.00E-05
P11	1.5	0.00E+00	7.00E-05	2.30E-04	8.30E-04	1.10E-04	1.00E-04	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05	1.00E-05	1.00E-05	6.00E-05	5.00E-05	1.10E-04	5.00E-05	2.00E-05	4.00E-05	5.00E-05
P12	1.5	0.00E+00	8.00E-05	2.60E-04	9.60E-04	1.40E-04	1.30E-04	0.00E+00	0.00E+00	1.00E-05	1.00E-05	3.00E-05	1.00E-05	1.00E-05	7.00E-05	6.00E-05	1.40E-04	6.00E-05	3.00E-05	5.00E-05	6.00E-05
P13	1.5	0.00E+00	7.00E-05	2.20E-04	8.00E-04	1.30E-04	1.20E-04	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05	1.00E-05	1.00E-05	6.00E-05	5.00E-05	1.20E-04	6.00E-05	2.00E-05	5.00E-05	6.00E-05
P14	1.5	0.00E+00	4.00E-05	1.20E-04	4.30E-04	7.00E-05	6.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	3.00E-05	3.00E-05	7.00E-05	3.00E-05	1.00E-05	2.00E-05	3.00E-05
P15	1.5	0.00E+00	4.00E-05	1.30E-04	4.90E-04	6.00E-05	6.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	3.00E-05	3.00E-05	6.00E-05	3.00E-05	1.00E-05	2.00E-05	3.00E-05
P16	1.5	0.00E+00	5.00E-05	1.70E-04	6.10E-04	7.00E-05	7.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	4.00E-05	3.00E-05	7.00E-05	3.00E-05	1.00E-05	3.00E-05	3.00E-05

AERMOD Model Results on Hydrocarbons (HC) **Option B, Part 2** **Annual** = Used in Calculation on Project Contribution

Annual		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20
		Naphthalene	Phenanthrer	Anthracene	Fluoranthen	Pyrene	Benzo(a)pyr	Benzene	Toluene	Ethylbenzen	Xylenes (Tot	Acenaphthy	Acenaphthe	Fluorene	Chrysene	Benzo(a)ant	Benzo(b)fluo	Benzo(k)fluo	Dibenzo(a,h)	Indeno(1,2,3	Benzo(g,h,i)perylene
Maximum Value		**1.00E-05**	**1.40E-04**	**2.10E-04**	**5.50E-04**	**2.40E-04**	**2.00E-04**	**1.00E-05**	**1.00E-05**	**1.00E-05**	**2.00E-05**	**4.00E-05**	**1.00E-05**	**2.00E-05**	**1.20E-04**	**1.60E-04**	**1.70E-04**	**1.50E-04**	**5.00E-05**	**9.00E-05**	**1.20E-04**
ASR_ID	**mAG**																				
KT-A1	1.5	0.00E+00	1.00E-05	2.00E-05	7.00E-05	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A1a	4	0.00E+00	1.00E-05	2.00E-05	6.00E-05	2.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A1b	8	0.00E+00	1.00E-05	2.00E-05	5.00E-05	2.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A1c	12	0.00E+00	1.00E-05	1.00E-05	3.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A1d	16	0.00E+00	1.00E-05	1.00E-05	2.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	1.00E-05
KT-A1e	20	0.00E+00	1.00E-05	0.00E+00	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	1.00E-05
KT-A1f	30	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A1g	40	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A1h	50	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A1i	60	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A1j	70	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A1k	80	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A1l	90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A1m	100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2	1.5	0.00E+00	2.00E-05	3.00E-05	7.00E-05	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	2.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05
KT-A2a	4	0.00E+00	1.00E-05	2.00E-05	6.00E-05	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A2b	8	0.00E+00	1.00E-05	2.00E-05	5.00E-05	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A2c	12	0.00E+00	1.00E-05	1.00E-05	4.00E-05	2.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A2d	16	0.00E+00	1.00E-05	1.00E-05	3.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A2e	20	0.00E+00	1.00E-05	1.00E-05	2.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	1.00E-05
KT-A2f	30	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00
KT-A2g	40	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2h	50	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2i	60	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2j	70	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2k	80	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2l	90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2m	100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2n	110	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2o	120	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2p	130	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2q	140	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2r	150	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2s	160	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2t	170	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2u	180	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A3	1.5	0.00E+00	2.00E-05	3.00E-05	7.00E-05	3.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05	2.00E-05	2.00E-05	1.00E-05	1.00E-05	1.00E-05
KT-A3a	4	0.00E+00	2.00E-05	2.00E-05	7.00E-05	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05	2.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05
KT-A3b	8	0.00E+00	1.00E-05	2.00E-05	5.00E-05	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A3c	12	0.00E+00	1.00E-05	1.00E-05	3.00E-05	2.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A3d	16	0.00E+00	1.00E-05	1.00E-05	2.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A3e	20	0.00E+00	1.00E-05	0.00E+00	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	1.00E-05
KT-A3f	30	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A3g	40	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A3h	50	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A3i	60	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A3j	70	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A3k	80	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A3l	90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A3m	100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4	1.5	0.00E+00	4.00E-05	6.00E-05	1.50E-04	5.00E-05	5.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	1.00E-05	3.00E-05	4.00E-05	4.00E-05	3.00E-05	1.00E-05	2.00E-05	3.00E-05
KT-A4a	4	0.00E+00	4.00E-05	6.00E-05	1.70E-04	5.00E-05	4.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	2.00E-05	3.00E-05	3.00E-05	3.00E-05	1.00E-05	2.00E-05	2.00E-05
KT-A4b	8	0.00E+00	3.00E-05	4.00E-05	1.10E-04	3.00E-05	3.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	2.00E-05	2.00E-05	2.00E-05	2.00E-05	1.00E-05	1.00E-05	2.00E-05
KT-A4c	12	0.00E+00	1.00E-05	1.00E-05	4.00E-05	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	2.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05
KT-A4d	16	0.00E+00	1.00E-05	1.00E-05	2.00E-05	2.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A4e	20	0.00E+00	1.00E-05	0.00E+00	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	1.00E-05

AERMOD Model Results on Hydrocarbons (HC) **Option B, Part 2** **Annual** = Used in Calculation on Project Contribution

Annual		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20
		Naphthalene	Phenanthren	Anthracene	Fluoranthen	Pyrene	Benzo(a)pyr	Benzene	Toluene	Ethylbenzen	Xylenes (Tot	Acenaphthy	Acenaphthe	Fluorene	Chrysene	Benzo(a)ant	Benzo(b)fluo	Benzo(k)fluo	Dibenzo(a,h)	Indeno(1,2,3	Benzo(g,h,i)perylene
Maximum Value		1.00E-05	1.40E-04	2.10E-04	5.50E-04	2.40E-04	2.00E-04	1.00E-05	1.00E-05	1.00E-05	2.00E-05	4.00E-05	1.00E-05	2.00E-05	1.20E-04	1.60E-04	1.70E-04	1.50E-04	5.00E-05	9.00E-05	1.20E-04
ASR_ID	mAG																				
KT-A4f	30	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4g	40	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4h	50	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4i	60	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4j	70	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4k	80	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4l	90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4m	100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4n	110	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4o	120	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A5	1.5	0.00E+00	4.00E-05	8.00E-05	2.00E-04	4.00E-05	3.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	2.00E-05	2.00E-05	3.00E-05	2.00E-05	1.00E-05	1.00E-05	2.00E-05
KT-A5a	4	0.00E+00	4.00E-05	8.00E-05	2.00E-04	4.00E-05	3.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	2.00E-05	2.00E-05	3.00E-05	2.00E-05	1.00E-05	1.00E-05	2.00E-05
KT-A5b	8	0.00E+00	3.00E-05	7.00E-05	1.70E-04	3.00E-05	3.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	2.00E-05	2.00E-05	2.00E-05	2.00E-05	1.00E-05	1.00E-05	2.00E-05
KT-A5c	12	0.00E+00	3.00E-05	5.00E-05	1.40E-04	3.00E-05	3.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	2.00E-05	2.00E-05	2.00E-05	2.00E-05	1.00E-05	1.00E-05	2.00E-05
KT-A5d	16	0.00E+00	2.00E-05	4.00E-05	1.00E-04	3.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05	2.00E-05	2.00E-05	1.00E-05	1.00E-05	1.00E-05
KT-A5e	20	0.00E+00	2.00E-05	2.00E-05	6.00E-05	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05	2.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05
KT-A6	1.5	0.00E+00	1.10E-04	2.10E-04	5.50E-04	1.20E-04	1.00E-04	0.00E+00	0.00E+00	1.00E-05	1.00E-05	2.00E-05	0.00E+00	1.00E-05	6.00E-05	8.00E-05	9.00E-05	7.00E-05	3.00E-05	5.00E-05	6.00E-05
KT-A6a	4	0.00E+00	1.10E-04	2.10E-04	5.40E-04	1.10E-04	9.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05	0.00E+00	1.00E-05	6.00E-05	7.00E-05	8.00E-05	7.00E-05	2.00E-05	4.00E-05	6.00E-05
KT-A6b	8	0.00E+00	7.00E-05	1.40E-04	3.60E-04	8.00E-05	7.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	1.00E-05	4.00E-05	5.00E-05	6.00E-05	5.00E-05	2.00E-05	3.00E-05	4.00E-05
KT-A6c	12	0.00E+00	4.00E-05	7.00E-05	1.80E-04	6.00E-05	5.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	1.00E-05	3.00E-05	4.00E-05	4.00E-05	3.00E-05	1.00E-05	2.00E-05	3.00E-05
KT-A7	1.5	0.00E+00	2.00E-05	4.00E-05	1.10E-04	3.00E-05	3.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	2.00E-05	2.00E-05	2.00E-05	2.00E-05	1.00E-05	1.00E-05	2.00E-05
KT-A7a	4	0.00E+00	3.00E-05	5.00E-05	1.30E-04	3.00E-05	3.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	2.00E-05	2.00E-05	2.00E-05	2.00E-05	1.00E-05	1.00E-05	2.00E-05
KT-A7b	8	0.00E+00	2.00E-05	4.00E-05	1.00E-04	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05	2.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05
KT-A7c	12	0.00E+00	1.00E-05	1.00E-05	4.00E-05	2.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A7d	16	0.00E+00	1.00E-05	1.00E-05	2.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	1.00E-05
KT-A7e	20	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	1.00E-05
KT-A8	1.5	0.00E+00	2.00E-05	5.00E-05	1.20E-04	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05	2.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05
KT-A8a	4	0.00E+00	3.00E-05	5.00E-05	1.30E-04	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05	2.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05
KT-A8b	8	0.00E+00	3.00E-05	5.00E-05	1.30E-04	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05	2.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05
KT-A8c	12	0.00E+00	2.00E-05	5.00E-05	1.20E-04	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05	2.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05
KT-A8d	16	0.00E+00	2.00E-05	4.00E-05	1.00E-04	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05	2.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05
KT-A8e	20	0.00E+00	2.00E-05	3.00E-05	8.00E-05	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	2.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A8f	30	0.00E+00	1.00E-05	1.00E-05	4.00E-05	2.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A8g	40	0.00E+00	1.00E-05	1.00E-05	2.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	1.00E-05
KT-A8h	50	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A8i	60	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A8j	70	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A8k	80	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A8l	90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A8m	100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A9	1.5	0.00E+00	6.00E-05	1.30E-04	3.30E-04	6.00E-05	5.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	1.00E-05	3.00E-05	4.00E-05	5.00E-05	4.00E-05	1.00E-05	2.00E-05	3.00E-05
KT-A9a	4	0.00E+00	6.00E-05	1.20E-04	3.20E-04	6.00E-05	5.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	1.00E-05	3.00E-05	4.00E-05	4.00E-05	4.00E-05	1.00E-05	2.00E-05	3.00E-05
KT-A9b	8	0.00E+00	5.00E-05	1.00E-04	2.60E-04	5.00E-05	5.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	1.00E-05	3.00E-05	4.00E-05	4.00E-05	3.00E-05	1.00E-05	2.00E-05	3.00E-05
KT-A10	1.5	0.00E+00	1.00E-05	2.00E-05	5.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A10a	4	0.00E+00	1.00E-05	2.00E-05	4.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	1.00E-05
KT-A10b	8	0.00E+00	1.00E-05	1.00E-05	3.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	1.00E-05
KT-A10c	12	0.00E+00	1.00E-05	1.00E-05	2.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	1.00E-05
KT-A10d	16	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00
KT-A10e	20	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10f	30	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10g	40	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10h	50	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10i	60	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10j	70	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10k	80	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10l	90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

AERMOD Model Results on Hydrocarbons (HC) **Option B, Part 2** **Annual** = Used in Calculation on Project Contribution

Annual		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20
		Naphthalene	Phenanthren	Anthracene	Fluoranthen	Pyrene	Benzo(a)pyr	Benzene	Toluene	Ethylbenzen	Xylenes (Tot	Acenaphthy	Acenaphthe	Fluorene	Chrysene	Benzo(a)ant	Benzo(b)fluo	Benzo(k)fluo	Dibenzo(a,h)	Indeno(1,2,3	Benzo(g,h,i)perylene
Maximum Value		**1.00E-05**	**1.40E-04**	**2.10E-04**	**5.50E-04**	**2.40E-04**	**2.00E-04**	**1.00E-05**	**1.00E-05**	**1.00E-05**	**2.00E-05**	**4.00E-05**	**1.00E-05**	**2.00E-05**	**1.20E-04**	**1.60E-04**	**1.70E-04**	**1.50E-04**	**5.00E-05**	**9.00E-05**	**1.20E-04**
ASR_ID	**mAG**																				
KT-A10m	100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10n	110	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10o	120	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10p	130	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10q	140	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
P01	1.5	1.00E-05	1.40E-04	1.70E-04	4.80E-04	2.40E-04	2.00E-04	1.00E-05	1.00E-05	1.00E-05	2.00E-05	4.00E-05	1.00E-05	2.00E-05	1.20E-04	1.60E-04	1.70E-04	1.50E-04	5.00E-05	9.00E-05	1.20E-04
P02	1.5	0.00E+00	1.00E-04	1.20E-04	3.60E-04	1.80E-04	1.50E-04	0.00E+00	0.00E+00	1.00E-05	2.00E-05	3.00E-05	1.00E-05	2.00E-05	9.00E-05	1.20E-04	1.20E-04	1.10E-04	4.00E-05	7.00E-05	9.00E-05
P03	1.5	0.00E+00	1.00E-04	1.10E-04	3.20E-04	1.70E-04	1.40E-04	0.00E+00	0.00E+00	1.00E-05	2.00E-05	3.00E-05	1.00E-05	2.00E-05	9.00E-05	1.10E-04	1.20E-04	1.00E-04	4.00E-05	6.00E-05	9.00E-05
P04	1.5	0.00E+00	9.00E-05	1.00E-04	2.90E-04	1.50E-04	1.30E-04	0.00E+00	0.00E+00	1.00E-05	1.00E-05	3.00E-05	1.00E-05	2.00E-05	8.00E-05	1.00E-04	1.00E-04	9.00E-05	3.00E-05	6.00E-05	8.00E-05
P10	1.5	0.00E+00	3.00E-05	4.00E-05	1.20E-04	4.00E-05	4.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	2.00E-05	3.00E-05	3.00E-05	3.00E-05	1.00E-05	2.00E-05	2.00E-05
P11	1.5	0.00E+00	7.00E-05	9.00E-05	2.60E-04	1.30E-04	1.10E-04	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05	0.00E+00	1.00E-05	6.00E-05	8.00E-05	9.00E-05	8.00E-05	3.00E-05	5.00E-05	6.00E-05
P12	1.5	0.00E+00	6.00E-05	8.00E-05	2.20E-04	1.00E-04	8.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05	0.00E+00	1.00E-05	5.00E-05	6.00E-05	7.00E-05	6.00E-05	2.00E-05	4.00E-05	5.00E-05
P13	1.5	0.00E+00	4.00E-05	5.00E-05	1.50E-04	6.00E-05	5.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	1.00E-05	3.00E-05	4.00E-05	4.00E-05	4.00E-05	1.00E-05	2.00E-05	3.00E-05
P14	1.5	0.00E+00	3.00E-05	4.00E-05	1.00E-04	4.00E-05	3.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	2.00E-05	3.00E-05	3.00E-05	2.00E-05	1.00E-05	1.00E-05	2.00E-05
P15	1.5	0.00E+00	4.00E-05	5.00E-05	1.40E-04	6.00E-05	5.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	1.00E-05	3.00E-05	4.00E-05	4.00E-05	3.00E-05	1.00E-05	2.00E-05	3.00E-05
P16	1.5	0.00E+00	5.00E-05	7.00E-05	1.90E-04	9.00E-05	7.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05	0.00E+00	1.00E-05	4.00E-05	6.00E-05	6.00E-05	5.00E-05	2.00E-05	3.00E-05	4.00E-05

AERMOD Model Results on Hydrocarbons (HC) **Option B, Part 3** **Annual** = Used in Calculation on Project Contribution

Annual		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20
		Naphthalene	Phenanthren	Anthracene	Fluoranthen	Pyrene	Benzo(a)pyr	Benzene	Toluene	Ethylbenzen	Xylenes (Tot	Acenaphthy	Acenaphthe	Fluorene	Chrysene	Benzo(a)ant	Benzo(b)fluo	Benzo(k)fluo	Dibenzo(a,h)	Indeno(1,2,3	Benzo(g,h,i)perylene
Maximum Value		**0.00E+00**	**3.00E-05**	**1.30E-04**	**1.50E-04**	**1.00E-05**	**1.00E-05**	**0.00E+00**	**0.00E+00**	**0.00E+00**	**1.00E-05**	**0.00E+00**	**0.00E+00**	**0.00E+00**	**1.00E-05**	**1.00E-05**	**1.00E-05**	**1.00E-05**	**1.00E-05**	**1.00E-05**	**1.00E-05**
ASR_ID	**mAG**																				
KT-A1	1.5	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A1a	4	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A1b	8	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A1c	12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A1d	16	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A1e	20	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A1f	30	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A1g	40	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A1h	50	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A1i	60	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A1j	70	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A1k	80	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A1l	90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A1m	100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2	1.5	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2a	4	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2b	8	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2c	12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2d	16	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2e	20	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2f	30	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2g	40	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2h	50	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2i	60	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2j	70	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2k	80	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2l	90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2m	100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2n	110	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2o	120	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2p	130	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2q	140	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2r	150	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2s	160	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2t	170	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2u	180	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A3	1.5	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A3a	4	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A3b	8	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A3c	12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A3d	16	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A3e	20	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A3f	30	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A3g	40	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A3h	50	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A3i	60	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A3j	70	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A3k	80	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A3l	90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A3m	100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4	1.5	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4a	4	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4b	8	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4c	12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4d	16	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4e	20	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

AERMOD Model Results on Hydrocarbons (HC) **Option B, Part 3** **Annual** = Used in Calculation on Project Contribution

Annual		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20
		Naphthalene	Phenanthren	Anthracene	Fluoranthen	Pyrene	Benzo(a)pyr	Benzene	Toluene	Ethylbenzen	Xylenes (Tot	Acenaphthy	Acenaphthe	Fluorene	Chrysene	Benzo(a)ant	Benzo(b)fluo	Benzo(k)fluo	Dibenzo(a,h)	Indeno(1,2,3	Benzo(g,h,i)perylene
Maximum Value		0.00E+00	3.00E-05	1.30E-04	1.50E-04	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05
ASR_ID	mAG																				
KT-A4f	30	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4g	40	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4h	50	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4i	60	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4j	70	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4k	80	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4l	90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4m	100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4n	110	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4o	120	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A5	1.5	0.00E+00	2.00E-05	8.00E-05	9.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A5a	4	0.00E+00	2.00E-05	8.00E-05	9.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A5b	8	0.00E+00	1.00E-05	5.00E-05	6.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A5c	12	0.00E+00	1.00E-05	3.00E-05	3.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A5d	16	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A5e	20	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A6	1.5	0.00E+00	2.00E-05	7.00E-05	7.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05	1.00E-05
KT-A6a	4	0.00E+00	2.00E-05	1.00E-04	1.10E-04	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05	1.00E-05
KT-A6b	8	0.00E+00	1.00E-05	4.00E-05	4.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A6c	12	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A7	1.5	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A7a	4	0.00E+00	0.00E+00	1.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A7b	8	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A7c	12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A7d	16	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A7e	20	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A8	1.5	0.00E+00	1.00E-05	4.00E-05	5.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A8a	4	0.00E+00	1.00E-05	4.00E-05	5.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A8b	8	0.00E+00	1.00E-05	4.00E-05	5.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A8c	12	0.00E+00	1.00E-05	3.00E-05	4.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A8d	16	0.00E+00	1.00E-05	3.00E-05	3.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A8e	20	0.00E+00	0.00E+00	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A8f	30	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A8g	40	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A8h	50	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A8i	60	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A8j	70	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A8k	80	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A8l	90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A8m	100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A9	1.5	0.00E+00	3.00E-05	1.10E-04	1.20E-04	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05
KT-A9a	4	0.00E+00	3.00E-05	1.30E-04	1.50E-04	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05	1.00E-05
KT-A9b	8	0.00E+00	2.00E-05	6.00E-05	7.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10	1.5	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10a	4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10b	8	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10c	12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10d	16	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10e	20	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10f	30	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10g	40	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10h	50	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10i	60	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10j	70	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10k	80	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10l	90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

AERMOD Model Results on Hydrocarbons (HC) **Option B, Part 3** **Annual** = Used in Calculation on Project Contribution

Annual		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20
		Naphthalene	Phenanthren	Anthracene	Fluoranthen	Pyrene	Benzo(a)pyr	Benzene	Toluene	Ethylbenzen	Xylenes (Tot	Acenaphthy	Acenaphthe	Fluorene	Chrysene	Benzo(a)ant	Benzo(b)fluo	Benzo(k)fluo	Dibenzo(a,h)	Indeno(1,2,3	Benzo(g,h,i)perylene
Maximum Value		**0.00E+00**	**3.00E-05**	**1.30E-04**	**1.50E-04**	**1.00E-05**	**1.00E-05**	**0.00E+00**	**0.00E+00**	**0.00E+00**	**1.00E-05**	**0.00E+00**	**0.00E+00**	**0.00E+00**	**1.00E-05**	**1.00E-05**	**1.00E-05**	**1.00E-05**	**1.00E-05**	**1.00E-05**	**1.00E-05**
ASR_ID	**mAG**																				
KT-A10m	100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10n	110	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10o	120	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10p	130	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10q	140	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
P01	1.5	0.00E+00	1.00E-05	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
P02	1.5	0.00E+00	0.00E+00	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
P03	1.5	0.00E+00	0.00E+00	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
P04	1.5	0.00E+00	0.00E+00	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
P10	1.5	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
P11	1.5	0.00E+00	0.00E+00	1.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
P12	1.5	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
P13	1.5	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
P14	1.5	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
P15	1.5	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
P16	1.5	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

AERMOD Model Results on Hydrocarbons (HC) **Option C, Part 1** **Annual** = Used in Calculation on Project Contribution

Annual		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20
		Naphthalene	Phenanthren	Anthracene	Fluoranthen	Pyrene	Benzo(a)pyr	Benzene	Toluene	Ethylbenzen	Xylenes (Tot	Acenaphthy	Acenaphthe	Fluorene	Chrysene	Benzo(a)ant	Benzo(b)fluo	Benzo(k)fluo	Dibenzo(a,h)	Indeno(1,2,3	Benzo(g,h,i)perylene
Maximum Value		**1.00E-05**	**1.60E-04**	**3.70E-04**	**1.15E-03**	**2.30E-04**	**2.00E-04**	**1.00E-05**	**1.00E-05**	**1.00E-05**	**2.00E-05**	**4.00E-05**	**1.00E-05**	**2.00E-05**	**1.20E-04**	**1.40E-04**	**1.80E-04**	**1.30E-04**	**5.00E-05**	**9.00E-05**	**1.10E-04**
ASR_ID	**mAG**																				
KT-A1	1.5	0.00E+00	4.00E-05	9.00E-05	3.10E-04	7.00E-05	6.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	3.00E-05	3.00E-05	6.00E-05	3.00E-05	1.00E-05	2.00E-05	3.00E-05
KT-A1a	4	0.00E+00	3.00E-05	8.00E-05	2.90E-04	6.00E-05	6.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	3.00E-05	3.00E-05	6.00E-05	3.00E-05	1.00E-05	2.00E-05	3.00E-05
KT-A1b	8	0.00E+00	3.00E-05	7.00E-05	2.20E-04	4.00E-05	4.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	2.00E-05	2.00E-05	4.00E-05	2.00E-05	1.00E-05	2.00E-05	2.00E-05
KT-A1c	12	0.00E+00	2.00E-05	3.00E-05	1.00E-04	3.00E-05	3.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	2.00E-05	2.00E-05	3.00E-05	2.00E-05	1.00E-05	1.00E-05	1.00E-05
KT-A1d	16	0.00E+00	1.00E-05	2.00E-05	5.00E-05	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	2.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A1e	20	0.00E+00	1.00E-05	1.00E-05	3.00E-05	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	2.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A1f	30	0.00E+00	0.00E+00	0.00E+00	2.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	1.00E-05
KT-A1g	40	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A1h	50	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A1i	60	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A1j	70	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A1k	80	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A1l	90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A1m	100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2	1.5	0.00E+00	5.00E-05	1.40E-04	4.90E-04	1.00E-04	1.00E-04	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05	0.00E+00	1.00E-05	5.00E-05	5.00E-05	1.00E-04	5.00E-05	2.00E-05	4.00E-05	5.00E-05
KT-A2a	4	0.00E+00	5.00E-05	1.20E-04	4.10E-04	9.00E-05	8.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05	0.00E+00	1.00E-05	5.00E-05	4.00E-05	8.00E-05	4.00E-05	2.00E-05	3.00E-05	4.00E-05
KT-A2b	8	0.00E+00	3.00E-05	9.00E-05	3.10E-04	6.00E-05	6.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	3.00E-05	3.00E-05	6.00E-05	3.00E-05	1.00E-05	2.00E-05	3.00E-05
KT-A2c	12	0.00E+00	2.00E-05	4.00E-05	1.50E-04	5.00E-05	4.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	2.00E-05	2.00E-05	4.00E-05	2.00E-05	1.00E-05	2.00E-05	2.00E-05
KT-A2d	16	0.00E+00	1.00E-05	2.00E-05	7.00E-05	3.00E-05	3.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	2.00E-05	2.00E-05	3.00E-05	2.00E-05	1.00E-05	1.00E-05	2.00E-05
KT-A2e	20	0.00E+00	1.00E-05	1.00E-05	4.00E-05	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	2.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A2f	30	0.00E+00	0.00E+00	1.00E-05	2.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	1.00E-05
KT-A2g	40	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2h	50	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2i	60	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2j	70	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2k	80	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2l	90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2m	100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2n	110	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2o	120	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2p	130	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2q	140	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2r	150	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2s	160	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2t	170	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A2u	180	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A3	1.5	0.00E+00	3.00E-05	9.00E-05	2.90E-04	4.00E-05	4.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	2.00E-05	2.00E-05	4.00E-05	2.00E-05	1.00E-05	2.00E-05	2.00E-05
KT-A3a	4	0.00E+00	3.00E-05	8.00E-05	2.70E-04	4.00E-05	3.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	2.00E-05	2.00E-05	3.00E-05	2.00E-05	1.00E-05	1.00E-05	2.00E-05
KT-A3b	8	0.00E+00	2.00E-05	6.00E-05	2.00E-04	3.00E-05	3.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	2.00E-05	2.00E-05	3.00E-05	2.00E-05	1.00E-05	1.00E-05	1.00E-05
KT-A3c	12	0.00E+00	1.00E-05	3.00E-05	9.00E-05	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	2.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05
KT-A3d	16	0.00E+00	1.00E-05	1.00E-05	4.00E-05	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	2.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A3e	20	0.00E+00	1.00E-05	1.00E-05	3.00E-05	2.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A3f	30	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	1.00E-05
KT-A3g	40	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A3h	50	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A3i	60	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A3j	70	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A3k	80	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A3l	90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A3m	100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4	1.5	0.00E+00	5.00E-05	1.20E-04	3.60E-04	5.00E-05	5.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	1.00E-05	3.00E-05	3.00E-05	4.00E-05	3.00E-05	1.00E-05	2.00E-05	3.00E-05
KT-A4a	4	0.00E+00	5.00E-05	1.20E-04	3.50E-04	5.00E-05	4.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	2.00E-05	3.00E-05	4.00E-05	3.00E-05	1.00E-05	2.00E-05	2.00E-05
KT-A4b	8	0.00E+00	3.00E-05	8.00E-05	2.50E-04	4.00E-05	3.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	2.00E-05	2.00E-05	3.00E-05	2.00E-05	1.00E-05	1.00E-05	2.00E-05
KT-A4c	12	0.00E+00	2.00E-05	3.00E-05	1.10E-04	3.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	1.00E-05	2.00E-05	2.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05
KT-A4d	16	0.00E+00	1.00E-05	2.00E-05	6.00E-05	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	2.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A4e	20	0.00E+00	1.00E-05	1.00E-05	4.00E-05	2.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05

AERMOD Model Results on Hydrocarbons (HC) **Option C, Part 1** **Annual** = Used in Calculation on Project Contribution

Annual		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20
		Naphthalene	Phenanthren	Anthracene	Fluoranthen	Pyrene	Benzo(a)pyr	Benzene	Toluene	Ethylbenzen	Xylenes (Tot	Acenaphthy	Acenaphthe	Fluorene	Chrysene	Benzo(a)ant	Benzo(b)fluo	Benzo(k)fluo	Dibenzo(a,h)	Indeno(1,2,3	Benzo(g,h,i)perylene
Maximum Value		1.00E-05	1.60E-04	3.70E-04	1.15E-03	2.30E-04	2.00E-04	1.00E-05	1.00E-05	1.00E-05	2.00E-05	4.00E-05	1.00E-05	2.00E-05	1.20E-04	1.40E-04	1.80E-04	1.30E-04	5.00E-05	9.00E-05	1.10E-04
ASR_ID	mAG																				
KT-A4f	30	0.00E+00	0.00E+00	0.00E+00	2.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4g	40	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4h	50	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4i	60	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4j	70	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4k	80	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4l	90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4m	100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4n	110	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A4o	120	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A5	1.5	0.00E+00	7.00E-05	2.10E-04	4.50E-04	4.00E-05	4.00E-05	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	0.00E+00	1.00E-05	2.00E-05	3.00E-05	4.00E-05	2.00E-05	1.00E-05	2.00E-05	2.00E-05
KT-A5a	4	0.00E+00	7.00E-05	2.10E-04	4.40E-04	4.00E-05	3.00E-05	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	0.00E+00	1.00E-05	2.00E-05	2.00E-05	3.00E-05	2.00E-05	1.00E-05	2.00E-05	2.00E-05
KT-A5b	8	0.00E+00	5.00E-05	1.60E-04	3.70E-04	3.00E-05	3.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	2.00E-05	2.00E-05	3.00E-05	2.00E-05	1.00E-05	2.00E-05	2.00E-05
KT-A5c	12	0.00E+00	4.00E-05	1.10E-04	2.70E-04	3.00E-05	3.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	2.00E-05	2.00E-05	3.00E-05	2.00E-05	1.00E-05	1.00E-05	2.00E-05
KT-A5d	16	0.00E+00	3.00E-05	7.00E-05	2.00E-04	3.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	1.00E-05	2.00E-05	2.00E-05	2.00E-05	1.00E-05	1.00E-05	1.00E-05
KT-A5e	20	0.00E+00	2.00E-05	5.00E-05	1.30E-04	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	2.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05
KT-A6	1.5	1.00E-05	1.30E-04	3.40E-04	8.60E-04	1.10E-04	9.00E-05	0.00E+00	0.00E+00	1.00E-05	2.00E-05	2.00E-05	1.00E-05	1.00E-05	6.00E-05	7.00E-05	9.00E-05	6.00E-05	3.00E-05	5.00E-05	6.00E-05
KT-A6a	4	1.00E-05	1.30E-04	3.70E-04	8.70E-04	1.00E-04	9.00E-05	0.00E+00	0.00E+00	1.00E-05	2.00E-05	2.00E-05	1.00E-05	1.00E-05	5.00E-05	6.00E-05	8.00E-05	6.00E-05	3.00E-05	4.00E-05	5.00E-05
KT-A6b	8	0.00E+00	9.00E-05	2.30E-04	6.00E-04	7.00E-05	6.00E-05	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	0.00E+00	1.00E-05	4.00E-05	5.00E-05	6.00E-05	4.00E-05	2.00E-05	3.00E-05	4.00E-05
KT-A6c	12	0.00E+00	5.00E-05	1.10E-04	3.30E-04	5.00E-05	5.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	1.00E-05	3.00E-05	3.00E-05	4.00E-05	3.00E-05	1.00E-05	2.00E-05	3.00E-05
KT-A7	1.5	0.00E+00	3.00E-05	8.00E-05	2.40E-04	3.00E-05	3.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	2.00E-05	2.00E-05	3.00E-05	2.00E-05	1.00E-05	1.00E-05	2.00E-05
KT-A7a	4	0.00E+00	4.00E-05	9.00E-05	2.60E-04	3.00E-05	3.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	2.00E-05	2.00E-05	3.00E-05	2.00E-05	1.00E-05	1.00E-05	2.00E-05
KT-A7b	8	0.00E+00	3.00E-05	7.00E-05	2.00E-04	3.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	2.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05
KT-A7c	12	0.00E+00	1.00E-05	3.00E-05	1.00E-04	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	2.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A7d	16	0.00E+00	1.00E-05	2.00E-05	6.00E-05	2.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A7e	20	0.00E+00	1.00E-05	1.00E-05	4.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A8	1.5	0.00E+00	4.00E-05	1.30E-04	2.90E-04	3.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	1.00E-05	2.00E-05	2.00E-05	2.00E-05	1.00E-05	1.00E-05	1.00E-05
KT-A8a	4	0.00E+00	4.00E-05	1.40E-04	3.10E-04	3.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	2.00E-05	2.00E-05	2.00E-05	2.00E-05	1.00E-05	1.00E-05	2.00E-05
KT-A8b	8	0.00E+00	4.00E-05	1.40E-04	3.10E-04	3.00E-05	3.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	2.00E-05	2.00E-05	2.00E-05	2.00E-05	1.00E-05	1.00E-05	2.00E-05
KT-A8c	12	0.00E+00	4.00E-05	1.20E-04	2.80E-04	3.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	1.00E-05	2.00E-05	2.00E-05	2.00E-05	1.00E-05	1.00E-05	1.00E-05
KT-A8d	16	0.00E+00	3.00E-05	9.00E-05	2.30E-04	3.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	1.00E-05	2.00E-05	2.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05
KT-A8e	20	0.00E+00	3.00E-05	7.00E-05	1.80E-04	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	2.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05
KT-A8f	30	0.00E+00	1.00E-05	3.00E-05	8.00E-05	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	2.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A8g	40	0.00E+00	1.00E-05	1.00E-05	4.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A8h	50	0.00E+00	0.00E+00	1.00E-05	2.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00
KT-A8i	60	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A8j	70	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A8k	80	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A8l	90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A8m	100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A9	1.5	1.00E-05	1.00E-04	2.90E-04	6.40E-04	7.00E-05	6.00E-05	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	4.00E-05	4.00E-05	6.00E-05	4.00E-05	2.00E-05	3.00E-05	4.00E-05
KT-A9a	4	1.00E-05	1.00E-04	3.10E-04	6.50E-04	6.00E-05	6.00E-05	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05	3.00E-05	4.00E-05	6.00E-05	4.00E-05	2.00E-05	3.00E-05	4.00E-05
KT-A9b	8	0.00E+00	7.00E-05	2.10E-04	4.80E-04	5.00E-05	5.00E-05	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	0.00E+00	1.00E-05	3.00E-05	3.00E-05	4.00E-05	3.00E-05	1.00E-05	2.00E-05	3.00E-05
KT-A10	1.5	0.00E+00	2.00E-05	6.00E-05	1.90E-04	3.00E-05	3.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	1.00E-05	1.00E-05	3.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05
KT-A10a	4	0.00E+00	2.00E-05	5.00E-05	1.80E-04	3.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	2.00E-05	1.00E-05	1.00E-05	1.00E-05	1.00E-05
KT-A10b	8	0.00E+00	2.00E-05	4.00E-05	1.30E-04	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	2.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A10c	12	0.00E+00	1.00E-05	2.00E-05	7.00E-05	2.00E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	2.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A10d	16	0.00E+00	1.00E-05	1.00E-05	4.00E-05	2.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	1.00E-05	1.00E-05
KT-A10e	20	0.00E+00	0.00E+00	1.00E-05	2.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	1.00E-05
KT-A10f	30	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10g	40	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10h	50	0.00E+00	0.00E+00	0.00E+00	1.00E-05	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10i	60	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10j	70	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10k	80	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10l	90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

AERMOD Model Results on Hydrocarbons (HC) **Option C, Part 1** **Annual** = Used in Calculation on Project Contribution

Annual		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20
		Naphthalene	Phenanthren	Anthracene	Fluoranthen	Pyrene	Benzo(a)pyr	Benzene	Toluene	Ethylbenzen	Xylenes (Tot	Acenaphthy	Acenaphthe	Fluorene	Chrysene	Benzo(a)ant	Benzo(b)fluo	Benzo(k)fluo	Dibenzo(a,h)	Indeno(1,2,3	Benzo(g,h,i)perylene
Maximum Value		**1.00E-05**	**1.60E-04**	**3.70E-04**	**1.15E-03**	**2.30E-04**	**2.00E-04**	**1.00E-05**	**1.00E-05**	**1.00E-05**	**2.00E-05**	**4.00E-05**	**1.00E-05**	**2.00E-05**	**1.20E-04**	**1.40E-04**	**1.80E-04**	**1.30E-04**	**5.00E-05**	**9.00E-05**	**1.10E-04**
ASR_ID	**mAG**																				
KT-A10m	100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10n	110	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10o	120	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10p	130	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
KT-A10q	140	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
P01	1.5	1.00E-05	1.60E-04	3.50E-04	1.13E-03	2.30E-04	2.00E-04	1.00E-05	1.00E-05	1.00E-05	2.00E-05	4.00E-05	1.00E-05	2.00E-05	1.20E-04	1.40E-04	1.80E-04	1.30E-04	5.00E-05	9.00E-05	1.10E-04
P02	1.5	1.00E-05	1.30E-04	2.90E-04	9.30E-04	1.80E-04	1.60E-04	0.00E+00	0.00E+00	1.00E-05	2.00E-05	3.00E-05	1.00E-05	2.00E-05	9.00E-05	1.00E-04	1.40E-04	1.00E-04	4.00E-05	7.00E-05	9.00E-05
P03	1.5	1.00E-05	1.30E-04	3.00E-04	9.80E-04	1.90E-04	1.60E-04	0.00E+00	0.00E+00	1.00E-05	2.00E-05	3.00E-05	1.00E-05	2.00E-05	9.00E-05	1.10E-04	1.50E-04	1.00E-04	4.00E-05	7.00E-05	9.00E-05
P04	1.5	1.00E-05	1.10E-04	2.70E-04	8.70E-04	1.60E-04	1.40E-04	0.00E+00	0.00E+00	1.00E-05	1.00E-05	3.00E-05	1.00E-05	1.00E-05	8.00E-05	9.00E-05	1.30E-04	9.00E-05	3.00E-05	6.00E-05	8.00E-05
P10	1.5	0.00E+00	9.00E-05	2.20E-04	8.00E-04	1.50E-04	1.40E-04	0.00E+00	0.00E+00	1.00E-05	1.00E-05	3.00E-05	1.00E-05	1.00E-05	8.00E-05	7.00E-05	1.40E-04	7.00E-05	3.00E-05	6.00E-05	7.00E-05
P11	1.5	1.00E-05	1.30E-04	3.10E-04	1.06E-03	1.90E-04	1.70E-04	0.00E+00	0.00E+00	1.00E-05	2.00E-05	3.00E-05	1.00E-05	1.00E-05	1.00E-04	1.00E-04	1.60E-04	1.00E-04	4.00E-05	7.00E-05	9.00E-05
P12	1.5	1.00E-05	1.30E-04	3.30E-04	1.15E-03	2.00E-04	1.80E-04	0.00E+00	0.00E+00	1.00E-05	2.00E-05	4.00E-05	1.00E-05	1.00E-05	1.00E-04	1.00E-04	1.80E-04	1.00E-04	4.00E-05	7.00E-05	9.00E-05
P13	1.5	1.00E-05	1.00E-04	2.70E-04	9.40E-04	1.60E-04	1.50E-04	0.00E+00	0.00E+00	1.00E-05	1.00E-05	3.00E-05	1.00E-05	1.00E-05	8.00E-05	8.00E-05	1.50E-04	8.00E-05	3.00E-05	6.00E-05	8.00E-05
P14	1.5	0.00E+00	6.00E-05	1.50E-04	5.30E-04	9.00E-05	9.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05	0.00E+00	1.00E-05	5.00E-05	5.00E-05	8.00E-05	5.00E-05	2.00E-05	3.00E-05	4.00E-05
P15	1.5	0.00E+00	7.00E-05	1.80E-04	6.10E-04	1.00E-04	9.00E-05	0.00E+00	0.00E+00	0.00E+00	1.00E-05	2.00E-05	0.00E+00	1.00E-05	5.00E-05	5.00E-05	9.00E-05	5.00E-05	2.00E-05	4.00E-05	5.00E-05
P16	1.5	0.00E+00	9.00E-05	2.30E-04	7.80E-04	1.30E-04	1.20E-04	0.00E+00	0.00E+00	1.00E-05	1.00E-05	2.00E-05	1.00E-05	1.00E-05	7.00E-05	7.00E-05	1.10E-04	7.00E-05	3.00E-05	5.00E-05	6.00E-05

APPENDIX 3.13

DETAIL RESULTS FOR NON-CRITERIA CARCINOGENIC HEALTH RISKS

Health Impact Assessment Non-Criteria Pollutants Results

Carcinogenic Health Risk

For those non-criteria pollutants that are identified as carcinogenic, the risk is measured in the increase in the number of cancer cases per million population that is attributable to the identified pollutants. The cancer risk was calculated as:

Cancer Risk = EC x IUR

Time-weighted average concentration (i.e. concentrations due to the Project including background concentration) (µg/m^3)

EC = Time-weighted average concentration (i.e. concentrations due to the Project including background concentration) (µg/m3)

IUR = the corresponding inhalation unit risk estimate for that TAP

and

EC = (CA x ED) / AT

CA = change in annual average contaminant concentration in air (µg/m^3)

ED = exposure duration (years)

AT = averaging time (lifetime in years) i.e. 70years, referenced from Section 17.2.5.7 of 3RS EIA (EIA-223/2014)

Source: Risk Assessment Guidance for Superfund (RAGS), Volume I: Human Health Evaluation Manual (Part F, Supplemental Guidance for Inhalation Risk Assessment), 2009, EPA
As for the Third Runway Study the cancer risk guidelines are presumed. Conservative concentrations were predicted in the air quality modelling and were used for calculation of the health risks.

Note: (1) Concentration of pollutant from project contribution
(2) It is calculated based on Mitigated (T1M) RSP Annual Results which assumed that entire site is active at one time and is considered conservative.

Reprovisioning Option A

ED = 2.75 year(s)

Pollutants	ASR Max of Annual Average Conc. (CA)	EC (Exposure Level)	IUR				Cancer Risk			
Long Term			WHO	IRIS	ATSDR	OEHHA	WHO	IRIS	ATSDR	OEHHA
Heavy Metals										
Arsenic	1.18E-04	4.62E-06	1.50E-03				6.93E-09			
Cadmium	1.98E-05	7.77E-07		1.80E-03				1.40E-09		
Chromium (VI)	7.80E-05	3.06E-06	4.00E-02				1.23E-07			
Nickel	7.25E-05	2.85E-06	3.80E-04				1.08E-09			
Lead	2.72E-03	1.07E-04				1.20E-05				1.28E-09
Hydrocarbons										
Naphthalene	1.00E-05	3.93E-07				3.40E-05				1.34E-11
Benzo(a)pyrene	2.00E-04	7.86E-06	8.70E-02				6.84E-07			
Benzene	1.00E-05	3.93E-07	6.00E-06				2.36E-12			
Ethylbenzene	1.00E-05	3.93E-07				2.50E-06				9.82E-13
Benzo(a)anthracene	1.60E-04	6.29E-06				1.10E-04				6.91E-10
Benzo(b)fluoranthene	1.70E-04	6.68E-06				1.10E-04				7.35E-10
Benzo(k)fluoranthene	1.50E-04	5.89E-06				1.10E-04				6.48E-10
Chrysene	1.20E-04	4.71E-06				1.10E-05				5.19E-11
Dibenzo(a,h)anthracene	5.00E-05	1.96E-06				1.20E-03				2.36E-09
Indeno(1,2,3-cd)pyrene	9.00E-05	3.54E-06				1.10E-04				3.89E-10
Total Incremental Lifetime Cancer Risk in this Scenario							**8.22E-07**			
							Maximum among all Options			

Health Impact Assessment Non-Criteria Pollutants Results

Carcinogenic Health Risk

For those non-criteria pollutants that are identified as carcinogenic, the risk is measured in the increase in the number of cancer cases per million population that is attributable to the identified pollutants. The cancer risk was calculated as:

Cancer Risk = EC x IUR

Time-weighted average concentration (i.e. concentrations due to the Project including background concentration) (µg/m^3)

EC = Time-weighted average concentration (i.e. concentrations due to the Project including background concentration) (µg/m3)

IUR = the corresponding inhalation unit risk estimate for that TAP

and

EC = (CA x ED) / AT

CA = change in annual average contaminant concentration in air (µg/m^3)

ED = exposure duration (years)

AT = averaging time (lifetime in years) i.e. 70years, referenced from Section 17.2.5.7 of 3RS EIA (EIA-223/2014)

Source: Risk Assessment Guidance for Superfund (RAGS), Volume I: Human Health Evaluation Manual (Part F, Supplemental Guidance for Inhalation Risk Assessment), 2009, EPA
As for the Third Runway Study the cancer risk guidelines are presumed. Conservative concentrations were predicted in the air quality modelling and were used for calculation of the health risks.

Note: (1) Concentration of pollutant from project contribution
(2) It is calculated based on Mitigated (T1M) RSP Annual Results which assumed that entire site is active at one time and is considered conservative.

Reprovisioning Option B

ED = 2.50 year(s)

Pollutants	ASR Max of Annual	EC	IUR				Cancer Risk			
Long Term	Average Conc. (CA)	(Exposure Level)	WHO	IRIS	ATSDR	OEHHA	WHO	IRIS	ATSDR	OEHHA
Heavy Metals										
Arsenic	1.18E-04	4.20E-06	1.50E-03				6.30E-09			
Cadmium	1.98E-05	7.06E-07		1.80E-03				1.27E-09		
Chromium (VI)	7.80E-05	2.79E-06	4.00E-02				1.11E-07			
Nickel	7.25E-05	2.59E-06	3.80E-04				9.83E-10			
Lead	2.72E-03	9.71E-05				1.20E-05				1.17E-09
Hydrocarbons										
Naphthalene	1.00E-05	3.57E-07				3.40E-05				1.21E-11
Benzo(a)pyrene	2.00E-04	7.14E-06	8.70E-02				6.21E-07			
Benzene	1.00E-05	3.57E-07	6.00E-06				2.14E-12			
Ethylbenzene	1.00E-05	3.57E-07				2.50E-06				8.93E-13
Benzo(a)anthracene	1.60E-04	5.71E-06				1.10E-04				6.29E-10
Benzo(b)fluoranthene	1.70E-04	6.07E-06				1.10E-04				6.68E-10
Benzo(k)fluoranthene	1.50E-04	5.36E-06				1.10E-04				5.89E-10
Chrysene	1.20E-04	4.29E-06				1.10E-05				4.71E-11
Dibenzo(a,h)anthracene	5.00E-05	1.79E-06				1.20E-03				2.14E-09
Indeno(1,2,3-cd)pyrene	9.00E-05	3.21E-06				1.10E-04				3.54E-10
Total Incremental Lifetime Cancer Risk in this Scenario							**7.47E-07**			

Health Impact Assessment Non-Criteria Pollutants Results

Carcinogenic Health Risk

For those non-criteria pollutants that are identified as carcinogenic, the risk is measured in the increase in the number of cancer cases per million population that is attributable to the identified pollutants. The cancer risk was calculated as:

Cancer Risk = EC x IUR

Time-weighted average concentration (i.e. concentrations due to the Project including background concentration) (µg/m^3)

EC = Time-weighted average concentration (i.e. concentrations due to the Project including background concentration) (µg/m3)

IUR = the corresponding inhalation unit risk estimate for that TAP

and

EC = (CA x ED) / AT

CA = change in annual average contaminant concentration in air (µg/m^3)

ED = exposure duration (years)

AT = averaging time (lifetime in years) i.e. 70years, referenced from Section 17.2.5.7 of 3RS EIA (EIA-223/2014)

Source: Risk Assessment Guidance for Superfund (RAGS), Volume I: Human Health Evaluation Manual (Part F, Supplemental Guidance for Inhalation Risk Assessment), 2009, EPA
As for the Third Runway Study the cancer risk guidelines are presumed. Conservative concentrations were predicted in the air quality modelling and were used for calculation of the health risks.

Note: (1) Concentration of pollutant from project contribution
(2) It is calculated based on Mitigated (T1M) RSP Annual Results which assumed that entire site is active at one time and is considered conservative.

Reprovisioning Option C

ED = 1.58 year(s)

Pollutants	ASR Max of Annual	EC	IUR				Cancer Risk			
Long Term	Average Conc. (CA)	(Exposure Level)	WHO	IRIS	ATSDR	OEHHA	WHO	IRIS	ATSDR	OEHHA
Heavy Metals										
Arsenic	1.18E-04	2.66E-06	1.50E-03				3.99E-09			
Cadmium	1.98E-05	4.47E-07		1.80E-03				8.05E-10		
Chromium (VI)	7.80E-05	1.76E-06	4.00E-02				7.06E-08			
Nickel	7.25E-05	1.64E-06	3.80E-04				6.23E-10			
Lead	2.72E-03	6.15E-05				1.20E-05				7.38E-10
Hydrocarbons										
Naphthalene	1.00E-05	2.26E-07				3.40E-05				7.69E-12
Benzo(a)pyrene	2.00E-04	4.52E-06	8.70E-02				3.94E-07			
Benzene	1.00E-05	2.26E-07	6.00E-06				1.36E-12			
Ethylbenzene	1.00E-05	2.26E-07				2.50E-06				5.65E-13
Benzo(a)anthracene	1.40E-04	3.17E-06				1.10E-04				3.48E-10
Benzo(b)fluoranthene	1.80E-04	4.07E-06				1.10E-04				4.48E-10
Benzo(k)fluoranthene	1.30E-04	2.94E-06				1.10E-04				3.23E-10
Chrysene	1.20E-04	2.71E-06				1.10E-05				2.99E-11
Dibenzo(a,h)anthracene	5.00E-05	1.13E-06				1.20E-03				1.36E-09
Indeno(1,2,3-cd)pyrene	9.00E-05	2.04E-06				1.10E-04				2.24E-10
Total Incremental Lifetime Cancer Risk in this Scenario							**4.73E-07**			

APPENDIX 3.14

ADDITION AIR MONITORING STATION

Figure 2.1 of Environmental Monitoring and Audit Manual of the Supplementary EIA (AEIAR-188/2015)

VICTORIA HARBOUR

830500 E

831000 E

831500 E

816500 N

816000 N

815500 N

LITTLE GREEN ISLAND

SULPHUR CHANNEL

CHINA MERCHANTS WHARF

NEW PRAYA, KENNEDY TOWN

PRAYA, KENNEDY TOWN

CATCHICK STREET

SAI NING STREET

KA WAI MAN ROAD

VICTORIA ROAD

CADOGAN STREET

FORBES STREET

POK FU LAM ROAD

MOUNT DAVIS

AM1

AM2

AM3

Addition monitoring stations at CSTG

0 50 100m

1 : 2,500 SCALE BAR

Notes

Key to symbols

PROPOSED SITE AREA

500m STUDY AREA FOR AIR QUALITY AND WATER QUALITY IMPACT ASSESSMENT

AM1 PROPOSED AIR QUALITY MONITORING STATION

Reference drawings

Rev	Date	Drawn	Description	Ch'k'd	App'd
P2	DEC 14	MING	GENERAL REVISION	HC	AFK
P1	APR 13	MING	FIRST ISSUE	JS	AFK

Mott MacDonald
20/F Two Landmark East
100 How Ming Street
Kwun Tong, Kowloon
Hong Kong
T +852 2828 5757
F +852 2827 1823
W www.mottmac.com.hk

Client

CEDD CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

Project

ALTERNATIVE GROUND DECONTAMINATION WORKS AT THE PROPOSED KENNEDY TOWN COMPREHENSIVE DEVELOPMENT AREA SITE

Title

LOCATION OF AIR QUALITY MONITORING STATIONS

Designed	JS		Eng check	EC	
Drawn	MING		Coordination	EC	
Dwg check	JS		Approved	AFK	
Scale at A1	1:2500	Status	PRE	Rev	P2

Drawing Number

FIGURE 2.1

© Mott MacDonald Hong Kong Limited

This document should not be relied on or used in circumstances other than those for which it was originally prepared and for which Mott MacDonald Hong Kong Limited was commissioned. Mott MacDonald Hong Kong Limited accepts no responsibility for this document to any other party other than the person by whom it was commissioned.

APPENDIX 5.1

MARINE WATER QUALITY MONITORING DATA IN VICTORIA HARBOUR WATER CONTROL ZONE AT SELECTED STATIONS IN 2019

Summary of water quality statistics of the Victoria Harbour WCZ in 2019 (continued)

Parameter		Victoria Harbour (West) VM7	Victoria Harbour (West) VM8	Stonecutters Island VM15	Rambler Channel VM12	Rambler Channel VM14
Number of samples		**12**	**12**	**12**	**12**	**12**
Temperature (°C)		24.6 (19.4 - 29.5)	24.5 (19.4 - 29.5)	24.7 (19.2 - 29.6)	24.7 (19.5 - 29.6)	24.9 (19.4 - 29.7)
Salinity		31.0 (27.6 - 33.2)	31.0 (28.2 - 33.2)	31.0 (28.4 - 33.3)	30.7 (28.3 - 33.1)	29.3 (24.9 - 33.2)
Dissolved Oxygen (mg/L)		5.7 (4.5 - 7.3)	5.8 (4.4 - 7.3)	5.6 (4.3 - 7.2)	5.4 (4.2 - 6.9)	5.5 (4.3 - 8.1)
	Bottom	5.3 (2.9 - 7.2)	5.8 (4.1 - 7.7)	5.1 (2.5 - 7.2)	5.2 (2.8 - 7.1)	5.4 (3.8 - 8.1)
Dissolved Oxygen (% Saturation)		81 (67 - 97)	83 (66 - 102)	80 (66 - 101)	77 (61 - 91)	78 (61 - 106)
	Bottom	75 (43 - 96)	82 (59 - 101)	73 (37 - 95)	74 (40 - 93)	76 (58 - 106)
pH		7.9 (7.6 - 8.2)	8.0 (7.6 - 8.2)	7.9 (7.6 - 8.2)	7.9 (7.6 - 8.2)	7.9 (7.5 - 8.3)
Secchi Disc Depth (m)		2.8 (1.9 - 4.5)	2.7 (2.0 - 4.7)	2.7 (2.0 - 4.5)	2.4 (1.8 - 3.0)	2.4 (2.0 - 4.0)
Turbidity (NTU)		4.9 (0.4 - 13.2)	4.7 (0.7 - 15.0)	5.8 (0.5 - 17.1)	6.1 (1.1 - 15.1)	4.7 (0.9 - 22.0)
Suspended Solids (mg/L)		6.6 (4.3 - 10.4)	7.2 (3.1 - 13.0)	7.0 (2.5 - 12.6)	8.2 (3.1 - 14.7)	7.7 (3.9 - 14.0)
5-day Biochemical Oxygen Demand (mg/L)		0.8 (0.3 - 2.2)	0.9 (<0.1 - 2.3)	0.9 (0.3 - 2.2)	0.5 (0.1 - 1.5)	0.5 (0.1 - 1.4)
Ammonia Nitrogen (mg/L)		0.175 (0.070 - 0.260)	0.165 (0.064 - 0.250)	0.161 (0.050 - 0.250)	0.132 (0.050 - 0.210)	0.106 (0.041 - 0.190)
Unionised Ammonia (mg/L)		0.007 (0.002 - 0.017)	0.007 (0.003 - 0.020)	0.006 (0.002 - 0.016)	0.005 (0.003 - 0.010)	0.004 (<0.001 - 0.008)
Nitrite Nitrogen (mg/L)		0.024 (0.008 - 0.059)	0.024 (0.007 - 0.062)	0.026 (0.010 - 0.061)	0.033 (0.010 - 0.073)	0.043 (0.015 - 0.113)
Nitrate Nitrogen (mg/L)		0.145 (0.031 - 0.300)	0.140 (0.019 - 0.247)	0.153 (0.071 - 0.247)	0.183 (0.063 - 0.313)	0.261 (0.054 - 0.400)
Total Inorganic Nitrogen (mg/L)		0.34 (0.17 - 0.60)	0.33 (0.16 - 0.46)	0.34 (0.15 - 0.53)	0.35 (0.23 - 0.53)	0.41 (0.21 - 0.56)
Total Kjeldahl Nitrogen (mg/L)		0.61 (0.31 - 1.39)	0.56 (0.26 - 1.53)	0.55 (0.29 - 1.27)	0.51 (0.26 - 1.30)	0.47 (0.24 - 0.91)
Total Nitrogen (mg/L)		0.78 (0.45 - 1.55)	0.72 (0.52 - 1.69)	0.73 (0.38 - 1.42)	0.72 (0.37 - 1.50)	0.77 (0.44 - 1.17)
Orthophosphate Phosphorus (mg/L)		0.021 (0.006 - 0.029)	0.017 (0.003 - 0.030)	0.022 (0.003 - 0.034)	0.021 (0.007 - 0.029)	0.020 (0.006 - 0.029)
Total Phosphorus (mg/L)		0.05 (0.03 - 0.06)	0.04 (0.03 - 0.07)	0.05 (0.03 - 0.06)	0.04 (0.03 - 0.06)	0.04 (0.03 - 0.05)
Silica (as SiO_2) (mg/L)		0.95 (0.32 - 1.97)	0.88 (0.24 - 1.87)	1.03 (0.34 - 1.87)	1.16 (0.25 - 1.93)	1.51 (0.36 - 2.57)
Chlorophyll-*a* (µg/L)		5.1 (0.4 - 24.7)	6.1 (0.3 - 34.7)	4.9 (0.5 - 28.0)	3.9 (0.3 - 23.0)	3.1 (0.4 - 12.4)
E.coli (count/100mL)		600 (92 - 4700)	430 (16 - 15000)	290 (78 - 2300)	610 (82 - 3100)	320 (120 - 1000)
Faecal Coliforms (count/100mL)		1500 (260 - 11000)	990 (30 - 33000)	720 (200 - 3400)	1600 (200 - 8100)	850 (320 - 3100)

Note : 1. Unless otherwise specified, data presented are depth-averaged (A) values calculated by taking the means of three depths: Surface (S), Mid-depth (M), Bottom (B).

2. Data presented are annual arithmetic means of the depth-averaged results except for *E. coli* and faecal coliforms which are annual geometric means.

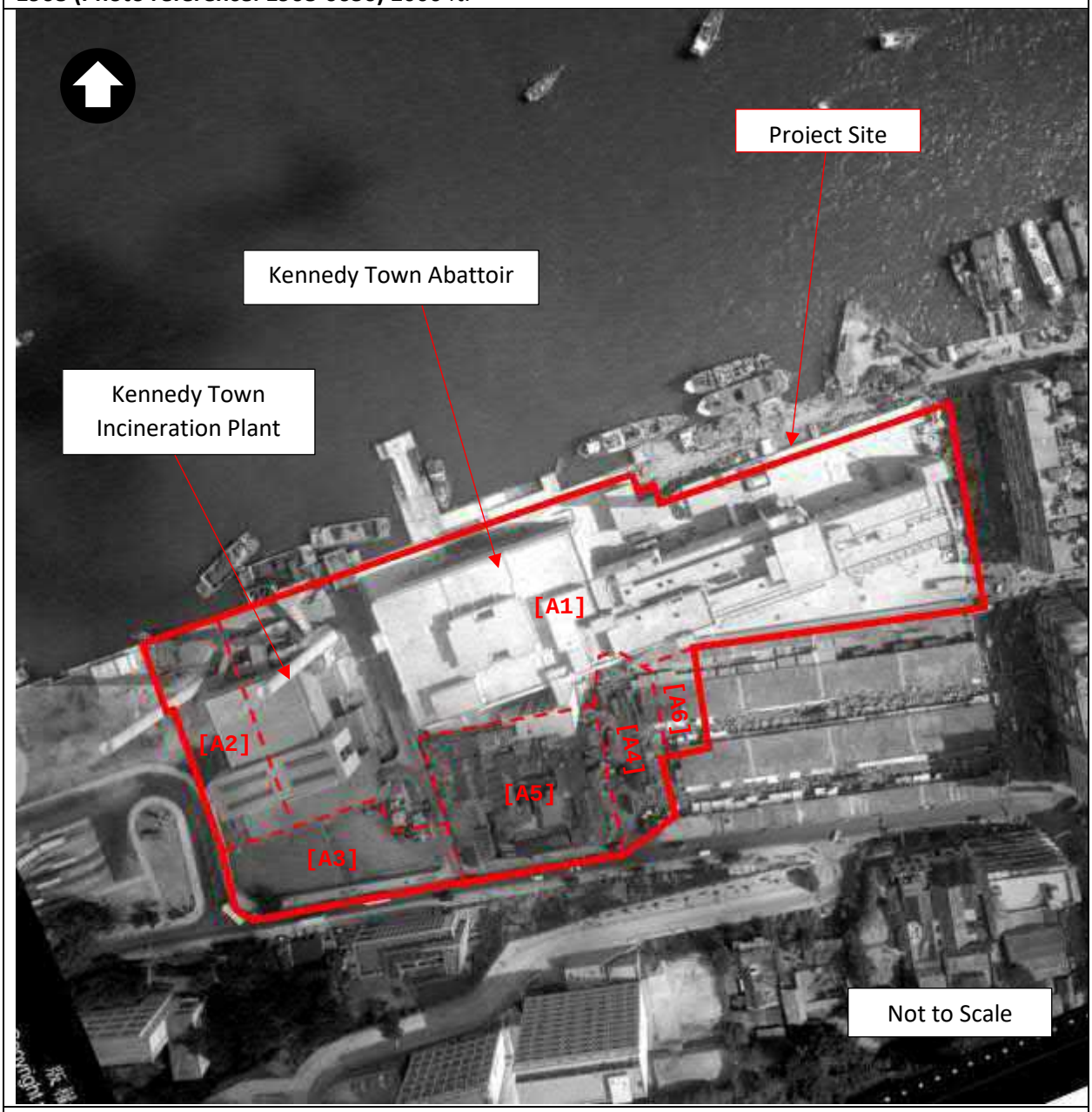
3. Data in brackets indicate the ranges.

APPENDIX 6.1

HISTORICAL AERIAL AND RECENT PHOTOGRAPHS

Photo No. 1

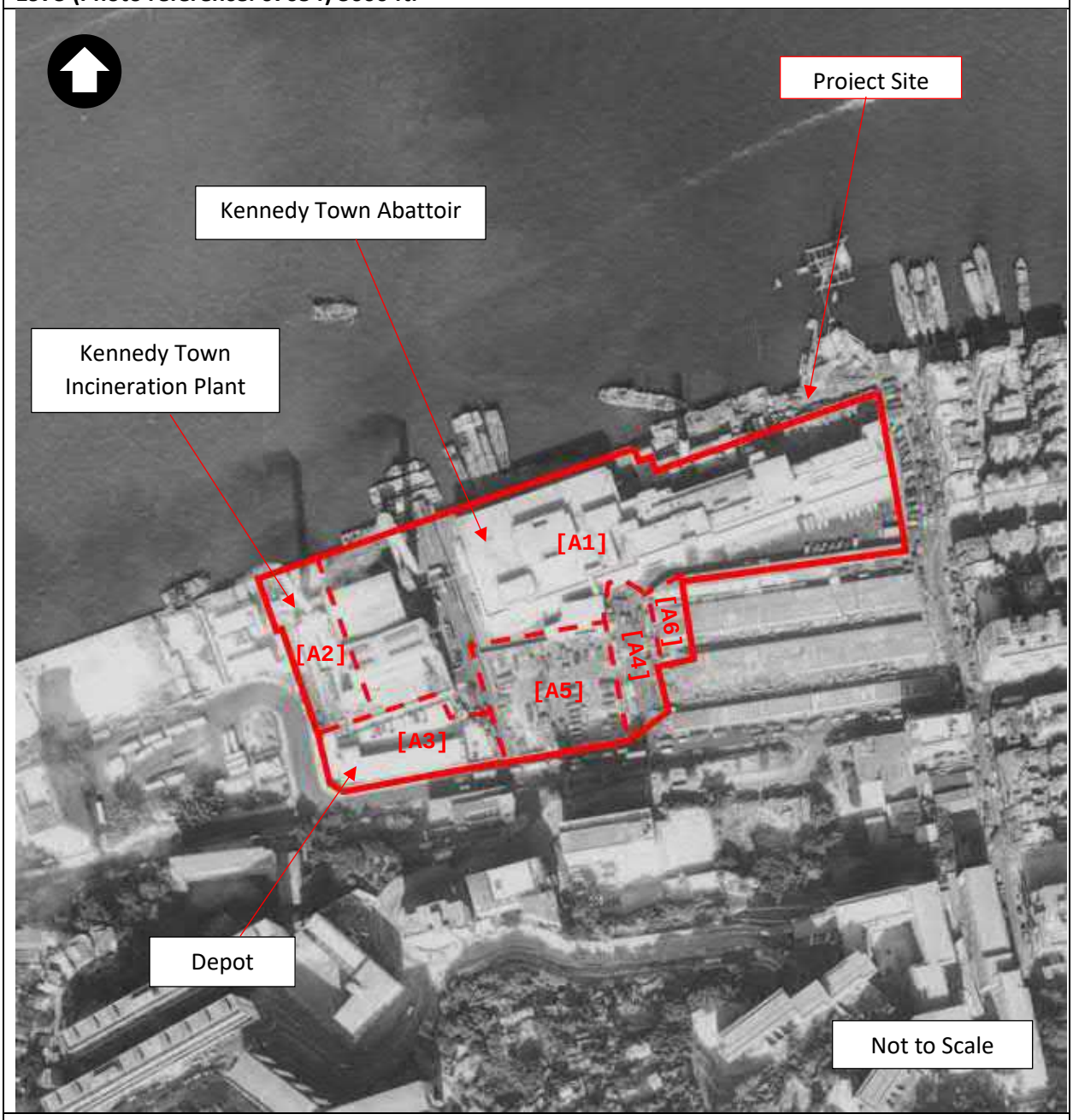
1968 (Photo reference: 1968-0636) 2000 ft.



Description:
Project Site occupied by Kennedy Town Abattoir and Kennedy Town Incineration Plant.

Photo No. 2

1973 (Photo reference: 07054) 3000 ft.

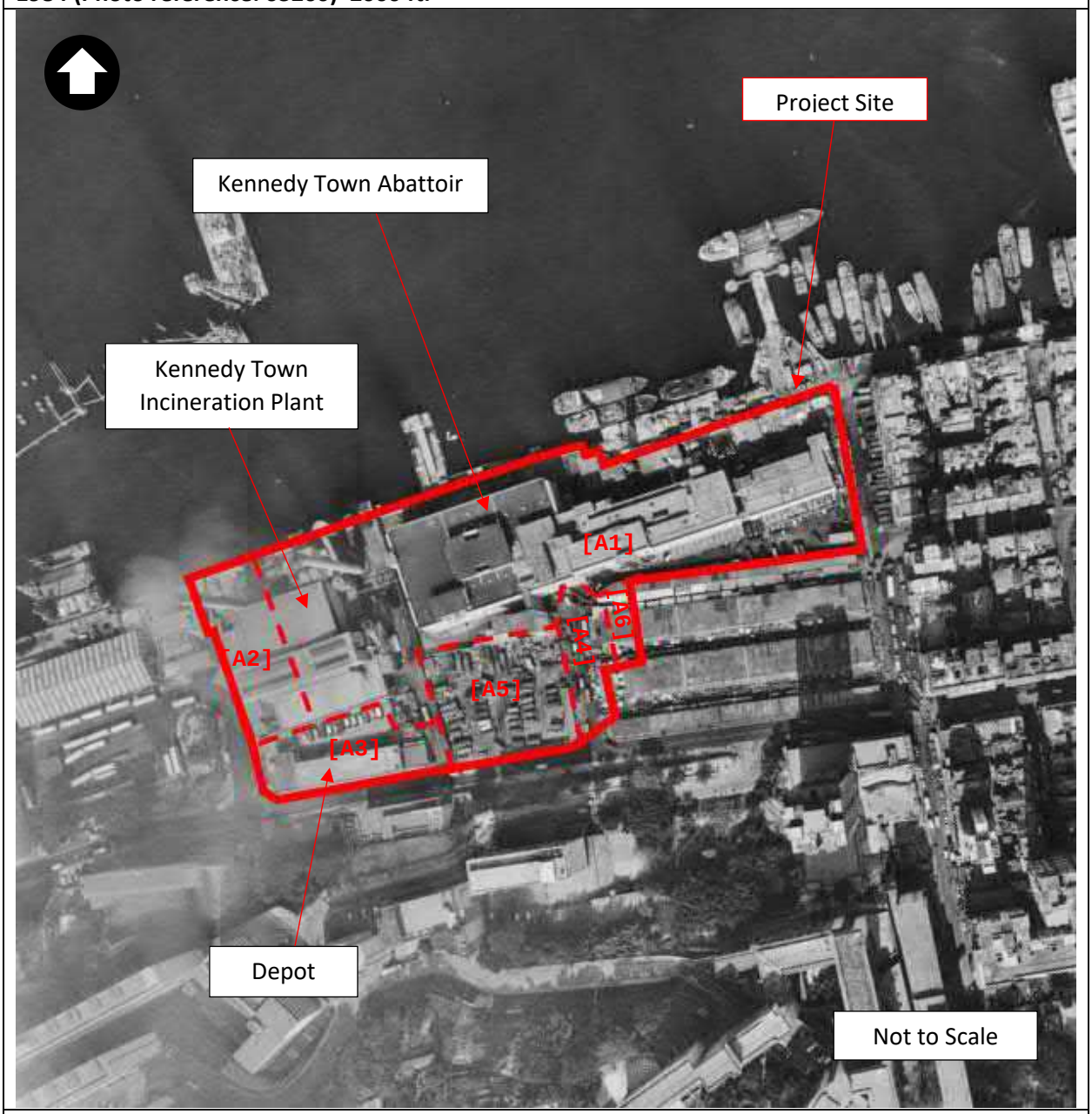


Description:

Project Site occupied by Kennedy Town Abattoir and Kennedy Town Incineration Plant. Area south of the abattoir used as a car park/depot. Land south of the incineration plant is occupied by a structure and parking area.

Photo No. 3

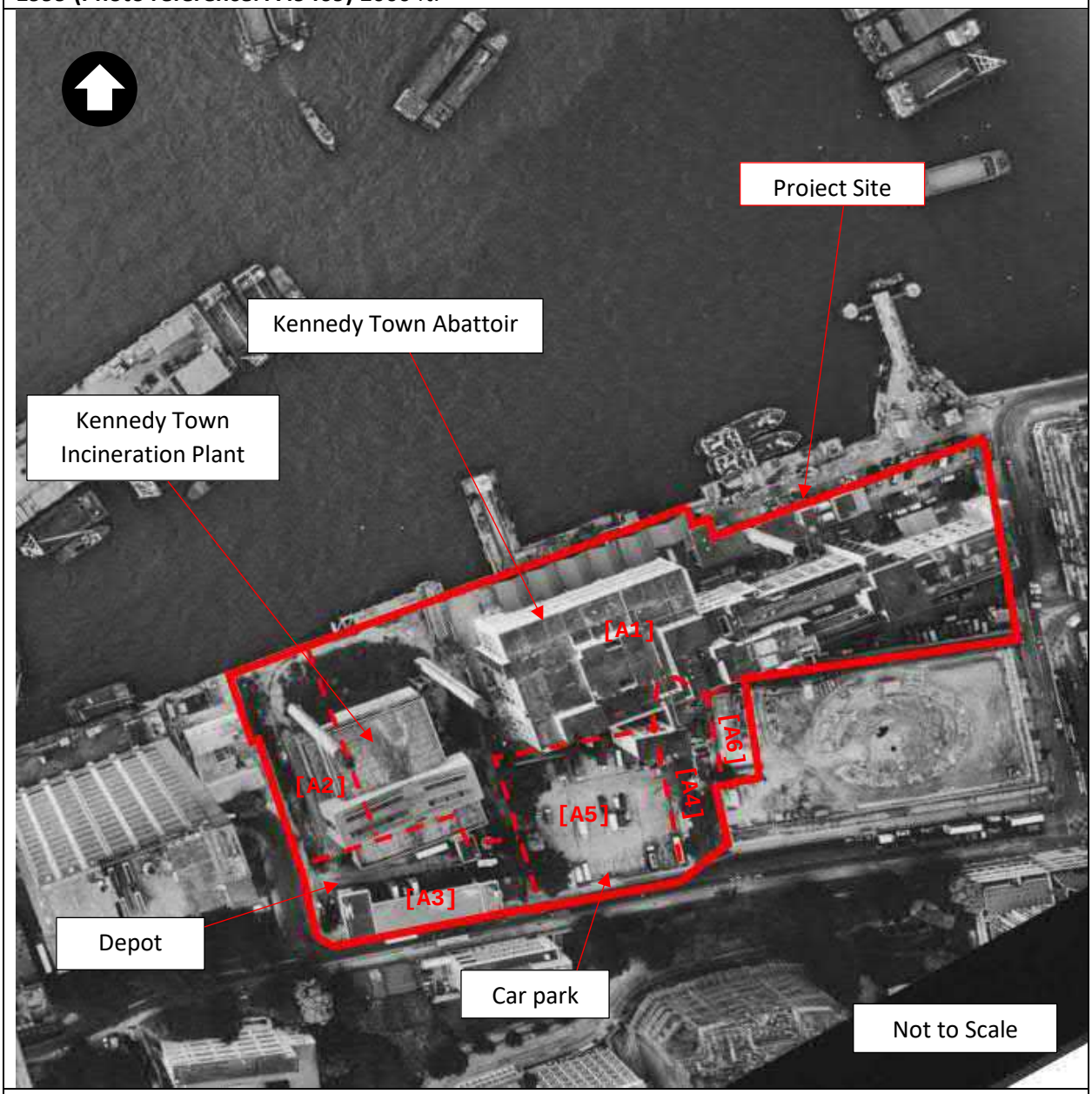
1984 (Photo reference: 63260) 2000 ft.



Description:
Project Site occupied by Kennedy Town Abattoir, Kennedy Town Incineration Plant.

Photo No. 4

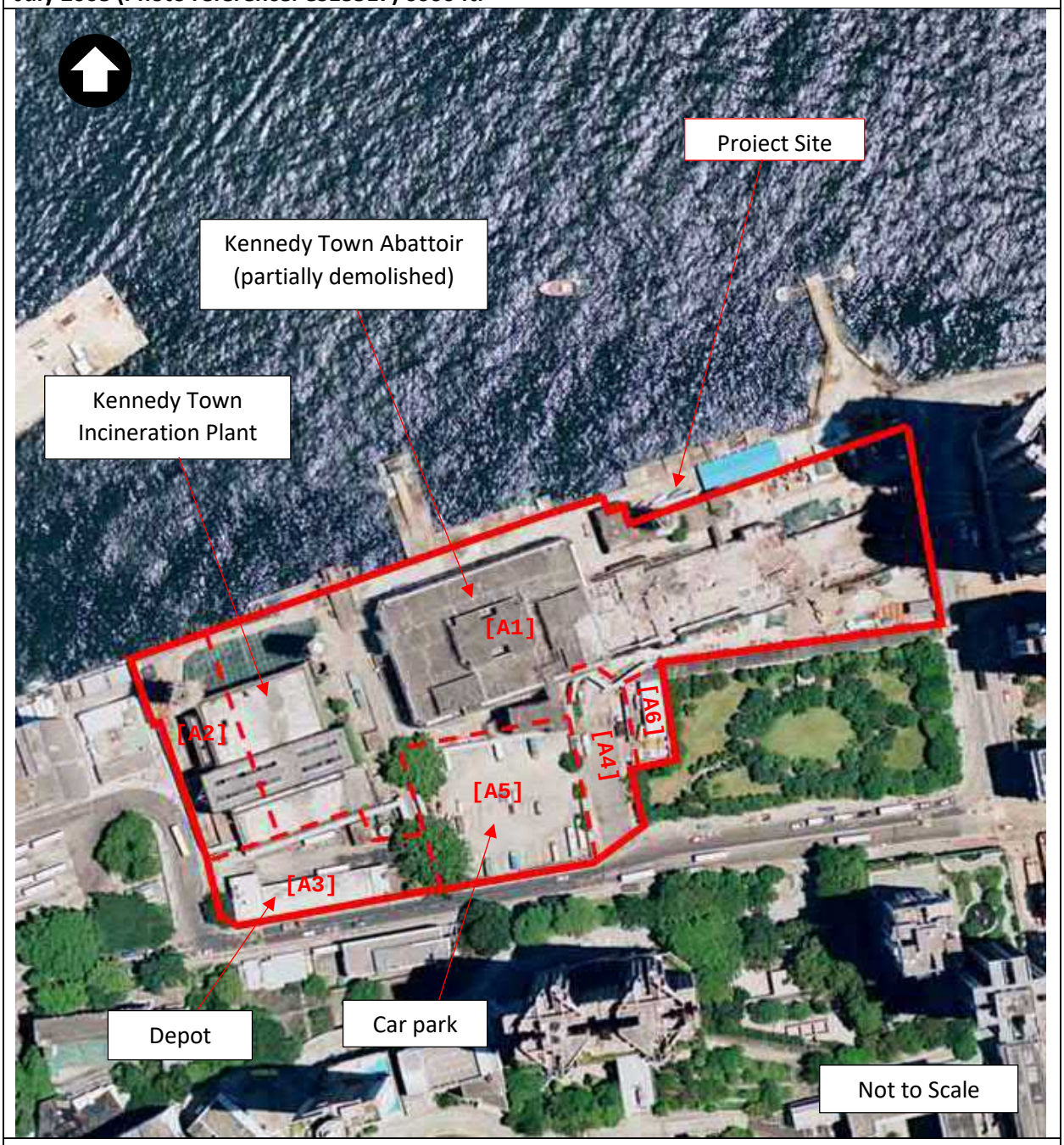
1999 (Photo reference: A49409) 2000 ft.



Description:
Project Site occupied by Kennedy Town Abattoir, and Kennedy Town Incineration Plant.

Photo No. 5

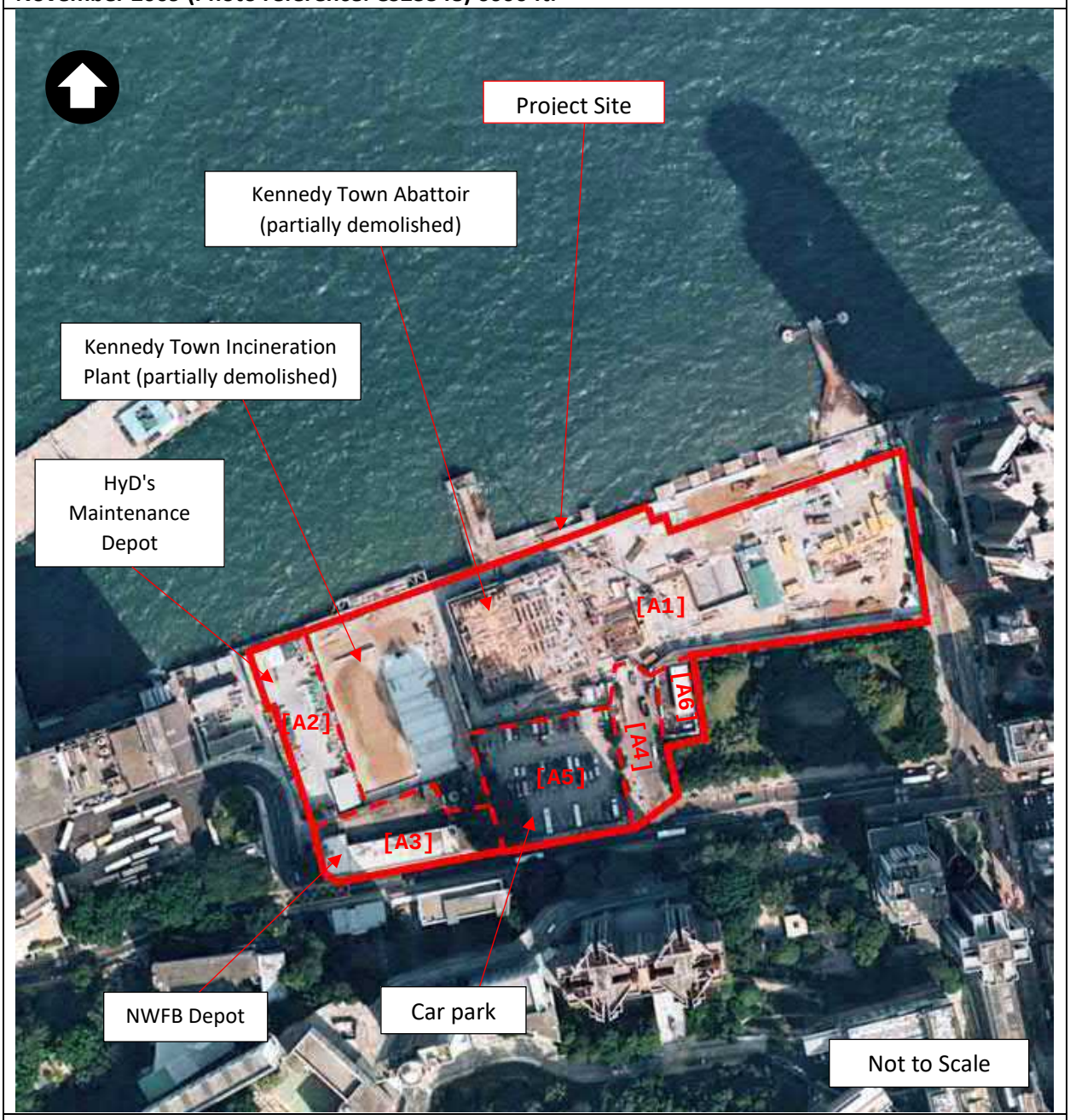
July 2008 (Photo reference: CS13517) 6000 ft.



Description:
Kennedy Town Abattoir has been partially demolished.

Photo No. 6

November 2009 (Photo reference: CS23348) 6000 ft.



Description:
Demolition and removal of Kennedy Town Incineration Plant and associated buildings and structures and Kennedy Town Abattoir are in the midst. Reinforced concrete chimneys have been removed.

Photo No. 7

May 2010 (Photo reference: CS28775) 6000 ft.

Description:
Kennedy Town Incineration Plant and Abattoir and their associated buildings and structures have been removed. Area of ex-Kennedy Town Incineration Plant and Abattoir is occupied by depot.

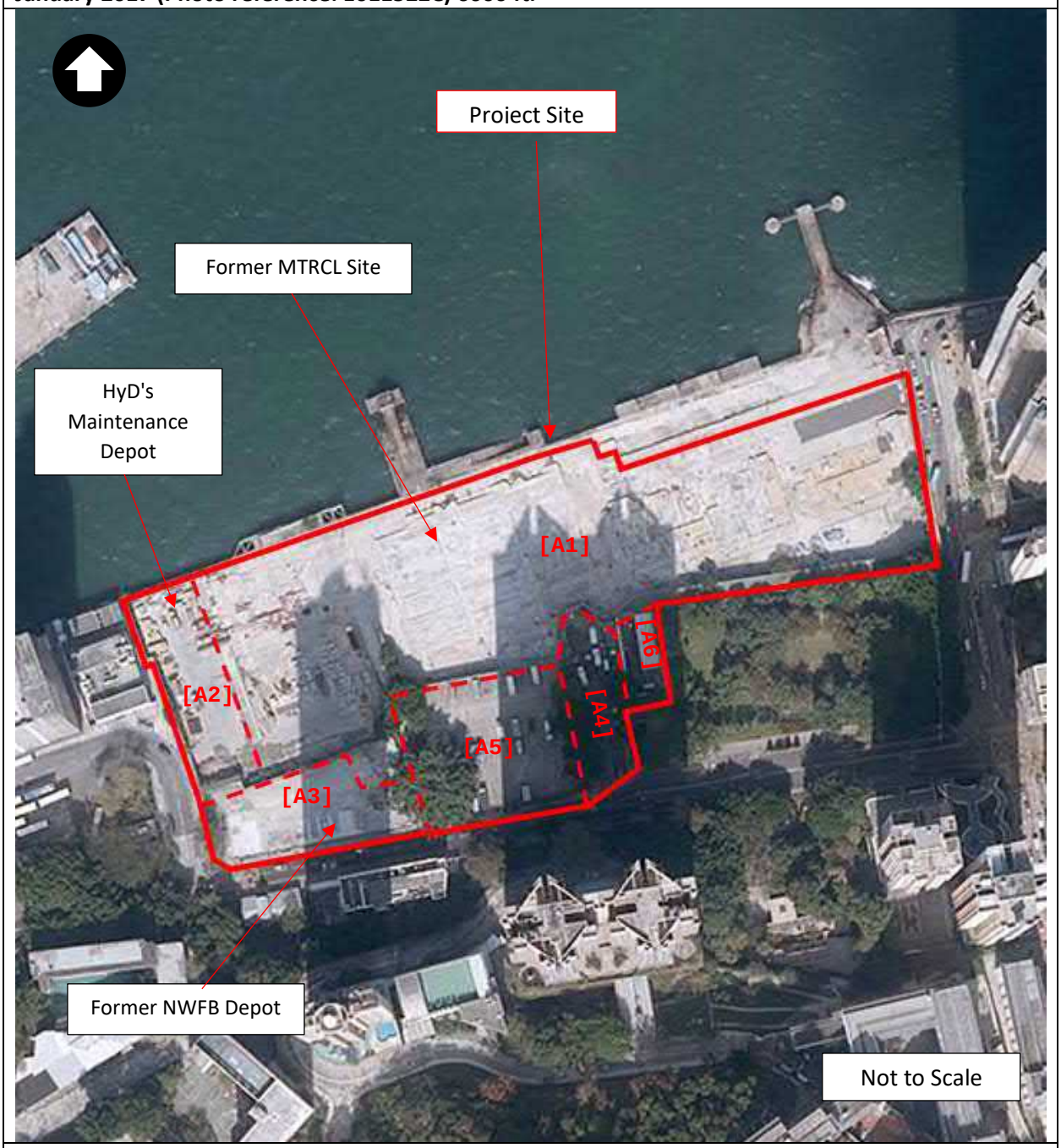
Photo No. 8

December 2015 (Photo reference: CW117262) 2000 ft.

Description:
Part of the depot in area of ex-Kennedy Town Incineration Plant and Abattoir has been removed. No significant change is observed in other area of the Project Site.

Photo No. 9

January 2017 (Photo reference: E011522C) 6000 ft.



Description:
Depot in the west-southern part of the Project Site has been removed. No significant change is observed in other area of the Project Site.

Photo No. 10

January 2019 (Photo reference: E056386C) 8000 ft.

Description:
No significant change is observed.

Other Photographic Images of the Project Site

Photo No. 11 – Project Site and surrounding area. Photo taken in the 1960s.

Other Photographic Images of the Project Site

Photo No. 12 – Project Site and surrounding area. Photo taken in the 1990s.

Other Photographic Images of the Project Site

Photo No. 13 – Project Site and surrounding area. Associated buildings, structures, and reinforced concrete chimneys have been demolished and removed. Photo taken in the early 2010s.

Other Photographic Images of the Project Site

Photo No. 14 – Project Site and surrounding area. Photo taken in June 2020.

APPENDIX 6.2

INFORMATION REQUEST LETTER

15 May 2020 By Mail

Our ref: 2512199A-GN-00010/20

Environmental Protection Department
Environmental Compliance Division
Regional Office (South),
2nd floor, Chinachem Exchange Square,
1 Hoi Wan Street,
Quarry Bay, Hong Kong

Dear Sir / Madam,

Agreement No. CE 13/2019 (CE)
Ground Decontamination Works at the Site of Ex-Kennedy Town Incineration Plant/Abattoir and Adjoining Area – Design and Construction
Request for Information – Historical Records of Chemical Spillage / Leakage

We are currently undertaking Contamination Reviews for previous developments on the ex-Kennedy Town Incineration Plant, the ex-Kennedy Town Abattoir and adjoining area (as shown in the enclosed location plan) on behalf of Civil Engineering and Development Department. A copy of the Letter of Appointment is attached.

In order to facilitate our land contamination assessment, it would be grateful if the following information of the Project Site could be provided:

(i) Historical records of chemical and dangerous spillage / leakage.

Due to tight programme of the captioned project, it is appreciated if your reply on the above request could be available by 5 June 2020. A nil return is also required. Should you have any queries, please feel free to contact our Dr Alex CHEUNG at 3900 2021 or Ms. Steffi TO at 2579 8583.

We thank you in anticipation for your kind assistance.

Yours faithfully,
For and on behalf of
WSP (ASIA) LIMITED

Kam MAK
Project Manager

KM/DCHC/BT/pl

Encl.

CEDD/Special Duties – Mr. KWOK Ho Yeung, Howard (w/e)

7/F One Kowloon
1 Wang Yuen Street
Kowloon Bay, Hong Kong

香港九龍灣宏遠街 1 號
一號九龍 7 字樓

T+ 852 2579-8899
F+ 852 2856-9902
wsp.com

802

本署檔案 EP749/I1/1
OUR REF:
來函檔案 2512199A-GN-00010/20
YOUR REF:
電　話 2516 1872
TEL NO:
圖文傳真 2960 1761
FAX NO:
網　址
HOMEPAGE: http://www.epd.gov.hk/

Environmental Protection Department
Environmental Compliance Division
Regional Office (South)
2/F., Chinachem Exchange Square
1 Hoi Wan Street
Quarry Bay, Hong Kong

環境保護署
環保法規管理科
區域辦事處(南)
香港鰂魚涌
海灣街一號
華懋交易廣場二樓

C0841953

29 May 2020

To: WSP (ASIA) LIMITED
7/F, One Kowloon
1 Wang Yuen Street,
Kowloon Bay, Hong Kong
(Attn: Mr. Kam MAK)

Dear Mr. MAK,

Agreement No. CE/13/2019 (CE)
Ground Decontamination Works at the Site of Ex-Kennedy Town Incineration Plant/Abattoir and Adjoining Area – Design and Construction
Request for Information – Historical Records of Chemical Spillage / Leakage

I refer to your letter referenced above dated 15 May 2020, requesting the following information with respect to study area in your attached figure:

(1) Historical records of chemical and dangerous spillage / leakage.

Please be advised that after going through our archive, we do not find any record of chemical and dangerous spillage / leakage incident in the above mentioned address. However, please be reminded that this information is not exhaustive and you are advised to check with other concerned parties/authorities responsible for handling chemical and dangerous spillage / leakage incidents. You may also consider taking samples for your study of land contamination, if necessary.

Yours sincerely,

H Chan

(Huygens CHAN)
for Director of Environmental Protection

CWP Records

INVALID
(last updated on 13 May 2020)

Business Name	Address	Type of Operation
Sun Fook Kong Construction Limited	Ex-Abattoir, Cadogan Street, Contract MTR 714	Construction
Swire SITA Waste Services Limited	End of Sai Ning Street	Solid Domestic Waste Transfer
Gammon-Nishimatsu WIL Joint Venture Project Office	Sai See Street MTR West Island Line Contract 704	Civil Engineers

消防處
香港九龍尖沙咀東部旅運道1號
消防總部大廈

FIRE SERVICES DEPARTMENT
FIRE SERVICES HEADQUARTERS BUILDING,
No.1 Hong Chong Road,
Tsim Sha Tsui East, Kowloon,
Hong Kong.

C0841947

本處檔號 OUR REF.	:	(45) in FSD GR 6-5/4 R Pt. 27
來函檔號 YOUR REF.	:	2512199A-GN-00011/20
電子郵件 E-mail	:	hkfsdenq@hkfsd.gov.hk
圖文傳真 FAX NO.	:	2739 5879
電　話 TEL NO.	:	2733 7741

EDMS			
Received On	22 MAY 2020		
Project No.			
Scanned	Y/N		
Distribution		Signature	Remarks
Lo / [illegible]		21 May 2020	
Rescan		Y/N	
DWG / CD Kept by			

WSP
7/F One Kowloon,
1 Wang Yuen Street,
Kowloon Bay,
Hong Kong.
(Attn: Mr. Kam MAK, Project Manager)

By fax (2856 9902) only

Dear Mr. MAK,

Agreement No. CE 13/2019 (CE)
Ground Decontamination Works at the Site of Ex-Kennedy Town Incineration Plant/Abattoir and Adjoining Area – Design and Construction
Request for Information of Dangerous Goods & Incident Records

I refer to your letter of 15.5.2020 regarding the captioned subject.

Your case is being handled, and a reply will be furnished to you as soon as possible. Please be advised that due to time lapse, this Department can only provide the following information for your requested information:

(i) Dangerous Goods Licence Record: from the year of 1990 to present moment.

(ii) Incident Record: Past three years of fire and special services incidents.

Please also submit the appointment letter from your client for record.

Should you have further questions, please feel free to contact the undersigned.

Yours sincerely,

(KONG Wai-chung)
for Director of Fire Services

Ref. number and date should be quoted in reference to this letter
凡提及本信時請引述編號及日期

Yeung, Irene Wai-Man

From: howardhykwok@cedd.gov.hk
Sent: Wednesday, January 6, 2021 6:02 PM
To: Cheung, Alex Wai-Hung
Cc: Wan, Emeric Wai-Keung; Chan, Dennis Chun-Hing; Li, Ellis Chi-Pan; Yeung, Irene Wai-Man; derekhfkwok@cedd.gov.hk
Subject: 轉寄: Re: Ground Decontamination Works at the Site of Ex-Kennedy Town Incineration Plant/Abattoir and Adjoining Area - Request for Information of Dangerous Goods & Incident Records

Follow Up Flag: Follow up
Flag Status: Flagged

Dear Alex,

For your information please.

Regards,
Howard Kwok
E/5, SD(W), CEDD
Tel: 2762 5237
----- Forwarded by HOWARD HO YEUNG KWOK/CEDD/HKSARG on 06/01/2021 17:59 -----

From: ADO MG1/FSD/HKSARG@FSD
To: HOWARD HO YEUNG KWOK/CEDD/HKSARG@CEDD
Cc: OE6 MG/FSD/HKSARG@FSD
Date: 06/01/2021 17:42
Subject: Re: Ground Decontamination Works at the Site of Ex-Kennedy Town Incineration Plant/Abattoir and Adjoining Area - Request for Information of Dangerous Goods & Incident Records

---

Dear Mr. KWOK,

I refer to your preceding email regarding the captioned request.

Please be informed that no record of incident of spillage / leakage of dangerous goods was found at the aforesaid location with your given conditions.

Dangerous goods approval has been granted in respect of the captioned address with details as follow:

Item	Type of DG	Quantity	Storage Method	Status
1	Diesel	45,460 Litres	Cat. 5 DG Store	Cancelled

Regards,

(NG Wing-chit)
Assistant Divisional Officer
(Management Group)1
Fire Services Department
Office: 2733 7741
Fax: 2739 5879

15 May 2020 By Post

Our ref: 2512199A-GN-00008/20

Lands Department
District Lands Office, Hong Kong West and South
3rd, 19th and 20th floor,
Southorn Centre, 130 Hennessy Road,
Wan Chai, Hong Kong

Attn: Mr CHAN Tat Choi, Rex

Dear Sir,

Agreement No. CE 13/2019 (CE)
Ground Decontamination Works at the Site of Ex-Kennedy Town Incineration Plant/Abattoir and Adjoining Area – Design and Construction
Request for Information – Current and Past Land Uses

We are currently undertaking Contamination Reviews for previous developments on the ex-Kennedy Town Incineration Plant, the ex-Kennedy Town Abattoir and adjoining area (as shown in the enclosed location plan) on behalf of Civil Engineering and Development Department. A copy of the Appointment Memo is attached.

In order to facilitate our land contamination assessment, it would be grateful if the following information of the Project Site could be provided:

(i) Current and past land uses of the Site detailed with duration; and
(ii) Reported land contamination issues (e.g. chemical and dangerous goods spillage / leakage), if any.

Due to tight programme of the captioned project, it is appreciated if your reply on the above request could be available by 5 June 2020. A nil return is also required. Should you have any queries, please feel free to contact our Dr Alex CHEUNG at 3900 2021 or Ms. Steffi TO at 2579 8583.

Yours faithfully,
For and on behalf of
WSP (ASIA) LIMITED

Kam MAK
Project Manager

KM/DCHC/BT/pl

Encl.

CEDD/Special Duties – Mr. KWOK Ho Yeung, Howard (w/e)

7/F One Kowloon
1 Wang Yuen Street
Kowloon Bay, Hong Kong

香港九龍灣宏遠街 1 號
一號九龍 7 字樓

T+ 852 2579-8899
F+ 852 2856-9902
wsp.com

From: eshkchf2@landsd.gov.hk <eshkchf2@landsd.gov.hk>
Sent: Monday, November 16, 2020 7:28 PM
To: Chan, Dennis Chun-Hing <Dennis.CH.Chan@wsp.com>
Cc: Cheung, Alex Wai-Hung <Alex.WH.Cheung@wsp.com>; derekhfkwok@cedd.gov.hk; Wan, Emeric Wai-Keung <Emeric.Wan@wsp.com>; howardhykwok@cedd.gov.hk
Subject: Re: CE13/2019 Request for Information - Current and Past Land Uses

Dear Dennis,

Refer to your email below, please find the current and past land uses details of the site as attached.

Best Regards,
Rex Chan
ES / C&HF(2)
Tel.: 2835 1701

From: "Chan, Dennis Chun-Hing" <Dennis.CH.Chan@wsp.com>
To: "eshkchf2@landsd.gov.hk" <eshkchf2@landsd.gov.hk>
Cc: "derekhfkwok@cedd.gov.hk" <derekhfkwok@cedd.gov.hk>, "howardhykwok@cedd.gov.hk" <howardhykwok@cedd.gov.hk>, "Wan, Emeric Wai-Keung" <Emeric.Wan@wsp.com>, "Cheung, Alex Wai-Hung" <Alex.WH.Cheung@wsp.com>
Date: 11/11/2020 16:39
Subject: CE13/2019 Request for Information - Current and Past Land Uses

---

Dear Rex,

I refer to our letter issued on 15 May 2020 for the captioned issue.
Your reply is still outstanding. It is grateful if you could reply us as soon as possible.

Best Regards,

Chan Chun Hing, Dennis

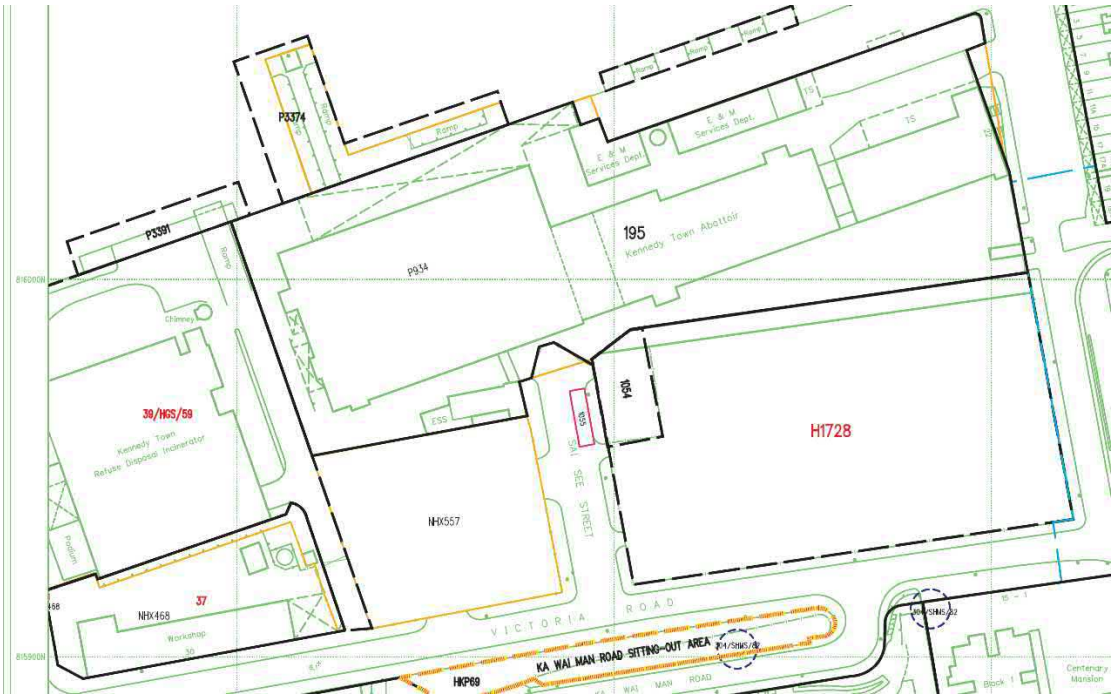
WSP (Asia) Limited
7/F One Kowloon, 1 Wang Yuen Street, Kowloon Bay, Hong Kong
Direct: +852 2579 7454

NOTICE: This communication and any attachments ("this message") may contain information which is privileged, confidential, proprietary or otherwise subject to restricted disclosure under applicable law. This message is for the sole use of the intended recipient(s). Any unauthorized use, disclosure, viewing, copying, alteration, dissemination or distribution of, or reliance on, this message is strictly prohibited. If you have received this message in error, or you are not an authorized or intended recipient, please notify the sender immediately by replying to this message, delete this message and all copies from your e-mail system and destroy any printed copies.

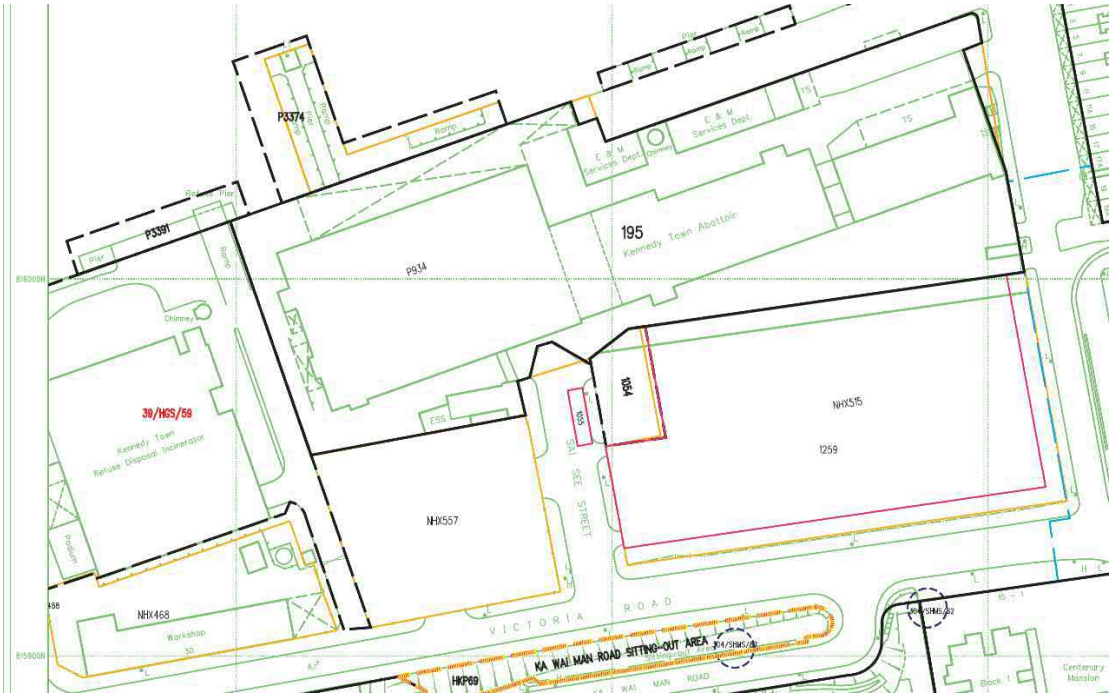
-LAEmHhHzdJzBITWfa4Hgs7pbKI

Part-print of Archived LSPs from 1997 to 2019 for
Ex-Kennedy Town Incineration Plant and Abattoir

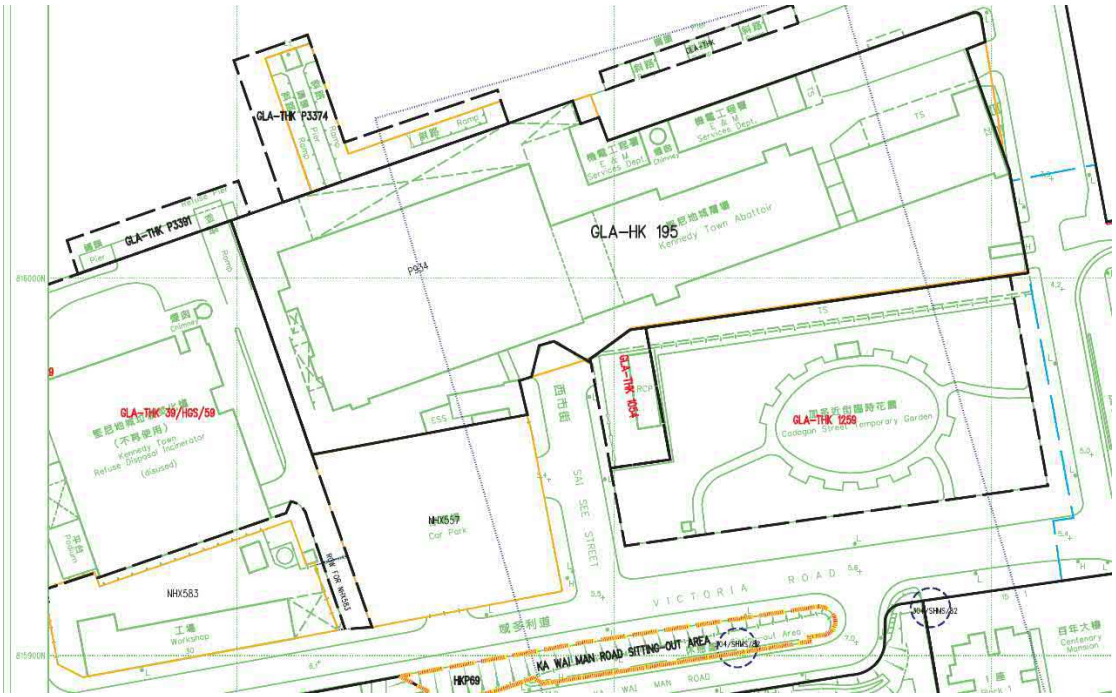
1997-07-12



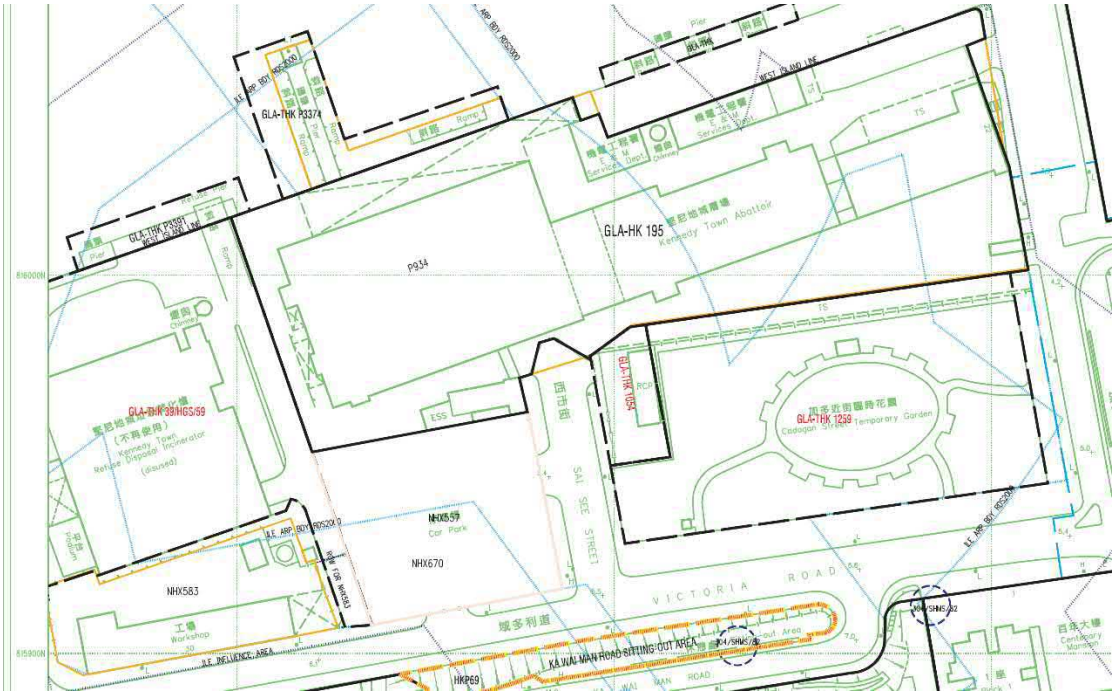
1998-07-04



2001-07-10

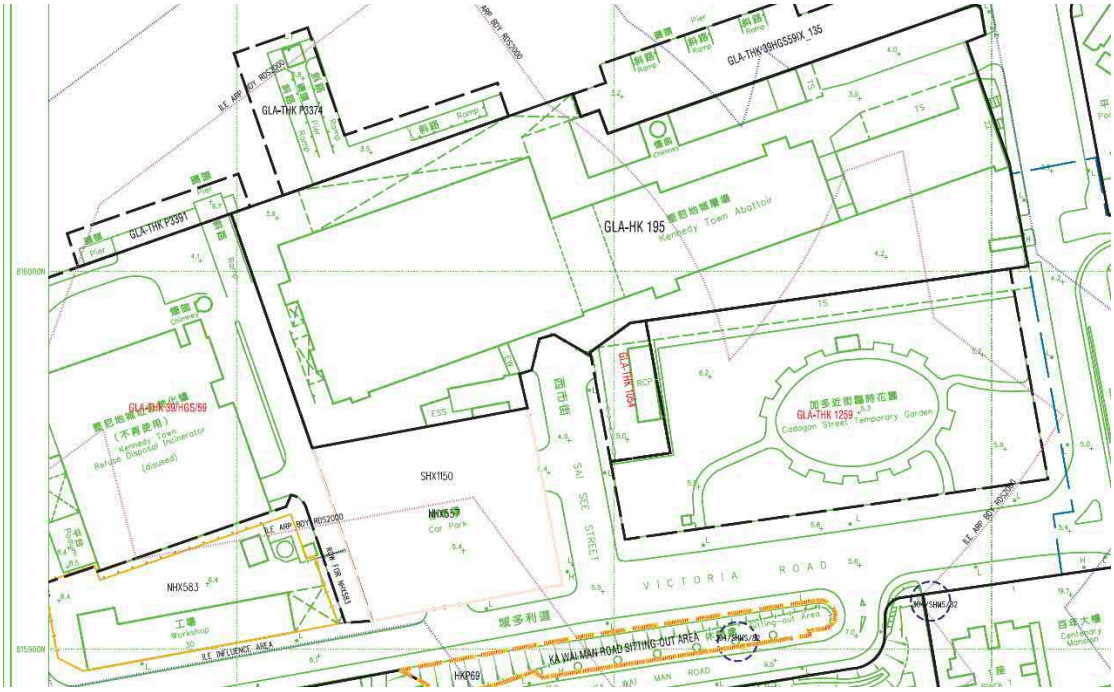


2003-07-06

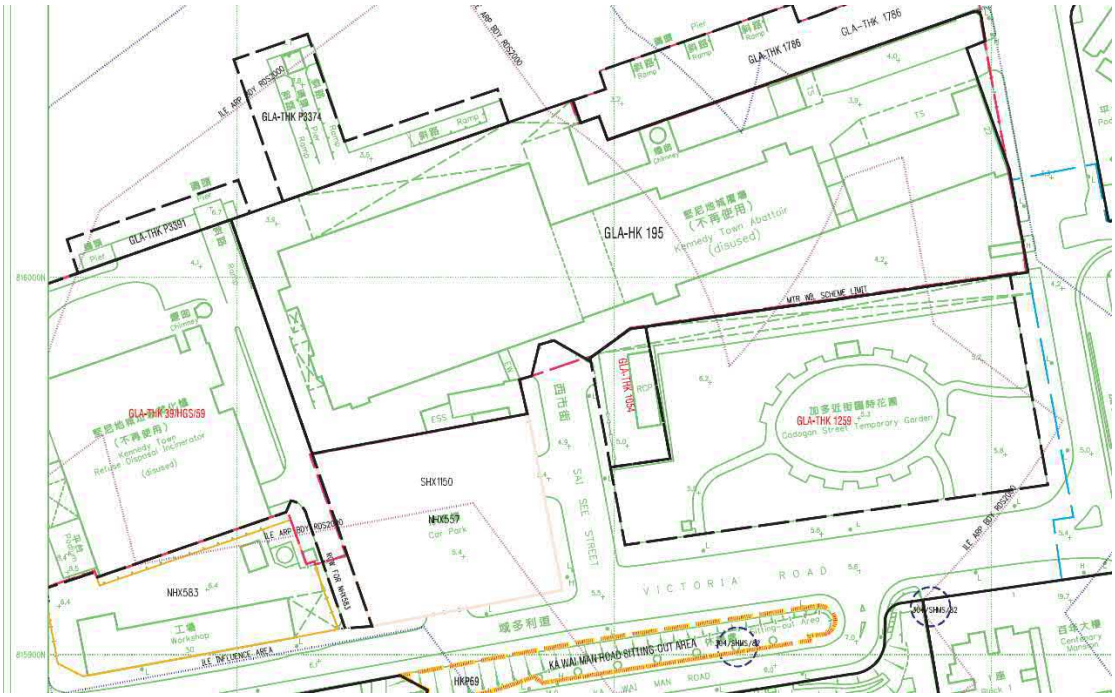


2005-06-30

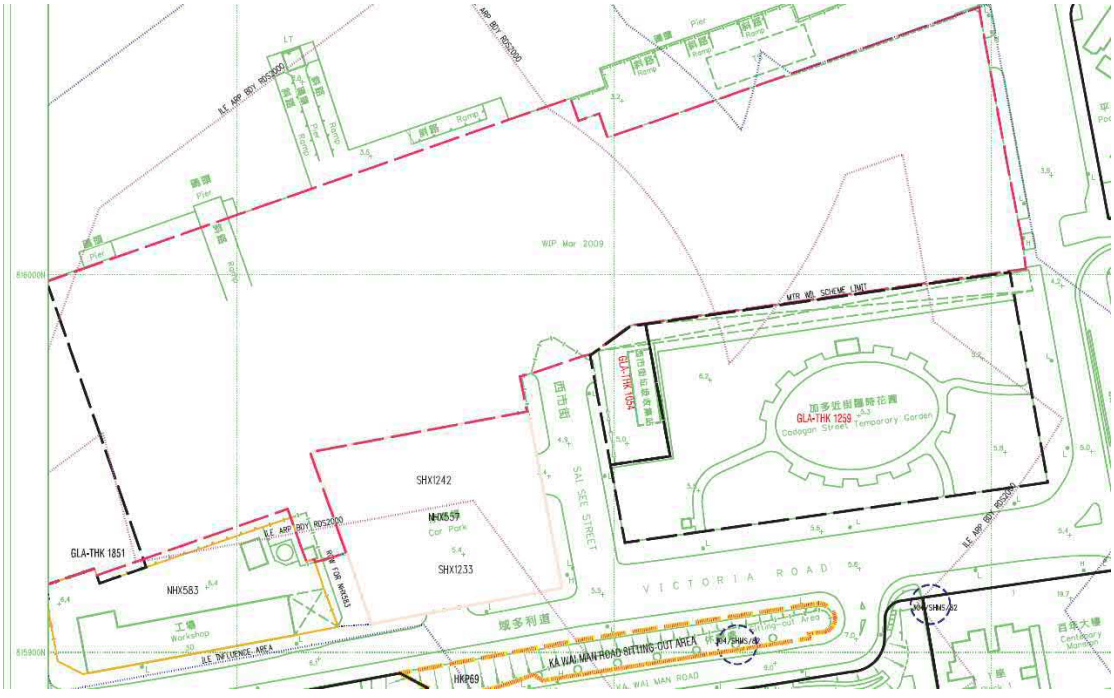
2007-07-31



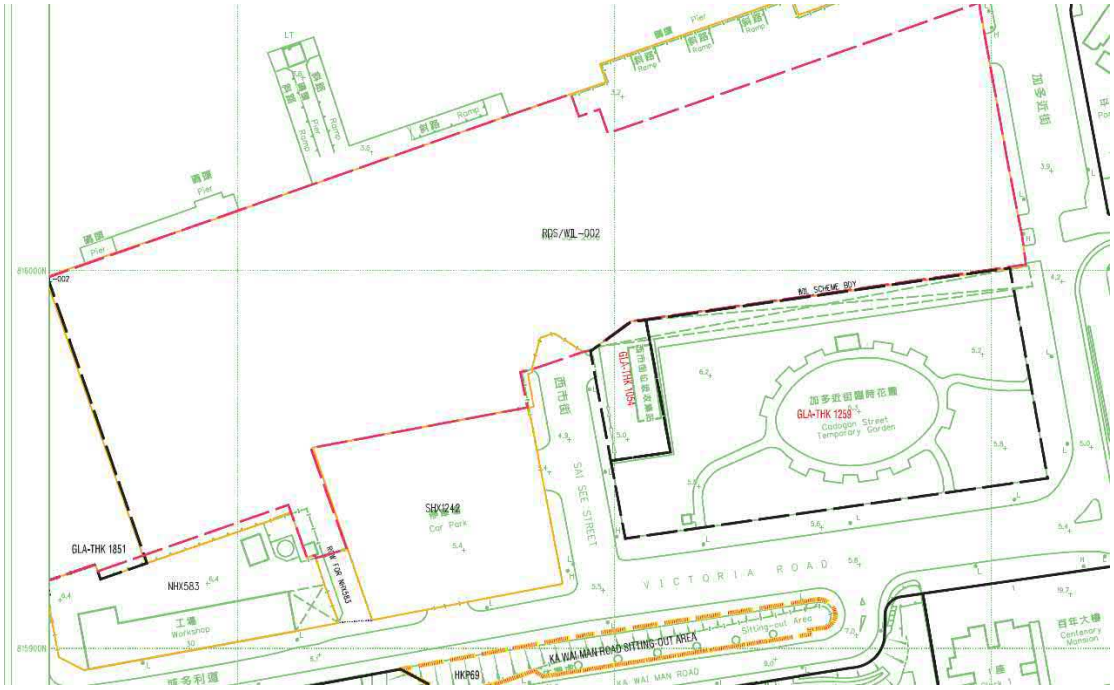
2008-09-25



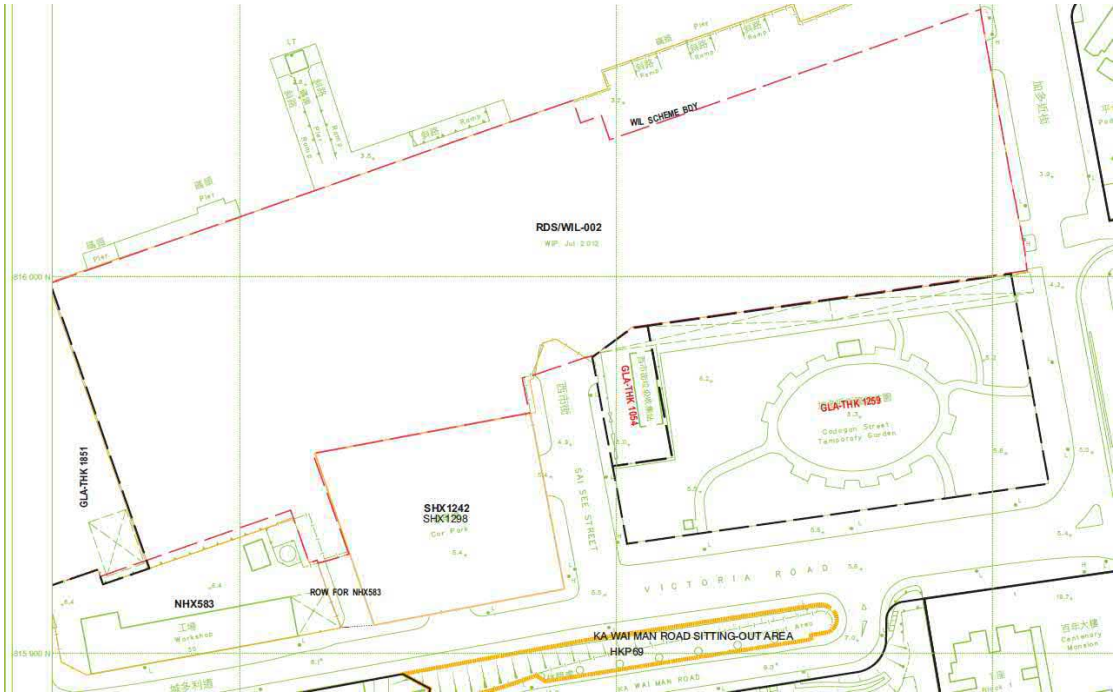
2009-07-15



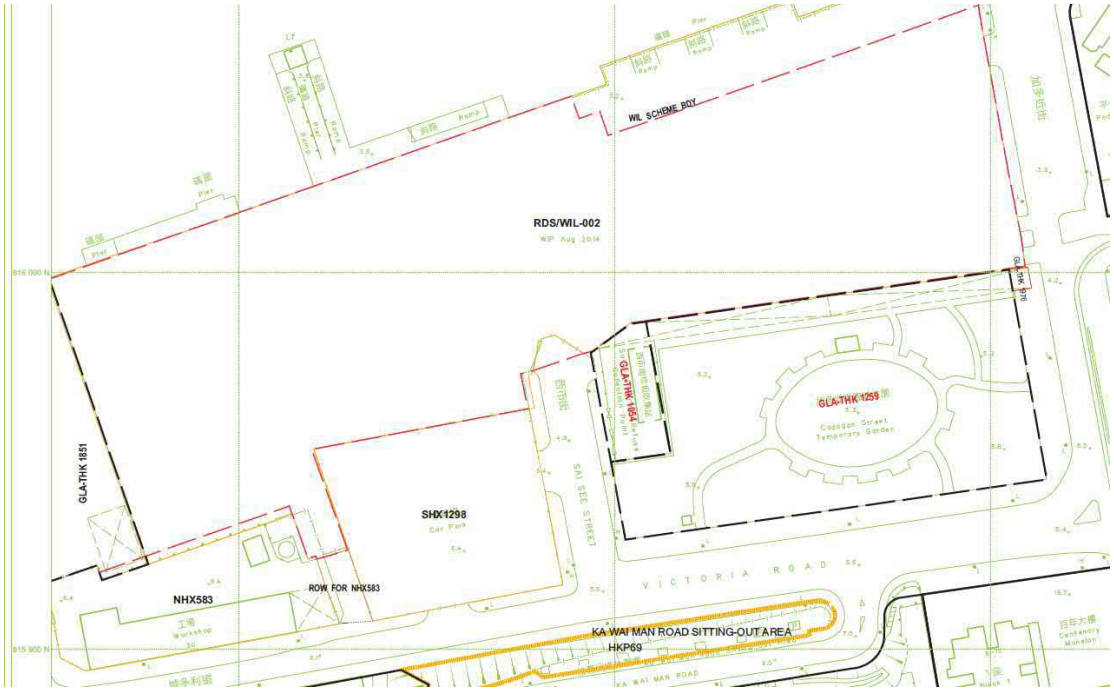
2010-07-17



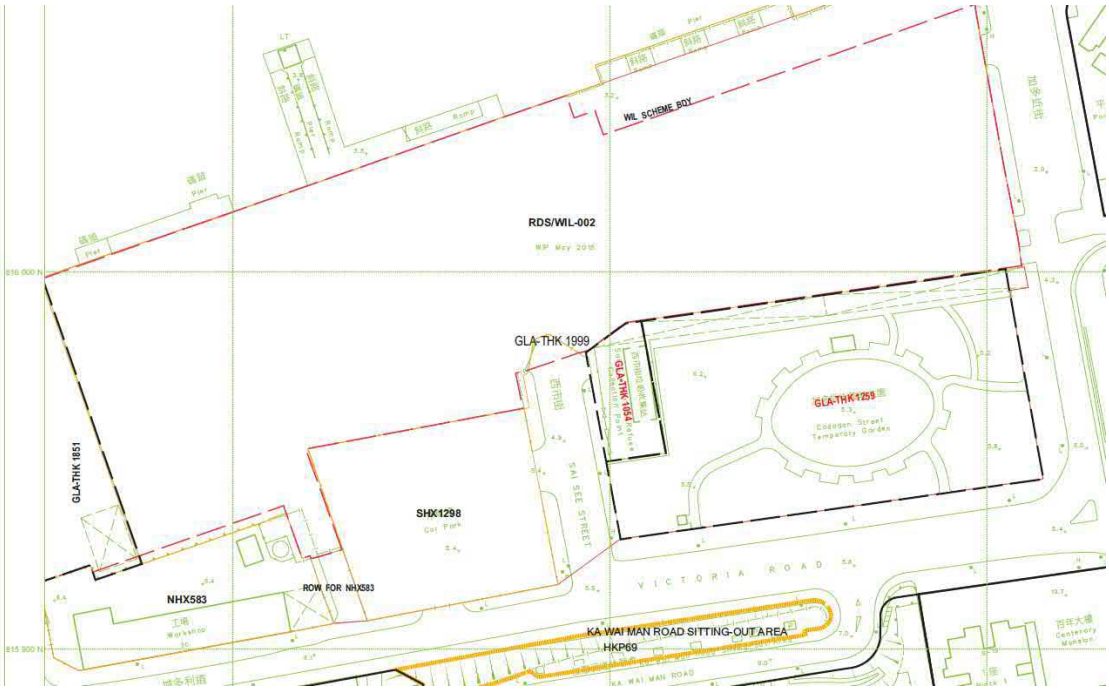
2012-09-18



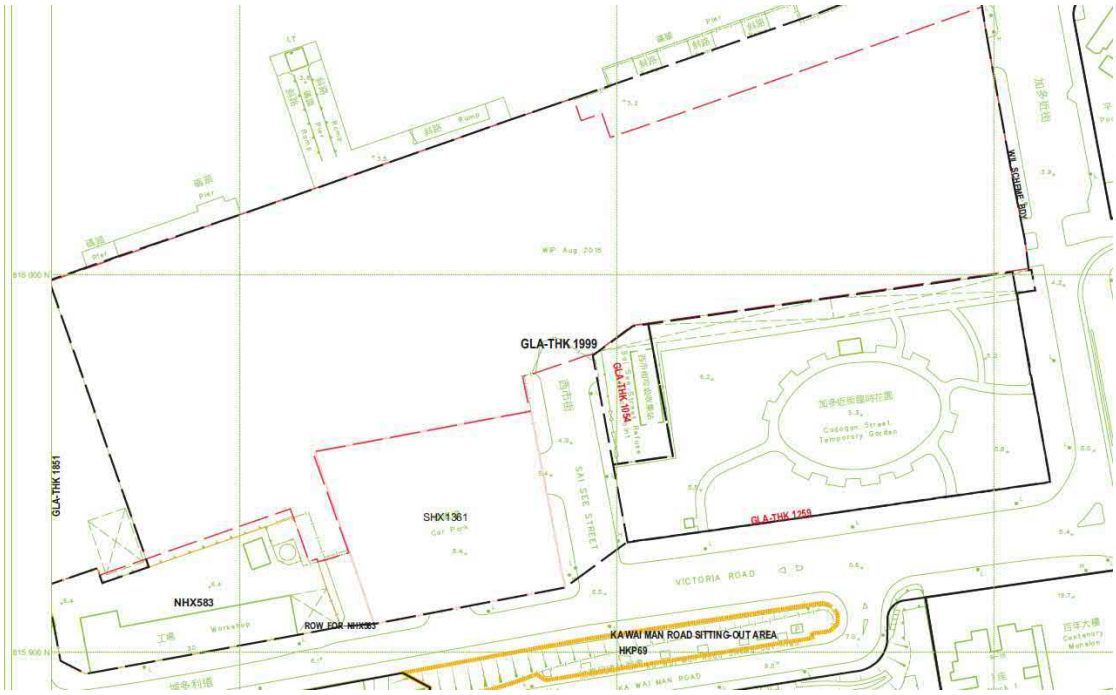
2014-08-05



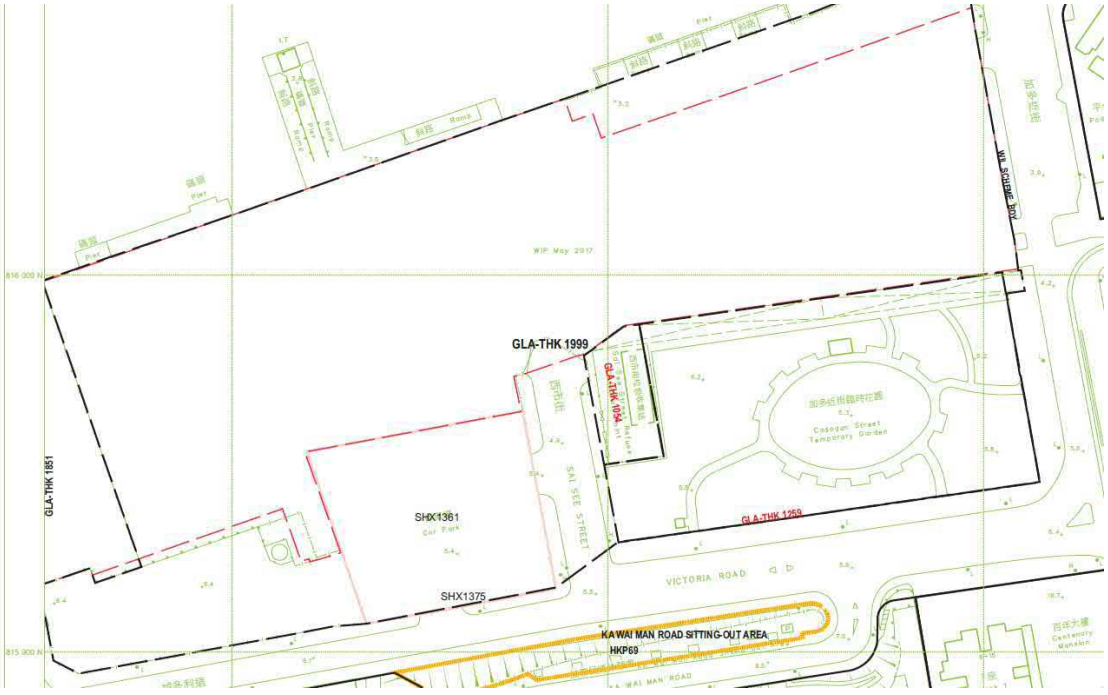
2015-06-26



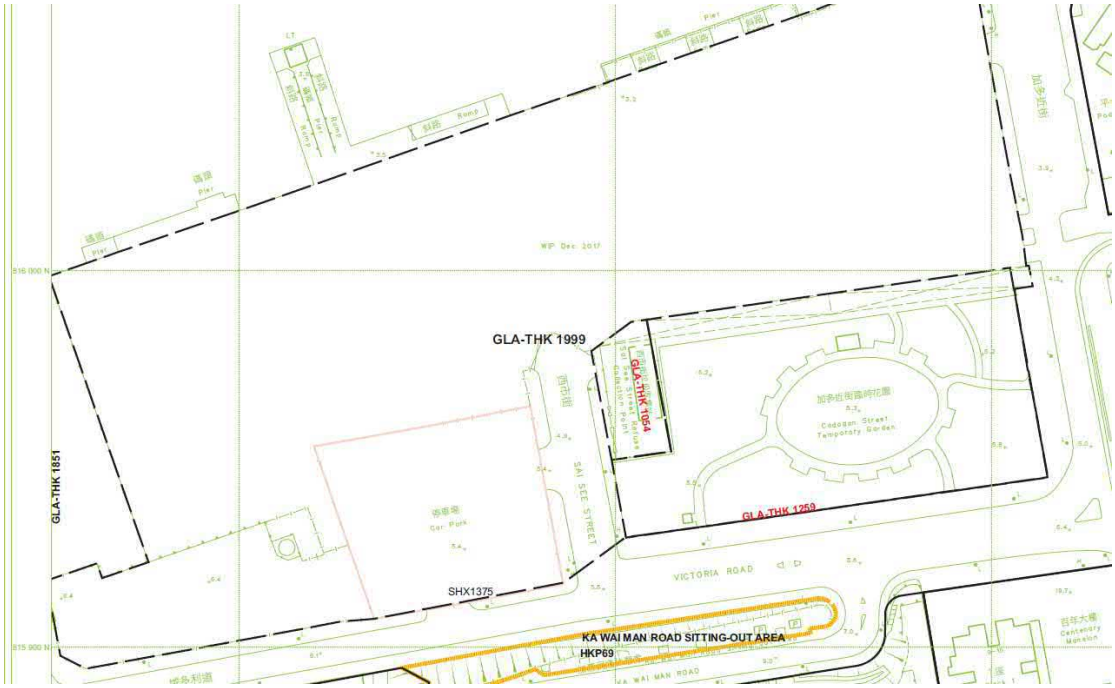
2016-07-26



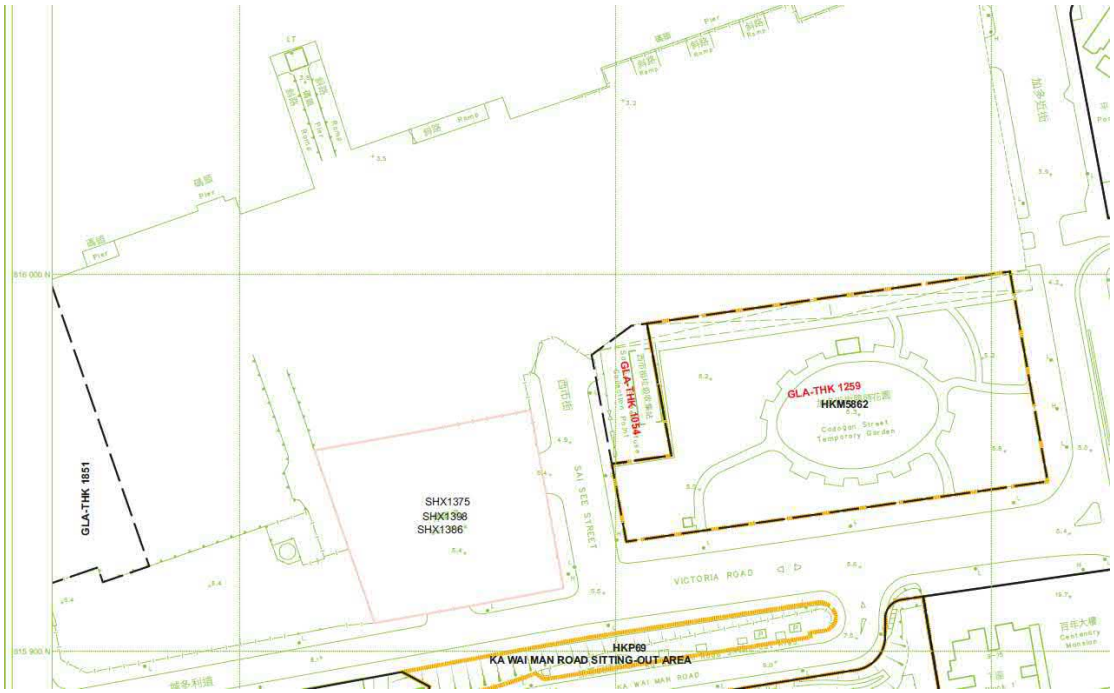
2017-07-06



2018-07-30



2019-08-19



HIGHWAYS DEPARTMENT
URBAN REGION
7-8 FLOORS, NORTH POINT GOVERNMENT OFFICES
333 JAVA ROAD NORTH POINT HONG KONG
Web site : http://www.hyd.gov.hk

By Fax
2856 9902

路 政 署
市區
北角渣華道 333 號
北角政府合署 7-8 樓
網址：http://www.hyd.gov.hk

[HVQSF]

C0936490

本署檔號 Our Ref.: (HVSVY)HyD UHK/12-9/11/1(DW)
來函檔號 Your Ref.: 2512199A-GN-00034/20
電 話 Tel. No.: 2231 5630
圖文傳真 Fax No.: 2576 6244

17 December 2020

WSP (Asia) Limited
7/F One Kowloon
1 Wang Yuen Street
Kowloon Bay, Hong Kong
(Attn: Mr. Emeric WAN)

Dear Sir,

Agreement No. CE 13/2019 (CE)
Ground Decontamination Works at the Site of Ex-Kennedy Town Incineration Plant / Abattoir and Adjoining Area - Design and Construction
Request for Information - Dangerous Goods Records and Historical Records of Dangerous Goods Spillage / Leakage

I refer to your above-quoted letter dated 16 November 2020 concerning the subject matter.

No chemicals or dangerous goods was stored at the maintenance depot at Sai Ning Street based on our record. We do not have any record of chemicals and dangerous goods spillage/leakage at the maintenance depot.

Concerning the general requirement for returning the site to Civil Engineering and Development Department (CEDD), please refer to the attached CEDD's memo ref. (0AHMX-01) in SDW PJ/732CL/03 dated 30 June 2009.

Yours faithfully,

(Dominic L. S. WONG)
for Chief Highway Engineer/Hong Kong
Highways Department

Encl.
c.c. SD(W), CEDD (Attn: Mr. Howard KWOK)

Internal
ME/SE, CTO/W

ISO 9001 : 2015 Certificate No.: QC1661
ISO 14001 : 2015 Certificate No.: EC2634

APPENDIX 6.3

SITE WALKOVER CHECKLIST AND PHOTOGRAPHS

Site Inspection Checklist

Ex-Kennedy Town Incineration Plant / Abattoir	
1 General Site Details	
Date of Site Inspection:	4 June 2020
Site Client:	CEDD
Property Address:	Ex-Kennedy Town Incineration Plant / Abattoir site, a refuse collection point, a temporary public car park and Sai See Street, HyD's Maintenance Depot
Person conducting the questionnaire:	Name: Cassie Chow Position: Principal Consultant
Authorized owner/client representative (if applicable):	N/A
2 Site Activities	
Number of employees: Full Time: Part Time: Temporary/Seasonal:	Varied for HyD.
Maximum no. of people on-site at any time:	N/A
Typical hours of operation:	N/A
Number of shifts:	N/A
Days per week:	N/A
Weeks per year:	N/A
Scheduled plant shut down:	N/A
The main sources of energy at the site:	N/A
3 Site Description	
Total site area:	25,600 m^2
What area of the site is covered by buildings (%):	10
List of current and previous owners / occupier:	Government (current and previous owners), MTRCL (previous occupier)
Is site plan available:	No
Are there any other parties on-site as tenants or sub-tenants?	HyD, FEHD
Surrounding land use, facilities or types of industry:	Residential, Bus Terminus Institutional
North:	Sea
South:	Residential, sitting out area
East:	Cadogan Street, residential
West:	Mortuary, sitting out area, bus terminus
Topography of the area:	Flat
Size and location of the nearest residential communities:	50 m east
Are there any sensitive habitats nearby, such as nature reserves, parks, wetlands, or Sites of Scientific Interest?	No
4 Investigation	
What are the main activities/operations at the Site?	Refuse station, Storage Depot, car park, vacant land
How long have the occupants been occupying the site?	Since 2000
Were the current occupants the first occupant on site?	No
Prior to the current occupancy, who occupied the site?	Ex-Kennedy Town Incineration Plant and Abattoir and MTRCL for the vacant area in the northern part of the site, bus depot for the vacant area in the west-southern part of the site

What were the main activities/operations during their occupancy?	Incineration plant and abattoir, Bus depot, WIL site office and storage
Have there been any major changes in operations carried out at the site in the last 10 years?	Yes, refer to Section 2 of the LCR.
Have any polluting activities been carried out in the vicinity of the site in past?	No
Has the site ever been used as a petrol filling station/car service garage?	No
Are there any boreholes/wells or natural springs either on the site or in the surrounding area?	No
Do the occupants have any registered hazardous installations as defined under relevant ordinances?	One cancelled DG license of aboveground diesel tank (the Dangerous Goods Store) at the NWFB Bus Depot for diesel with volume of 45,460 L.
Are any chemicals used in the occupants' daily operations? Where do they store these chemicals?	No
Material inventory lists, including quantities and locations available?	N/A
Has the site produced a separate hazardous substance inventory?	N/A
Has there ever been any incidents or accidents involving any of these materials?	No
How are materials received (e.g. rail, truck, etc.) and stored on site (e.g. drums, tanks, carboys, bags, silos, cisterns, vaults and cylinders)?	N/A
Do the occupants have any underground storage tanks?	No
Are there any disused underground storage tanks?	No
Do the occupants have regular check for any spillage and monitoring of chemicals handled?	N/A
How are the wastes disposed of?	N/A
Have the occupants ever received any notices of violation of environmental regulations or received public complaints?	N/A
Have any spills occurred on site?	No
Do the occupants have any records of major renovation of the site or re-arrangement of underground utilities, pipe work/underground tanks?	No
Are there any known contaminations on site?	Yes, according to the previous EIA studies on the Project Site
Has the site ever been remediated?	No
5 Observations	
Are chemical storage areas provided with secondary containment (i.e. bund walls and floors)?	No chemical storage rooms observed onsite
What are the conditions of the bund walls and floors?	N/A
Are any surface water drains located near to drum storage and unloading areas?	No
Are any solid or liquid waste (other than wastewater) generated at the site?	Waste storage at refuse station
Is there a storage site for the wastes?	Yes, refuse station
Is there an on-site landfill?	No
Was any stressed vegetation noted on site during the site reconnaissance?	No
Were any stained surfaces noted on-site during the site reconnaissance?	No
Are there any potential off-site sources of contamination?	No
Does the site have any equipment which might contain polychlorinated biphenyls (PCBs)?	No

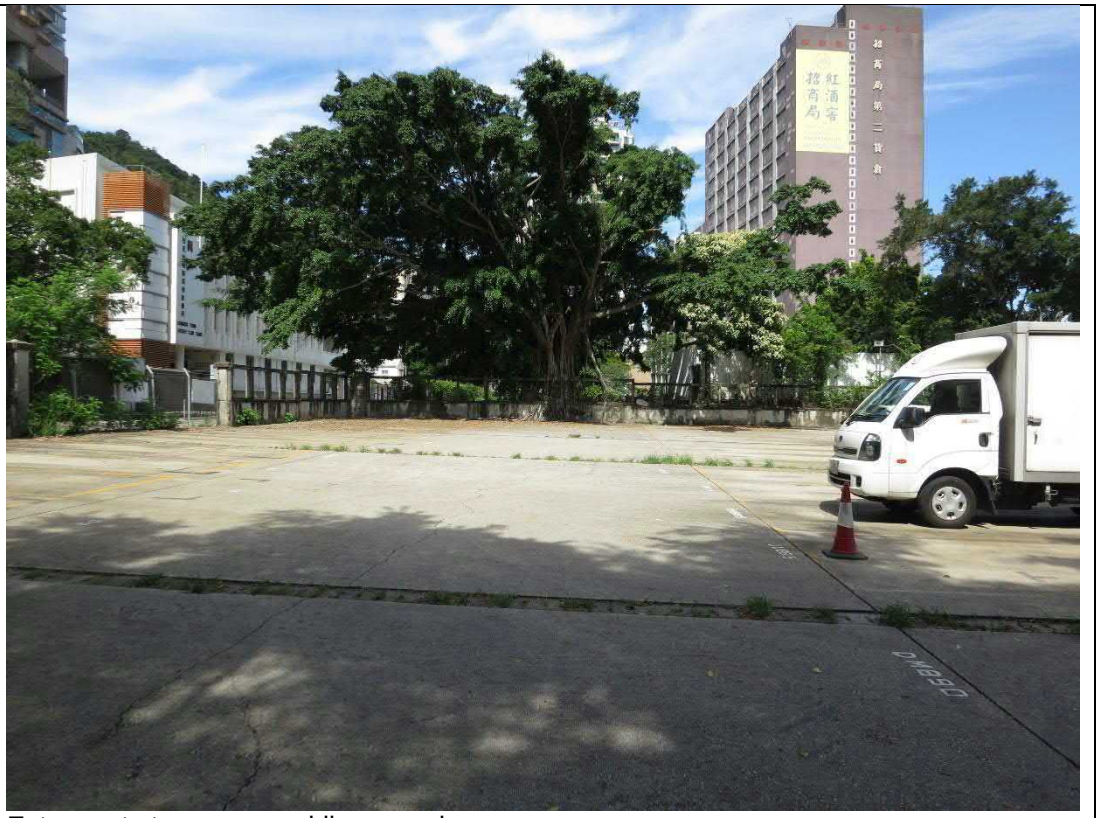
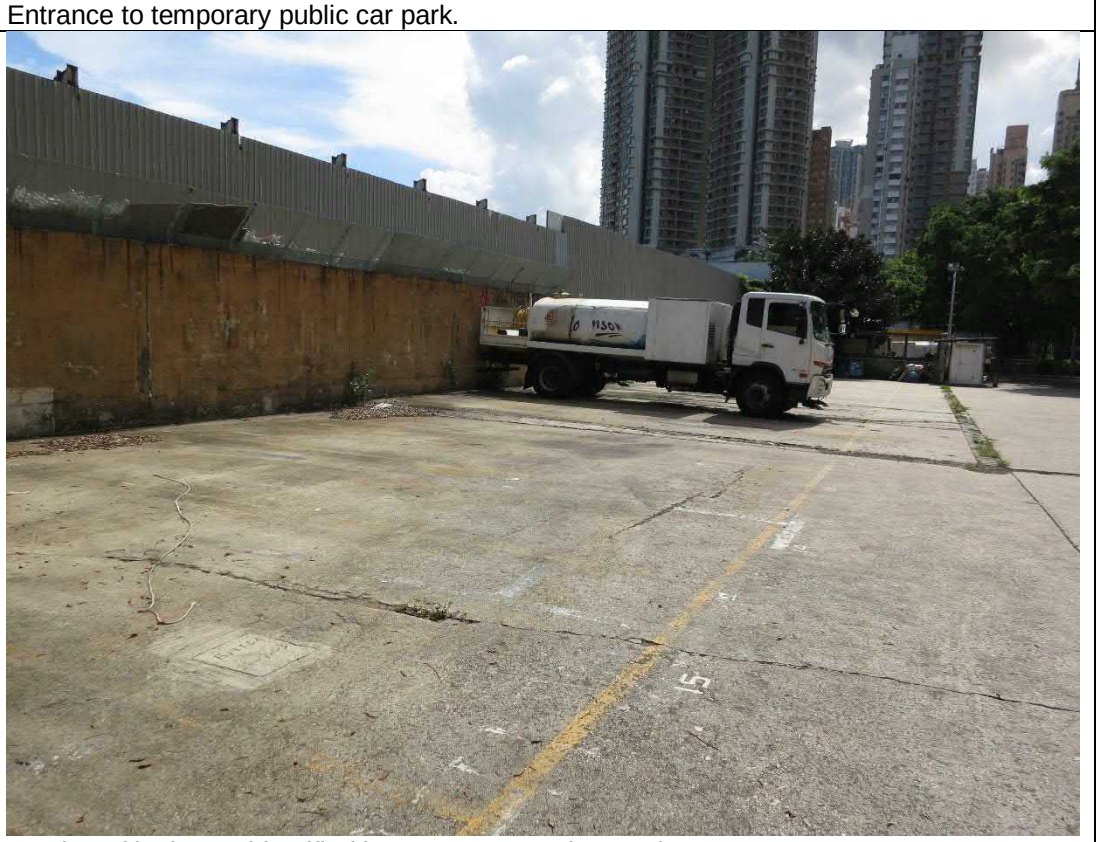
Are there any sumps, effluent pits, interceptors or lagoons on site?	No
Any noticeable odours during site walkover?	No
Are any of the following chemicals used on site: fuels, lubricating oils, hydraulic fluids, cleaning solvents, used chemical solutions, acids, anti-corrosive paints, thinners, coal, ash, oily tanks and bilge sludge, metal wastes, wood preservatives and polyurethane foam?	No

19
16
17
24-25
13-14
15
20-23
12
18
8 - 11
1 - 2
3
4 - 5
7
9
VICTORIA ROAD
SICE STREET
KA WAI MAN ROAD

wsp	**PHOTOGRAPHIC LOG – Site Inspection**	
Client Name CEDD	**Site Location** Ex-Kennedy Town Incineration Plant / Abattoir	**Project No.** 2512199B

Photo No.	Date	Photo and Description
1.	4 June 2020	 Entrance to Sai See Street Refuse Collection Point (SSSRCP).
2.	4 June 2020	 Storage of miscellaneous household items i.e. sinks, chairs, tables etc.

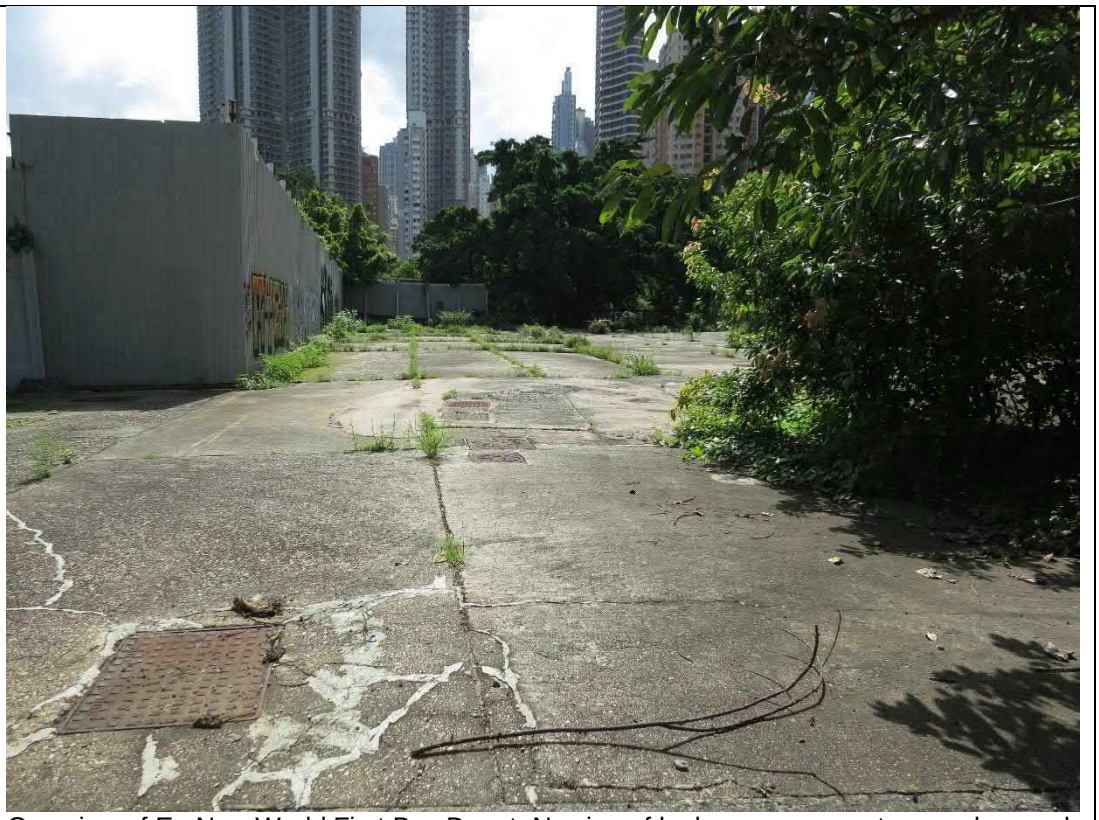
	PHOTOGRAPHIC LOG – Site Inspection	
Client Name CEDD	**Site Location** Ex-Kennedy Town Incineration Plant / Abattoir	**Project No.** 2512199B

3.	4 June 2020	 Entrance to temporary public car park.
4.	4 June 2020	 No sign of leakages identified in concrete paved ground.

wsp	**PHOTOGRAPHIC LOG – Site Inspection**	
Client Name CEDD	**Site Location** Ex-Kennedy Town Incineration Plant / Abattoir	**Project No.** 2512199B

5.	4 June 2020	 Water stain under vegetation (not oil as vegetation is not stressed).
6.	4 June 2020	 Overview of Ex-New World First Bus Depot which is vacant now.

wsp	**PHOTOGRAPHIC LOG – Site Inspection**	
Client Name CEDD	**Site Location** Ex-Kennedy Town Incineration Plant / Abattoir	**Project No.** 2512199B

7.	4 June 2020	 Overview of Ex-New World First Bus Depot. No sign of leakage on concrete paved ground.
8.	4 June 2020	 Overview of HyD Temporary Storage Area/Depot.

	PHOTOGRAPHIC LOG – Site Inspection	
Client Name CEDD	**Site Location** Ex-Kennedy Town Incineration Plant / Abattoir	**Project No.** 2512199B

9.	4 June 2020	 Storage of new, unused bricks and inert C&D waste on HyD storage area.
10.	4 June 2020	 Storage of new, unused bricks and C&D waste on HyD storage area.

wsp	**PHOTOGRAPHIC LOG – Site Inspection**	
Client Name CEDD	**Site Location** Ex-Kennedy Town Incineration Plant / Abattoir	**Project No.** 2512199B

11.	4 June 2020	 Overview of HyD Temporary Storage Area/Depot. Storage of concrete slabs, drainage covers.
12.	4 June 2020	 Former MTRCL works area remains vacant.

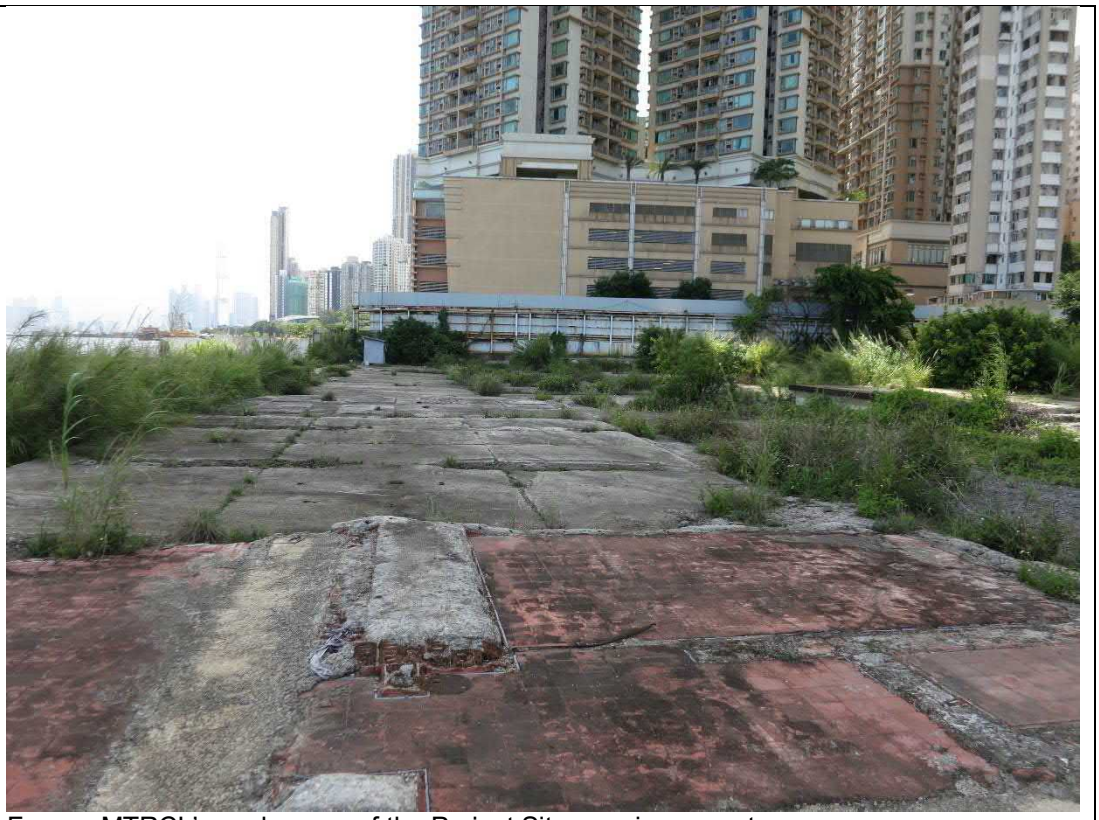
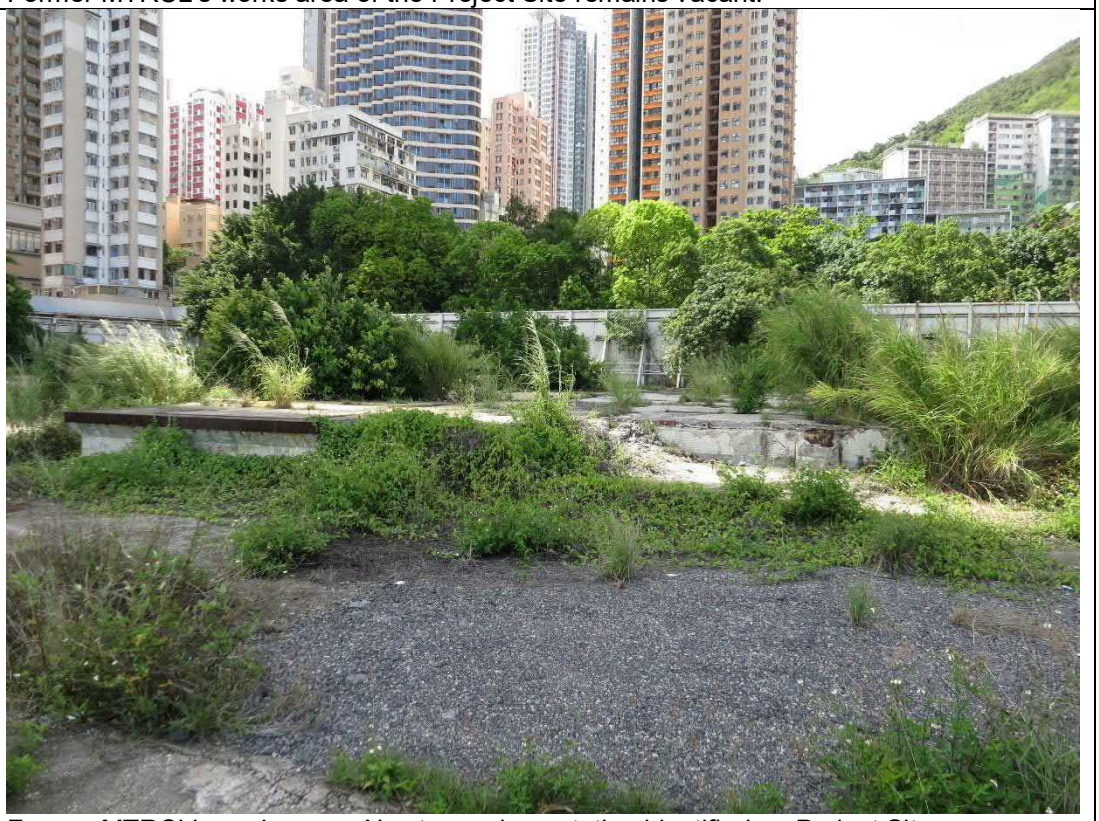
wsp	**PHOTOGRAPHIC LOG – Site Inspection**	
Client Name CEDD	**Site Location** Ex-Kennedy Town Incineration Plant / Abattoir	**Project No.** 2512199B

13.	4 June 2020	 Former MTRCL works area built on a concrete platform.concrete cracks. No oil leakages identified in concrete cracks.
14.	4 June 2020	 Remnants of concrete pillars from Ex-Abattoir.

wsp	**PHOTOGRAPHIC LOG – Site Inspection**	
Client Name CEDD	**Site Location** Ex-Kennedy Town Incineration Plant / Abattoir	**Project No.** 2512199B

15.	4 June 2020	 Disused drainage cover.
16.	4 June 2020	 Backfilled pit on Ex-Abattoir.

wsp	**PHOTOGRAPHIC LOG – Site Inspection**	
Client Name CEDD	**Site Location** Ex-Kennedy Town Incineration Plant / Abattoir	**Project No.** 2512199B

17.	4 June 2020	 Former MTRCL's works area of the Project Site remains vacant.
18.	4 June 2020	 Former MTRCL's works area. No stressed vegetation identified on Project Site.

wsp	**PHOTOGRAPHIC LOG – Site Inspection**	
Client Name CEDD	**Site Location** Ex-Kennedy Town Incineration Plant / Abattoir	**Project No.** 2512199B

19.	4 June 2020	 Former MTRCL's works area. No stressed vegetation identified on Project Site.
20.	4 June 2020	 Section of Former MTRCL's works area and Ex-Abattoir built on concrete platform.

wsp	**PHOTOGRAPHIC LOG – Site Inspection**	
Client Name CEDD	**Site Location** Ex-Kennedy Town Incineration Plant / Abattoir	**Project No.** 2512199B

21.	4 June 2020	 No stressed vegetation identified on Project Site.
22.	4 June 2020	 Backfilled portion of the Project Site.

wsp	**PHOTOGRAPHIC LOG – Site Inspection**	
Client Name CEDD	**Site Location** Ex-Kennedy Town Incineration Plant / Abattoir	**Project No.** 2512199B

23.	4 June 2020	 No stressed vegetation identified on Project Site.
24.	4 June 2020	 Backfilled portion of the Project Site.

wsp	**PHOTOGRAPHIC LOG – Site Inspection**	
Client Name CEDD	**Site Location** Ex-Kennedy Town Incineration Plant / Abattoir	**Project No.** 2512199B

25.	4 June 2020	 Backfilled portion of the Project Site.

APPENDIX 6.4

SAMPLING AND TESTING REPORT FOR WIL WORKS AREA UNDER EP-313/2008

AECOM

Gammon Construction Limited

West Island Line (WIL) 705

Sampling and Testing Report for Works Area B

February 2015

	Name	Signature
Prepared & Checked:	Naomi Yu	
Reviewed & Approved:	Lawrence Tsui	

Version:	2	Date:	12 February 2015

Disclaimer

This ***Sampling and Testing Report*** is prepared for ***Gammon Construction Limited*** and is given for its sole benefit in relation to and pursuant to ***Fill Sampling and Testing*** and may not be disclosed to, quoted to or relied upon by any person other than ***Gammon Construction Limited*** without our prior written consent. No person (other than ***Gammon Construction Limited***) into whose possession a copy of this ***Sampling and Testing Report*** comes may rely on this ***Sampling and Testing Report*** without our express written consent and ***Gammon Construction Limited*** may not rely on it for any purpose other than as described above.

AECOM Asia Co. Ltd.
1501-1510, 15/F, Grand Central Plaza, Tower 1, 138 Shatin Rural Committee Road, Shatin, NT, Hong Kong
Tel: (852) 3922 9000 Fax: (852) 3922 9797 www.aecom.com

Table of Contents

Page

1 INTRODUCTION 1

1.1 Project Background 1
1.2 Objectives 1

2 SITE INVESTIGATION 2

2.1 Soil Boring and Sampling 2
2.2 Assessment Criteria 3
2.3 Laboratory Analytical Results 5

3 CONCLUSION 6

List of Tables

Table 2.1 Changes to the Sampling Plan due to Site Constraints
Table 2.2 Actual Soil Sampling Matrix
Table 2.3 Relevant Soil Acceptance Levels

Figures

Figure 2.1 As-Built Sampling Location Plan

Appendices

Appendix A Sampling and Testing Layout Plan Proposed in the approved FSTP
Appendix B Soil Boring Logs
Appendix C Summary of Analytical Results for Fill
Appendix D Laboratory Test Certificates

1 INTRODUCTION

1.1 Project Background

1.1.1 An Environmental Impact Assessment (EIA) for the Demolition of Buildings and Structures in the Proposed Kennedy Town Comprehensive Development Area site (KTCDA) was submitted under the Environmental Impact Assessment Ordinance (EIAO) in September 2001 and an Environmental Permit (EP) issued in May 2002 (EP No: EP-136/2002). In response to the changes in work areas, a revised EP (EP No: EP-136/2002/D) was issued by Environmental Protection Department (EPD) in November 2011. The revised EP allows part of the KTCDA site to be used as Works Area B (hereinafter referred as the "Site") for temporary site offices and materials storage for the West Island Line (WIL) project. The Site was originally Kennedy Town Incinerator Plant and Kennedy Town Abattoir sites with a total area of approximately 8,500m^2.

1.1.2 For the KTCDA project, it was proposed to be implemented in 2 main phases, as follows:

- Phase 1 - Part 1 would comprise the demolition and clearance of all the existing chimneys, buildings and ancillary structures above the existing concrete slab;
- Phase 1 - Part 2 would comprise the use of the site as Works Area B as temporary site offices and material storage for the West Island Line (WIL) project; and
- Phase 2 works would comprise the remediation of the contamination of the site in accordance with the EIA for Demolition of Buildings and Structures in the Proposed Kennedy Town Comprehensive Development Area site.

1.1.3 As the use of Works Area B under the WIL project has now been approaching the completion stage, under Clause 3.1.2 (b) and 3.3.2 of the EP-313/2008/J issued by EPD on 1 September 2014, a Fill Sampling and Testing Proposal (FSTP) for the general fill material, a Sampling and Testing Report (STR) and a Remediation Action Plan (RAP)(if contamination is confirmed) would need to be submitted to EPD for approval at least 4 months before commencement of removal of the additional concrete paving and the layer of general fill material without disturbing the original slab, confirming what to be tested and the locations for sampling. The proposal should be certified by the Environmental Team (ET) Leader and verified by the Independent Environmental Checker (IEC) prior to issue to EPD.

1.1.4 AECOM Asia Co. Ltd. (AECOM) is commissioned by Gammon Construction Limited (GCL) as the environmental consultant to undertake the tasks (a) and (b) under Clause 3.3.2 of EP-313/2008 and with reference made to the document "West Island Line Consultancy Agreement No. C704 - KET Station and Overrun Tunnel, and Modification of SHW Station: Justification of Alternative Capping Slab Design for Works Area B" (hereinafter referred as the "*Justification from MTR*") is for a VEP application (VEP-333.2010).

1.1.5 AECOM prepared a FSTP outlining the proposed sampling locations and a testing schedule for site investigation (SI). 19 sampling locations were proposed within the Site area. The FSTP was submitted and subsequently endorsed by EPD.

1.1.6 The SI works were carried out on 22 and 25 October 2014. SI works including soil sampling were conducted by Gammon Construction Limited (Gammon) and supervised by AECOM. Laboratory analyses were undertaken by ALS Technichem (HK) Pty Limited (ALS). AECOM collated the SI and laboratory results in preparation of this STR.

1.2 Objectives

1.2.1 The objectives of this STR is to report the findings of the SI (including fieldworks and laboratory analyses) with reference to *Practice Guide for Investigation and Remediation of Contaminated Land*" (Practice Guide) issued by Environmental Protection Department (EPD).

1.2.2 This STR is submitted to EPD for endorsement.

2 SITE INVESTIGATION

2.1 Soil Boring and Sampling

2.1.1 According to the approved FSTP, a total of 19 sampling locations were proposed in the Site. The original sampling and testing plan in the approved FSTP is annexed in **Appendix A**.

2.1.2 The SI works were carried out on 22 and 25 October 2014. Disturbed soil samples were collected from inspection pit under supervision of AECOM.

2.1.3 During the SI, some sampling depths have been changed as compared to the original sampling plan stated in the FSTP due to site-specific conditions encountered. Details and reasons of these adjustments are summarized in **Table 2.1**. The as-built sampling location plans are shown in **Figure 2.1**.

Table 2.1 Changes to the Sampling Plan due to Site Constraints

Sample I.D	Changes Made	Justification
S2	Sampling at 0.2 m below concrete slab (bcs)	2nd layer of concrete slab was encountered at 0.4m bcs.
S3	Sampling at 0.1m bcs	2nd layer of concrete slab was encountered at 0.1m bcs.
S4	Sampling at 0.2m bcs	2nd layer of concrete slab was encountered at 0.38m bcs.
S5	Sampling at 0.2m bcs	2nd layer of concrete slab was encountered at 0.38m bcs.
S6	Sampling at 0.1m bcs	2nd layer of concrete slab was encountered at 0.11m bcs.
S8	Sampling at 0.1m bcs	2nd layer of concrete slab was encountered at 0.13m bcs.
S9	Sampling at 0.13m bcs	2nd layer of concrete slab was encountered at 0.26m bcs.
S10	Sampling at 0.1m bcs	2nd layer of concrete slab was encountered at 0.13m bcs.
S13	Sampling at 0.11m bcs	2nd layer of concrete slab was encountered at 0.23m bcs.
S17	Sampling at 0.2m bcs	2nd layer of concrete slab was encountered at 0.4m bcs.
S18	Sampling at 0.25m bcs	2nd layer of concrete slab was encountered at 0.5m bcs.

2.1.4 The actual sampling matrix at each sampling location is provided in **Table 2.2**.

Table 2.2 Actual Soil Sampling Matrix

Sample Location	As Built Co-ordinates		Thickness of concrete slab (m)	Termination Depth (m)	Proposed Sampling Depth (m bcs)
	Easting	Northing			0.5
					Actual Sampling Depth (m bcs)
S1	830762.511	815994.917	0.25	0.75	0.5
S2	830798.216	815975.139	0.24	0.64	0.2
S3	830803.077	815938.428	0.23	0.33	0.1
S4	830804.514	816011.086	0.24	0.62	0.2
S5	830819.274	815977.790	0.23	0.61	0.2
S6	830834.280	815966.189	0.22	0.33	0.1
S7	830865.835	815964.184	0.35	0.85	0.5
S8	830868.808	816014.614	0.26	0.39	0.1
S9	830869.718	815998.335	0.23	0.49	0.13

S10	830911.704	816040.451	0.23	0.36	0.1
S11	830925.429	816019.236	0.52	1.2	0.5
S12	830928.997	815996.198	0.23	0.73	0.5
S13	830955.739	815998.617	0.46	0.69	0.11
S14	830952.024	816037.889	0.22	0.72	0.5
S15	830938.881	816056.346	0.24	0.74	0.5
S16	831000.104	816016.888	0.21	0.71	0.5
S17	830981.172	816035.840	0.3	0.70	0.2
S18	830984.465	816067.031	0.22	0.72	0.25
S19	830909.439	816025.205	0.51	1.1	0.5

2.1.5 Borehole logs showing the stratigraphic descriptions and depth of soil sampling are provided in **Appendix B**.

2.1.6 Minor changes to the generic sampling location stated in the FSTP were made due to the obstruction encountered at the proposed locations. Sampling locations were chosen to be representative with reference to the proposed locations and followed the grid sampling pattern. Therefore, the adjusted sampling locations are still representative for the concerned potential land contamination areas. A total of 19 soil samples (excluding samples collected for QA/QC purpose) were collected for laboratory analysis.

2.1.7 No distinctive or characteristic chemical odours were noted during advancement of inspection pit and soil sampling.

2.2 Assessment Criteria

2.2.1 The assessment methodology adopted is in accordance with the *Guidance Note for Contaminated Land Assessment and Remediation* (Guidance Note*), Guidance Manual for Use of Risk-based Remediation Goals for Contaminated Land Management* (Guidance Manual) and Practice Guide issued by EPD.

2.2.2 Interpretation of results has made reference to those Risk-based Remediation Goals (RBRGs) presented in Table 2.1 and Table 2.2 as stipulated in the Guidance Manual.

2.2.3 The RBRGs are developed based on a risk assessment approach to suit the local environmental conditions and community needs in Hong Kong. Decisions on contaminated soil and groundwater remediation are based on the nature and extent of the potential risks that are posed to human receptors as a result of exposure to chemicals in the soil and/or groundwater RBRGs are developed for four different land use scenarios reflecting the typical physical settings in Hong Kong under which people could be exposed to contaminated soil and groundwater. A description of each land use scenario is as follows:

- Urban residential – Sites located in an urban area where main activities involve habitation by individuals. The typical physical setting is a high rise residential building situated in a housing estate that has amenity facilities such as landscaped yards and children's playgrounds. The receptors are residents who stay indoors most of the time except for a short period each day, during which they are outdoors and have the chance of being in direct contact with soil at landscaping or play areas within the estate.

- Rural residential – Sites located in a rural area where the main activities involve habitation by individuals. These sites typically have village-type houses or low rise residential blocks surrounded by open space. The receptors are rural residents who stay at home and spend some time each day outdoors on activities such as gardening or light sports. The degree of contact with the soil under the rural setting is more than that under the urban setting both in terms of the intensity and frequency of contact.

- Industrial – Any site where activities involve manufacturing, chemical or petrochemical processing, storage of raw materials, transport operations, energy production or transmission, etc. Receptors include those at sites where part of the operation is

carried out directly on land and the workers are more likely to be exposed to soil than those working in multi-storey factory buildings.

- Public parks – Receptors include individuals and families who frequent parks and play areas where there is contact with soil present in lawns, walkways, gardens and play areas. Parks are considered to be predominantly hard covered with limited areas of predominantly landscaped soil. Furthermore, public parks are not considered to have buildings present on them.

2.2.4 Since the future use of the fill material is unknown, therefore the most stringent criteria should be adopted. Based on *Justification from MTR*, the Rural Residential Landuse (the most stringent criteria) recommended in the Guidance Note will be adopted as the assessment criteria except two parameters Benzo(b)fluoranthene and Chrysene. Since the RBRGs (Urban Residential) for Benzo(b)fluoranthene and Chrysene are more stringent than RBRGs (Rural Residential). Therefore, RBRGs (Urban Residential) will be adopted as the acceptance level for these two parameters. Relevant soil acceptance levels are presented in **Table 2.3**.

Table 2.3 Relevant Soil Acceptance Levels

COC	Acceptance Level (mg/kg)*	COC	Acceptance Level (mg/kg)*
Metals		**Additional VOCs**	
Arsenic	21.8	Acetone	4,260
Barium	10,000	Bromodichloromethane	0.129
Cadmium	72.8	2-Butanone	10,000
Copper	2,910	Chloroform	0.0529
Molybdenum	364	Methyl tert-Butyl Ether	2.8
Nickel	1,460	Methylene Chloride	0.529
Zinc	10,000	Styrene	1,540
Mercury	6.52	Tetrachloroethene	0.0444
Chromium III^	10,000	Trichloroethene	0.211
Chromium VI	218	**PAH*** **	
VOCs and SVOCs* **		Acenaphthene	3,280
Naphthalene	85.6	Acenaphthylene	1,510
Anthracene	10,000	Benzo(a)anthracene	11.4
Fluoranthene	2,270	Benzo(b)fluoranthene	9.88**
Pyrene	1,710	Benzo(g,h,i)perylene	1,710
Benzo(a)pyrene	1.14	Benzo(k)fluoranthene	114
Benzene	0.279	Chrysene	871**
Toluene	705	Dibenzo(a,h)anthracene	1.14
Ethylbenzene	298	Fluorene	2,250
Xylenes (Total)	36.8	Indeno(1,2,3-cd)pyrene	11.4
PCR* **		Phenanthrene	10,000
PCR C6 - C8	545		
PCR C9 - C16	1,330		
PCR C17 - C35	10,000		

Notes:
* Based on the ''Rural Residential Landuse'' recommended in the Risk-Based Remediation Goals promulgated in the EPD's (1) Guidance Note for Contaminated Land Assessment and Remediation, (2) Guidance Manual for Use of Risk-Based remediation Goals for Contaminated Land Management.
** "Urban Residential Landuse" is adopted.
***PCR stands for Petroleum Carbons Range; VOC stands for Volatile Organic Compounds, SVOCs stands for Semi Volatile Organic Compounds and PAH stands for Polyaromatic Hydrocarbon.

2.3 Laboratory Analytical Results

Soil Analysis

2.3.1 19 soil samples were collected during the SI and delivered to ALS for laboratory analysis. Tables of the laboratory testing result and the fill data summary are presented in **Appendix C** and the Certificates of Analysis are presented in **Appendix D**.

2.3.2 As shown in Appendix C, no soil sample analysed was found to exceed the relevant RBRGs.

QA/QC Analysis

2.3.3 QA/QC is the practice of making sure that collection and analysis techniques provide precise and accurate information. This process is to ensure the levels of contamination measured in the environmental samples reflect the actual environmental levels and are not due to accidental contamination of the sample or sample container.

2.3.4 In this SI, the following field and equipment blanks were analyzed:

- Equipment blanks – 1 equipment blank (Sample ID: Equipment Blank) was collected during soil sampling.
- Field Blanks – 1 field blank sample (Sample ID: Field Blank) was collected during soil sampling.
- Duplicate Samples – 1 soil (Sample ID: S16A (Duplicate Sample)) was collected during soil sampling.
- Trip Blanks – 1 trip blank sample (Sample ID: Trip Blank) was collected during soil sampling.

2.3.5 A summary of laboratory results for QA/QC samples are presented in **Appendix C** and the Certificates of Analysis are presented in **Appendix D**.

2.3.6 A low concentration of Barium and Chloroform were detected in Equipment Blank and Field Blank respectively. The readings of these parameters are very low that it does not affect the results of the SI samples.

2.3.7 A comparison of the Relative Percentage Difference (RPD) values among the duplicate samples is included in Table 3 in Appendix C. RPD of some soil Parameters were not calculated (NC) as the concentrations detected were below Level of Reporting (LOR). The soil duplicate has a RPD value of 50% in Barium. However in view of the discrepancies, it does not affect the results of soil categorization in this case.

3 CONCLUSION

3.1.1 SI works were conducted following the FSTP. A total of 19 soil samples were analysed for a selected suite of chemicals of potential concern.

3.1.2 Based on the analytical results and on site observation, no exceedances of the applicable RBRGs were detected in all 19 collected soil samples. The field assessment indicated no trace NAPL found and hence remediation action for the fill material is not required with reference to the Guidance Manual.

Appendix C

Summary Analytical Results for Fill

Appendix C Summary of Analytical Results for Fill

Table 1 Laboratory results for Fill

Parameters			VOCs															SVOCs & PAH																					Metals										Petroleum Carbon Ranges		
			Benzene	Ethylbenzene	Toluene	meta- & para-Xylene	ortho-Xylene	Xylenes (Total)	Acetone	Bromodichloromethane	2-Butanone	Chloroform	Methyl tert-Butyl Ether	Methylene Chloride	Styrene	Tetrachloroethene	Trichloroethene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenzo(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene	Arsenic	Barium	Cadmium	Trivalent Chromium	Hexavalent Chromium	Copper	Mercury	Molybdenum	Nickel	Zinc	C6 - C8 Fraction	C9 - C16 Fraction	C17 - C35 Fraction
Unit			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LOR			0.2	0.5	0.5	1	0.5	2	50	0.1	5	0.04	0.5	0.5	0.5	0.04	0.1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	1	0.2	1	1	1	0.05	1	1	1	5	200	500
Most Stringent RBRGs			**0.279**	**298**	**705**	**--**	**--**	**36.8**	**4260**	**0.129**	**10000***	**0.053**	**2.8**	**0.529**	**1540**	**0.044**	**0.211**	**3280**	**1510**	**10000***	**11.4**	**1.14**	**9.88**	**1710**	**114**	**871**	**1.14**	**2270**	**2250**	**11.4**	**85.6**	**10000***	**1710**	**21.8**	**10000***	**72.8**	**10000***	**218**	**2910**	**6.52**	**364**	**1460**	**10000***	**545**	**1330**	**10000***
Saturation Limit			**336**	**138**	**235**	**--**	**--**	**150**	*******	**1030**	*******	**1100**	**2380**	**921**	**497**	**97.1**	**488**	**60.2**	**19.8**	**2.56**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**54.7**	**--**	**125**	**28**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**1000**	**3000**	**5000**
Sample Location	Sampling Depth (m bcs)	Date of Sampling																																													
S1	0.50	22-Oct-14	<0.2	<0.5	<0.5	<1.0	<0.5	<2.0												<0.500		<0.500						<0.500			<0.500		<0.500	2	4	<0.2	3	<1	1	<0.05	1	<1	28	<5	<200	<500
S2	0.20	22-Oct-14	<0.2	<0.5	<0.5	<1.0	<0.5	<2.0												<0.500		<0.500						<0.500			<0.500		<0.500	<1	4	<0.2	1	<1	1	<0.05	<1	<1	27	<5	<200	<500
S3	0.10	22-Oct-14	<0.2	<0.5	<0.5	<1.0	<0.5	<2.0												<0.500		<0.500						<0.500			<0.500		<0.500	3	32	<0.2	8	<1	8	<0.05	<1	5	31	<5	<200	<500
S4	0.20	22-Oct-14	<0.2	<0.5	<0.5	<1.0	<0.5	<2.0												<0.500		<0.500						<0.500			<0.500		<0.500	<1	3	<0.2	1	<1	1	<0.05	<1	<1	22	<5	<200	<500
S5	0.20	22-Oct-14	<0.2	<0.5	<0.5	<1.0	<0.5	<2.0												<0.500		<0.500						<0.500			<0.500		<0.500	1	11	<0.2	2	<1	4	<0.05	<1	1	32	<5	<200	<500
S6	0.10	22-Oct-14	<0.2	<0.5	<0.5	<1.0	<0.5	<2.0												<0.500		<0.500						<0.500			<0.500		<0.500	<1	8	<0.2	2	<1	2	<0.05	<1	<1	46	<5	<200	<500
S7	0.50	22-Oct-14	<0.2	<0.5	<0.5	<1.0	<0.5	<2.0												<0.500		<0.500						<0.500			<0.500		<0.500	<1	6	<0.2	1	<1	1	<0.05	<1	<1	30	<5	<200	<500
S8	0.10	22-Oct-14	<0.2	<0.5	<0.5	<1.0	<0.5	<2.0												<0.500		<0.500						<0.500			<0.500		<0.500	1	8	<0.2	4	<1	3	<0.05	<1	1	28	<5	<200	<500
S9	0.13	22-Oct-14	<0.2	<0.5	<0.5	<1.0	<0.5	<2.0										<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<1	6	<0.2	2	<1	1	<0.05	<1	1	29	<5	<200	<500
S10	0.10	25-Oct-14	<0.2	<0.5	<0.5	<1.0	<0.5	<2.0												<0.500		<0.500						<0.500			<0.500		<0.500	<1	7	<0.2	2	<1	3	<0.05	<1	<1	53	<5	<200	<500
S11	0.50	25-Oct-14	<0.2	<0.5	<0.5	<1.0	<0.5	<2.0												<0.500		<0.500						<0.500			<0.500		<0.500	<1	4	<0.2	2	<1	1	<0.05	1	<1	44	<5	<200	<500
S12	0.50	22-Oct-14	<0.2	<0.5	<0.5	<1.0	<0.5	<2.0												<0.500		<0.500						<0.500			<0.500		<0.500	<1	5	<0.2	2	<1	1	<0.05	<1	<1	25	<5	<200	<500
S13	0.11	22-Oct-14	<0.2	<0.5	<0.5	<1.0	<0.5	<2.0												<0.500		<0.500						<0.500			<0.500		<0.500	<1	3	<0.2	2	<1	1	<0.05	<1	<1	33	<5	<200	<500
S14	0.50	25-Oct-14	<0.2	<0.5	<0.5	<1.0	<0.5	<2.0												<0.500		<0.500						<0.500			<0.500		<0.500	<1	4	<0.2	2	<1	<1	<0.05	<1	<1	33	<5	<200	<500
S15	0.50	25-Oct-14	<0.2	<0.5	<0.5	<1.0	<0.5	<2.0												<0.500		<0.500						<0.500			<0.500		<0.500	<1	3	<0.2	2	<1	<1	<0.05	<1	<1	31	<5	<200	<500
S16	0.50	22-Oct-14	<0.2	<0.5	<0.5	<1.0	<0.5	<2.0												<0.500		<0.500						<0.500			<0.500		<0.500	<1	3	<0.2	2	<1	2	<0.05	<1	<1	23	<5	<200	<500
S17	0.20	22-Oct-14	<0.2	<0.5	<0.5	<1.0	<0.5	<2.0												<0.500		<0.500						<0.500			<0.500		<0.500	<1	3	<0.2	<1	<1	1	<0.05	<1	<1	26	<5	<200	<500
S18	0.25	25-Oct-14	<0.2	<0.5	<0.5	<1.0	<0.5	<2.0												<0.500		<0.500						<0.500			<0.500		<0.500	<1	6	<0.2	2	<1	1	<0.05	<1	<1	37	<5	<200	<500
S19	0.50	25-Oct-14	<0.2	<0.5	<0.5	<1.0	<0.5	<2.0	<50	<0.1	<5	<0.04	<0.5	<0.5	<0.5	<0.04	<0.1			<0.500		<0.500						<0.500			<0.500		<0.500	<1	3	<0.2	1	<1	<1	<0.05	1	<1	44	<5	<200	<500

Note:
bcs= Below Base of Existing Concrete
LOR= Level of Reporting

Full analytical results should be referred to laboratory report

Appendix C Summary of Analytical Results for Fill

Table 2 Laboratory results for QA/QC

Parameters		VOCs															SVOC					Metals										Petroleum Carbon Ranges		
		Benzene	Ethylbenzene	Toluene	meta- & para-Xylene	ortho-Xylene	Xylenes (Total)	Acetone	Bromodichloromethane	2-Butanone	Chloroform	Methyl tert-Butyl Ether	Methylene Chloride	Styrene	Tetrachloroethene	Trichloroethene	Anthracene	Benzo(a)pyrene	Fluoranthene	Naphthalene	Pyrene	Arsenic	Barium	Cadmium	Trivalent Chromium	Hexavalent Chromium	Copper	Mercury	Molybdenum	Nickel	Zinc	C6 - C8 Fraction	C9 - C16 Fraction	C17 - C35 Fraction
Unit		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
LOR		5	5	5	10	5	20	500	5	50	5	5	50	5	5	5	2	0.2	2	2	2	10	1	0.2	20	20	1	0.5	1	1	10	20	500	500
Sample ID	Date of Sampling																																	
FIELD BLANK	22/10/2014	<5.0	<5.0	<5.0	<10.0	<5.0	<20	<500	<5.0	<50	6.3	<5.0	<50	<5.0	<5.0	<5.0	<2.0	<0.2	<2.0	<2.0	<2.0	<10	<1	<0.2	<20	<20	<1	<0.5	<1	<1	<10	<20	<500	<500
EQUIPMENT BLANI	22/10/2014	<5.0	<5.0	<5.0	<10.0	<5.0	<20										<2.0	<0.2	<2.0	<2.0	<2.0	<10	8	<0.2	<20	<20	<1	<0.5	<1	<1	<10	<20	<500	<500
TRIP BLANK	22/10/2014	<5.0	<5.0	<5.0	<10.0	<5.0	<20																									<20		

Full analytical results should be referred to laboratory report

APPENDIX 8.1

TREE SURVEY RESULT

Tree Assessment Schedule
Agreement No. CE13/2019(CE) - Ground Decontamination Works At The Site Of Ex-Kennedy Town Incinceration Plant/ Abattoir And Adjoining Area - Design And Construction
Field Survey was conducted on 16 December 2020, 17 December 2020 and 11 March 2021
Prepared by CHING Hon Chung (#ISA Certified Arborist: HK-1714A)

Tree No.	Species		Measurements			Amenity Value	Form	Health condition	Structural condition	Suitability for transplanting		Conservation Status (Yes/No)	Recommendation	Justifications	Maintenance department to provide comments on TPRP		Remarks
	Scientific name	Chinese Name	Height (m)	DBH (mm)	Crown Spread (m)	(High/ Medium /Low)	(Good/Average/Poor)			(High/ Medium/ Low)	Remarks		(Retain/ Transplant/ Fell)		Before	After	
T227	*Ficus microcarpa*	細葉榕	10	600	11	L	P	P	P	L	1,2	No	F	3	FEHD	-	Grow on concrete structure, restricted root
T227A	*Terminalia catappa*	欖仁樹	9	210	6	L	P	P	P	L	1,2	No	F	3	FEHD	-	Strangled by T227, restricted root
T228	*Ficus microcarpa*	細葉榕	8	800	8	M	P	A	A	L	2,7	No	F	3	LandsD	-	Restricted root, exposed root, grow on concrete wall
T229	*Ficus microcarpa*	細葉榕	9	900	8	M	P	A	A	L	2,7	No	F	3	LandsD	-	Restricted root, exposed root, grow on concrete wall
T230	*Ficus elastica*	印度榕	6	400	4	L	P	P	A	L	1,2,7	No	F	3	LCSD	-	Grow on concrete wall
T231	*Morus alba*	桑樹	6	220	4	L	P	A	A	L	1,2,7	No	F	3	LCSD	-	Surrounded by stockpile
T232	*Ficus benjamina*	垂葉榕	14	900	16	M	A	A	A	L	3,4,7	No	F	3	LandsD	-	Restricted root, exposed root
T233	*Aleurites moluccana*	石栗	8	260	5	L	A	A	A	L	1,7	No	F	3	LandsD	-	Restricted root, wound on trunk
T234	*Lucuma nervosa*	蛋黃果	4	167	2	L	P	P	A	L	1,2,7	No	F	3	LandsD	-	Multiple stems, wound on trunk, restricted root
T235	*Broussonetia papyrifera*	構樹	4	180	2	L	P	P	A	L	1,2,7	No	F	3	LandsD	-	Epicormics growth, restricted root, wound on trunk, conflict with concrete wall
T236	*Ficus microcarpa*	細葉榕	9	440	6	L	P	A	A	L	1,2,7	No	F	3	LandsD	-	Restricted root, conflicted with concrete wall, steel bar mounted on trunk
T237	*Ficus microcarpa*	細葉榕	10	750	8	L	A	P	A	L	1,2,7	No	F	3	LandsD	-	Large wound with decay, restricted root, exposed root
T239	*Unknown*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	REMOVED
T240	*Unknown*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	REMOVED
T241	*Unknown*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	REMOVED
T242	*Ficus subpisocarpa*	筆管榕	6	380	5	P	P	P	A	L	1,2,7	No	F	3	LandsD	-	Fused into steel wire messh, crossed branch, restricted root, exposed root
T243	*Macaranga tanarius var. tomentosa*	血桐	4	160	3	L	A	P	A	L	1,2,7	No	R	3	LCSD	LCSD	restricted root, exposed dead wood on lower trunk
T244	*Unknown*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	REMOVED
T245	*Bombax ceiba*	木棉	4	160	2	L	A	A	A	L	1	No	F	3	LandsD	-	Surrounded by stockpile
T246	*Dead tree*	死樹	6	284	5	L	P	P	P	L	6	No	F	3	LandsD	-	-
T247	*Ficus microcarpa*	細葉榕	8	420	7	L	P	A	A	L	1,2,7	No	F	3	LandsD	-	Grow on stone wall, vines on trunk and crown
T248	*Macaranga tanarius var. tomentosa*	血桐	5	110	4	L	A	A	A	L	1,7	No	F	3	LandsD	-	Slightly leaning, restricted root
T249	*Ficus subpisocarpa*	筆管榕	6	323	5	L	P	A	A	L	1,2,7	No	F	3	LandsD	-	Grow on concrete structure, multiple stems
T250	*Ficus microcarpa*	細葉榕	7	262	5	L	P	A	A	L	1,2,7	No	F	3	LandsD	-	Grow on concrete structure, multiple stems
T251	*Carica papaya*	番木瓜	6	230	1	L	P	A	A	L	1,2	No	F	3	LandsD	-	Wound on trunk
T252	*Camptotheca acuminata*	喜樹	6	170	3	M	P	A	A	L	2	No	R	-	LCSD	LCSD	Loss of leader
T254	*Crateva unilocularis*	樹頭菜	3	110	2	M	A	A	A	L	7	No	F	3	LCSD	-	-

Remarks:

Key to Suitability for Transplanting

1. Trees of low amenity value
2. Trees with poor health/form/structural condition.
3. Irrecoverable form after transplanting (e.g. transplanting requires substantial crown and root pruning);
4. Low chance of survival upon transplanting (species with low ability to tolerate transplant; senescent tree with low post-transplantation survival rate)
5. Undesirable species (e.g. *Leucaena leucocephala* which is an invasive, exotic and self-seeding tree);
6. Dead tree
7. Trees grown under poor conditions which have limited the formation of proper root ball necessary for transplanting (e.g. steep slope, close to utilities, close to other trees).

Key to Justifications

1. Tree is in direct conflict with the proposed carriageway/footpath/retaining wall/roadside verge for greening
2. Tree is in direct conflict with proposed fill/cut slope
3. Tree is in direct conflict with proposed landscape area/sitting-out area
4. Tree is in direct conflict with the proposed pumping station

碼頭
Pier
碼頭
Pier
1
2
5
9
11
14
12
10
6
AR
7R
3R
8R
4R
4
D
26
27
33R
34
T245
3.90
T243
4.20
T242
6.45
T251
T237
6.61
T236
6.57
T235
6.51
T234
6.65
T233
6.81
T232
7.16
T252
域多利亞
公衆殮房
Victoria
Public
Mortuary
34
(VICTORIA ROAD)
休憩場地
Sitting-out
Area
M
ARCH
停車場
Car Park
5.4
6.4
6.1+
域多利道
MATCH LINE
FOR CONTINUATION
SEE DRG WSP/CE13/SK/073

SHEK TONG TSUI
SAI WAN
KENNEDY TOWN

LOCATION PLAN

LEGEND :

LIMIT OF WORKS

EXISTING TREE
T246

Rev	Description	By	Date

Consultant

wsp

Project title

AGREEMENT NO. CE/13/2019(CE)

GROUND DECONTAMINATION WORKS AT THE SITE OF EX-KENNEDY TOWN INCINCERATION PLANT/ ABATTOIR AND ADJOINING AREA - DESIGN AND CONSTRUCTION

Drawing title

EXISTING TREE SURVERY PLAN

(SHEET 1 OF 3)

Drawing no.	Rev.
WSP/CE13/SK/072	-

Drawn	Date	Checked	Approved
CAD	-	-	-

Scale	Status
AS SHOWN (A1)	-

© COPYRIGHT RESERVED

土木工程拓展署
CEDD CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

Date : 10/29/2021
Filename : X:\2512199A (CE13-2019-CEDD)\02_Drawing\Sketch\WSP_CE13_SK_097.dgn

MATCH LINE
FOR CONTINUATION SEE DRG WSP/CE13/SK/072

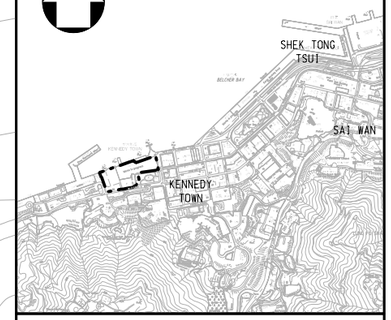
C
B
16
19
21
22
23
24
25
27
28
29
30
31
32
34
35
36
37

西市街
西市街垃圾收集站
Sai See Street Refuse Collection Point
SAI SEE STREET
加多近街臨時花園
Cadogan Street Temporary Garden
VICTORIA ROAD
KA WAI MAN ROAD
加惠民道休憩處
Ka Wai Man Road Sitting-out Area
百年大樓
Centenary Mansion
1座
Block 1

T227 5.13
T227A 5.13
T228
T229
T230
T231
T246
T247
T248
T252
T254

3.9
4.2
5.2
6.2
4.9
5.4
5.3
5.5
5.8
5.0
5.6
7.0
9.0+
14.0
19.7

L
H
P



LOCATION PLAN

LEGEND :

- LIMIT OF WORKS
- EXISTING TREE T246

Rev	Description	By	Date

Consultant

wsp

Project title

AGREEMENT NO. CE/13/2019(CE)

GROUND DECONTAMINATION WORKS AT THE SITE OF EX-KENNEDY TOWN INCINCERATION PLANT/ ABATTOIR AND ADJOINING AREA - DESIGN AND CONSTRUCTION

Drawing title

EXISTING TREE SURVERY PLAN

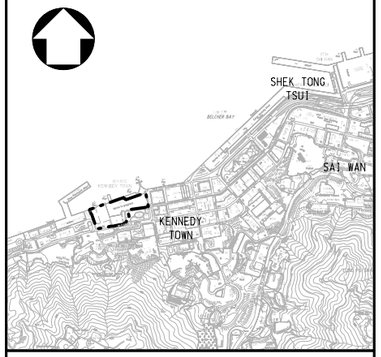
(SHEET 2 OF 3)

Drawing no.			Rev.
WSP/CE13/SK/099			A
Drawn	Date	Checked	Approved
CAD	-	-	-
Scale		Status	
AS SHOWN (A1)		-	

© COPYRIGHT RESERVED

土木工程拓展署
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

Date : 11/1/2021
Filename : X:\2512199A (CE13-2019-CEDD)\02_Drawing\Sketch\WSP_CE13_SK_099.dgn



LOCATION PLAN

LEGEND :

LIMIT OF WORKS

EXISTING TREE

T246

3.8
3.6
3.8
碼頭 Pier
3.2
3.7
L
H
Pier
碼頭
斜路 Ramp
斜路 Ramp
斜路 Ramp
+3.2
15
17
18
20
21
加多近街
3.9
T246
T247

MATCH LINE
FOR CONTINUATION
SEE DRG WSP/CE13/SK/073

Rev	Description	By	Date

Consultant

wsp

Project title

AGREEMENT NO. CE/13/2019(CE)

GROUND DECONTAMINATION WORKS AT THE SITE OF EX-KENNEDY TOWN INCINCERATION PLANT/ ABATTOIR AND ADJOINING AREA - DESIGN AND CONSTRUCTION

Drawing title

EXISTING TREE SURVERY PLAN

(SHEET 3 OF 3)

Drawing no.	Rev.
WSP/CE13/SK/100	-

Drawn	Date	Checked	Approved
CAD	-	-	-

Scale	Status
AS SHOWN (A1)	-

© COPYRIGHT RESERVED

土木工程拓展署
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

Date : 10/29/2021
Filename : X:\2512199A (CE13-2019-CEDD)\02_Drawing\Sketch\WSP_CE13_SK_100.dgn

APPENDIX 9.1

LIST OF FLORA AND FAUNA RECORDED WITHIN THE PROJECT SITE

APPEDNIX 9.1
LIST OF FLORA AND FAUNA RECORDED WITHIN THE PROJECT SITE

Table 1 List of trees recorded within Project Site

Botanical Name	Chinese Name	Native/Exotic	Quantity
Aleurites moluccana	石栗	Exotic	1
Bombax ceiba	木棉	Exotic	1
Broussonetia papyrifera	構樹	Native	1
Camptotheca acuminata	喜樹	Exotic	1
Carica papaya	番木瓜	Exotic	1
Crateva unilocularis	樹頭菜	Exotic	1
Ficus benjamina	垂葉榕	Exotic	1
Ficus elastica	印度榕	Exotic	1
Ficus microcarpa	細葉榕	Native	7
Ficus subpisocarpa	筆管榕	Native	2
Lucuma nervosa	蛋黃果	Exotic	1
Macaranga tanarius var. tomentosa	血桐	Native	2
Morus alba	桑樹	Native	1
Terminalia catappa	欖仁樹	Exotic	1
		Total No. of species recorded:	14
		Total No. of individuals recorded:	22

Table 2 List of birds recorded within Project Site

Scientific Name	Common Name	Status in Hong Kong(1)	Level of Concern/ Protection Status(2)	Quantity
Works Site				
Passer montanus	Eurasian Tree Sparrow	Very common resident	-	10
Spilopelia chinensis	Spotted Dove	Very common resident	-	1
			Total No. of species recorded:	2
			Total No. of individuals recorded:	11

(1) Status in Hong Kong follows Hong Kong Bird Report 2009-10 (edited by Allcock, J., Carey, G.J., Chow, G. and Welch, G.; Published by The Hong Kong Bird Watching Society, 2012.)

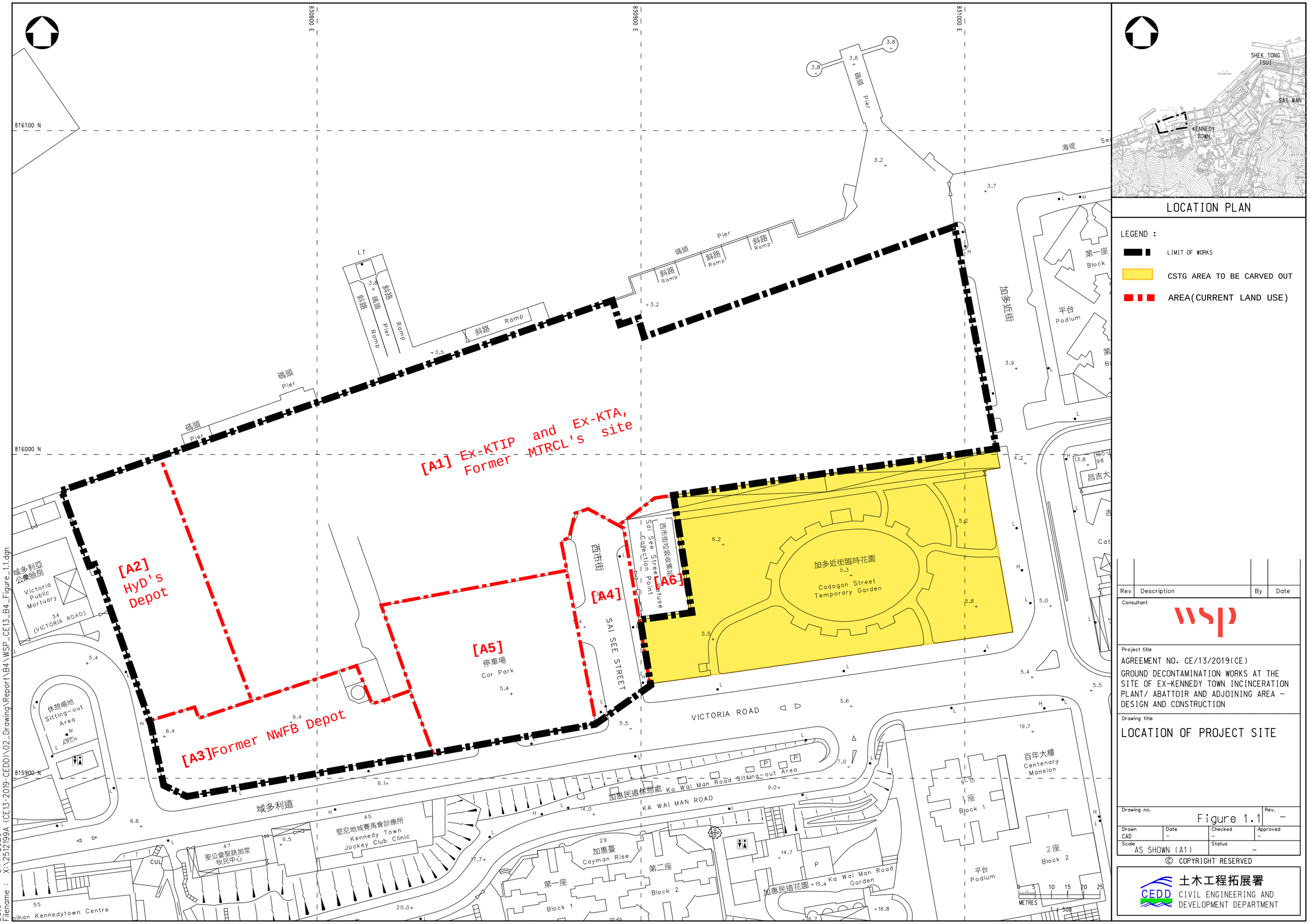
(2) Abbreviations for Protection Status/ Level of Concern:

Cap. 586 – Listed in Protection of Endangered Species of Animals and Plants Ordinance;

CPS – Listed in "National Key Protected Species" in mainland China; 1 = Grade 1; 2 = Grade 2;

CRDB – China Red Data Book: E = Endangered, V = Vulnerable, R = Rare, I = Indeterminate (Zheng & Wang 1998); Level of Concern – LC = Local Concern, RC = Regional Concern, PRC = Potential Regional Concern, PGC = Potential Global Concern, GC = Global Concern. Letters in parentheses indicate that the assessment is on the basis of restrictedness in breeding and/or roosting sites rather than in general occurrence. (Reference: Fellowes, J.R., Lau, M.W.N., Dudgeon, D., Reels, G.T., Ades, G.W.J., Carey,G.J., Chan, B.P.L., Kendrick, R.C., Lee, K.S., Leven, M.R., Wilson, K.D.P. and Yu, Y.T. (2002). Wild Animals to Watch: Terrestrial and Freshwater Fauna of Conservation Concern in Hong Kong. Memoirs of the Hong Kong Natural History Society, 25, 123-160.)

FIGURES



LOCATION PLAN

LEGEND :

- LIMIT OF WORKS
- CSTG AREA TO BE CARVED OUT
- AREA(CURRENT LAND USE)

Rev	Description	By	Date

Consultant

wsp

Project title

AGREEMENT NO. CE/13/2019(CE)

GROUND DECONTAMINATION WORKS AT THE SITE OF EX-KENNEDY TOWN INCINCERATION PLANT/ ABATTOIR AND ADJOINING AREA - DESIGN AND CONSTRUCTION

Drawing title

LOCATION OF PROJECT SITE

Drawing no.			Rev.
Figure 1.1			-
Drawn	Date	Checked	Approved
CAD	-	-	-
Scale		Status	
AS SHOWN (A1)		-	

© COPYRIGHT RESERVED

土木工程拓展署
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

Date : 31/7/2020
Filename : X:\251219\A (CE13-2019-CEDD)\02_Drawing\Report\B4\WSP_CE13_B4_Figure_1.1.dgn

0 50 100 150 200
METERS

EXISTING KENNEDY TOWN
SALTWATER PUMPING STATION

PROPOSED SITE FOR
REPROVISIONING OF
KENNEDY TOWN SALTWATER
PUMPING STATION

RESIDENTIAL DEVELOPMENT
AT THE KA WAI MAN ROAD
AND EX-MOUNT DAVIS
COTTAGE AREA

SULPHUR CHANNEL
(LAU WONG HOI HAP)

BELCHER BAY

LEGEND :

- STUDY BOUNDARY
- 500M ASSESSMENT BOUNDARY
- CONCURRENT PROJECTS

Rev	Description	By	Date

Consultant

wsp

Project title

AGREEMENT NO. CE/13/2019(CE)
GROUND DECONTAMINATION WORKS AT THE SITE OF EX-KENNEDY TOWN INCINCERATION PLANT/ ABATTOIR AND ADJOINING AREA - DESIGN AND CONSTRUCTION

Drawing title

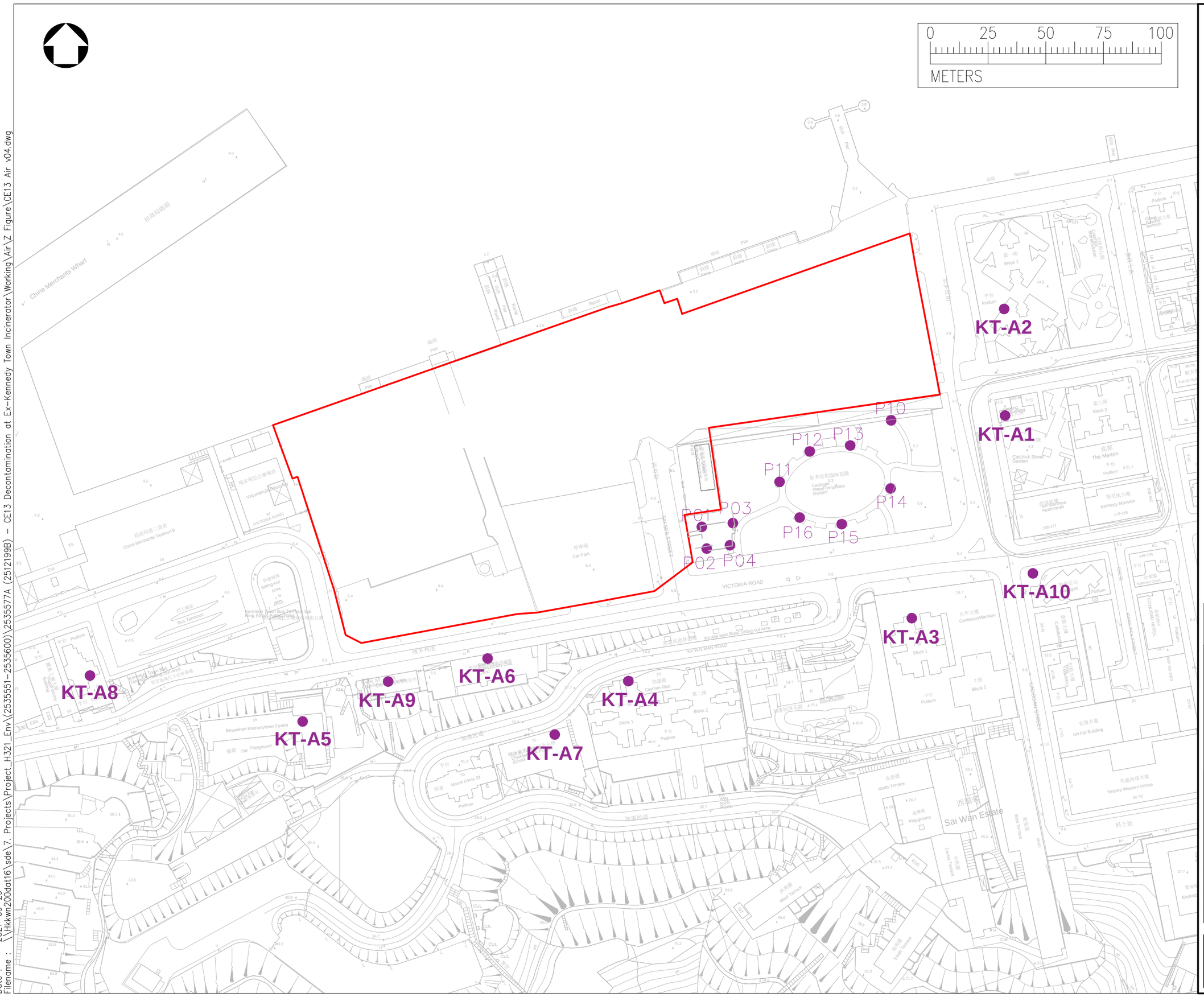
STUDY AREA FOR
AIR QUALITY IMPACT ASSESSMENT

Drawing no.		Rev.
FIGURE 3.1		0
Drawn: DH	Date: JUL2021	Checked: MW	Approved: AC
Scale: AS SHOWN		Status:

© COPYRIGHT RESERVED

土木工程拓展署
CIVIL ENGINEERING AND
DEVELOPMENT DEPARTMENT

Date : 2021-07-26
Filename : \\Hkkwn200dat16\sde\7. Projects\Project_H321_Env\(2535551-2535600)\2535577A (2512199B) - CE13 Decontamination at Ex-Kennedy Town Incinerator\Working\Air\Z Figure\CE13 Air v03.dwg



LEGEND :

- STUDY BOUNDARY
- KT-Axx REPRESENTATIVE AIR SENSITIVE RECEIVERS (EXISTING)
- Pxx REPRESENTATIVE AIR SENSITIVE RECEIVERS (WITHIN KTCDA)

Rev	Description	By	Date

Consultant

wsp

Project title

AGREEMENT NO. CE/13/2019(CE)
GROUND DECONTAMINATION WORKS AT THE SITE OF EX-KENNEDY TOWN INCINCERATION PLANT/ ABATTOIR AND ADJOINING AREA - DESIGN AND CONSTRUCTION

Drawing title

LOCATION OF REPRESENTATIVE AIR SENSITIVE RECEIVERS

Drawing no.	Rev.
FIGURE 3.2	0

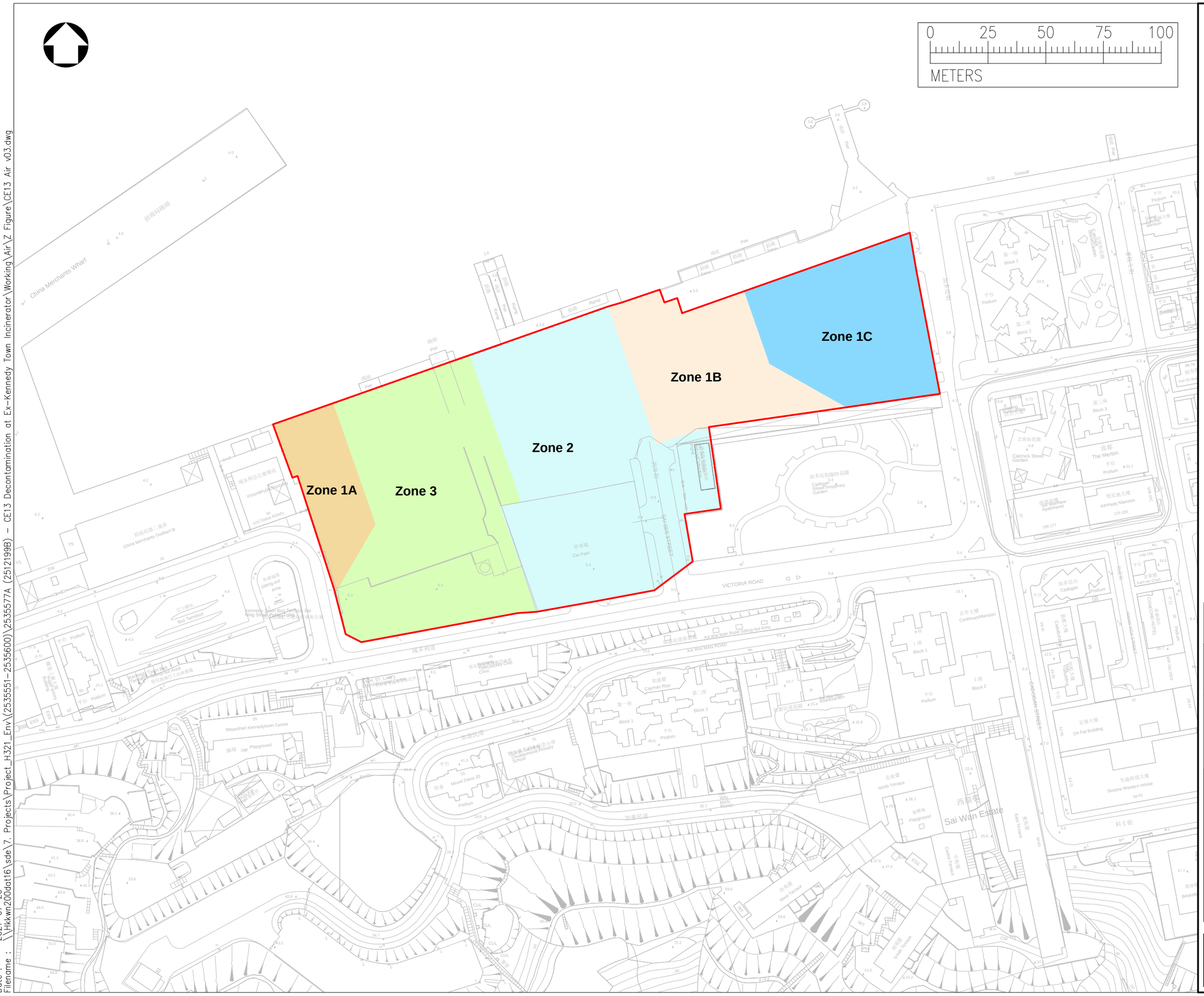
Drawn	Date	Checked	Approved
DH	SEP2021	MW	AC

Scale	Status
AS SHOWN	

© COPYRIGHT RESERVED

土木工程拓展署
CEDD CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

Date : 2021-09-29
Filename : \\Hkkwn200dat16\sde\7. Projects\Project_H321_Env\(2535551-2535600)\2535577A (2512199B) - CE13 Decontamination at Ex-Kennedy Town Incinerator\Working\Air\Z Figure\CE13 Air v04.dwg



LEGEND :

STUDY BOUNDARY

Rev	Description	By	Date

Consultant

wsp

Project title

AGREEMENT NO. CE/13/2019(CE)

GROUND DECONTAMINATION WORKS AT THE SITE OF EX-KENNEDY TOWN INCINCERATION PLANT/ ABATTOIR AND ADJOINING AREA - DESIGN AND CONSTRUCTION

Drawing title

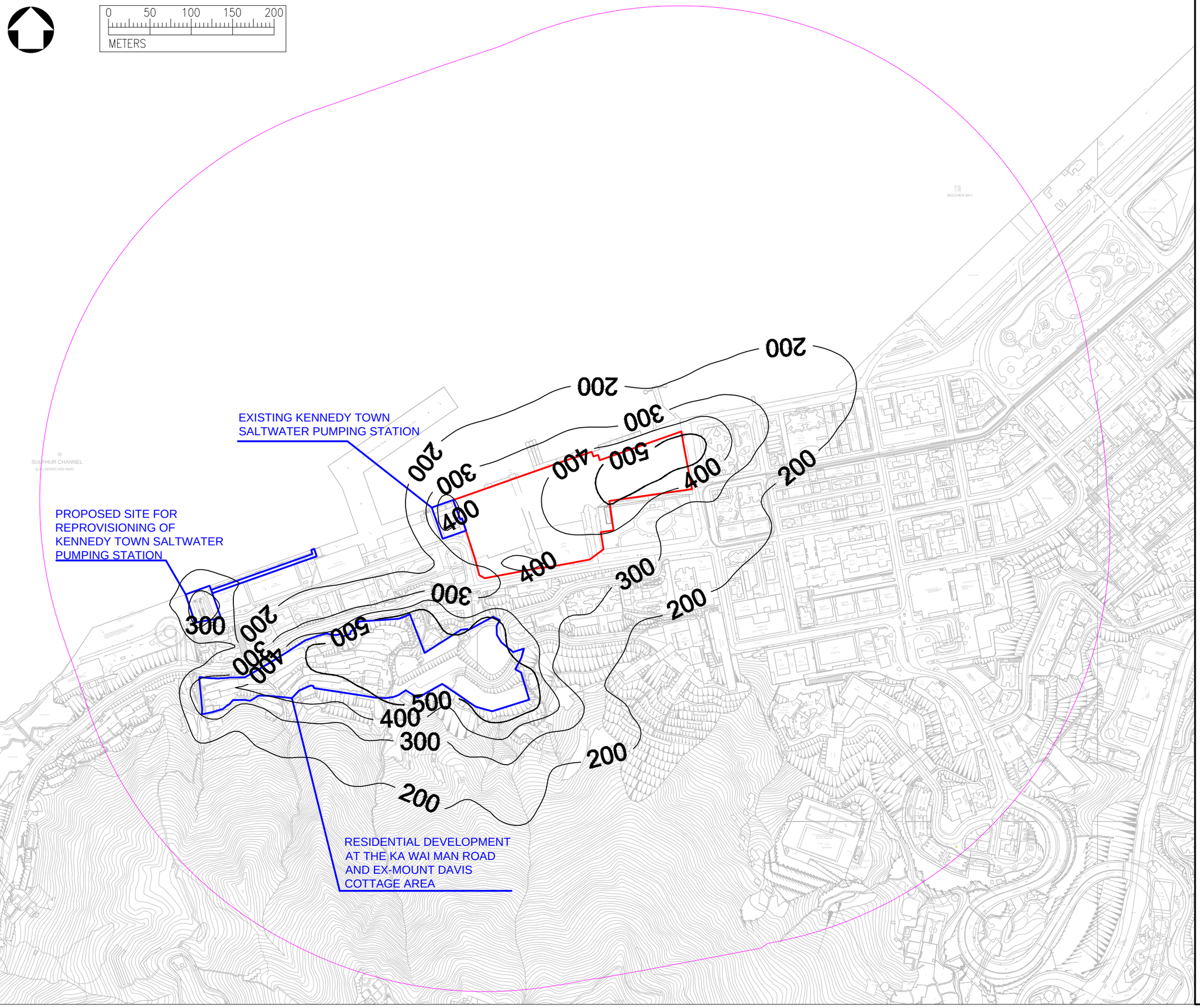
SITE CONTAMINATION ZONES

Drawing no.		Rev.
FIGURE 3.3		0
Drawn: DH	Date: JUL2021	Checked: MW / Approved: AC
Scale: AS SHOWN	Status:	

© COPYRIGHT RESERVED

土木工程拓展署
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

Date : 2021-07-26
Filename : \\Hkkwn200dat16\sde\7. Projects\Project_H321_Env\(2535551-2535600)\2535577A (2512199B) - CE13 Decontamination at Ex-Kennedy Town Incinerator\Working\Air\Z Figure\CE13 Air v03.dwg



LEGEND :

- STUDY BOUNDARY
- 500M ASSESSMENT BOUNDARY
- CONCURRENT PROJECTS

AQO LIMIT OF CONCENTRATIONS

TSP	1ST HOURLY	500	µg/m3
RSP	10TH DAILY	100	µg/m3
	ANNUAL	50	µg/m3
FSP	10TH DAILY (AQ014)	75	µg/m3
	36TH DAILY (AQ022)	50	µg/m3
	19TH DAILY (AQ022Gov.)	50	µg/m3
	ANNUAL (AQ022)	35	µg/m3
	ANNUAL (AQ022)	25	µg/m3

Rev	Description	By	Date

Consultant

wsp

Project title

AGREEMENT NO. CE/13/2019(CE)
GROUND DECONTAMINATION WORKS AT THE SITE OF EX-KENNEDY TOWN INCINCERATION PLANT/ ABATTOIR AND ADJOINING AREA - DESIGN AND CONSTRUCTION

Drawing title

CONTOURS OF CUMULATIVE RESULT MITIGATED TIER 1 1ST HOURLY TSP CONCENTRATION AT 1.5MAG

Drawing no.			Rev.
FIGURE 3.4			0
Drawn	Date	Checked	Approved
DH	OCT2021	MW	AC
Scale		Status	
AS SHOWN			

© COPYRIGHT RESERVED

土木工程拓展署
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

Date : 2021-10-07
Filename : \\Hkkwn200dat16\sde\7. Projects\Project_H321_Env\(2535551-2535600)\2535577A (2512199B) - CE13 Decontamination at Ex-Kennedy Town Incinerator\Working\Air\Z Figure\CE13 Air v04 Contour.dwg

0 50 100 150 200
METERS

EXISTING KENNEDY TOWN
SALTWATER PUMPING STATION

PROPOSED SITE FOR
REPROVISIONING OF
KENNEDY TOWN SALTWATER
PUMPING STATION

RESIDENTIAL DEVELOPMENT
AT THE KA WAI MAN ROAD
AND EX-MOUNT DAVIS
COTTAGE AREA

65 70 75 80 85

SULPHUR CHANNEL
(LAI WONG HOI HAP)

BELCHER BAY

LEGEND :

- STUDY BOUNDARY
- 500M ASSESSMENT BOUNDARY
- CONCURRENT PROJECTS

AQO LIMIT OF CONCENTRATIONS

TSP	1ST HOURLY	500	µg/m3
RSP	10TH DAILY	100	µg/m3
	ANNUAL	50	µg/m3
FSP	10TH DAILY (AQ014)	75	µg/m3
	36TH DAILY (AQ022)	50	µg/m3
	19TH DAILY (AQ022Gov.)	50	µg/m3
	ANNUAL (AQ022)	35	µg/m3
	ANNUAL (AQ022)	25	µg/m3

Rev	Description	By	Date

Consultant

wsp

Project title

AGREEMENT NO. CE/13/2019(CE)
GROUND DECONTAMINATION WORKS AT THE SITE OF EX-KENNEDY TOWN INCINCERATION PLANT/ ABATTOIR AND ADJOINING AREA - DESIGN AND CONSTRUCTION

Drawing title

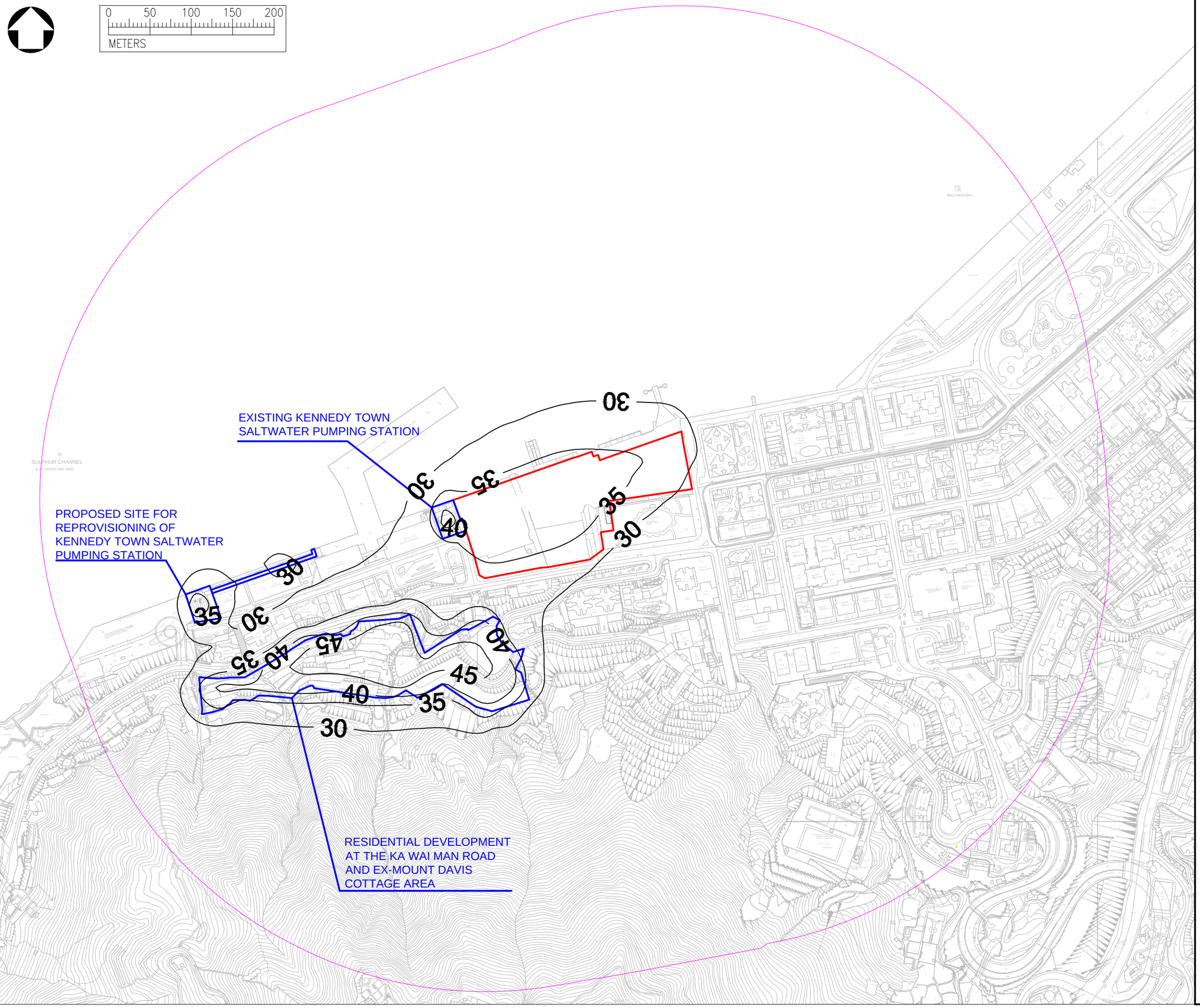
CONTOURS OF CUMULATIVE RESULT MITIGATED TIER 1 10TH DAILY RSP CONCENTRATION AT 1.5MAG

Drawing no.			Rev.
FIGURE 3.5			0
Drawn	Date	Checked	Approved
DH	OCT2021	MW	AC
Scale		Status	
AS SHOWN			

© COPYRIGHT RESERVED

土木工程拓展署
CEDD CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

Date : 2021-10-07
Filename : \\Hkkwn200dat16\sde\7. Projects\Project_H321_Env\(2535551-2535600)\2535577A (2512199B) - CE13 Decontamination at Ex-Kennedy Town Incinerator\Working\Air\Z Figure\CE13 Air v04 Contour.dwg



LEGEND :

- STUDY BOUNDARY
- 500M ASSESSMENT BOUNDARY
- CONCURRENT PROJECTS

AQO LIMIT OF CONCENTRATIONS

TSP	1ST HOURLY	500	µg/m3
RSP	10TH DAILY	100	µg/m3
	ANNUAL	50	µg/m3
FSP	10TH DAILY (AQ014)	75	µg/m3
	36TH DAILY (AQ022)	50	µg/m3
	19TH DAILY (AQ022Gov.)	50	µg/m3
	ANNUAL (AQ022)	35	µg/m3
	ANNUAL (AQ022)	25	µg/m3

Rev	Description	By	Date

Consultant

wsp

Project title

AGREEMENT NO. CE/13/2019(CE)
GROUND DECONTAMINATION WORKS AT THE SITE OF EX-KENNEDY TOWN INCINCERATION PLANT/ ABATTOIR AND ADJOINING AREA - DESIGN AND CONSTRUCTION

Drawing title

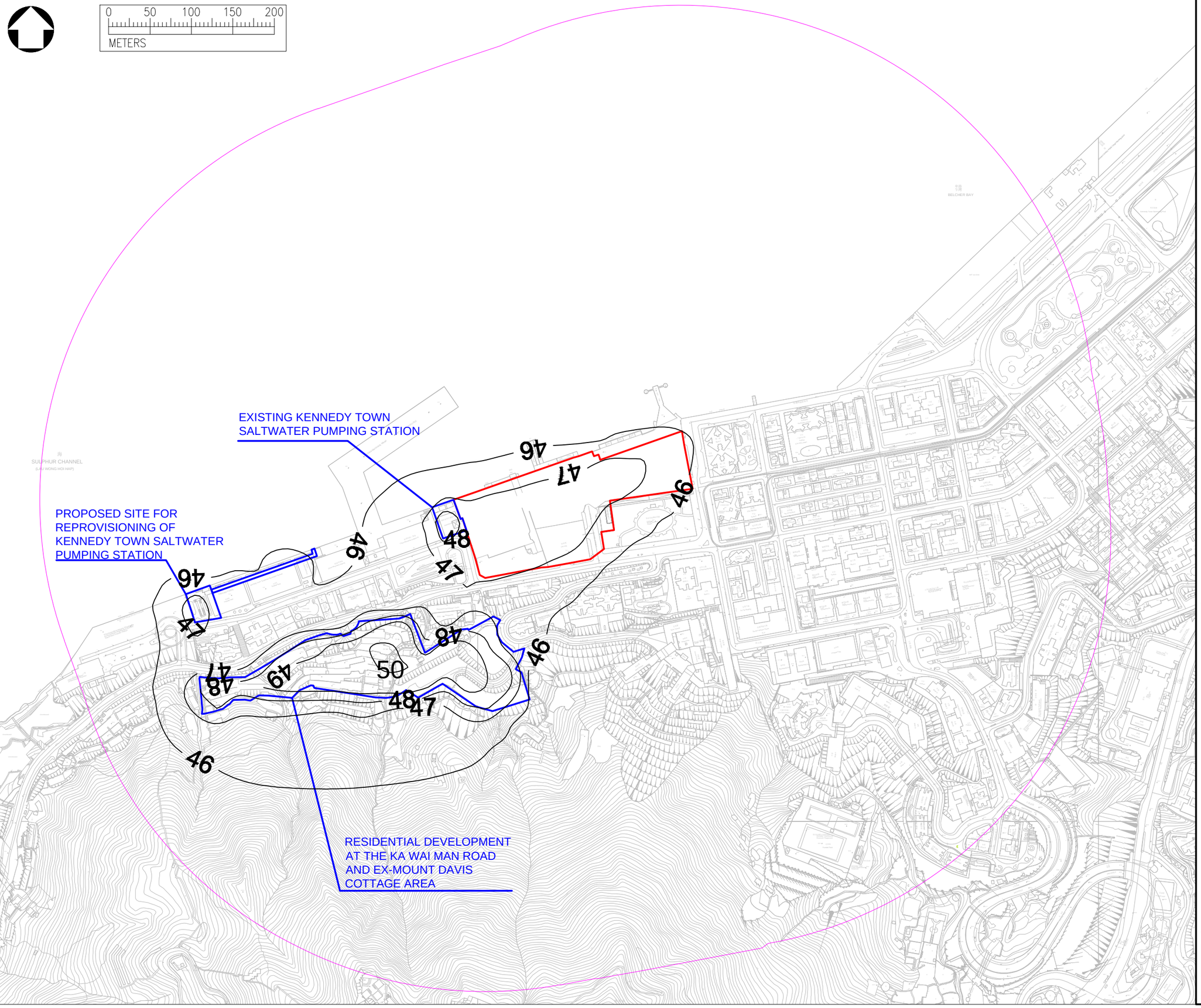
CONTOURS OF CUMULATIVE RESULT MITIGATED TIER 1 ANNUAL RSP CONCENTRATION AT 1.5MAG

Drawing no.			Rev.
FIGURE 3.6			0
Drawn: DH	Date: OCT2021	Checked: MW	Approved: AC
Scale: AS SHOWN		Status	

© COPYRIGHT RESERVED

土木工程拓展署
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

Date : 2021-10-07
Filename : \\Hkkwn200dat16\sde\7. Projects\Project_H321_Env\(2535551-2535600)\2535577A (2512199B) - CE13 Decontamination at Ex-Kennedy Town Incinerator\Working\Air\Z Figure\CE13 Air v04 Contour.dwg



LEGEND :

- STUDY BOUNDARY
- 500M ASSESSMENT BOUNDARY
- CONCURRENT PROJECTS

AQO LIMIT OF CONCENTRATIONS

TSP	1ST HOURLY	500	µg/m3
RSP	10TH DAILY	100	µg/m3
	ANNUAL	50	µg/m3
FSP	10TH DAILY (AQ014)	75	µg/m3
	36TH DAILY (AQ022)	50	µg/m3
	19TH DAILY (AQ022Gov.)	50	µg/m3
	ANNUAL (AQ022)	35	µg/m3
	ANNUAL (AQ022)	25	µg/m3

Rev	Description	By	Date

Consultant

wsp

Project title

AGREEMENT NO. CE/13/2019(CE)
GROUND DECONTAMINATION WORKS AT THE SITE OF EX-KENNEDY TOWN INCINCERATION PLANT/ ABATTOIR AND ADJOINING AREA - DESIGN AND CONSTRUCTION

Drawing title

CONTOURS OF CUMULATIVE RESULT MITIGATED TIER 1 10TH DAILY FSP CONCENTRATION AT 1.5MAG

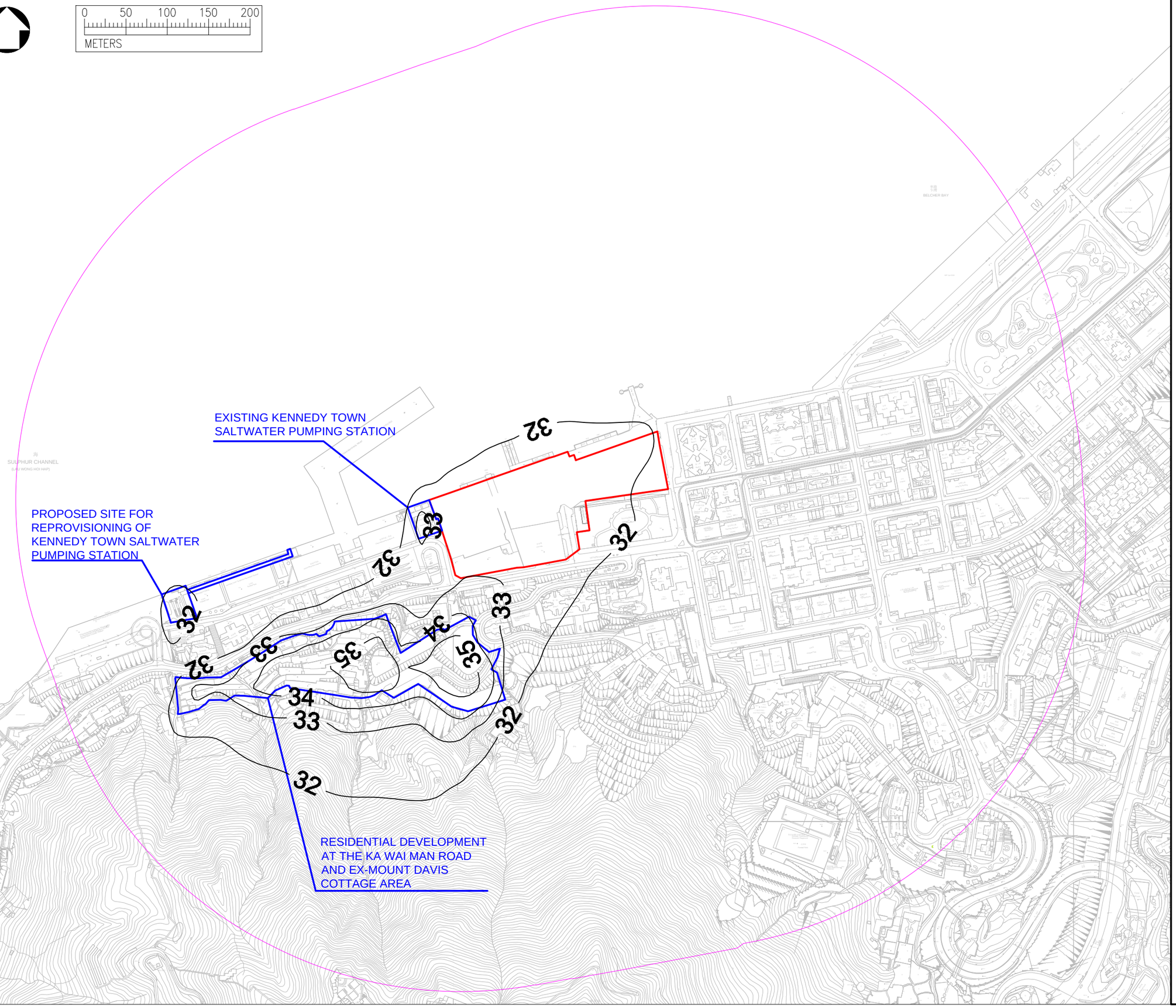
Drawing no.			Rev.
FIGURE 3.7			0
Drawn: DH	Date: OCT2021	Checked: MW	Approved: AC
Scale: AS SHOWN		Status	

© COPYRIGHT RESERVED

土木工程拓展署
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

Date : 2021-10-07
Filename : \\Hkkwn200dat16\sde\7. Projects\Project_H321_Env\(2535551-2535600)\2535577A (2512199B) - CE13 Decontamination at Ex-Kennedy Town Incinerator\Working\Air\Z Figure\CE13 Air v04 Contour.dwg

0 50 100 150 200
METERS



LEGEND :

- STUDY BOUNDARY
- 500M ASSESSMENT BOUNDARY
- CONCURRENT PROJECTS

AQO LIMIT OF CONCENTRATIONS

TSP	1ST HOURLY	500	µg/m3
RSP	10TH DAILY	100	µg/m3
	ANNUAL	50	µg/m3
FSP	10TH DAILY (AQ014)	75	µg/m3
	36TH DAILY (AQ022)	50	µg/m3
	19TH DAILY (AQ022Gov.)	50	µg/m3
	ANNUAL (AQ022)	35	µg/m3
	ANNUAL (AQ022)	25	µg/m3

Rev	Description	By	Date

Consultant

wsp

Project title

AGREEMENT NO. CE/13/2019(CE)
GROUND DECONTAMINATION WORKS AT THE SITE OF EX-KENNEDY TOWN INCINCERATION PLANT/ ABATTOIR AND ADJOINING AREA - DESIGN AND CONSTRUCTION

Drawing title

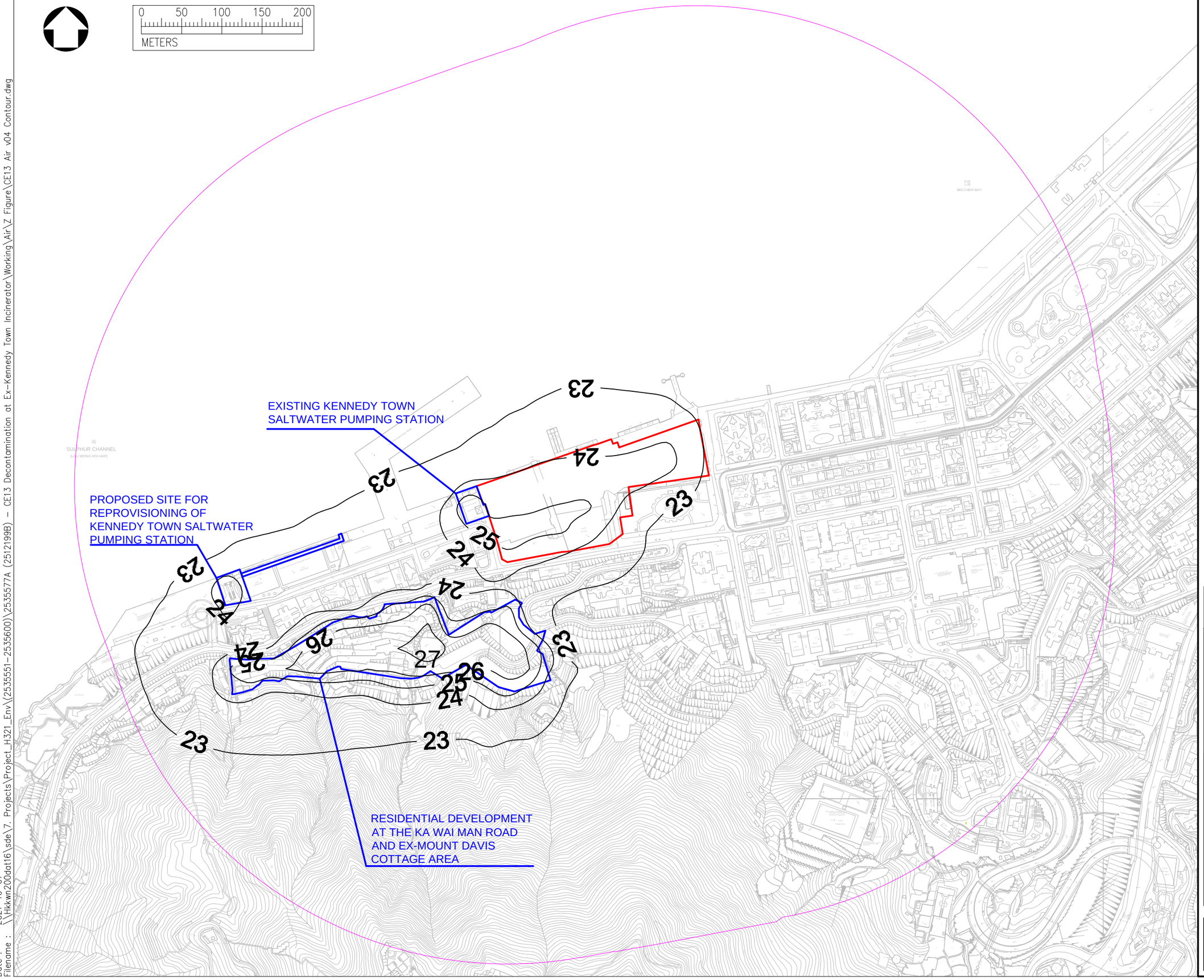
CONTOURS OF CUMULATIVE RESULT MITIGATED TIER 1 19TH DAILY FSP CONCENTRATION AT 1.5MAG

Drawing no.			Rev.
FIGURE 3.8			0
Drawn	Date	Checked	Approved
DH	OCT2021	MW	AC
Scale		Status	
AS SHOWN			

© COPYRIGHT RESERVED

土木工程拓展署
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

Date : 2021-10-07
Filename : \\Hkkwn200dat16\sde\7. Projects\Project_H321_Env\(2535551-2535600)\2535577A (2512199B) - CE13 Decontamination at Ex-Kennedy Town Incinerator\Working\Air\Z Figure\CE13 Air v04 Contour.dwg



LEGEND :

- STUDY BOUNDARY
- 500M ASSESSMENT BOUNDARY
- CONCURRENT PROJECTS

AQO LIMIT OF CONCENTRATIONS

TSP	1ST HOURLY	500	µg/m3
RSP	10TH DAILY	100	µg/m3
	ANNUAL	50	µg/m3
FSP	10TH DAILY (AQ014)	75	µg/m3
	36TH DAILY (AQ022)	50	µg/m3
	19TH DAILY (AQ022Gov.)	50	µg/m3
	ANNUAL (AQ022)	35	µg/m3
	ANNUAL (AQ022)	25	µg/m3

Rev	Description	By	Date

Consultant

wsp

Project title

AGREEMENT NO. CE/13/2019(CE)
GROUND DECONTAMINATION WORKS AT THE SITE OF EX-KENNEDY TOWN INCINCERATION PLANT/ ABATTOIR AND ADJOINING AREA - DESIGN AND CONSTRUCTION

Drawing title

CONTOURS OF CUMULATIVE RESULT MITIGATED TIER 1 36TH DAILY FSP CONCENTRATION AT 1.5MAG

Drawing no.			Rev.
FIGURE 3.9			0
Drawn	Date	Checked	Approved
DH	OCT2021	MW	AC
Scale		Status	
AS SHOWN			

© COPYRIGHT RESERVED

CEDD 土木工程拓展署
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

Date : 2021-10-07
Filename : \\Hkkwn200dat16\sde\7. Projects\Project_H321_Env\(2535551-2535600)\2535577A (25121998) - CE13 Decontamination at Ex-Kennedy Town Incinerator\Working\Air\Z Figure\CE13 Air v04 Contour.dwg

0 50 100 150 200
METERS

EXISTING KENNEDY TOWN
SALTWATER PUMPING STATION

PROPOSED SITE FOR
REPROVISIONING OF
KENNEDY TOWN SALTWATER
PUMPING STATION

RESIDENTIAL DEVELOPMENT
AT THE KA WAI MAN ROAD
AND EX-MOUNT DAVIS
COTTAGE AREA

15 16 15 15 16 17 15 16 17 16 15 16 15

SULPHUR CHANNEL
(LAI WONG HOI HAP)

BELCHER BAY

LEGEND :

- STUDY BOUNDARY
- 500M ASSESSMENT BOUNDARY
- CONCURRENT PROJECTS

AQO LIMIT OF CONCENTRATIONS

TSP	1ST HOURLY	500	µg/m3
RSP	10TH DAILY	100	µg/m3
	ANNUAL	50	µg/m3
FSP	10TH DAILY (AQ014)	75	µg/m3
	36TH DAILY (AQ022)	50	µg/m3
	19TH DAILY (AQ022Gov.)	50	µg/m3
	ANNUAL (AQ022)	35	µg/m3
	ANNUAL (AQ022)	25	µg/m3

Rev	Description	By	Date

Consultant

wsp

Project title

AGREEMENT NO. CE/13/2019(CE)
GROUND DECONTAMINATION WORKS AT THE SITE OF EX-KENNEDY TOWN INCINCERATION PLANT/ ABATTOIR AND ADJOINING AREA - DESIGN AND CONSTRUCTION

Drawing title

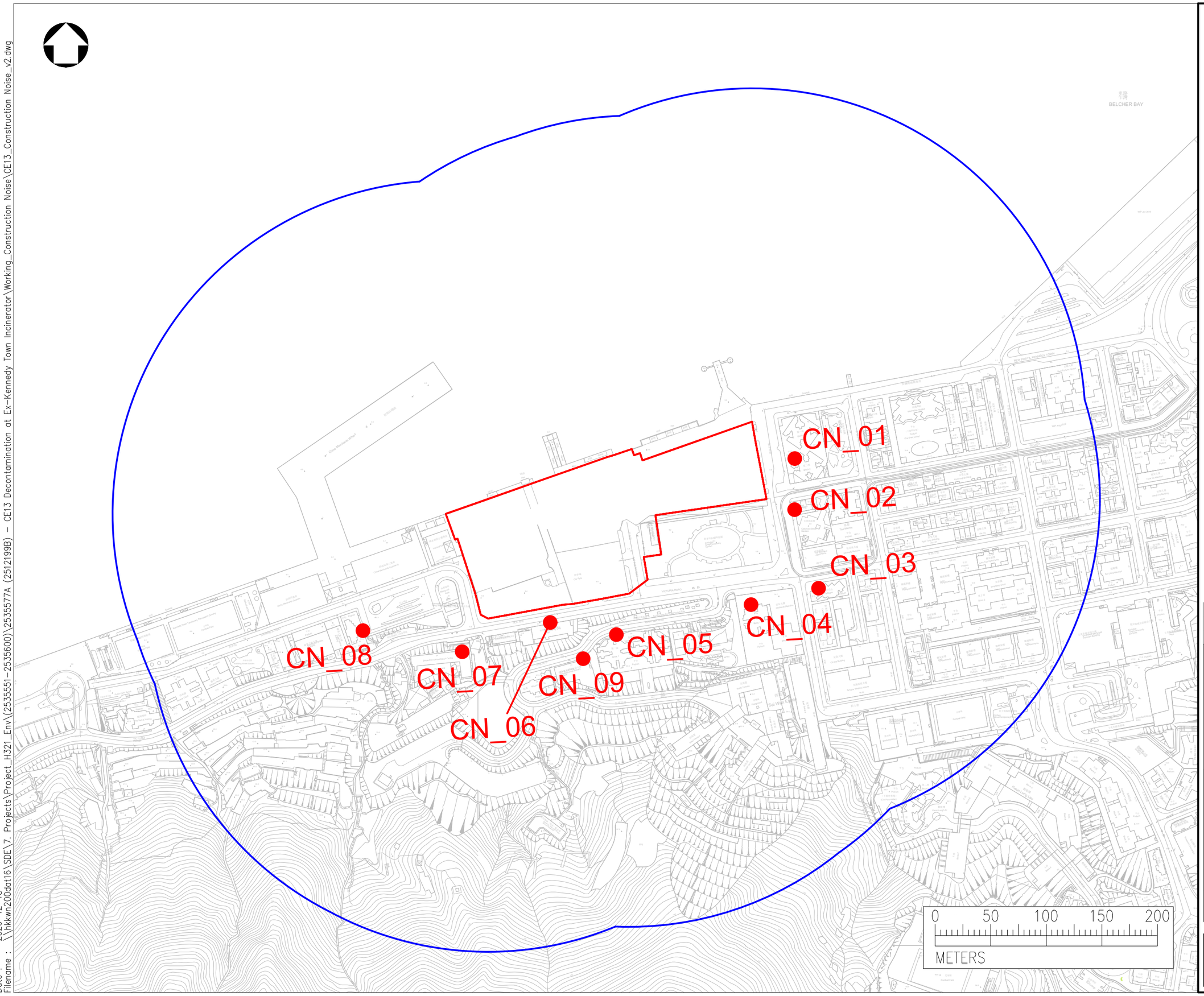
CONTOURS OF CUMULATIVE RESULT MITIGATED TIER 1 ANNUAL FSP CONCENTRATION AT 1.5MAG

Drawing no.			Rev.
FIGURE 3.10			0
Drawn	Date	Checked	Approved
DH	OCT2021	MW	AC
Scale		Status	
AS SHOWN			

© COPYRIGHT RESERVED

土木工程拓展署
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

Date : 2021-10-07
Filename : \\Hkkwn200dat16\sde\7. Projects\Project_H321_Env\(2535551-2535600)\2535577A (2512199B) - CE13 Decontamination at Ex-Kennedy Town Incinerator\Working\Air\Z Figure\CE13 Air v04 Contour.dwg



LEGEND :

- PROJECT SITE BOUNDARY
- 300M ASSESSMENT BOUNDARY
- REPRESENTATIVE NOISE SENSITIVE RECEIVERS

Rev	Description	By	Date

Consultant

wsp

Project title

AGREEMENT NO. CE/13/2019(CE)
GROUND DECONTAMINATION WORKS AT THE SITE OF EX-KENNEDY TOWN INCINCERATION PLANT/ ABATTOIR AND ADJOINING AREA - DESIGN AND CONSTRUCTION

Drawing title

LOCATION OF REPRESENTATIVE NOISE SENSITIVE RECEIVERS

Drawing no.			Rev.
FIGURE 4.1			1
Drawn: AL	Date: OCT2021	Checked: MW	Approved: AC
Scale: AS SHOWN		Status:	

© COPYRIGHT RESERVED

土木工程拓展署
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

Date : 2020-12-18
Filename : \\hkkwn200dat16\SDE\7. Projects\Project_H321_Env\(2535551-2535600)\2535577A (2512199B) - CE13 Decontamination at Ex-Kennedy Town Incinerator\Working_Construction Noise\CE13_Construction Noise_v2.dwg