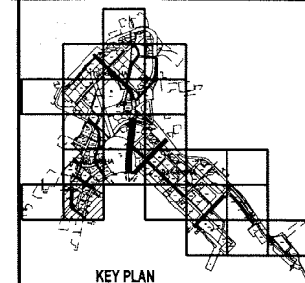
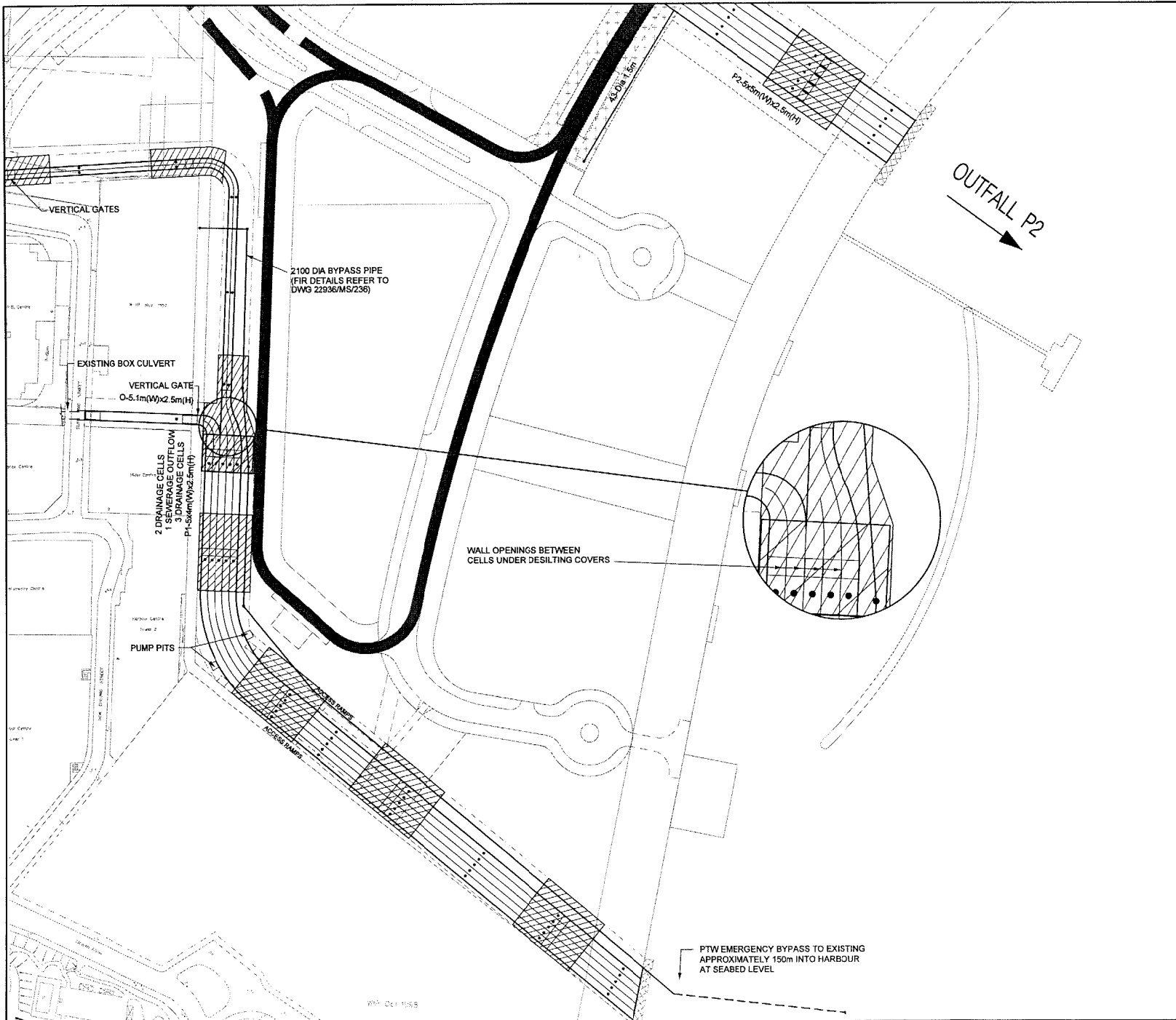


SECTION 4



KEY PLAN

LEGEND:

- PROPOSED BOX CULVERT
- STORMWATER DRAIN
- MANHOLE
- DRAINAGE WORKING AREA FOR DESILTING, DETAIL SEE DWG. NO. 22936/POMC/006
- ACCESS SHAFT OPENING
- TYPE I DESILTING OPENING

E	Minor Amendments	PAF	Apr.,01
D	Minor Amendments	PAF	Apr.,01
C	General Revision	DR	Mar.,01
B	General Revision	DR	Feb.,01
A	General Revision	DR	Jan.,01
Rev	Description	By	Date

Consultants
ARUP Ove Arup & Partners Hong Kong Limited
 Murrey Harbin Limited AGA Limited
 Au Pooker Consultants Limited Environmental Management Limited
 Montgomery Watson Hong Kong Limited Rocco Design Limited
 Wabtec Limited

Project title
**AGREEMENT NO. CE 32/99
 COMPREHENSIVE FEASIBILITY STUDY
 FOR THE REVISED SCHEME OF
 SOUTH EAST KOWLOON DEVELOPMENT**

Drawing title
**HORIZONTAL ALIGNMENTS-
 STORMWATER DRAIN**

Drawing no.		Rev.	
22936/DR/055		E	
Drawn	Date	Checked	Approved
CL	NOV2000		
Scale	1:100 @ A1	Status	FRELIMINARY
	1:200 @ A3		

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Printed by: USERA
 Date: 11/11/05
 File: 22936/DR/055

WIP Oct 11/05

OVERFLOW WEIR
WIDTH = 7m
CREST LEVEL = 2.5mPD

EXISTING 1350 DIA PIPE

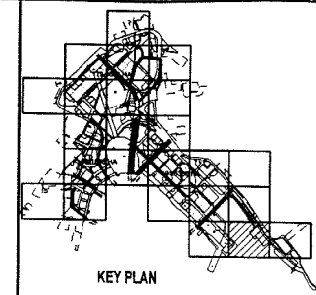
2100 DIA RC PIPE

VERTICAL GATE

A-3 3m(W) x 2.5m(H)

2100 DIA BYPASS PIPE

2100 DIA BYPASS PIPE
UNDERNEATH BREAKWATER
(FOR DETAILS REFER TO
DWG 22936/MS/231)
DWG 22936/MS/231 SHOWS
DETAILS OF THE ALIGNMENT
OF THE BYPASS PIPE



- LEGEND:
- PROPOSED BOX CULVERT
 - STORMWATER DRAIN
 - MANHOLE
 - DRAINAGE WORKING AREA FOR DESILTING.
DETAIL SEE DWG. NO. 22936/PDMC/006
 - ACCESS SHAFT OPENING
 - TYPE I DESILTING OPENING

Rev	Description	By	Date
F	Minor Amendments	PAF	Apr.,01
E	Minor Amendments	PAF	Apr.,01
D	Minor Amendments	PAF	Apr.,01
C	General Revision	DR	Mar.,01
B	General Revision	DR	Feb.,01
A	General Revision		Jan.,01

Consultants

ARUP Ove Arup & Partners Hong Kong Limited
 Manley Harbour Limited
 Au Pong Consultants Limited
 Montgomery Wilson Hong Kong Limited
 Wiskell Limited

ACL Limited
 Environmental Management Limited
 Flood Design Limited

Project Title

**AGREEMENT NO. CE 32/99
 COMPREHENSIVE FEASIBILITY STUDY
 FOR THE REVISED SCHEME OF
 SOUTH EAST KOWLOON DEVELOPMENT**

Drawing Title

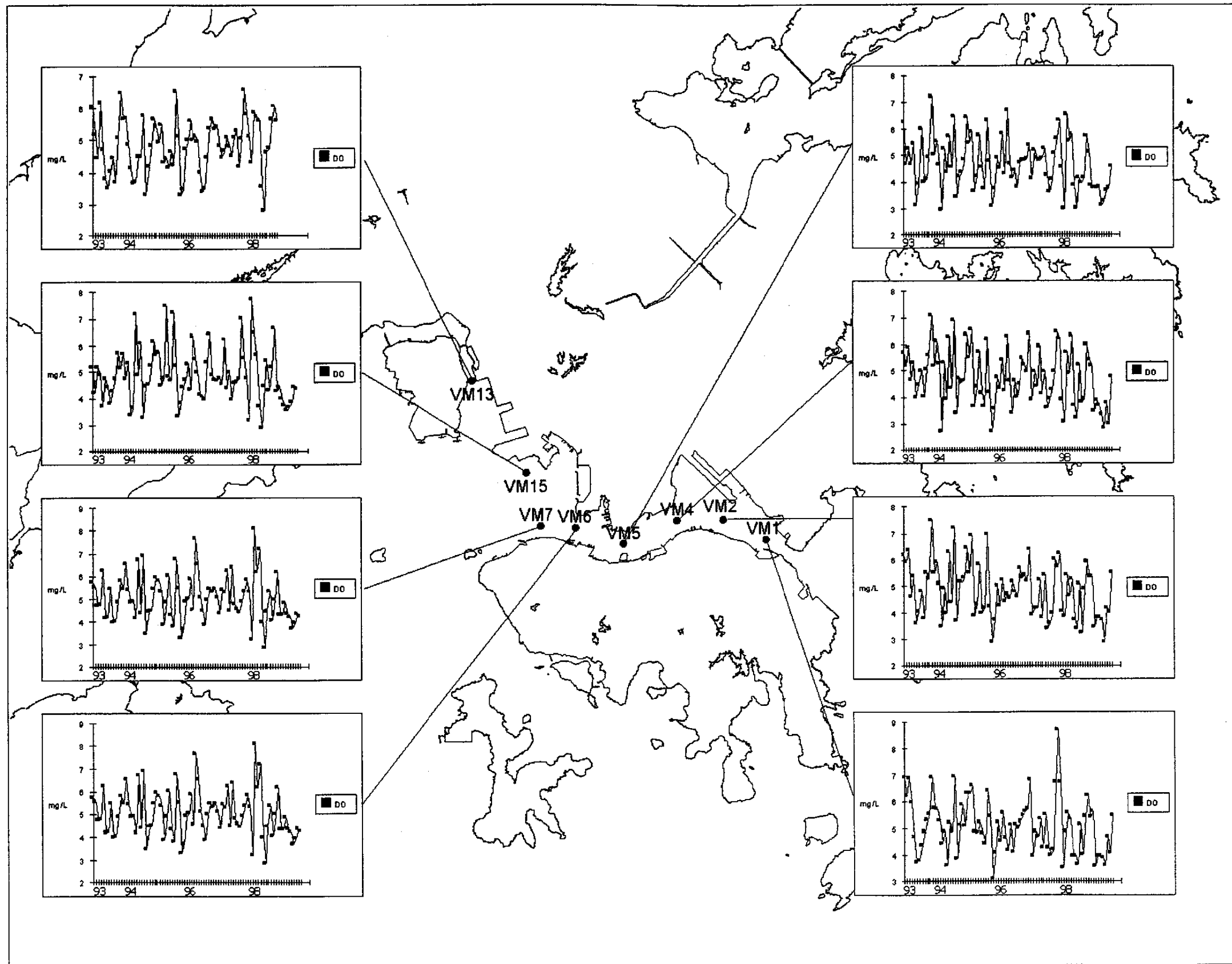
**HORIZONTAL ALIGNMENTS-
 STORMWATER DRAIN**

Drawing no.	22936/DR/060	Rev.	F
Drawn	CL	Date	NOV2000
Checked		Approved	
Scale	1:1000 @ A1 1:2000 @ A2	Status	PRELIMINARY

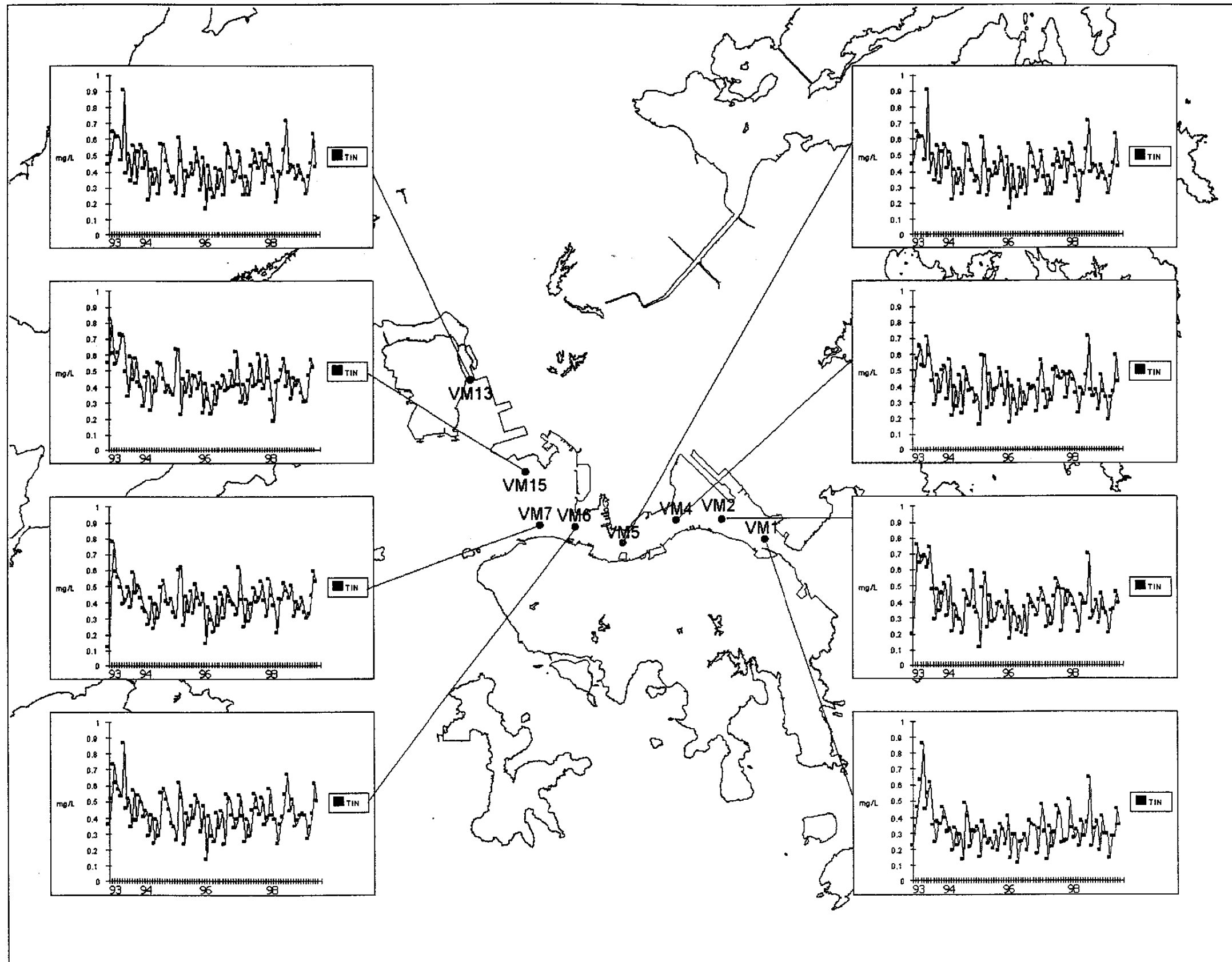
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 Department, Hong Kong
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 KOWLOON DEVELOPMENT OFFICE

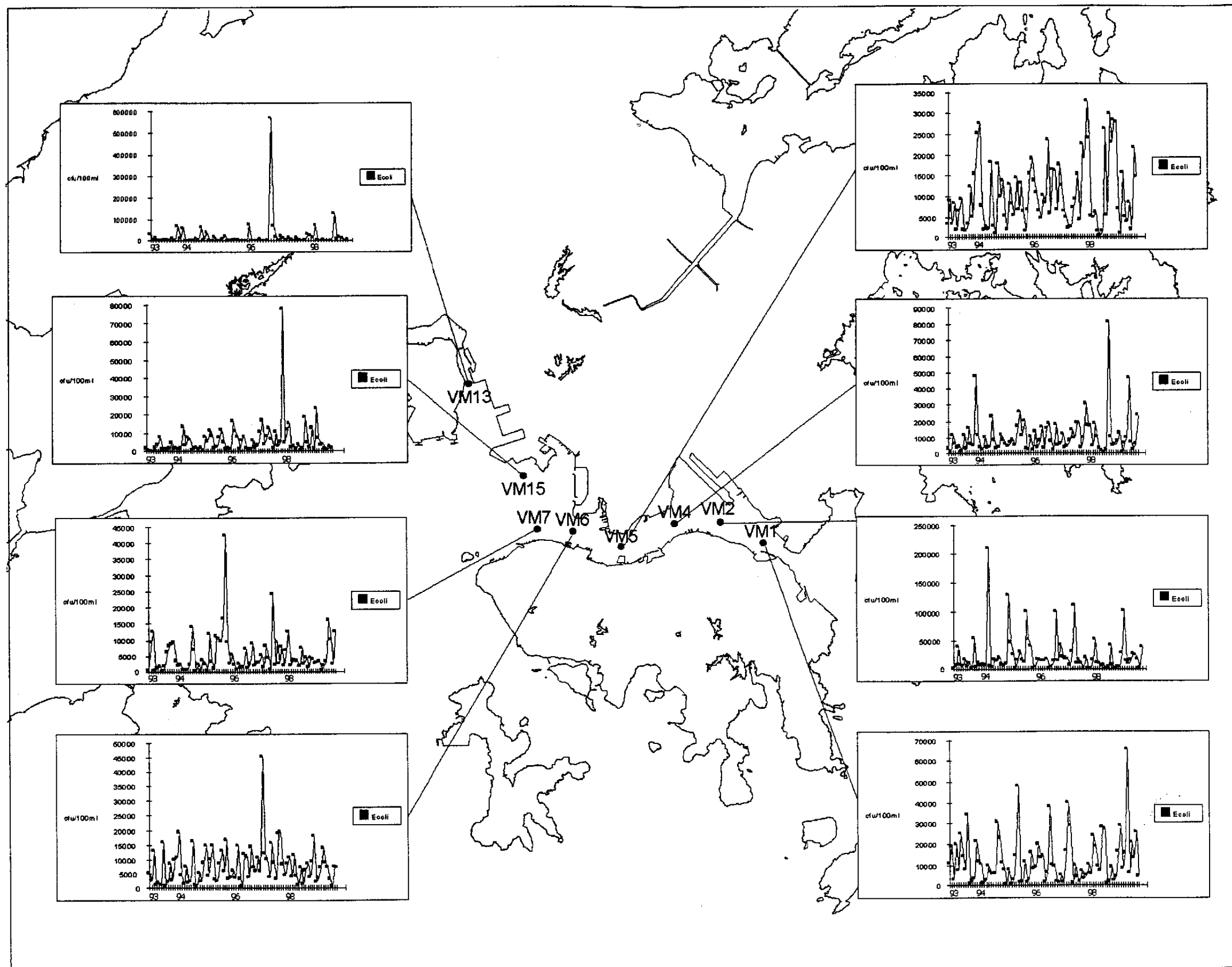
PRINTED BY: BUREAU OF LANDS
 Planning & Survey
 地政總署
 測繪及地政處



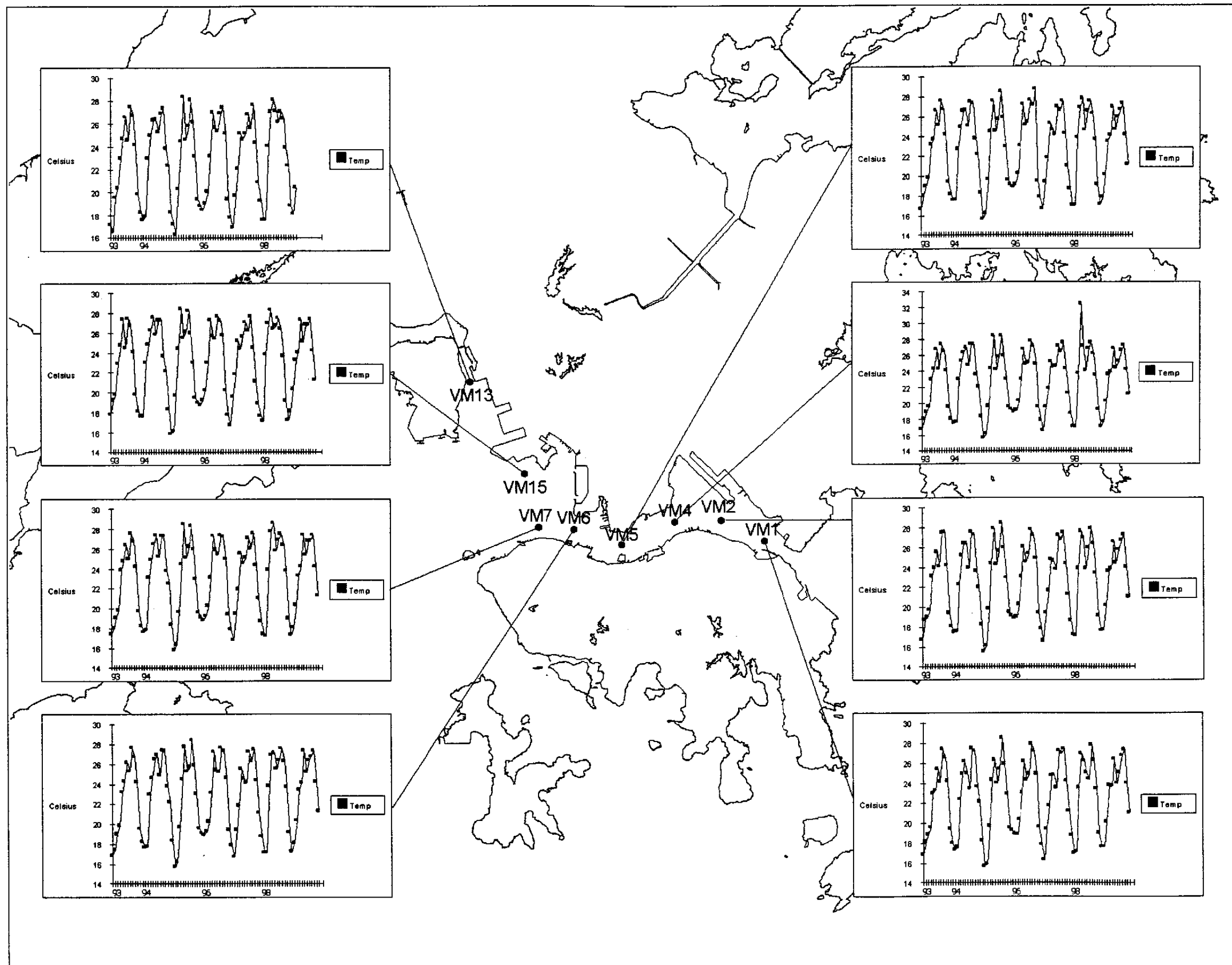
Drawing No. 22936/EN/013 Depth-averaged Dissolved Oxygen Levels at EPD's Water Sampling Stations (Victoria Harbour WCZ)



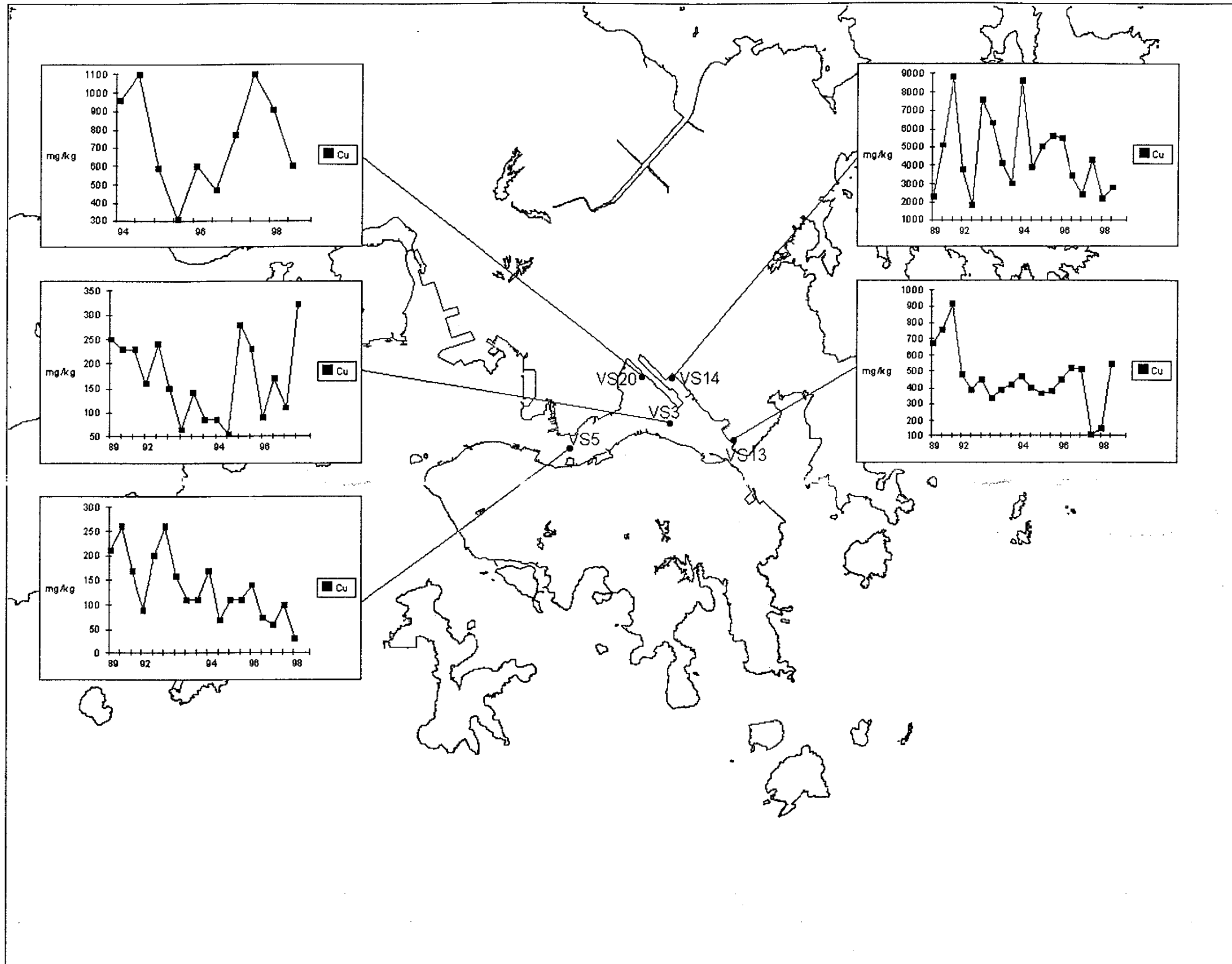
Drawing No. 22936/EN/014 Depth-averaged Total Inorganic Nitrogen Levels at EPD's Water Sampling Stations (Victoria Harbour WCZ)



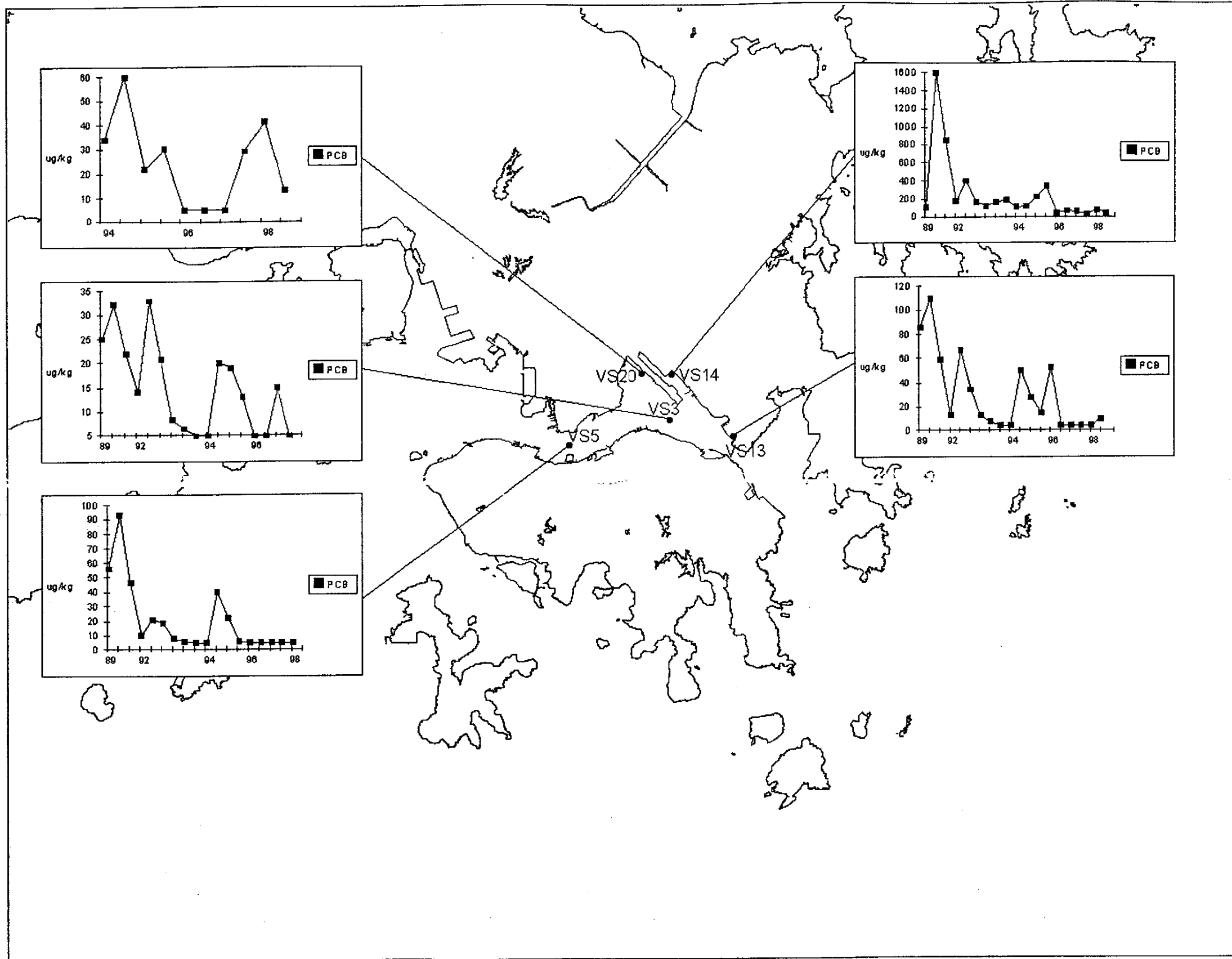
Drawing No. 22936/EN/015 Depth-averaged E.coli Levels at EPD's Water Sampling Stations (Victoria Harbour WCZ)



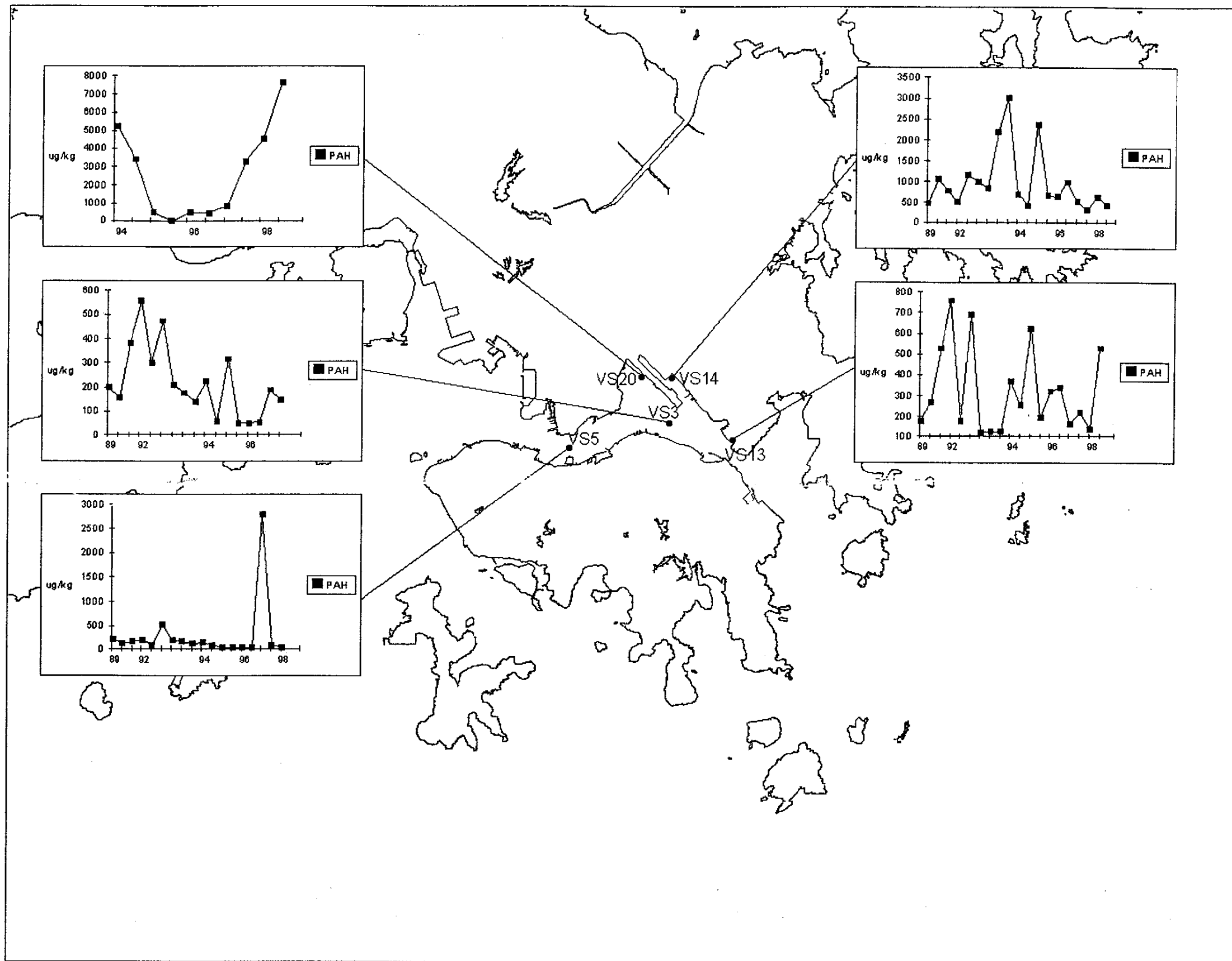
Drawing No. 22936/EN/016 Measured Temperature at EPD's Water Sampling Stations (Victoria Harbour WCZ)



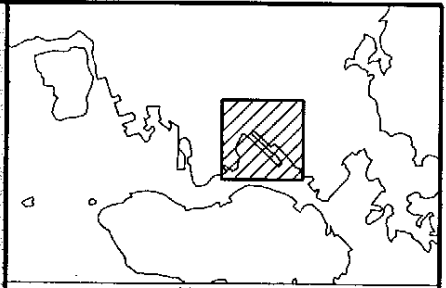
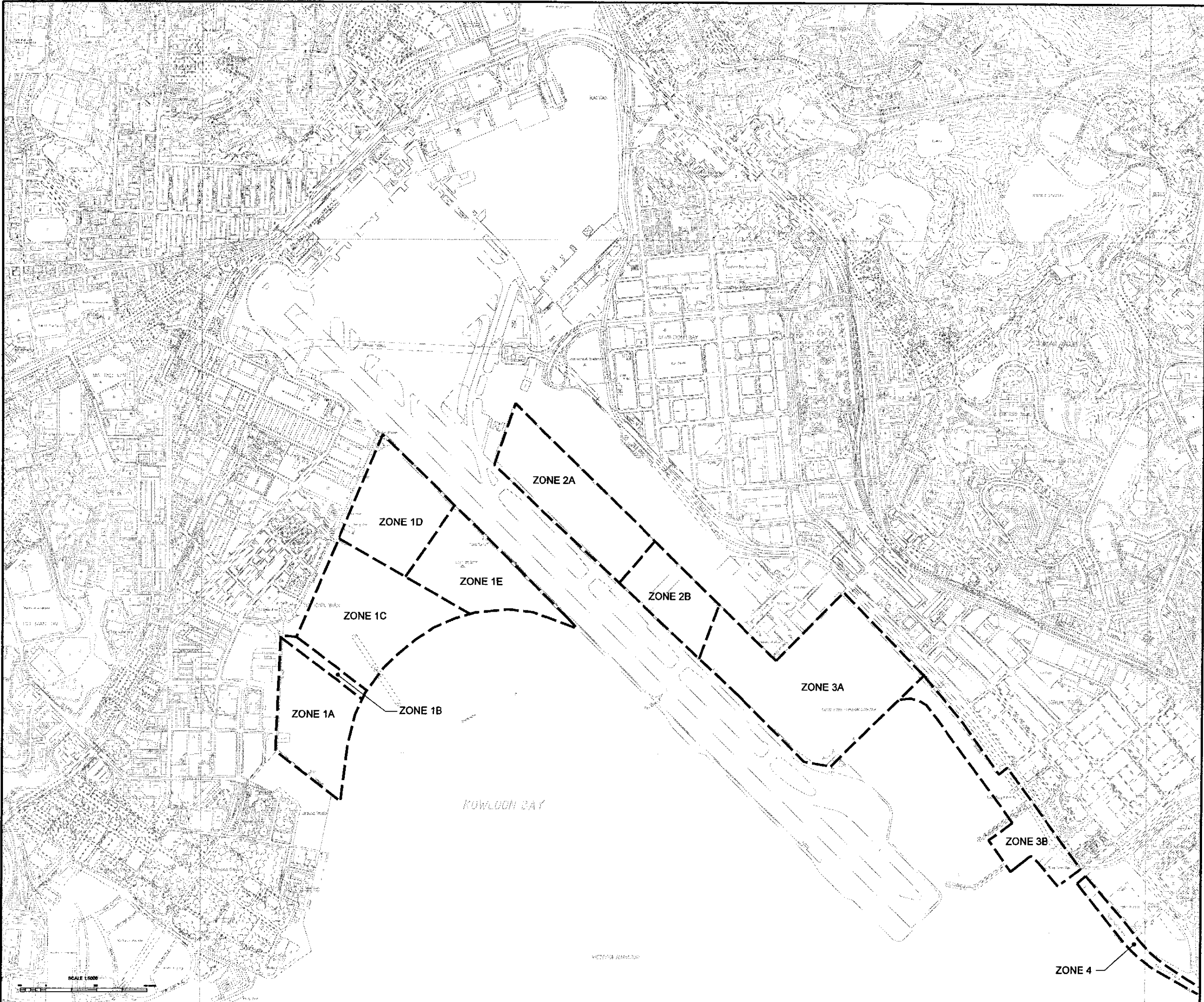
Drawing No. 22936/EN/017 Copper Concentrations at EPD's Sediment Sampling Stations (Victoria Harbour WCZ)



Drawing No. 22936/EN/018 PCB Concentrations at EPD's Sediment Sampling Stations (Victoria Harbour WCZ)



Drawing No. 22936/EN/019 PAH Concentrations at EPD's Sediment Sampling Stations (Victoria Harbour WCZ)



KEY PLAN

LEGEND

Reclamation	Zoning
Kowloon Bay / Hoi Sham	1A, 1B, 1C, 1D & 1E
Kai Tak Approach Channel	2A & 2B
Kwun Tong Typhoon Shelter	3A & 3B
Cha Kwo Ling	4

Rev	Description	By	Date
B			Mar..01
A			

Consultants

ARUP	Ove Arup & Partners Hong Kong Limited
Murray Harrison Limited	ACIA Limited
Au Postors Consultants Limited	Environmental Management Limited
Montgomery Watson Hong Kong Limited	Rozco Design Limited
Widnell Limited	

Project title

**AGREEMENT NO.CE 32/99
COMPREHENSIVE FEASIBILITY STUDY
FOR THE REVISED SCHEME OF
SOUTH EAST KOWLOON DEVELOPMENT**

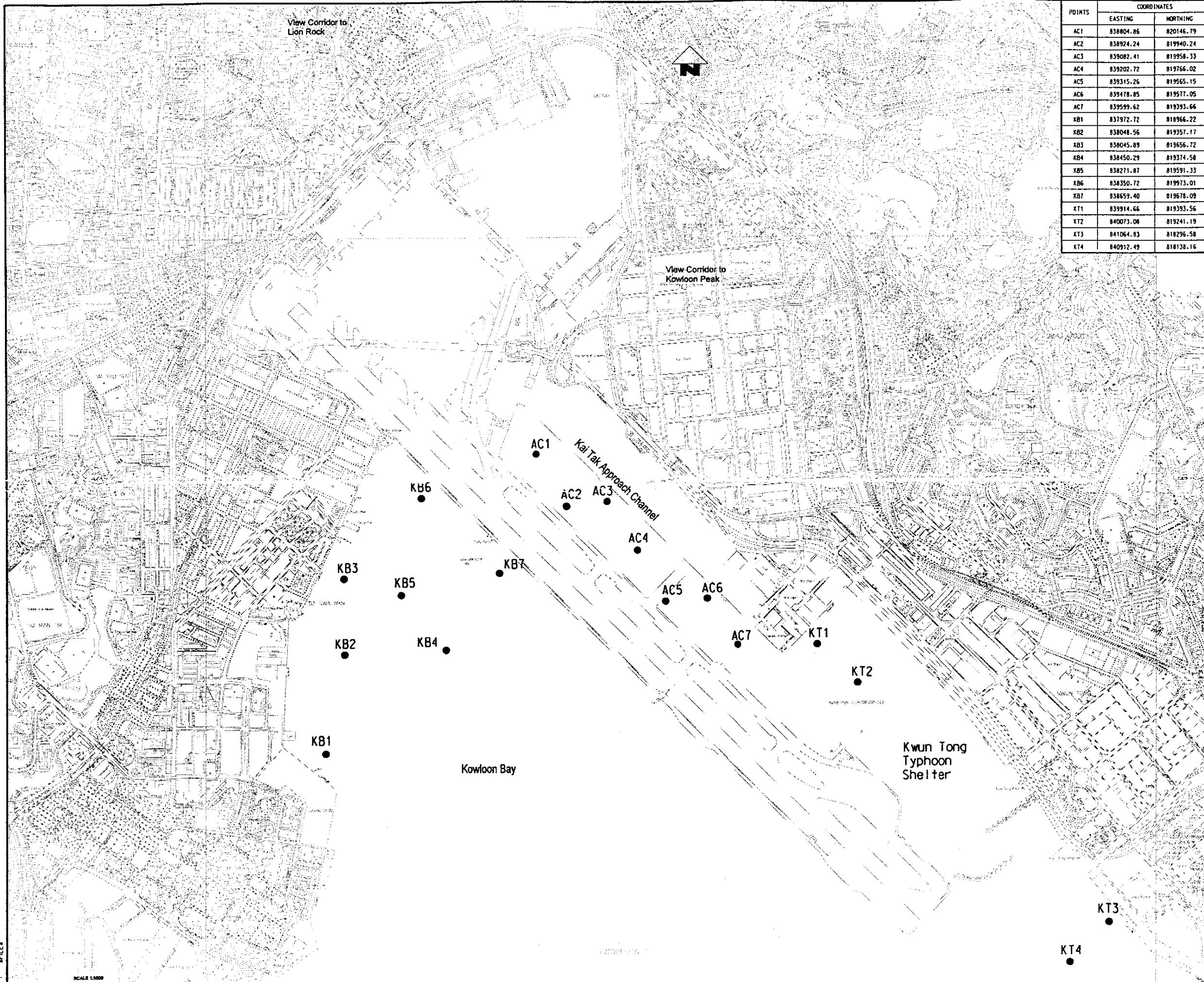
Drawing title

PROPOSED RECLAMATION ZONES

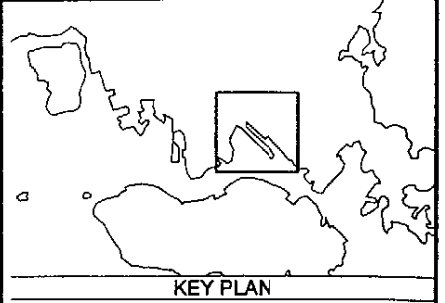
Drawing no.	22936/EN/020	Rev.	B
Drawn	Date	Checked	Approved
	AUG 00		
Scale	1:5000	Status	PRELIMINARY

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Territory Development
Department, Hong Kong
九龍拓展處



POINTS	COORDINATES	
	EASTING	NORTHING
AC1	83804.86	820146.79
AC2	838924.24	819940.24
AC3	839082.41	819958.33
AC4	839202.72	819766.02
AC5	839315.26	819565.15
AC6	839478.85	819377.05
AC7	839599.62	819393.66
KB1	837972.72	818966.22
KB2	838048.56	819357.17
KB3	838045.89	819656.72
KB4	838450.29	819374.58
KB5	838271.87	819591.33
KB6	838350.72	819973.01
KB7	838659.40	819678.09
KT1	839914.66	819393.56
KT2	840073.08	819241.19
KT3	841064.83	818296.58
KT4	840912.49	818138.16



Rev	Description	By	Date

Consultants	
ARUP Murray Hillier Limited	Ove Arup & Partners Hong Kong Limited
Air Pollution Consultants Limited	ACIA Limited
Mortenson Wilson Hong Kong Limited	Environmental Management Limited
Widnell Limited	Rozco Design Limited

Project title
**AGREEMENT NO. CE 32/99
 COMPREHENSIVE FEASIBILITY STUDY
 FOR THE REVISED SCHEME OF
 SOUTH EAST KOWLOON DEVELOPMENT**

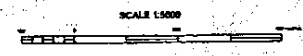
Drawing title
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 FOR SITE INVESTIGATION**

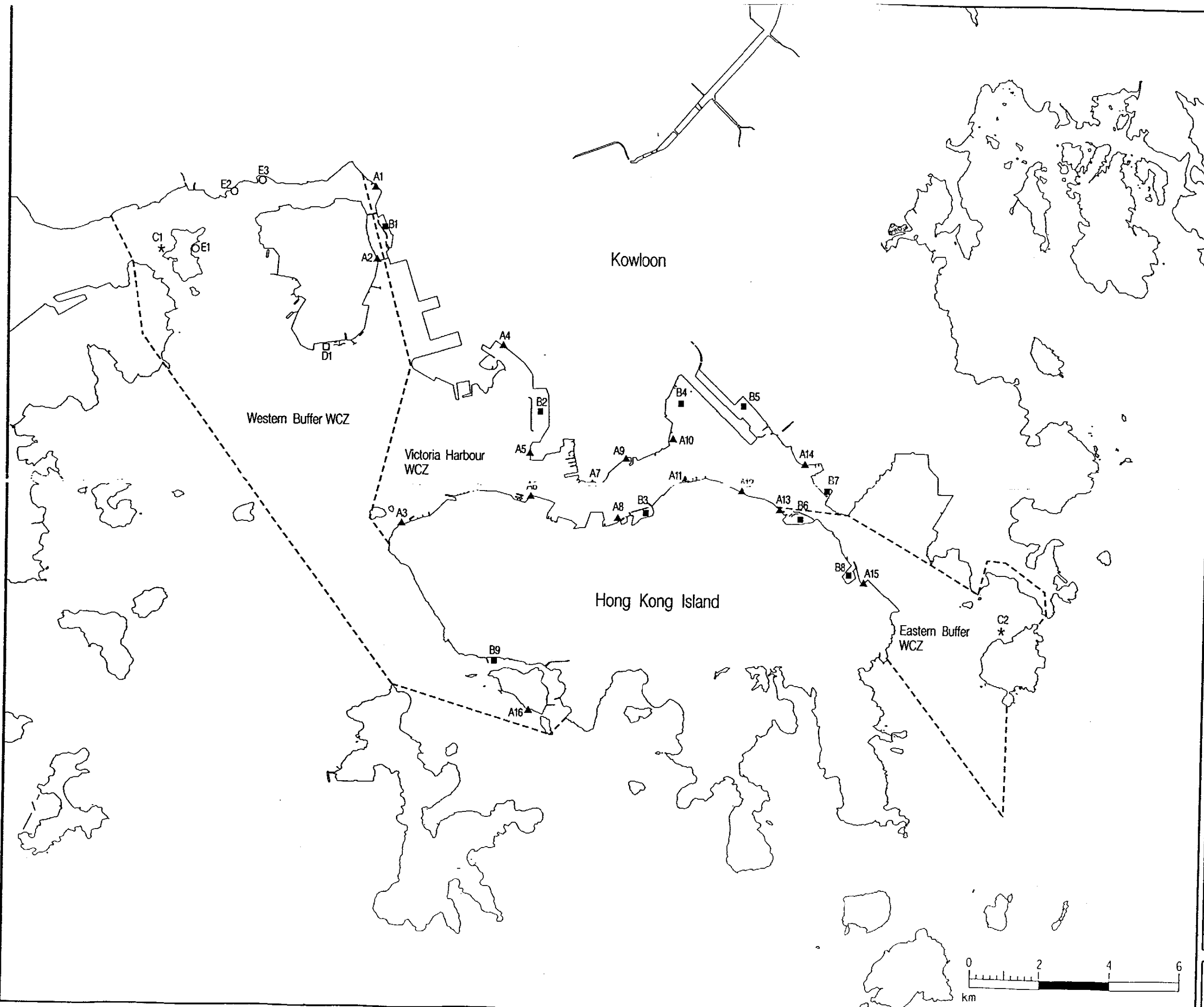
Drawing no.	22936/EN/021	Rev.	A
Drawn	Date	Checked	Approved
Scale	1:5000	Status	PRELIMINARY

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 KOWLOON DEVELOPMENT OFFICE

Printer by : EUSERS
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- LEGEND:-
- Water Quality Sensitive Receivers
 - Salt Water Intakes
 - ▲ A1 to A16
 - Typhoon Shelters
 - B1 to B9
 - Mariculture Zones
 - * C1 and C2
 - Cooling Water Intake
 - D1
 - Gazatted Beaches
 - E1 to E3

Printed by: MUSEUM DATE: 11/11/00
 File no: 22936/EN/033

Rev	Description	By	Date
A	Draft	PCL	JULY 00

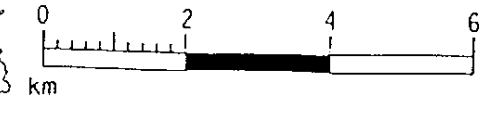
Consultants:
ARUP One Arup & Partners Hong Kong Limited
 Mott MacDonald Limited
 Amec Paragon Limited
 Montgomery Watson Hong Kong Limited
 WSP Limited
 AECOM Limited
 Environmental Management Limited
 Paces Design Limited

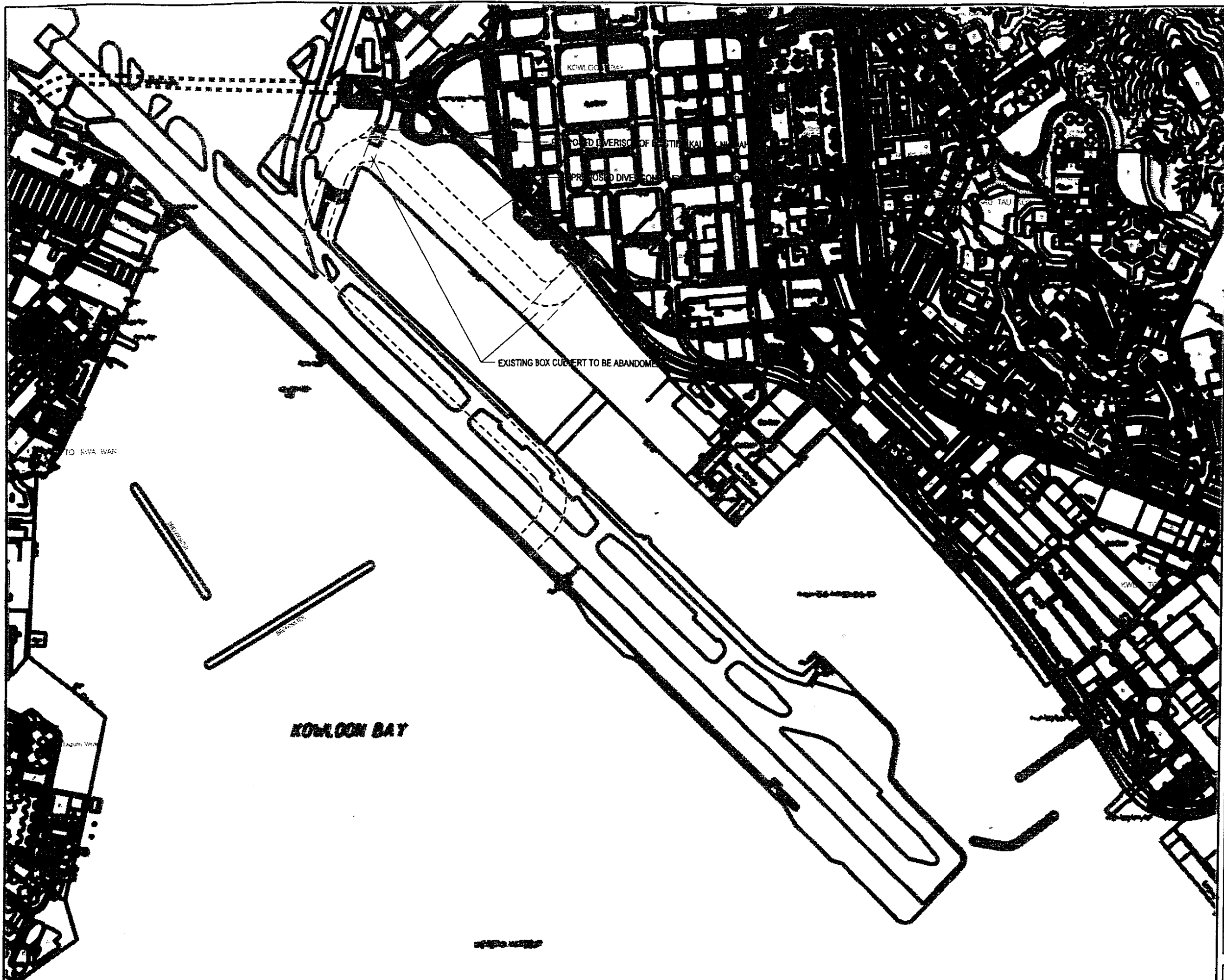
Project Title:
**AGREEMENT NO. CE 32/99
 COMPREHENSIVE FEASIBILITY STUDY
 FOR THE REVISED SCHEME OF
 SOUTH EAST KOWLOON DEVELOPMENT**

Drawing Title:
**WATER QUALITY
 SENSITIVE RECEIVERS**

Drawing no.	22936/EN/033	Rev.	A
Drawn	PCL	Date	JULY 00
Checked		Approved	
Scale	1:100000 on A3 size	Status	PRELIMINARY

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Drawn by: SUSERS
 Date: 11/11/00
 Checked by: S.F. LEE

Rev	Description	By	Date

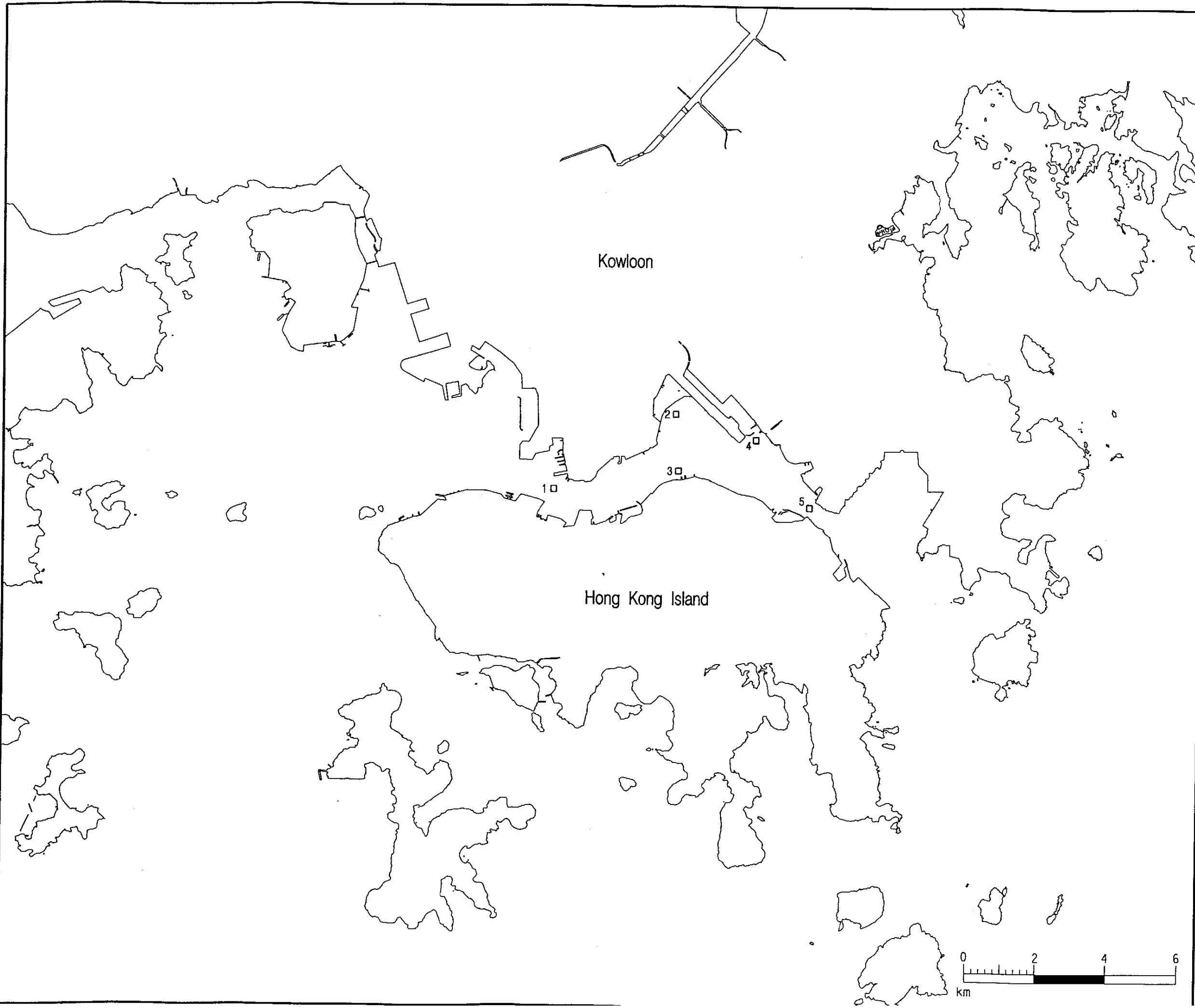
Consultants
ARUP One Arup & Partners Hong Kong Limited
 Murray Hillier Limited ACLA Limited
 Au Pongard Consultants Limited Environmental Management Limited
 Montgomery Watson Hong Kong Limited Paces Design Limited
 Wicks Limited

Project Title
 AGREEMENT NO. CE 32/99
 COMPREHENSIVE FEASIBILITY STUDY
 FOR THE REVISED SCHEME OF
 SOUTH EAST KOWLOON DEVELOPMENT

Drawing Title
 PROPOSED ROUTING OF THE DIVERTED
 KAI TAK NULLAH (FALL BACK OPTION)

Drawing no.	22936/EN/090	Rev.	-
Drawn	WJAK	Date	NOV 00
Checked		Approved	
Scale	1:5000 @ A1 1:10000 @ A3	Status	

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- LEGEND:-
- 1 Central
 - 2 Kowloon Bay
 - 3 North Point
 - 4 Kwun Tong
 - 5 Lei Yue Mun

Rev	Description	By	Date

Consultants
ARUP Ove Arup & Partners Hong Kong Limited
 Murray Harbour Limited ACILA Limited
 Au Poon & Associates Limited Environmental Management Limited
 Montgomery Watson Hong Kong Limited Rocco Design Limited
 Widdall Limited

Project Title
**AGREEMENT NO. CE 32/99
 COMPREHENSIVE FEASIBILITY STUDY
 FOR THE REVISED SCHEME OF
 SOUTH EAST KOWLOON DEVELOPMENT**

Drawing Title
**LOCATIONS USED FOR ASSESSMENT
 OF CURRENT SPEEDS**

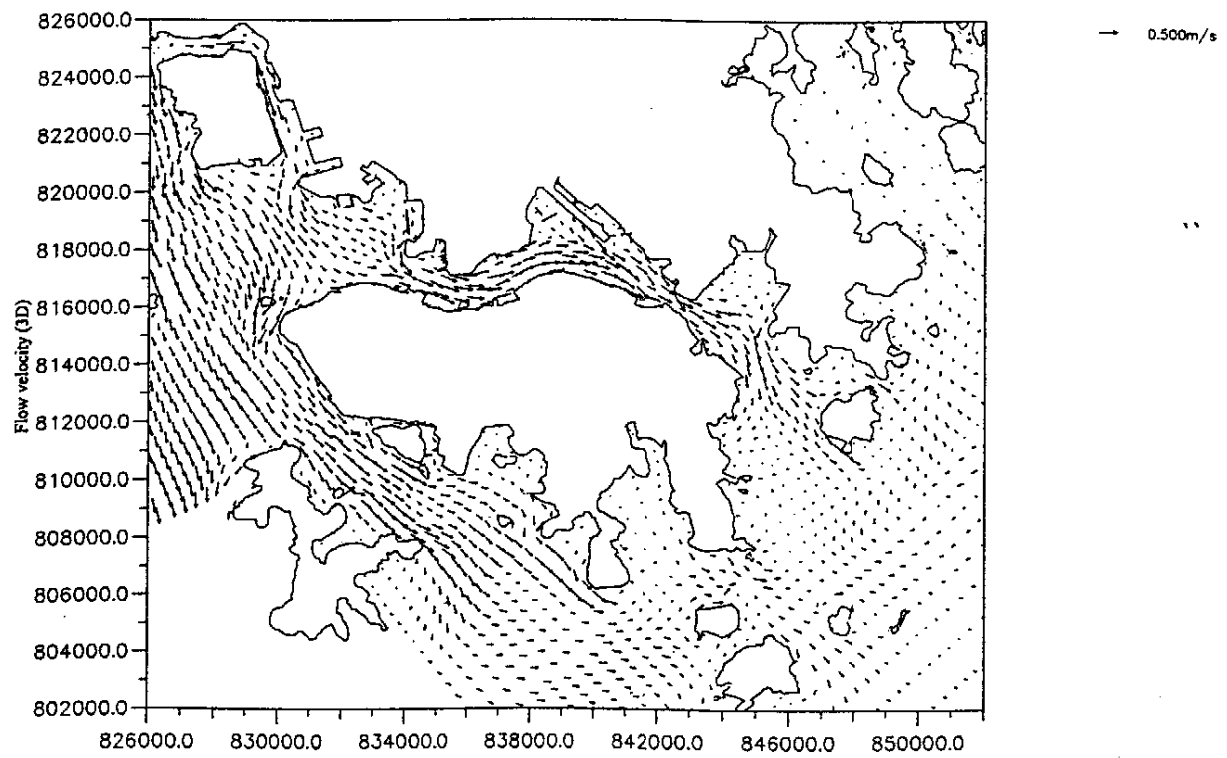
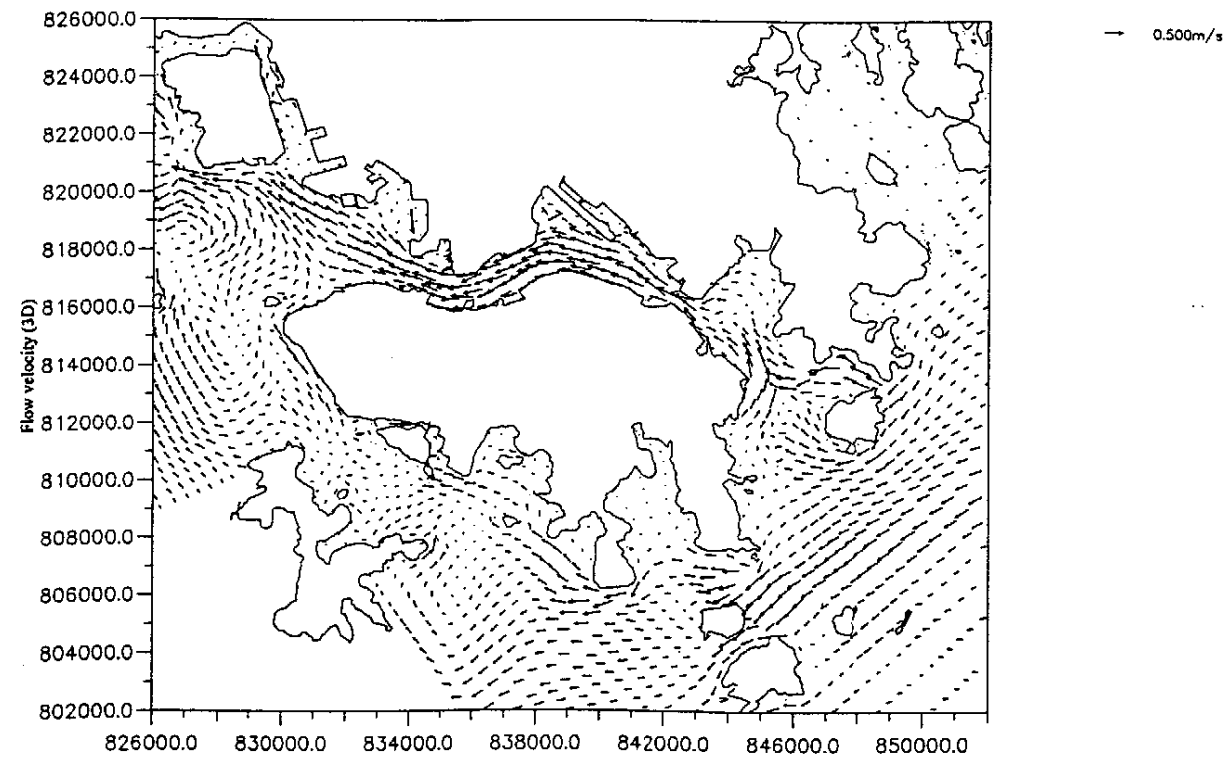
Drawing no.	22936/EN/149	Rev.	-
Drawn	PCL	Date	DEC 00
Checked		Approved	
Scale	1:10000 on A3 size	Status	PRELIMINARY

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 Department, Hong Kong
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 KOWLOON DEVELOPMENT OFFICE



DRAWING NO. 22936/EN/149
 SHEET 1 OF 1

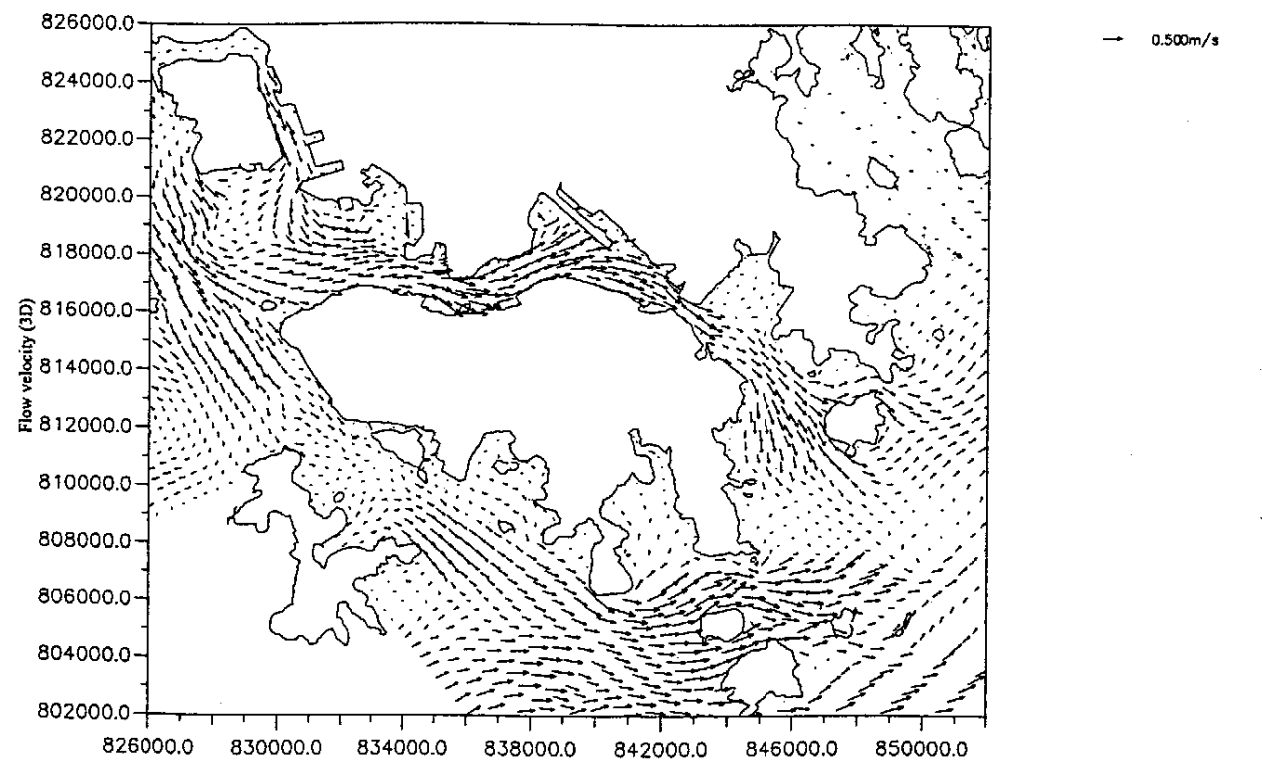
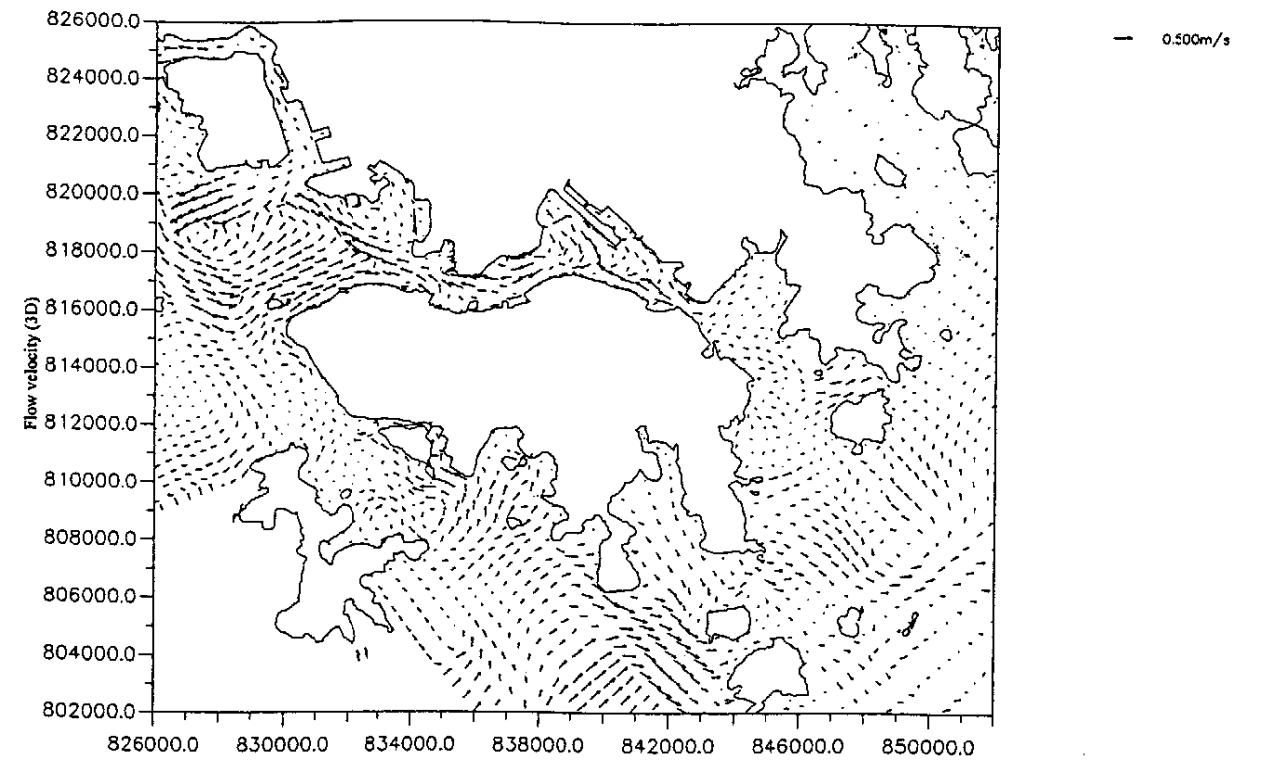


Comprehensive Feasibility Study for Revised Scheme of SEKD
 Flow Patterns in Victoria Harbour
 2002 Dry Season Neap Tide (Upper: Flood; Lower: Ebb)

December 2000

Drawing No. 22936/EN/152

Ove Arup & Partners Hong Kong Ltd

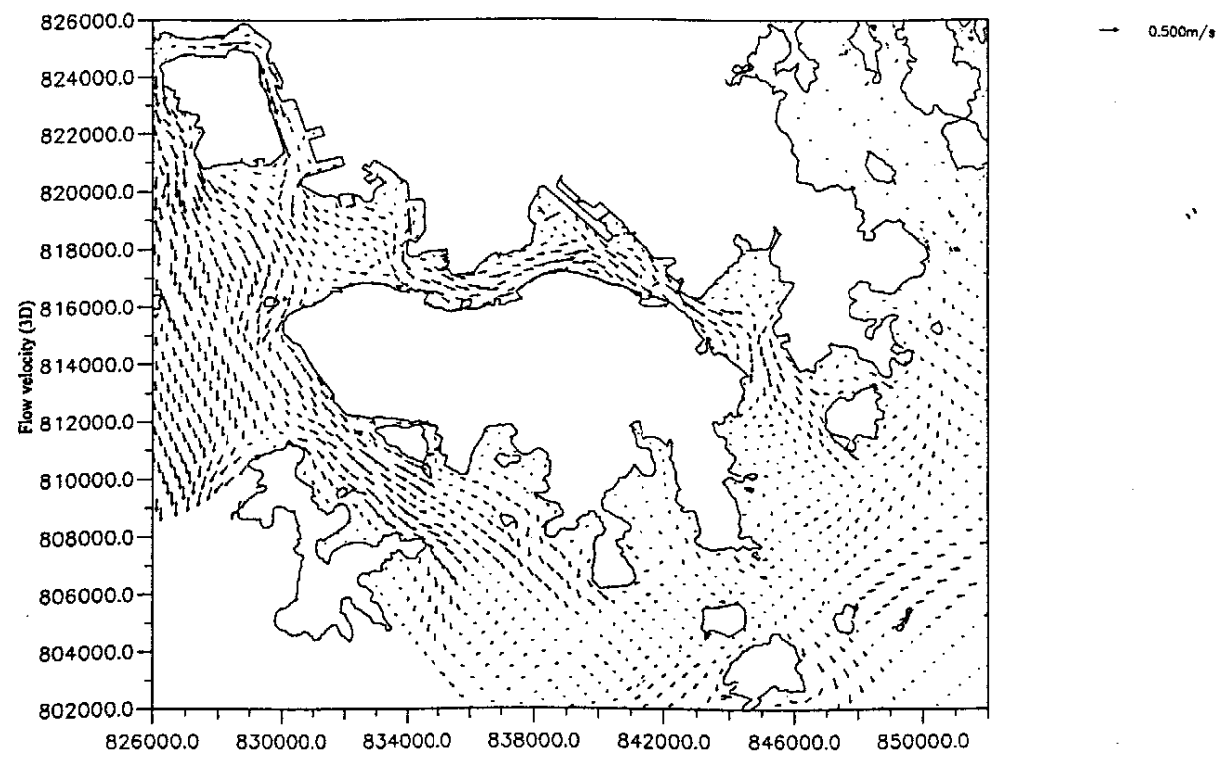
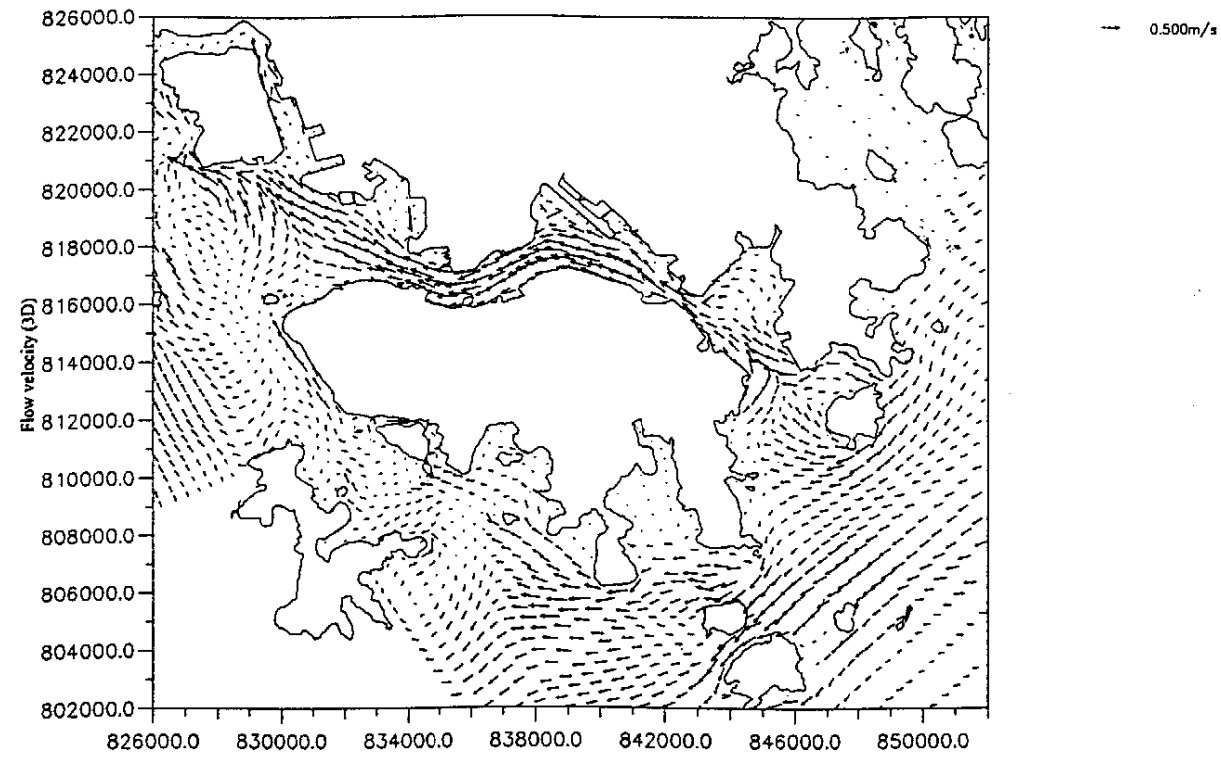


Comprehensive Feasibility Study for Revised Scheme of SEKD
 Flow Patterns in Victoria Harbour
 2002 Wet Season Neap Tide (Upper: Flood; Lower: Ebb)

December 2000

Drawing No. 22936/EN/153

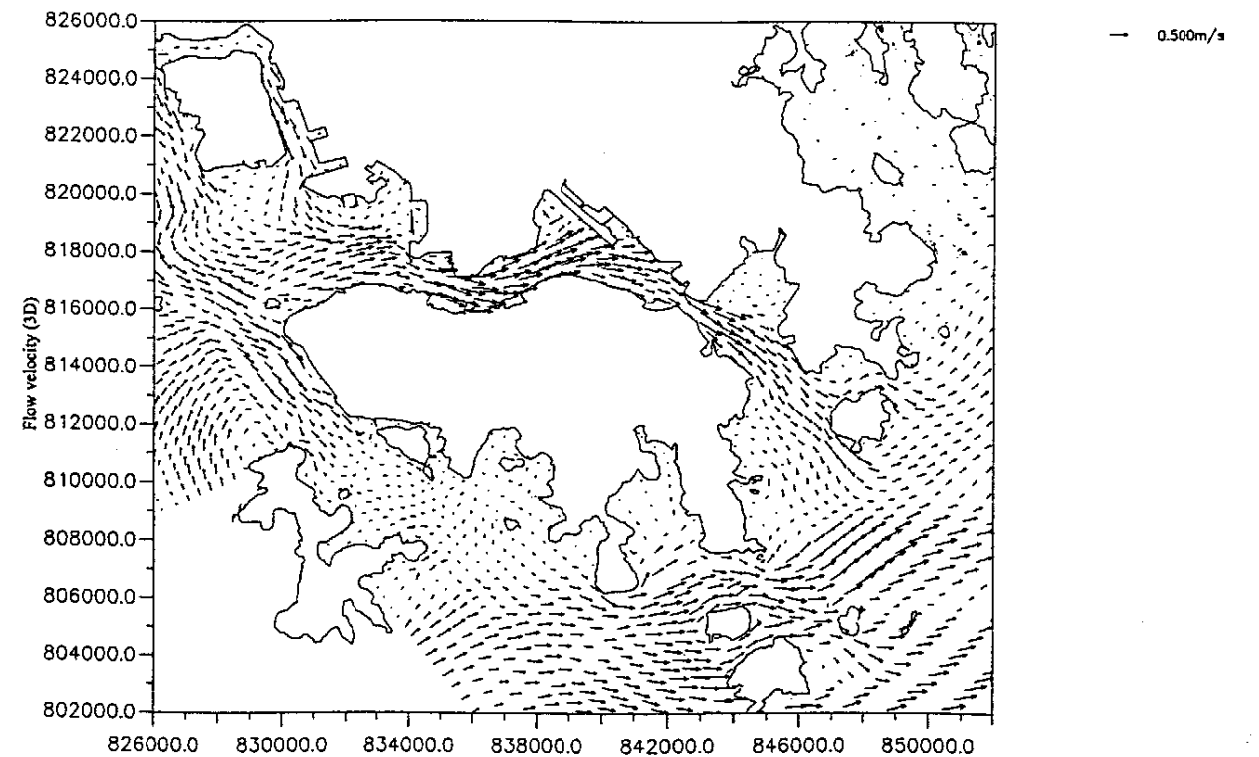
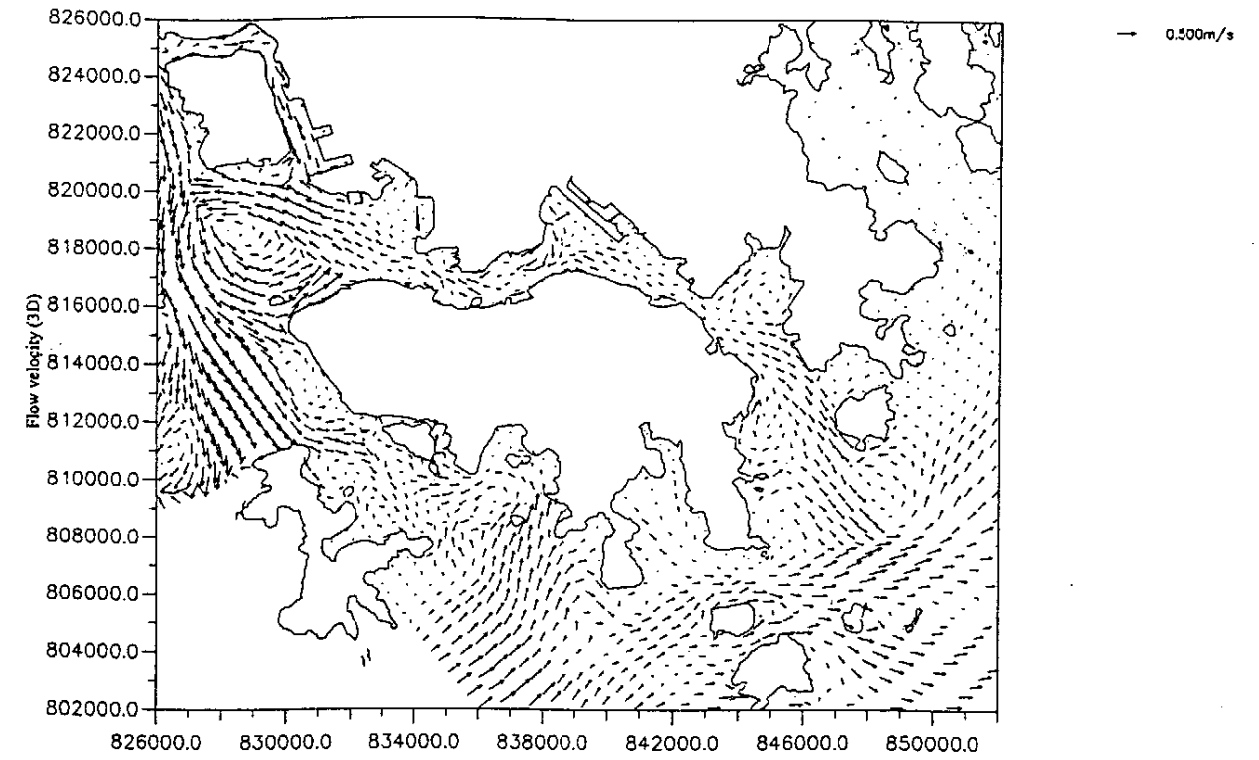
Ove Arup & Partners Hong Kong Ltd



Comprehensive Feasibility Study for Revised Scheme of SEKD
 Flow Patterns in Victoria Harbour
 2003 Dry Season Neap Tide (Upper: Flood; Lower: Ebb)

December 2000
 Drawing No. 22936/EN/160

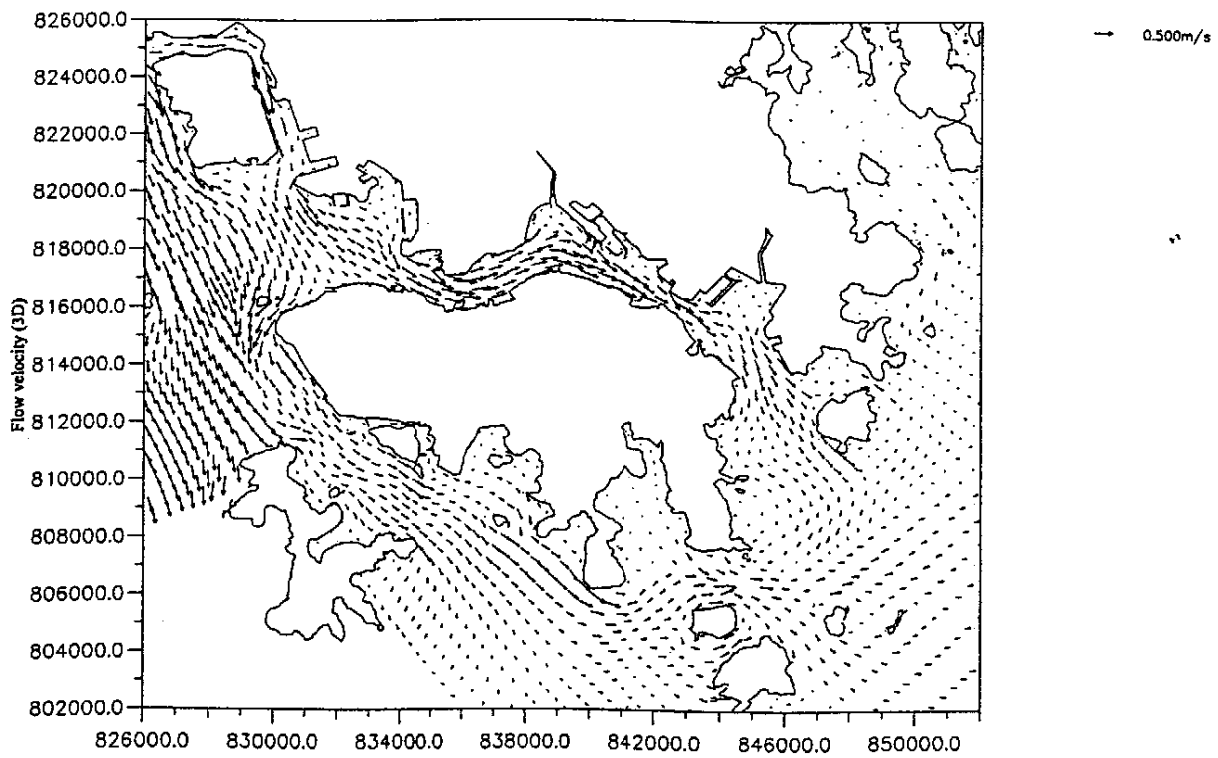
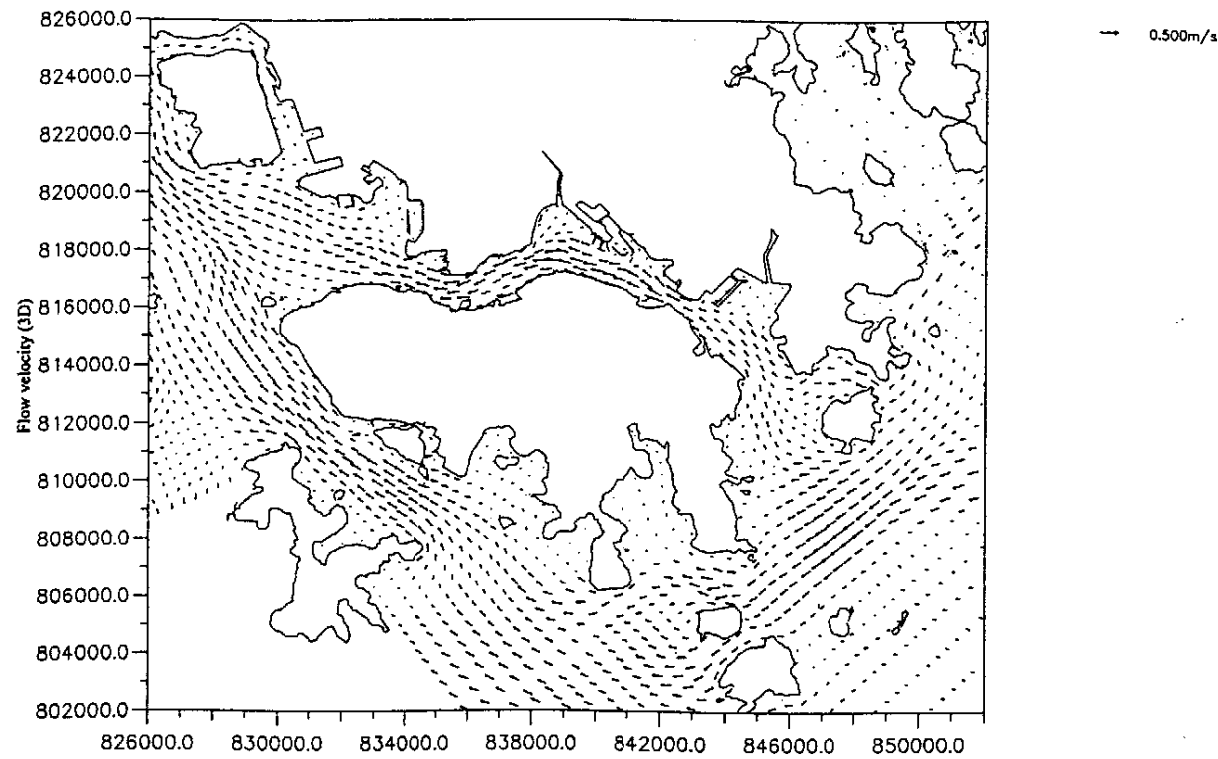
Ove Arup & Partners Hong Kong Ltd



Comprehensive Feasibility Study for Revised Scheme of SEKD
 Flow Patterns in Victoria Harbour
 2003 Wet Season Neap Tide (Upper: Flood; Lower: Ebb)

December 2000
 Drawing No. 22936/EN/161

Ove Arup & Partners Hong Kong Ltd

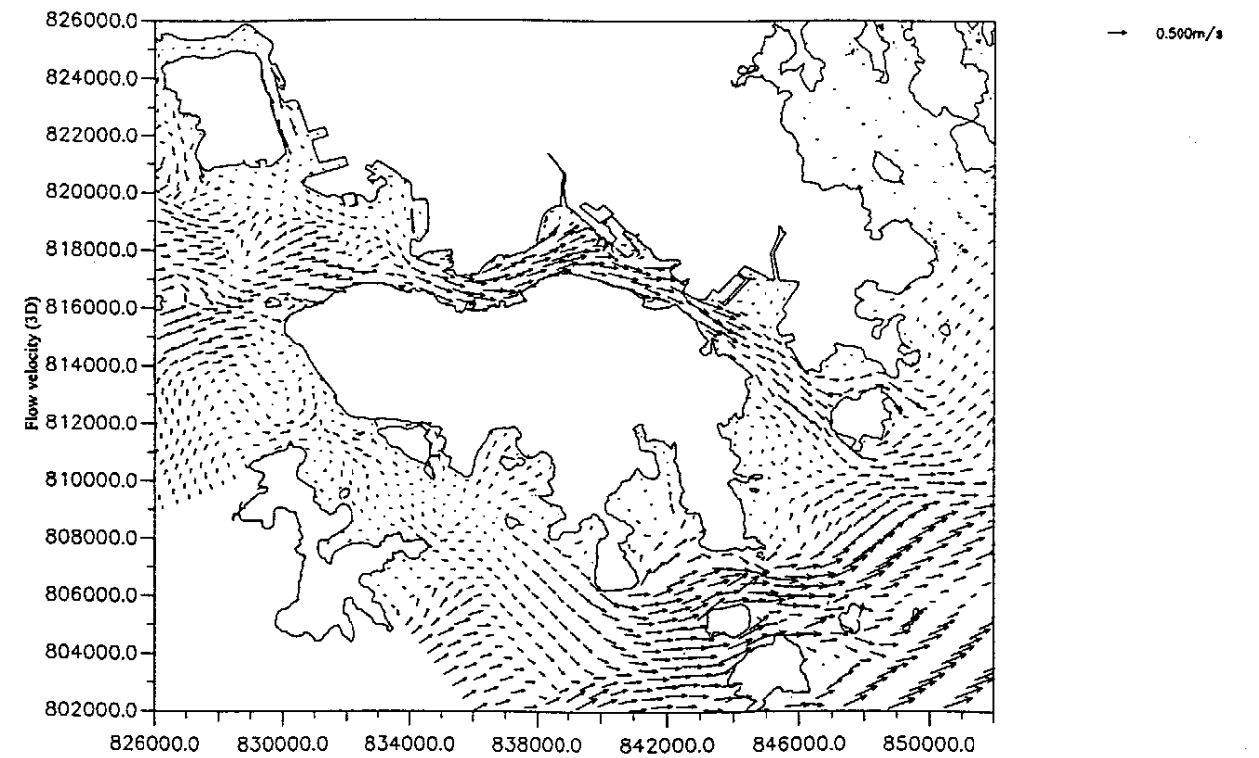
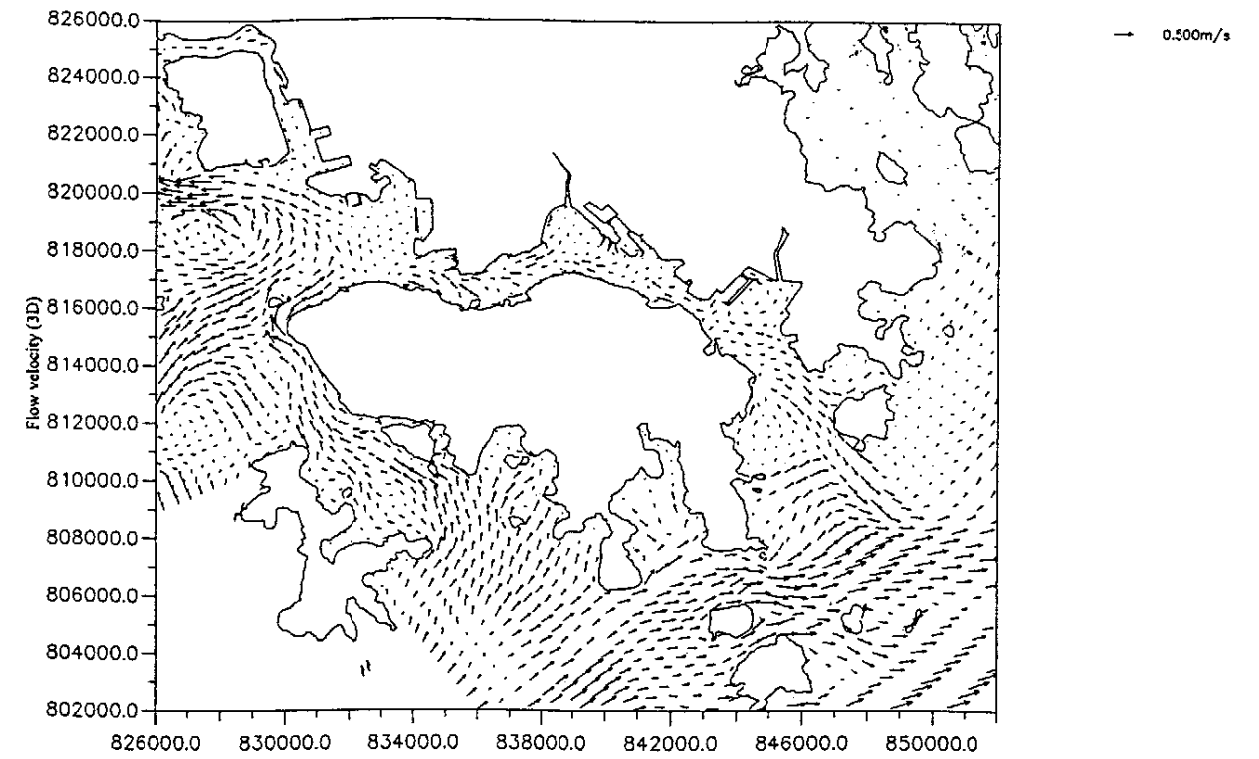


Comprehensive Feasibility Study for Revised Scheme of SEKD
 Flow Patterns in Victoria Harbour
 2016 Dry Season Neap Tide (with SEKD) (Upper: Flood; Lower: Ebb)

Ove Arup & Partners Hong Kong Ltd

December 2000

Drawing No. 22936/EN/168

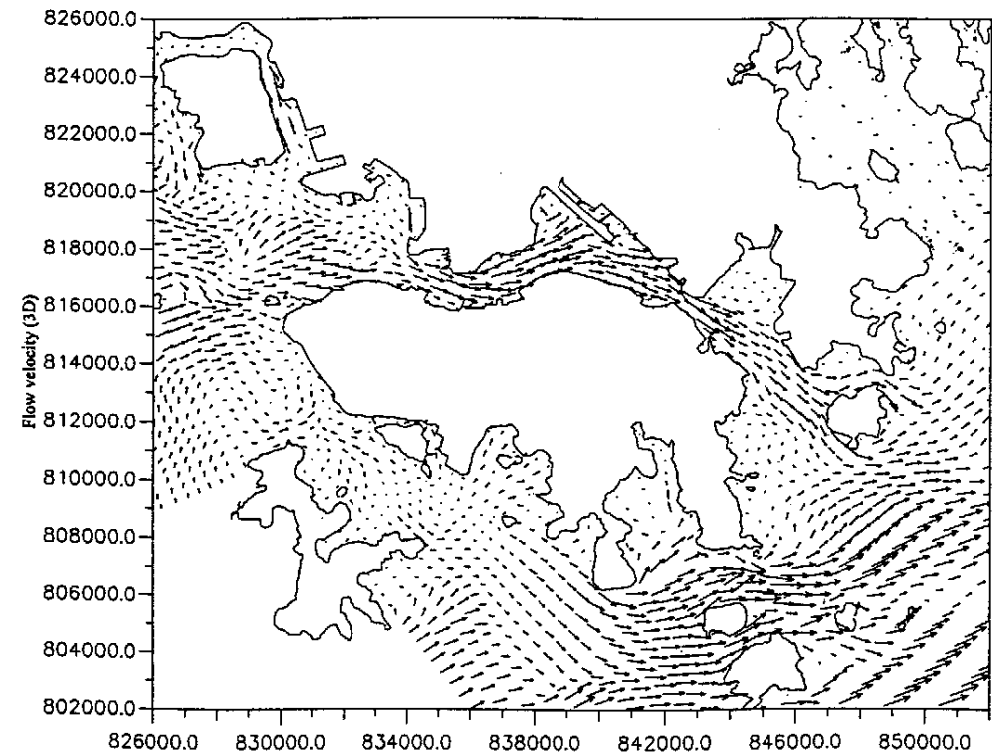
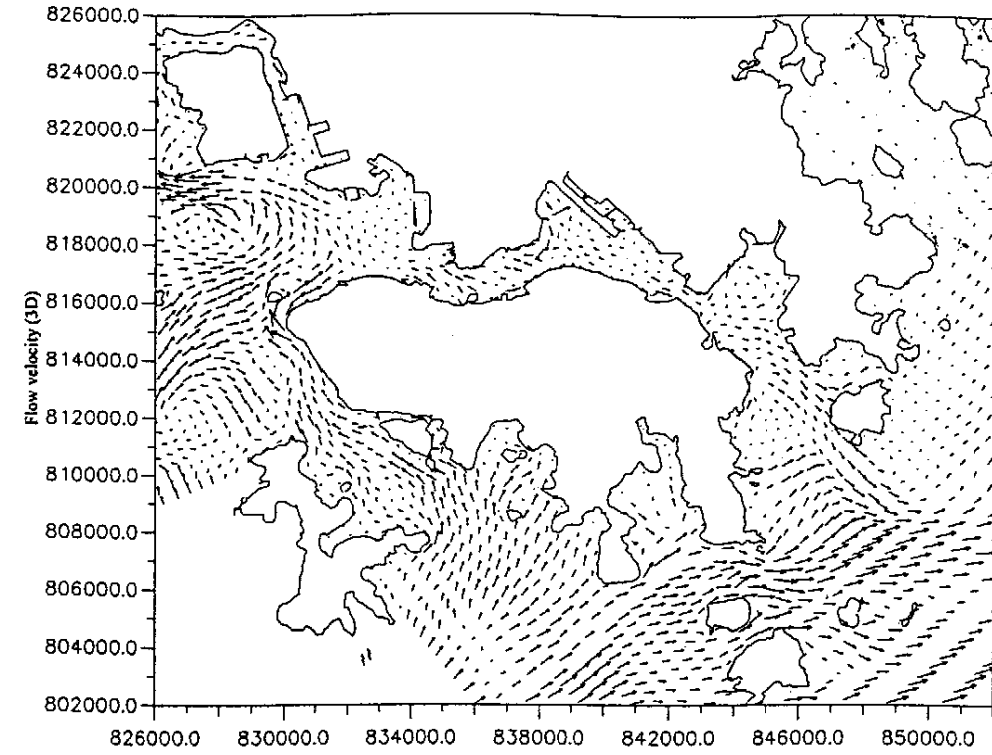
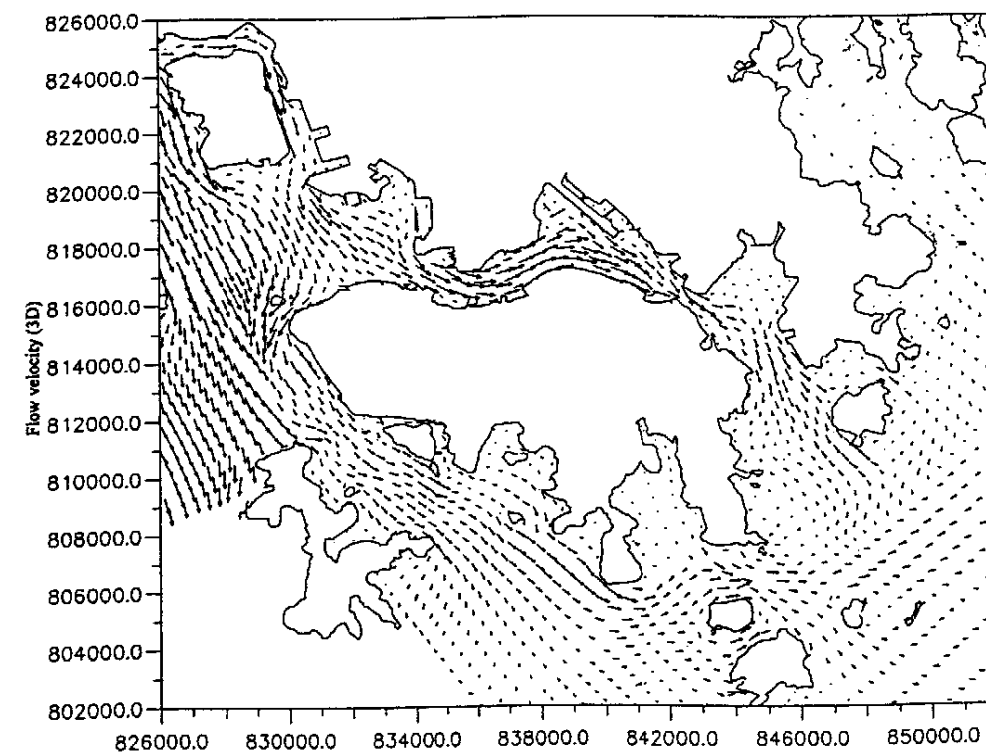
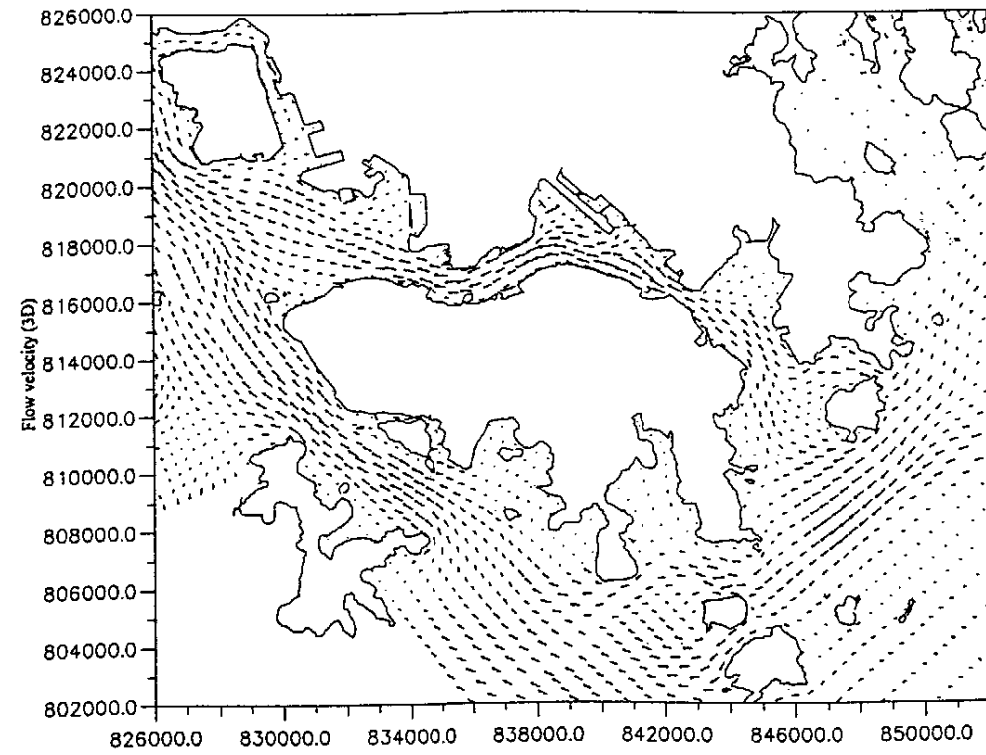


Comprehensive Feasibility Study for Revised Scheme of SEKD
 Flow Patterns in Victoria Harbour
 2016 Wet Season Neap Tide (with SEKD) (Upper: Flood; Lower: Ebb)

Ove Arup & Partners Hong Kong Ltd

December 2000

Drawing No. 22936/EN/169



Comprehensive Feasibility Study for Revised Scheme of SEKD Flow Patterns in Victoria Harbour 2016 Dry Season Neap Tide (without SEKD) (Upper: Flood; Lower: Ebb)	December 2000	
	Drawing No. 22936/EN/176	
Ove Arup & Partners Hong Kong Ltd		

Comprehensive Feasibility Study for Revised Scheme of SEKD Flow Patterns in Victoria Harbour 2016 Wet Season Neap Tide (without SEKD) (Upper: Flood; Lower: Ebb)	December 2000	
	Drawing No. 22936/EN/177	
Ove Arup & Partners Hong Kong Ltd		



LEGEND:

- 1 - Pak Shek Kok & Ma Liu Shui Reclamation
- 2 - Tseung Kwan O Reclamation
- 3 - Jordan Road Reclamation Phase III
- 4 - Lamma Island Reclamation (Yung Shue Wan Development Engineering Works, Phase 1)
- 5 - Container terminal No. 9
- 6 - Penny's bay Stage 1 Reclamation
- 7 - Peggy Chau Reclamation at Yuen Ling Tsai & near Sea Crest Villa
- 8 - North Lantau Reclamation
- 9 - Tuen Mun Area 38 Reclamation
- 10 - Central & Wan Chai Reclamation

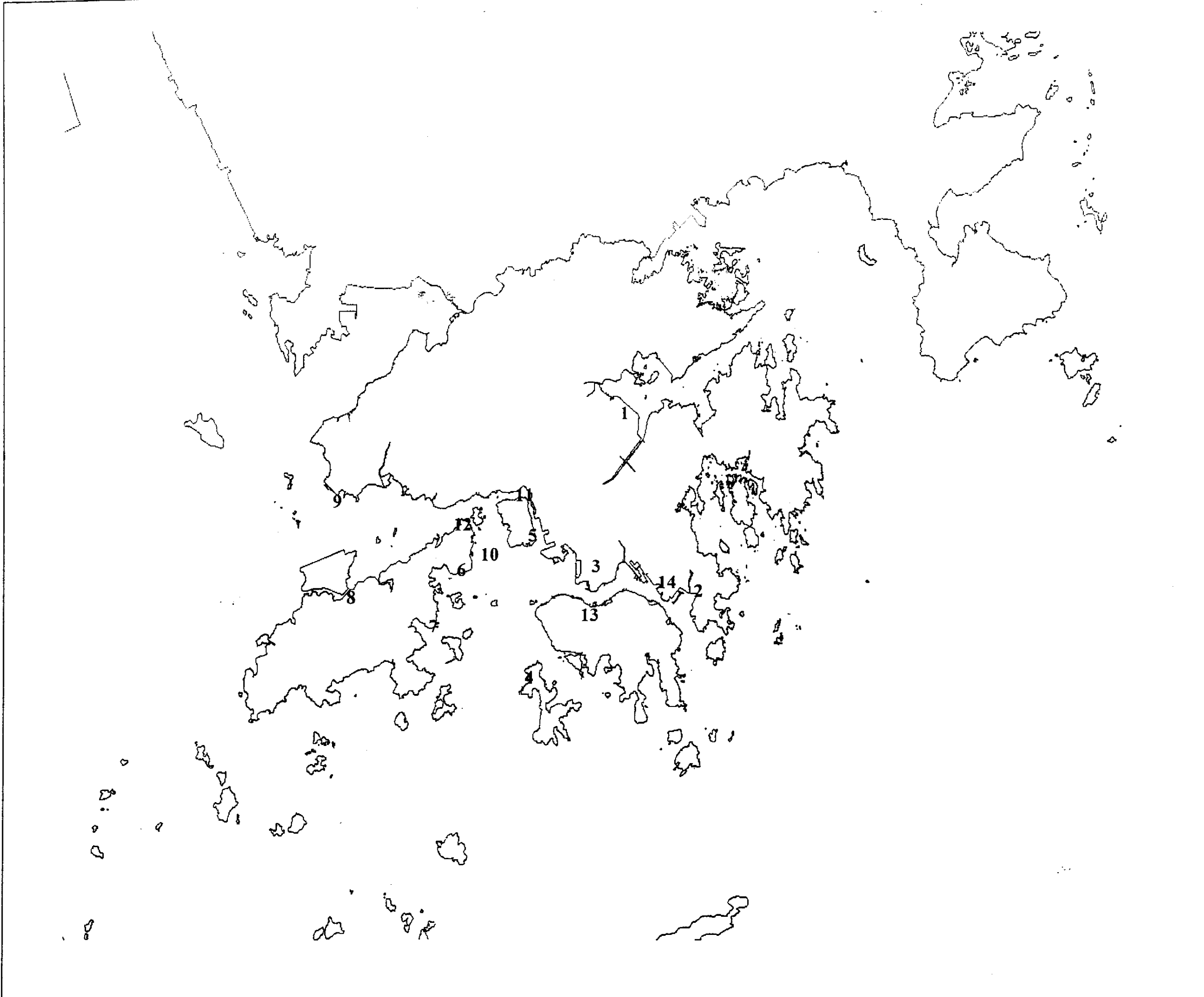
Consultants
ARUP Ove Arup & Partners Hong Kong Limited
 Murray Heston Limited ACLA Limited
 Au Pookoi Consultants Limited Environmental Management Limited
 Montgomery Watson Hong Kong Limited Rocca Design Limited
 Wilmet Limited

Project title
AGREEMENT NO. CE32/99
COMPREHENSIVE FEASIBILITY STUDY
FOR THE REVISED SCHEME OF SOUTH
EAST KOWLOON DEVELOPMENT

Drawing title
2002 Coastline Configuration

Drawing no. **22936/EN/187**

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 Territory Development
 Department, Hong Kong
 九龍拓展處
 KOWLOON DEVELOPMENT OFFICE



LEGEND

- 1 - Pak Shek Kok & Ma Liu Shui Reclamation
- 2 - Tseung Kwan O Reclamation
- 3 - Jordan Road Reclamation Phase III
- 4 - Lamma Island Reclamation (Yung Shue Wan Development Engineering Works, Phase II)
- 5 - Container Terminal No. 9
- 6 - Penny's Bay Stage I & II Reclamation
- 7 - Peggy Chau Reclamation
- 8 - North Lantau Reclamation
- 9 - Tuen Mun Area 38 Reclamation
- 10 - Chok Ko Wan Link Road Reclamation
- 11 - North Tsing Yi DOS and GIC Facilities Reclamation
- 12 - Yam O Reclamation
- 13 - Central & Wan Chai Reclamation
- 14 - Yau Tong Reclamation

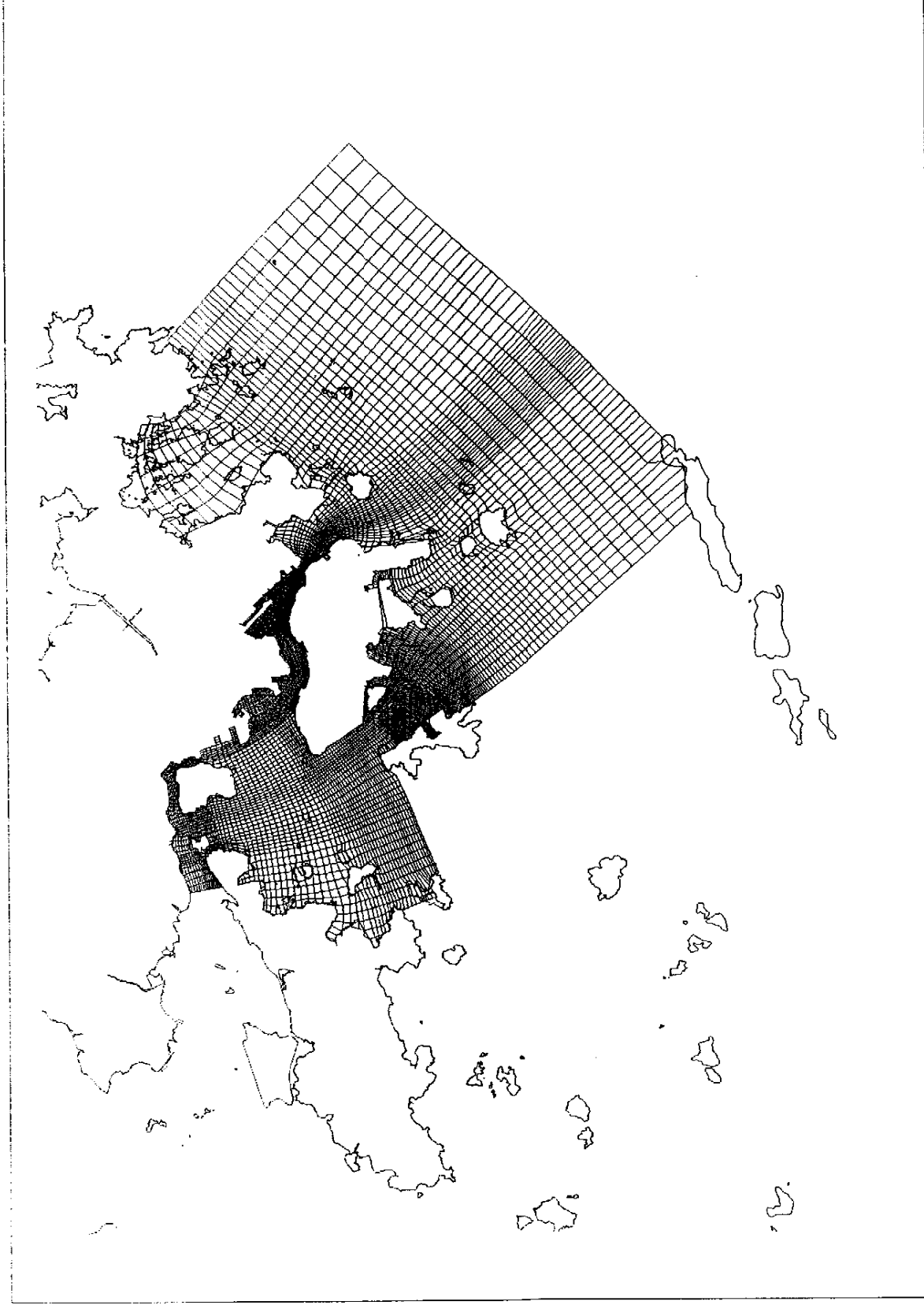
Contractors
ARUP Ove Arup & Partners Hong Kong Limited
 Murrey Harcourt Limited AQA Limited
 An PricewaterhouseCoopers Limited Environmental Management Limited
 Montgomery Watson Hong Kong Limited Rocco Design Limited
 Wilford Limited

Project title
 AGREEMENT NO. CE32/99
 COMPREHENSIVE FEASIBILITY STUDY FOR
 THE REVISED SCHEME OF SOUTH EAST
 KOWLOON DEVELOPMENT

Drawing title
2016 Coastline Configuration

Drawing no. **22936/EN/188**

 拓展署
 Territory Development
 Department, Hong Kong
 九龍拓展處
 KOWLOON DEVELOPMENT OFFICE

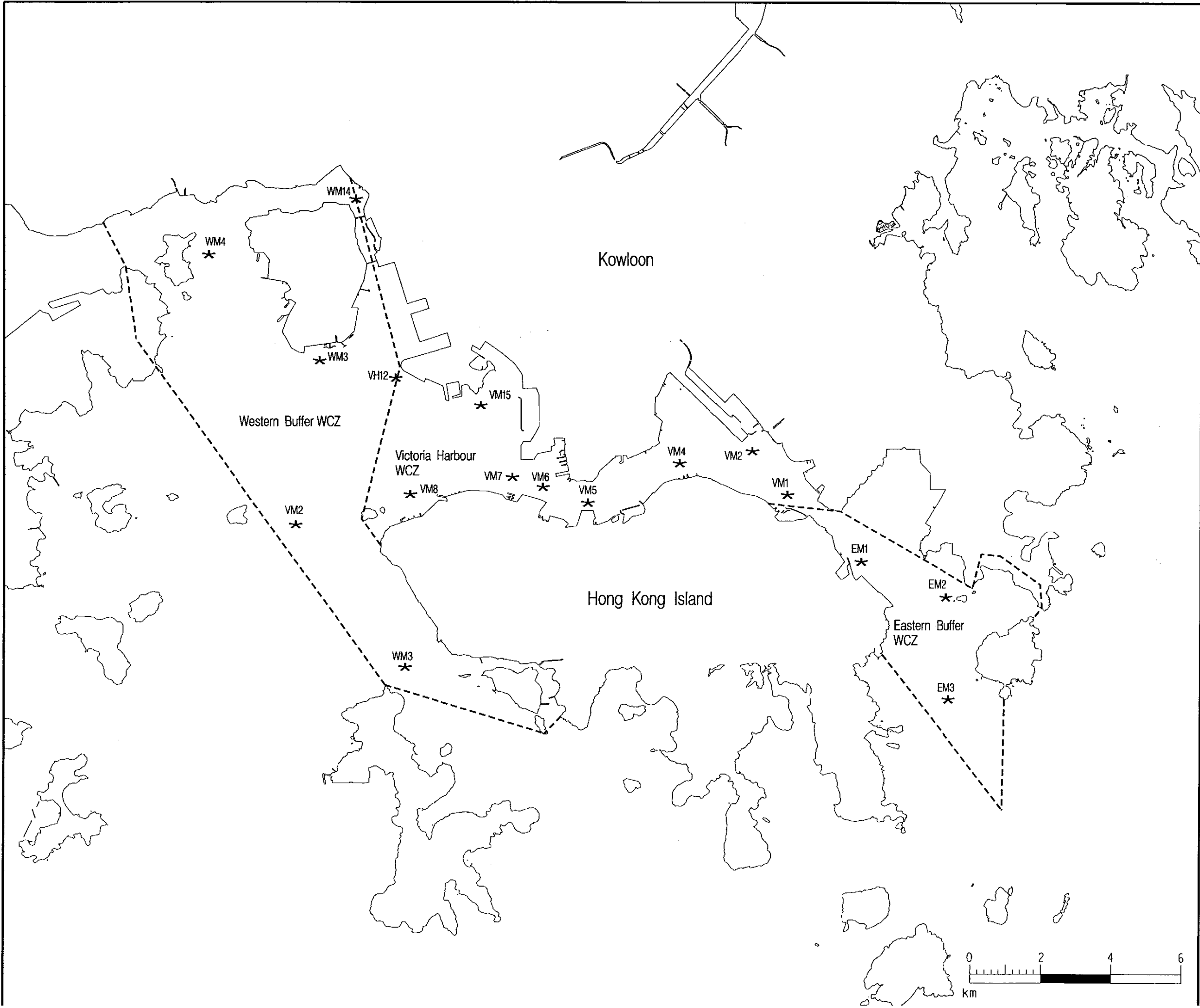


Comprehensive Feasibility Study for Revised Scheme of SEKD
Grid Layout for the Detailed Model

October 2000

Drawing No. 22936/EN/189

Ove Arup & Partners Hong Kong Ltd.



- LEGEND:-
- WM1 Western Buffer Water Control Zone Sampling Station
 - VM1 Victoria Harbour Water Control Zone Sampling Station
 - EM1 Eastern Buffer Water Control Zone Sampling Station

A	Draft	PCL	JULY 00
Rev	Description	By	Date

Consultants
ARUP Ove Arup & Partners Hong Kong Limited
 Murray Harrison Limited ACLA Limited
 Au Poonford Consultants Limited Environmental Management Limited
 Montgomery Watson Hong Kong Limited Pocco Design Limited
 Wicksell Limited

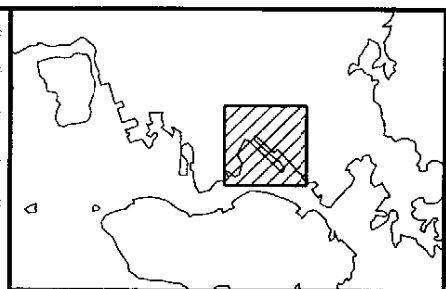
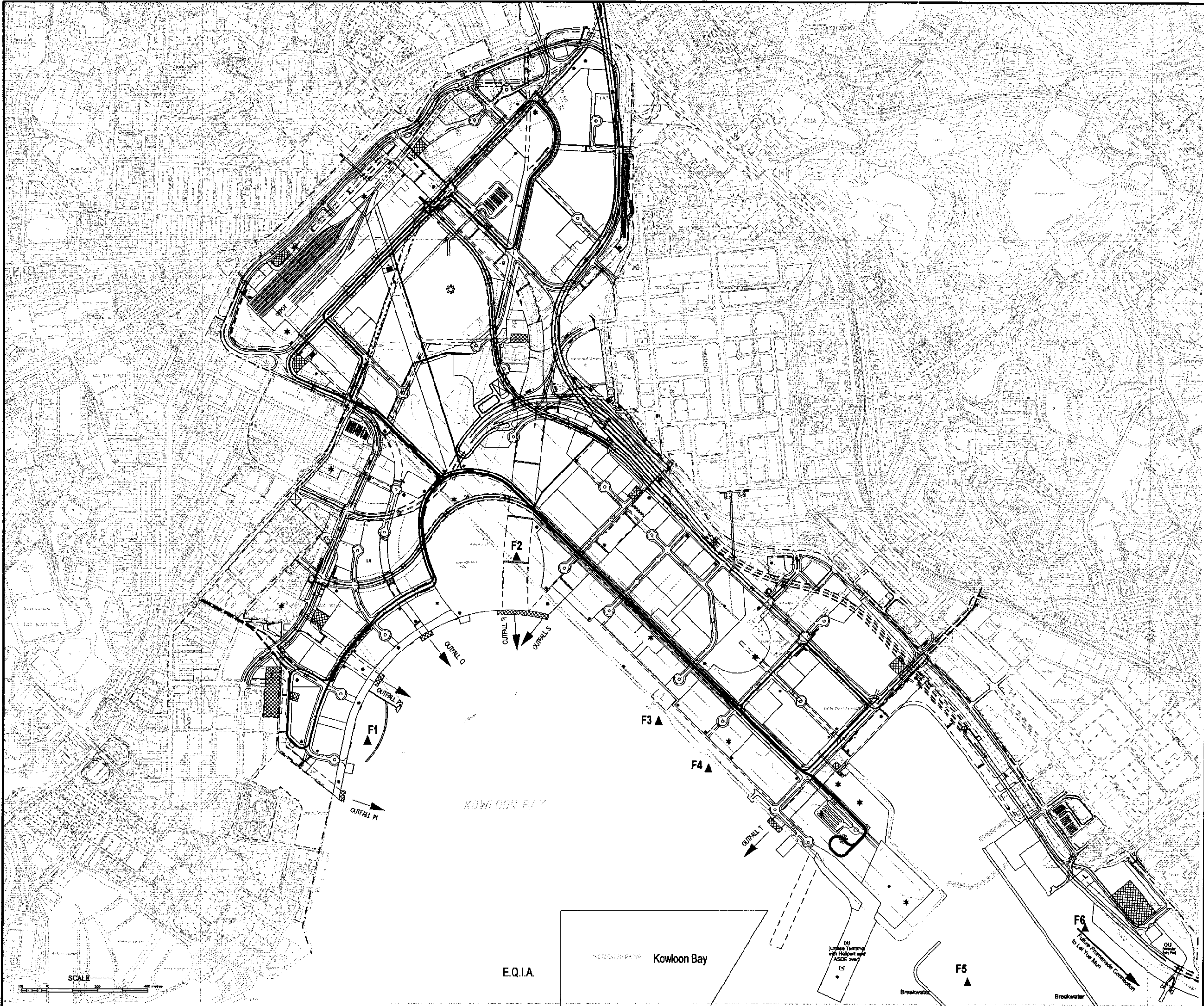
Project title
**AGREEMENT NO. CE 32/99
 COMPREHENSIVE FEASIBILITY STUDY
 FOR THE REVISED SCHEME OF
 SOUTH EAST KOWLOON DEVELOPMENT**

Drawing title
EPD'S MARINE WATER SAMPLING STATIONS

Drawing no.	22936/EN/190	Rev.	A
Drawn	PCL	Date	FEB. 01
Checked		Approved	
Scale	1:100000 on A3 size	Status	PRELIMINARY

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 KOWLOON DEVELOPMENT OFFICE



- LEGEND**
- F1 ▲ Marina
 - F2 ▲ Extended section of Kai Tak Nullah
 - F3 ▲ Cooling water intake
 - F4 ▲ Cooling water discharge
 - F5 ▲ New KTTS
 - F6 ▲ Outlet of Tsui Ping Nullah

Rev	Description	By	Date

Consultants

ARUP	Ove Arup & Partners Hong Kong Limited
Murray Harrison Limited	ACLA Limited
Ai Postal Consultants Limited	Environmental Management Limited
Montgomery Watson Hong Kong Limited	Rocca Design Limited
Wickell Limited	

Project title
**AGREEMENT NO. CE 32/99
 COMPREHENSIVE FEASIBILITY STUDY
 FOR THE REVISED SCHEME OF
 SOUTH EAST KOWLOON DEVELOPMENT**

Drawing title
**NEW SENSITIVE RECEIVERS &
 INDICATOR POINTS AFTER
 COMPLETION OF THE SEKD**

Drawing no.	22936/EN/191	Rev.	A
Drawn	Date	Checked	Approved
Scale	As shown	Status	PRELIMINARY

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 Territory Development
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 KOWLOON DEVELOPMENT OFFICE

Printer by : BUSER'S #DATE#
 Volume : #FILE#



E.Q.I.A.

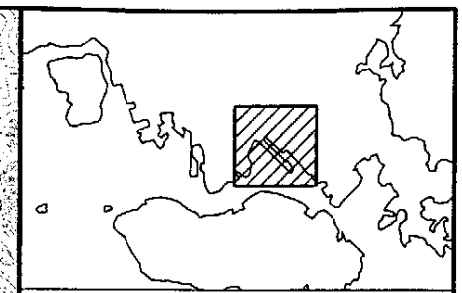
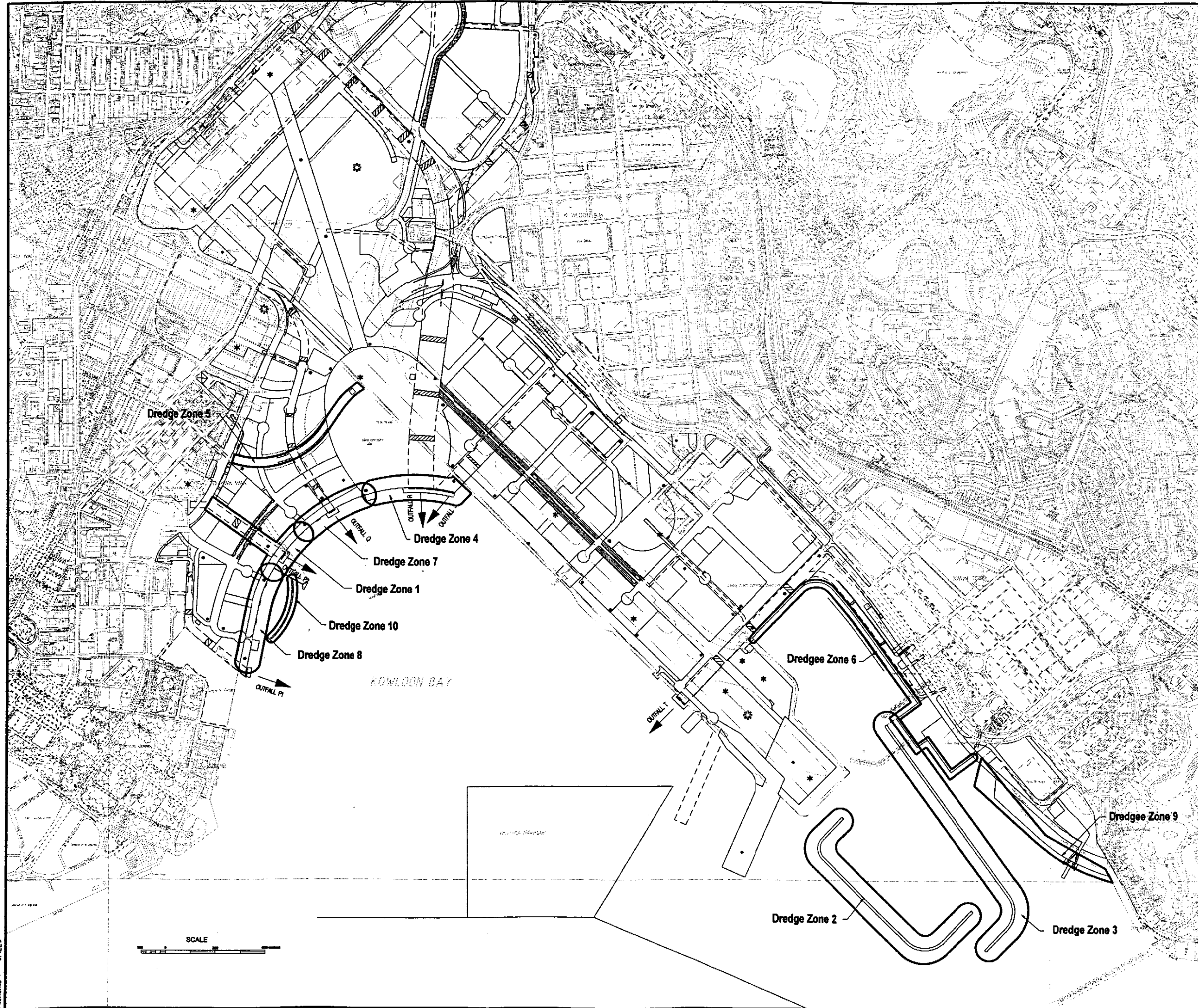
Kowloon Bay

Breakwater

Breakwater

OU
 (Cross Terminal
 with Island and
 ASDE over)

F6
 Future Transport Corridor
 to Lei Yue Mun



LEGEND

Dredging for Reclamation	Zoning
Hoi Sham (Earth Bund)	Dredge Zone 1
Western Arm of New Typhoon Shelter	Dredge Zone 2
Eastern Arm of New Typhoon Shelter	Dredge Zone 3
Hoi Sham	Dredge Zone 4
Hoi Sham (D4 Tunnel)	Dredge Zone 5
Kwun Tong Typhoon Shelter	Dredge Zone 6
Hoi Sham	Dredge Zone 7
Hoi Sham	Dredge Zone 8
Cha Kwo Ling	Dredge Zone 9
Marina	Dredge Zone 10

Rev	Description	By	Date
B			Mar..01
A			

Consultants
ARUP One Arup & Partners Hong Kong Limited
 Murray Hillier Limited
 Au Pford Consultants Limited
 Montgomery Watson Hong Kong Limited
 Wilmot Limited
 ACLA Limited
 Environmental Management Limited
 Rocca Design Limited

Project Title
**AGREEMENT NO. CE 32/99
 COMPREHENSIVE FEASIBILITY STUDY
 FOR THE REVISED SCHEME OF
 SOUTH EAST KOWLOON DEVELOPMENT**

Drawing Title
DREDGING PLAN OF THE SEKD

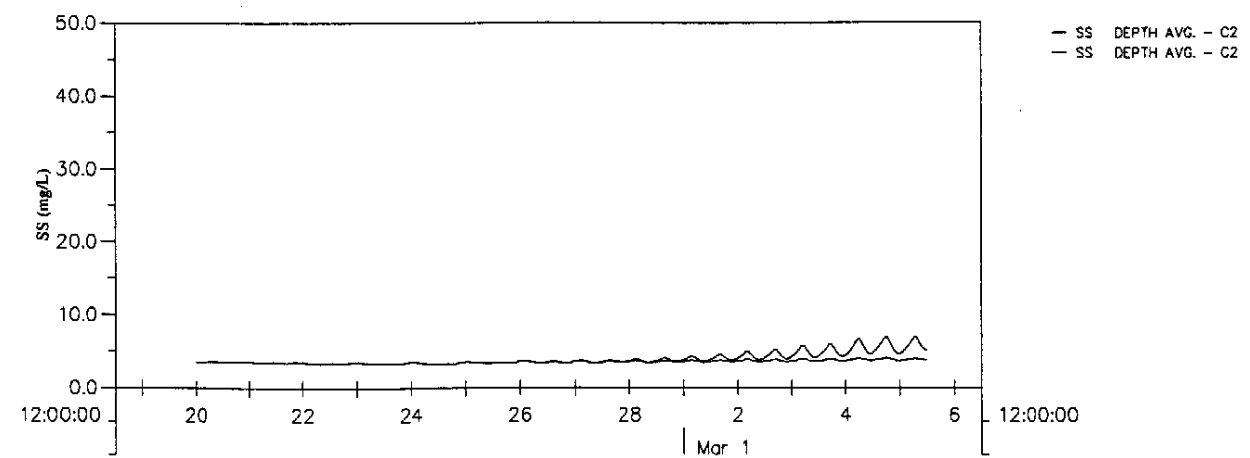
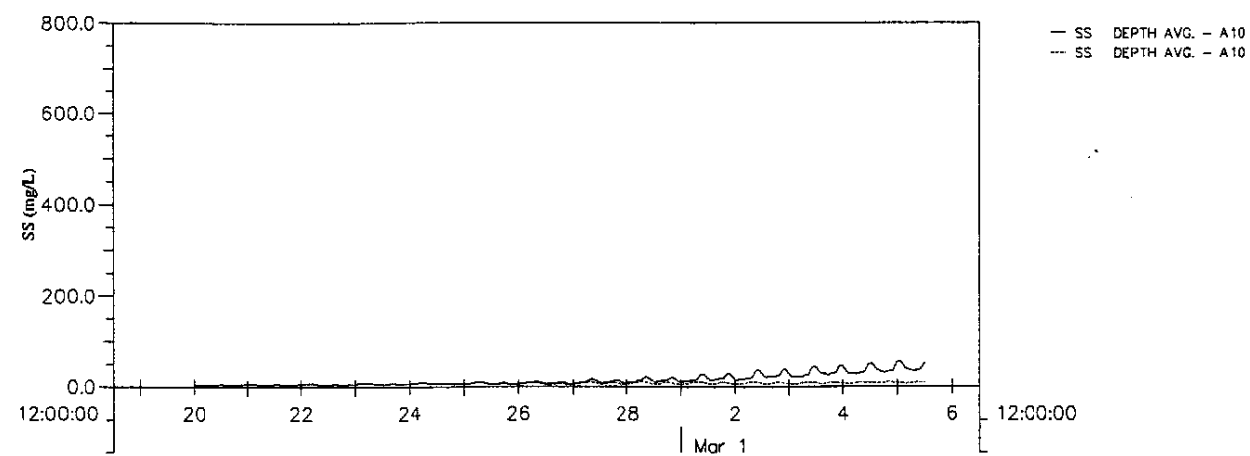
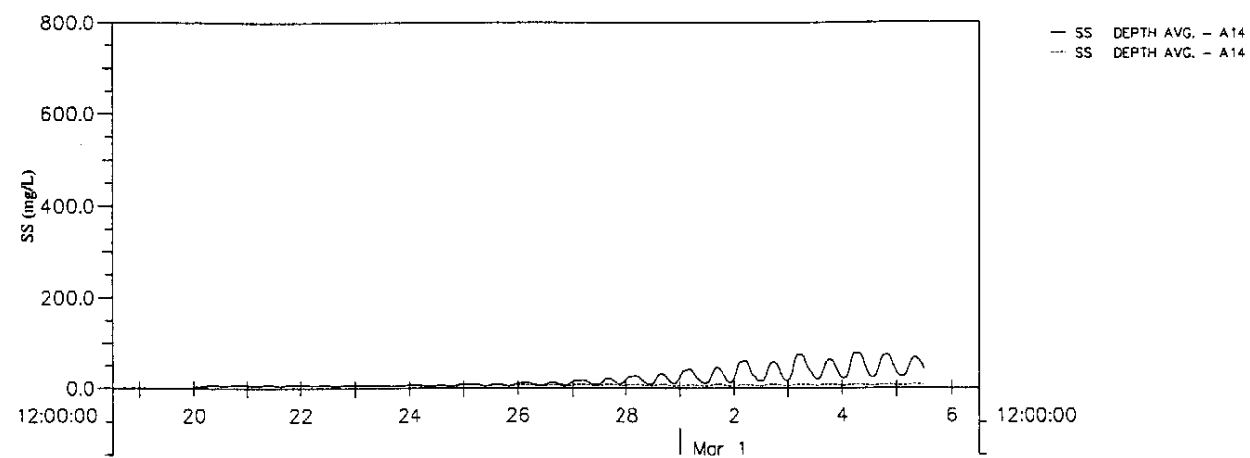
Drawing no.	22936/EN/192	Rev.	B
Drawn	Date	Checked	Approved
Scale	As shown	Status	PRELIMINARY

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 KOWLOON DEVELOPMENT OFFICE

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 Filename : FILE3
 25 MAR 2001

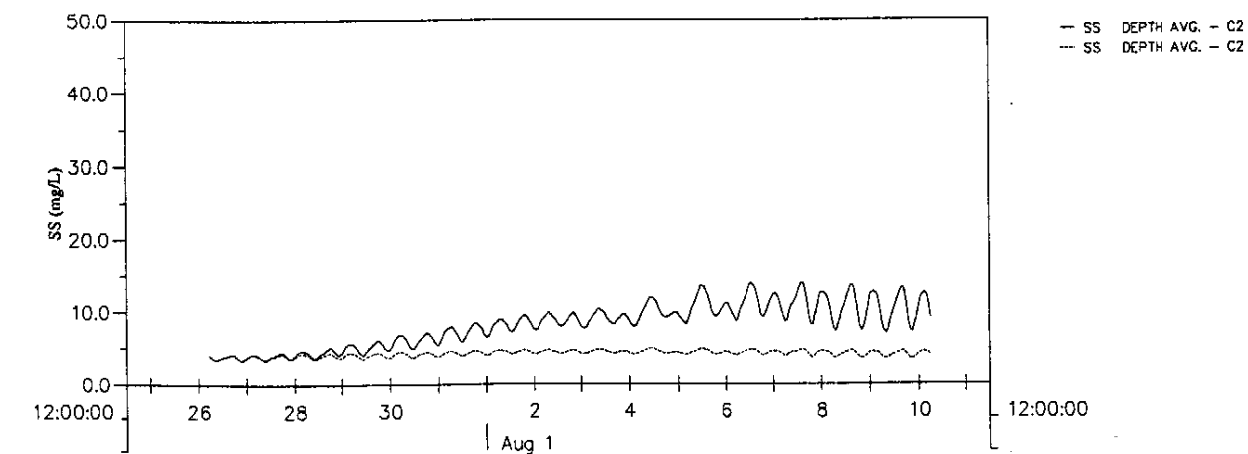
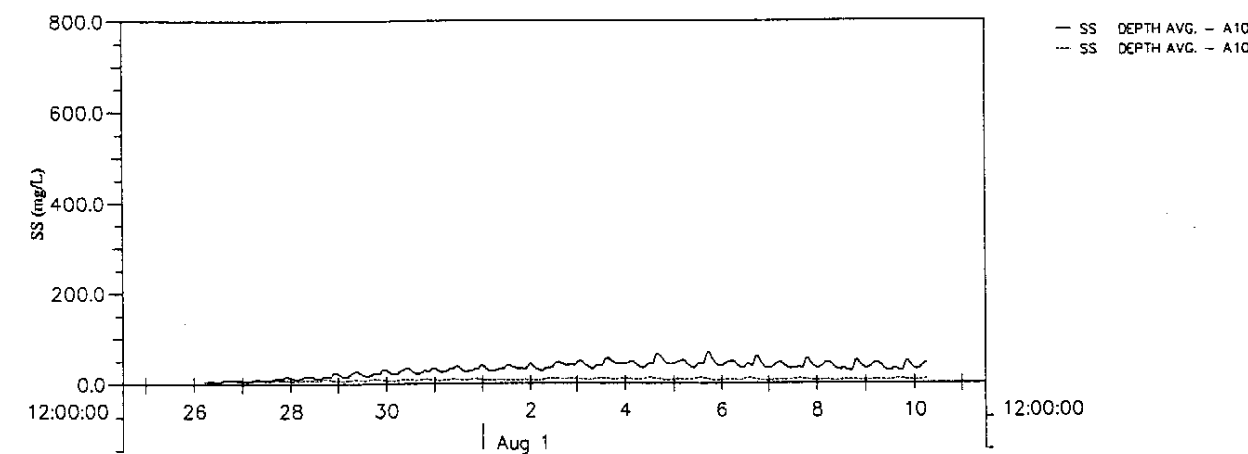
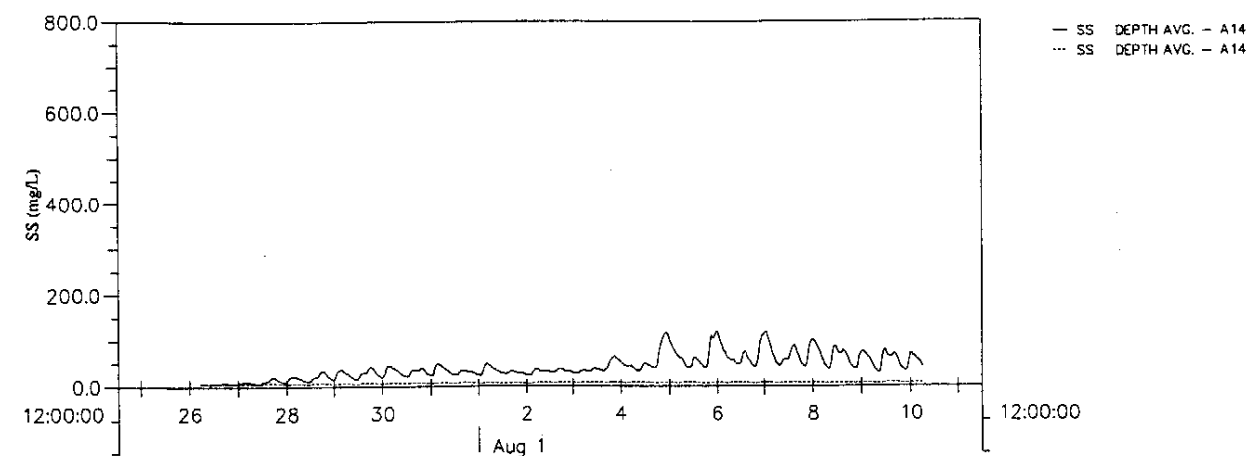




Time Series Plot for Depth-averaged SS
 Scenario 1 - Dry Season; Solid= No Mitigation; Dotted= Mitigated
 Cha Kwo Ling (Upper); Tai Wan (Middle); Tung Lung Chau (Lower)

May 2001
 Drawing No. 22936/EN/212

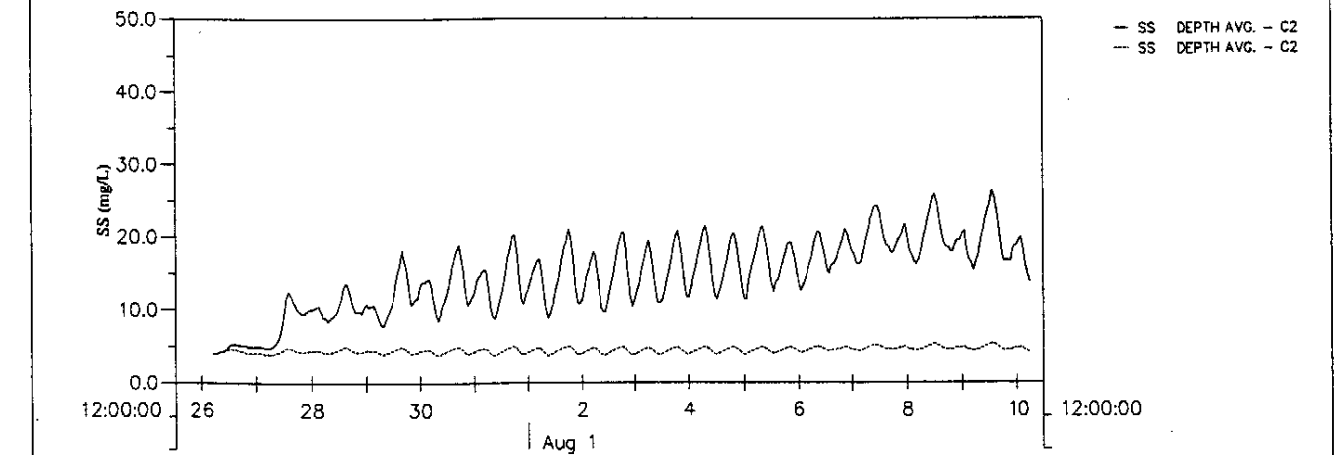
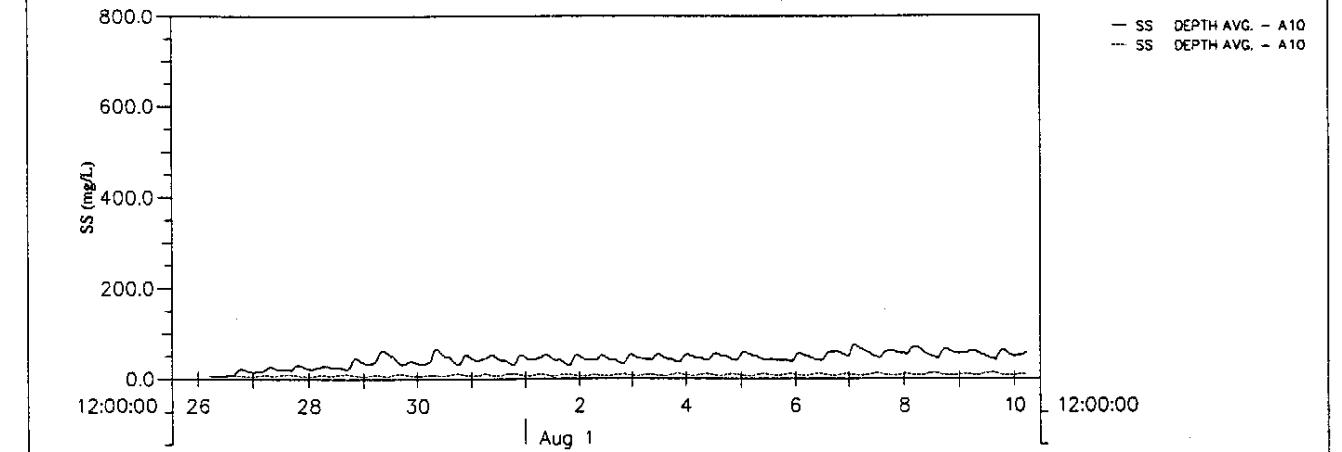
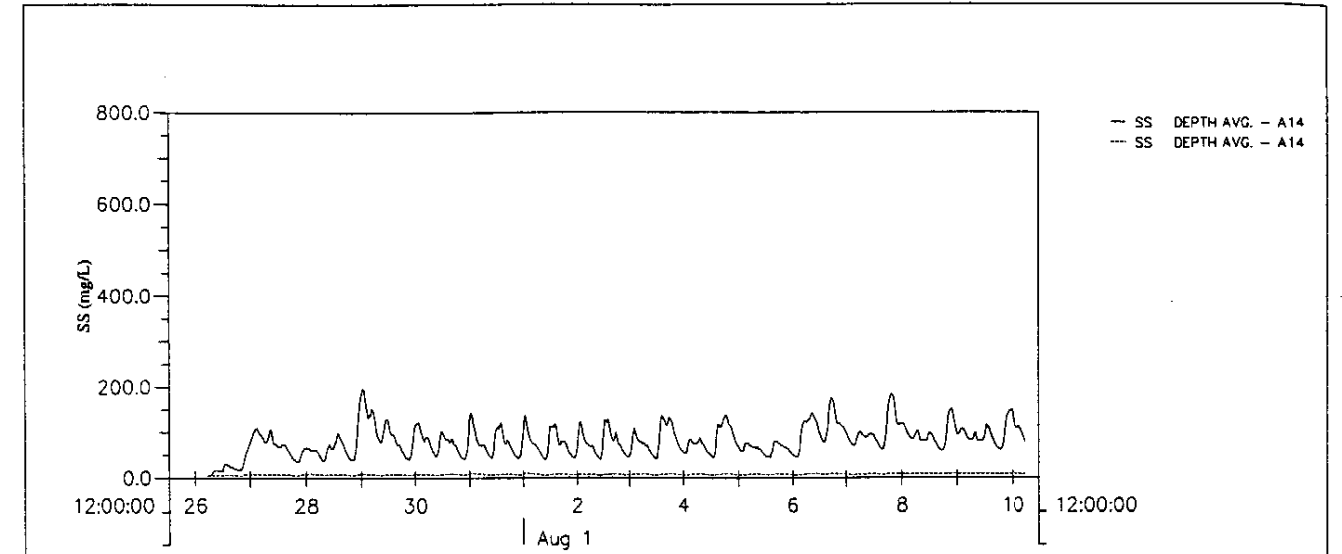
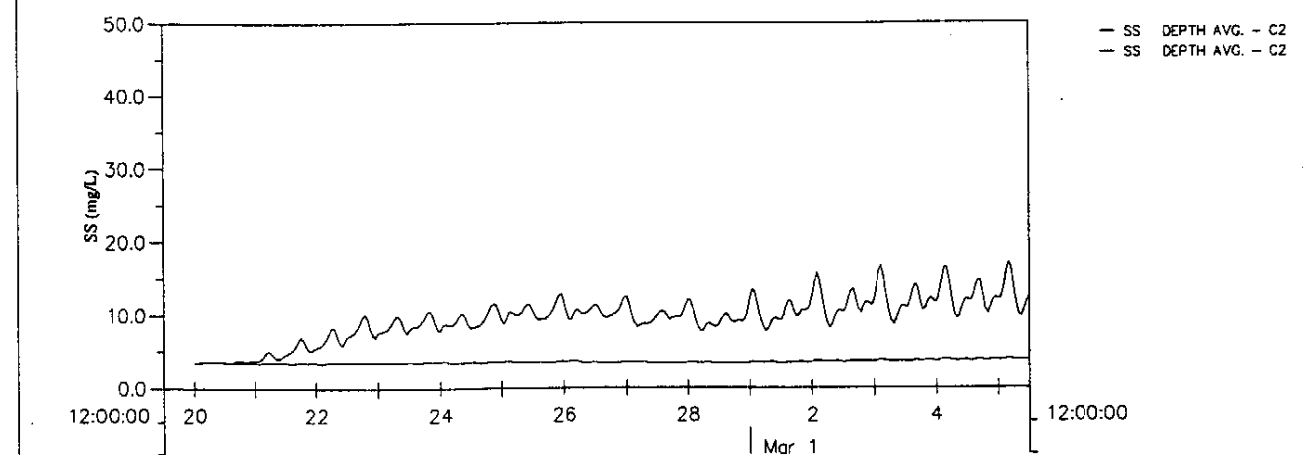
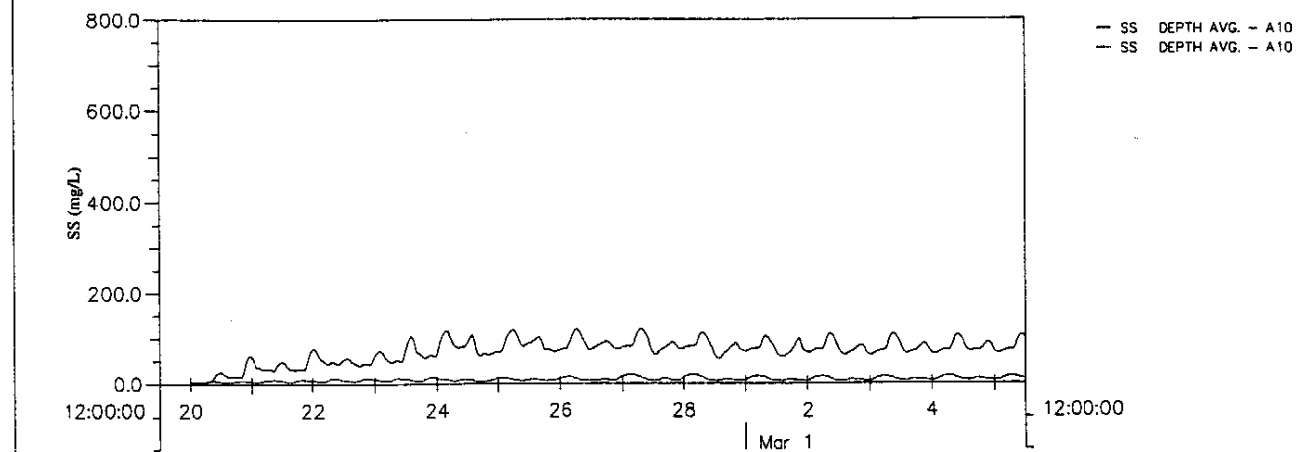
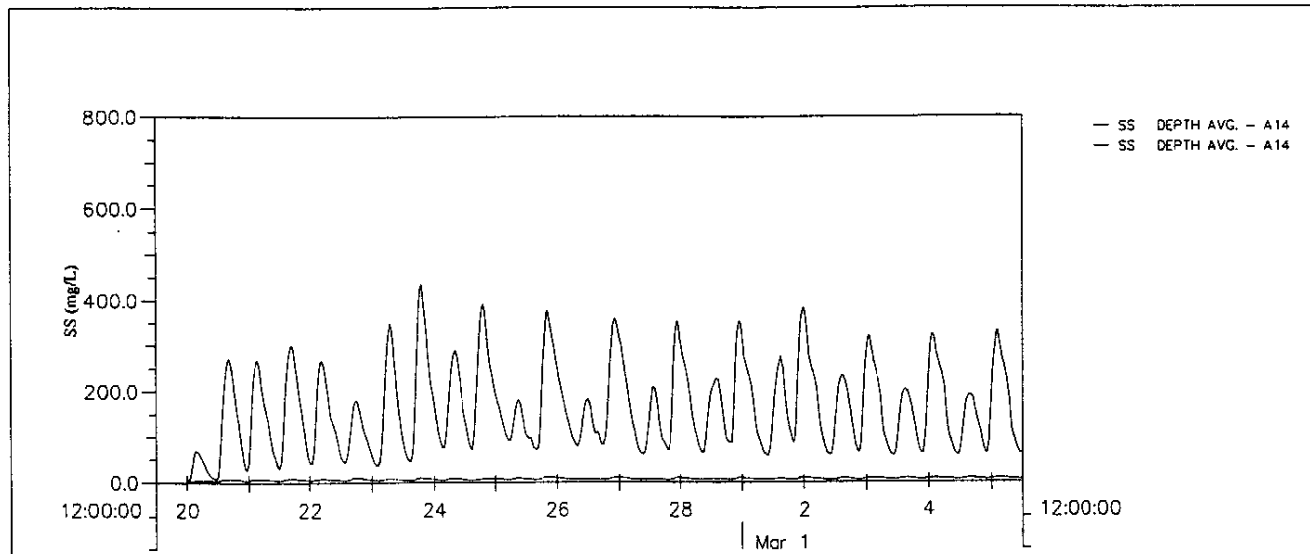
Ove Arup & Partners Hong Kogn Ltd



Time Series Plot for Depth-averaged SS
 Scenario 1 - Wet Season; Solid=No Mitigation; Dotted= Mitigated
 Cha Kwo Ling (Upper); Tai Wan (Middle); Tung Lung Chau (Lower)

May 2001
 Drawing No. 22936/EN/213

Ove ARup & Partners Hong Kong Ltd



Time Series Plot for Depth-averaged SS
 Scenario 2 - Dry Season; Solid=No Mitigation; Dotted=Mitigated
 Cha Kwo Ling (Upper); Tai Wan (Middle); Tung Lung Chau (Lower)

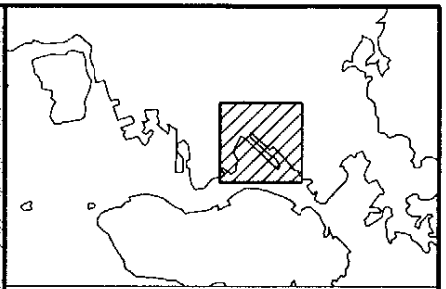
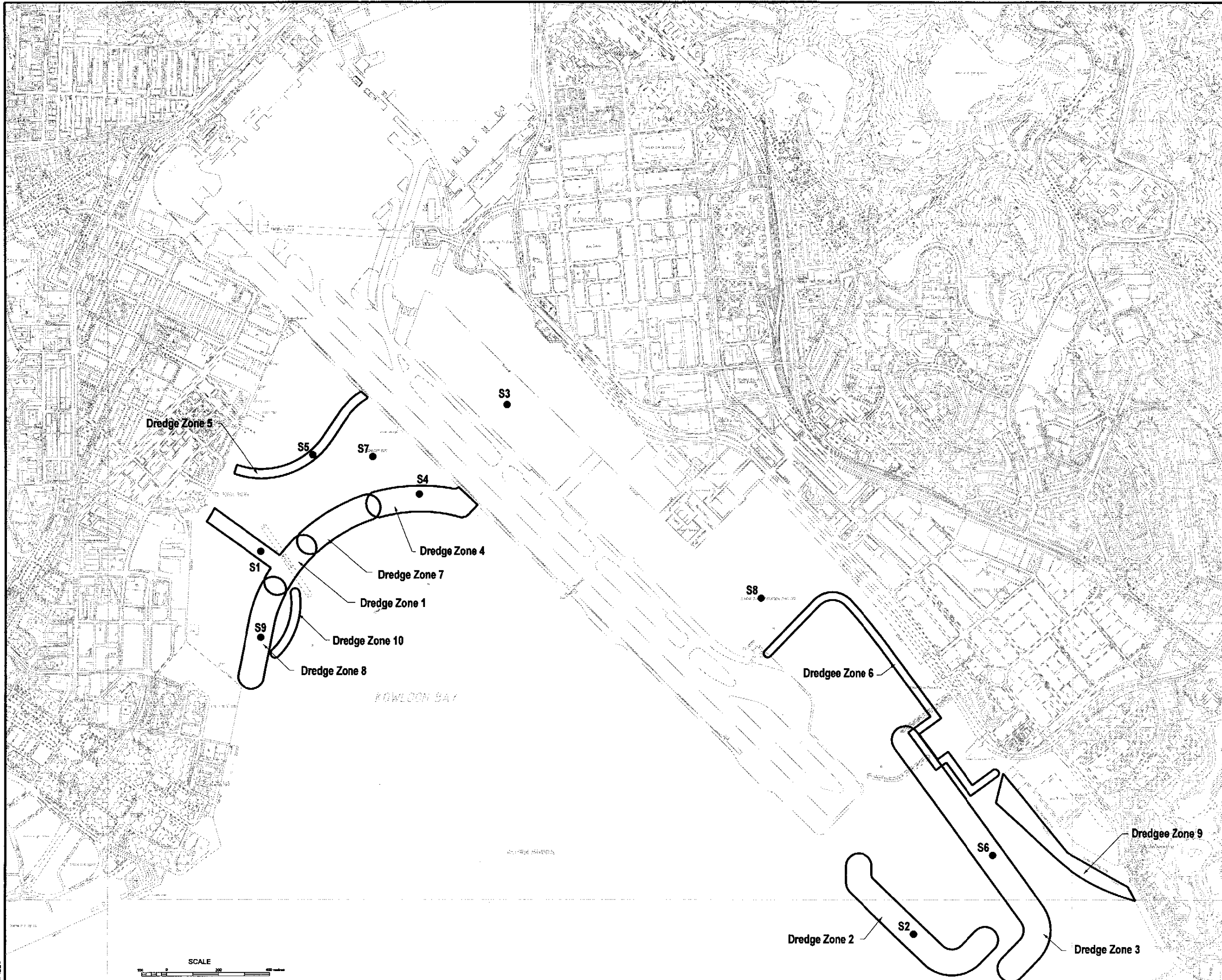
May 2001
 Drawing No. 22936/EN/214

Ove Arup & Partners Hong Kong Ltd

Time Series Plot for Depth-averaged SS
 Scenario 2 - Wet Season; Solid=No Mitigated; Dotted= Mitigated
 Cha Kwo Ling (Upper); Tai Wan (Middle); Tung Lung Chau (Lower)

May 2001
 Drawing No. 22936/EN/215

Ove Arup & Partners Hong Kong Ltd



LEGEND

Rev	Description	By	Date
A	Preliminary		Mar.,01

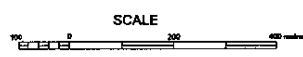
Consultants
ARUP One Arup & Partners Hong Kong Limited
 Murray Harbison Limited ACLIA Limited
 Au Poonford Consultants Limited Environmental Management Limited
 Montgomery Watson Hong Kong Limited Rocca Design Limited
 Wicksell Limited

Project title
**AGREEMENT NO.CE 32/99
 COMPREHENSIVE FEASIBILITY STUDY
 FOR THE REVISED SCHEME OF
 SOUTH EAST KOWLOON DEVELOPMENT**

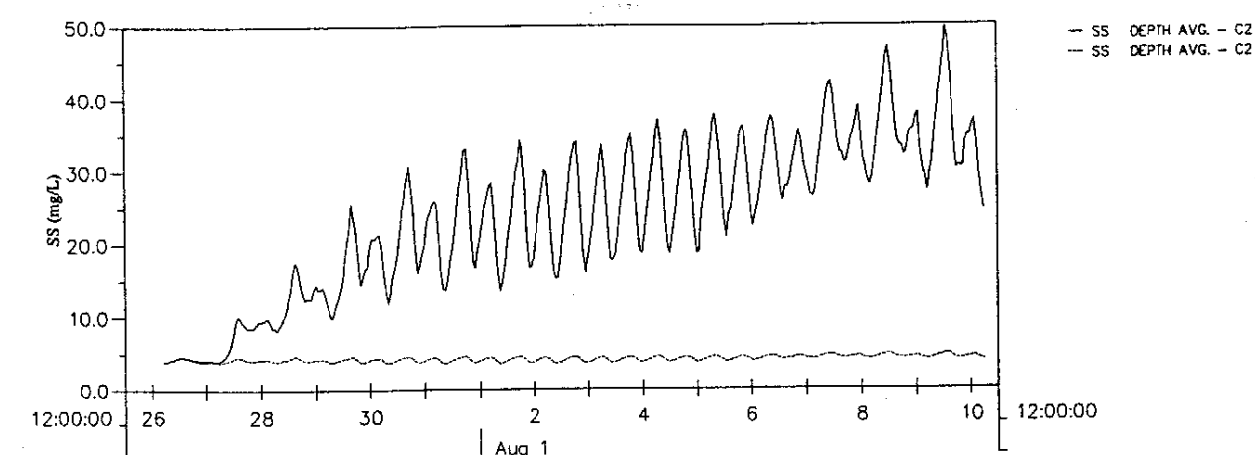
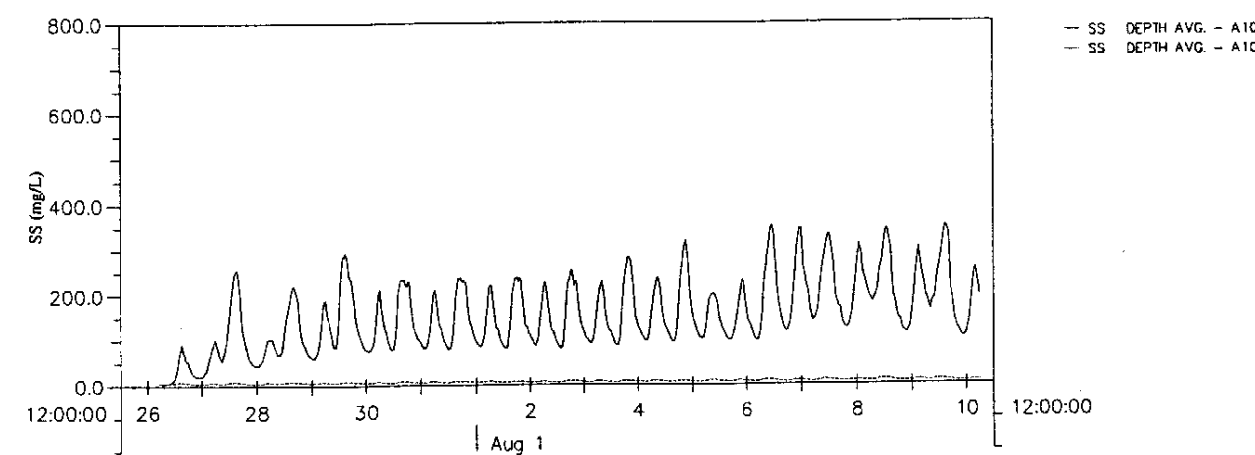
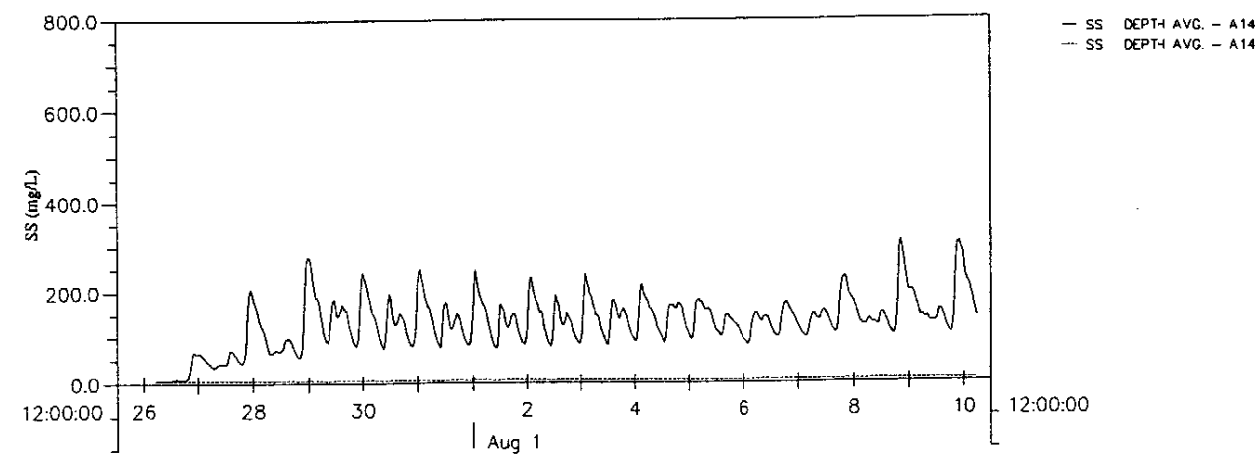
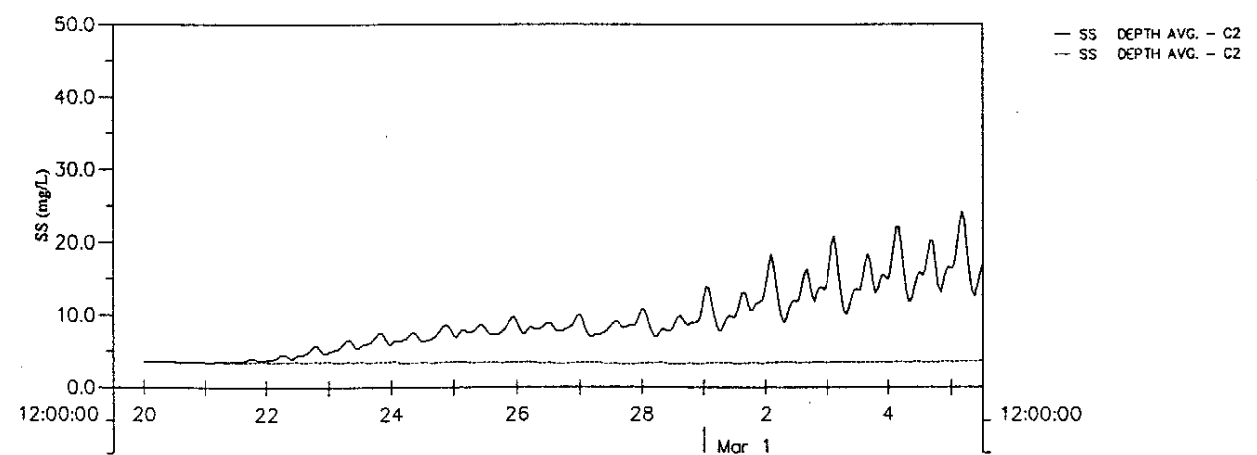
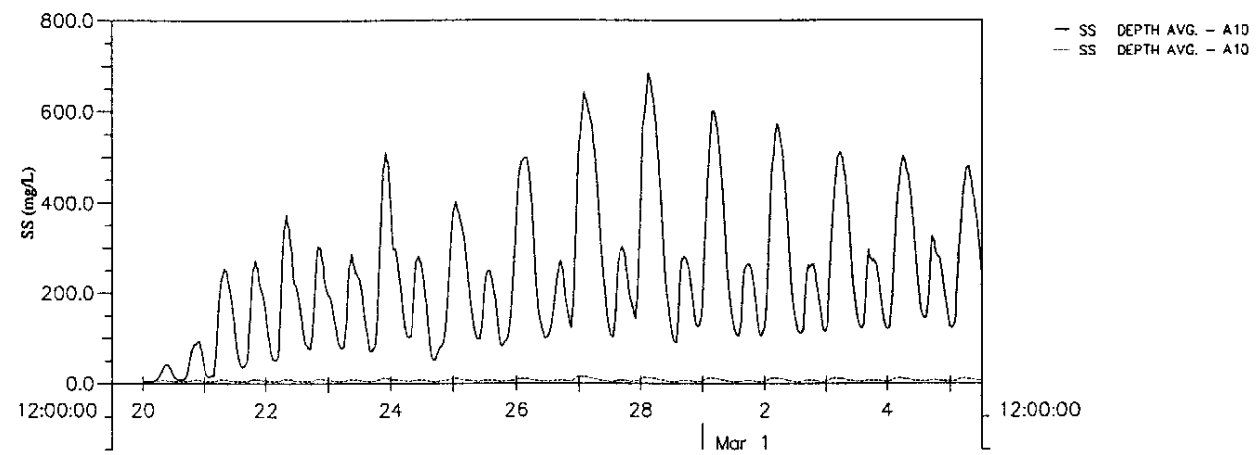
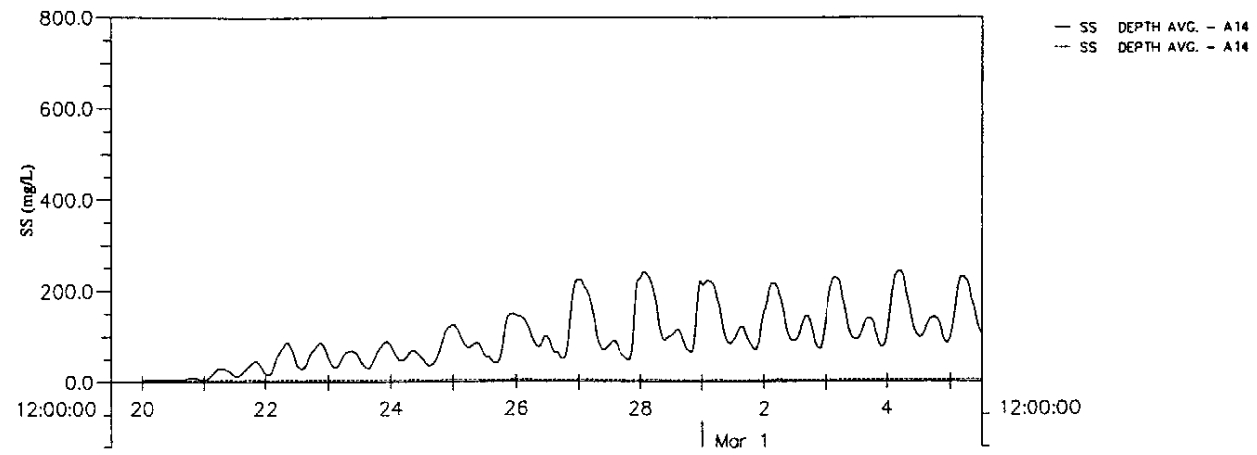
Drawing title
**LOCATION PLAN FOR DREDGING
 AND FILLING OPERATION**

Drawing no.	22936/EN/216	Rev.	A
Drawn	Date	Checked	Approved
Scale	As shown	Status	PRELIMINARY

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Time Series Plot for Depth-averaged SS
 Scenario 3 - Dry Season; Solid=No Mitigation; Dotted= Mitigated
 Cha Kwo Ling (Upper); Tai Wan (Middle); Tung Lung Chau (Lower)

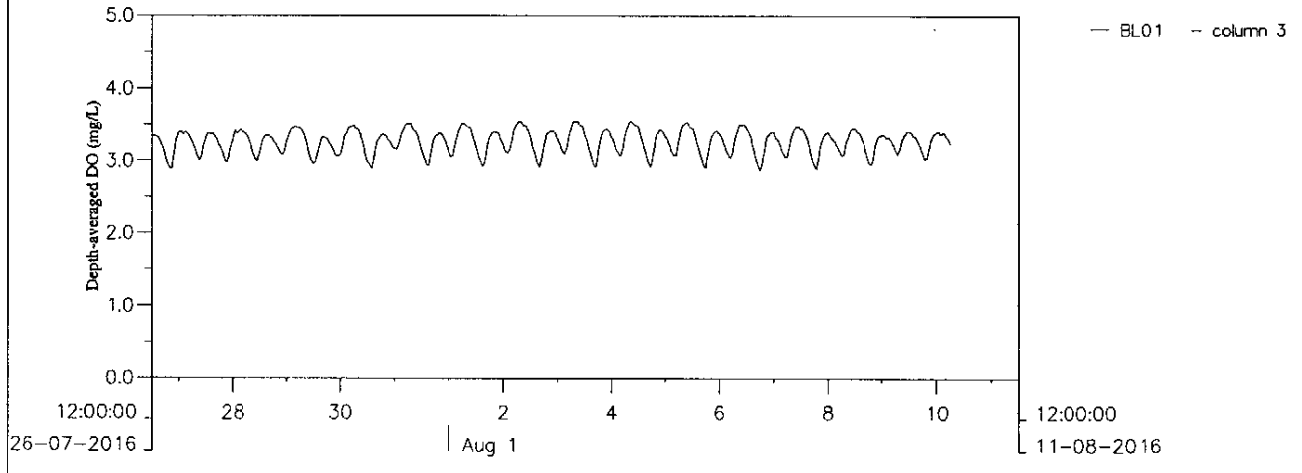
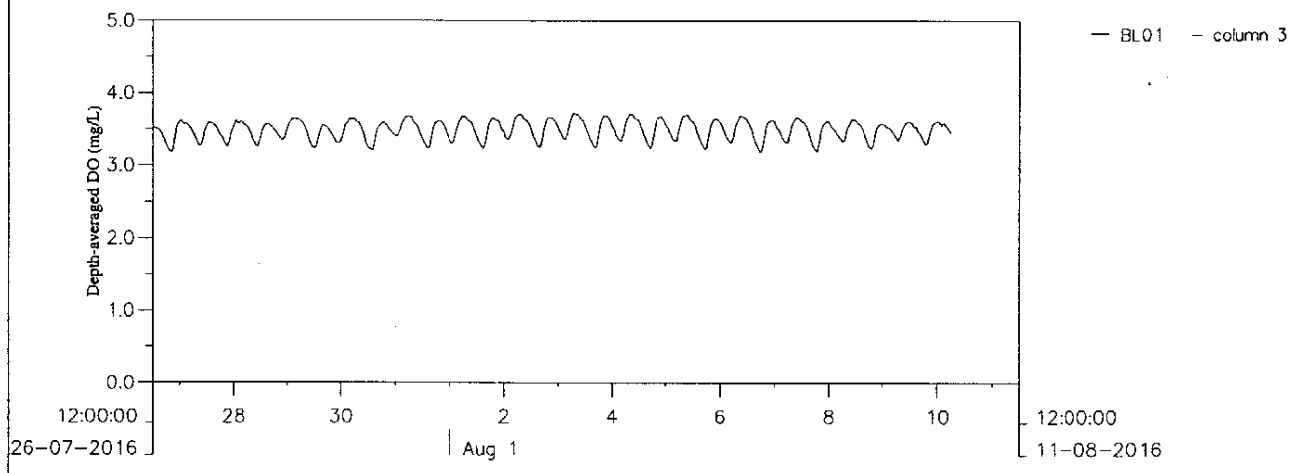
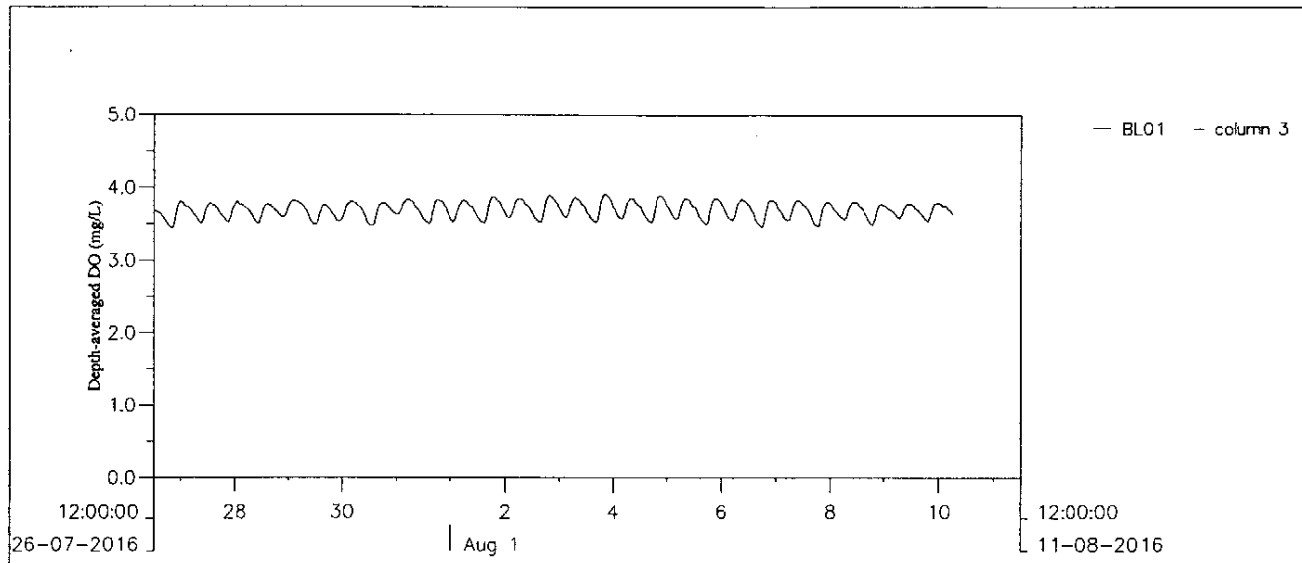
May 2001
 Drawing No. 22936/EN/274

Ove Arup & Partners Hong Kong Ltd

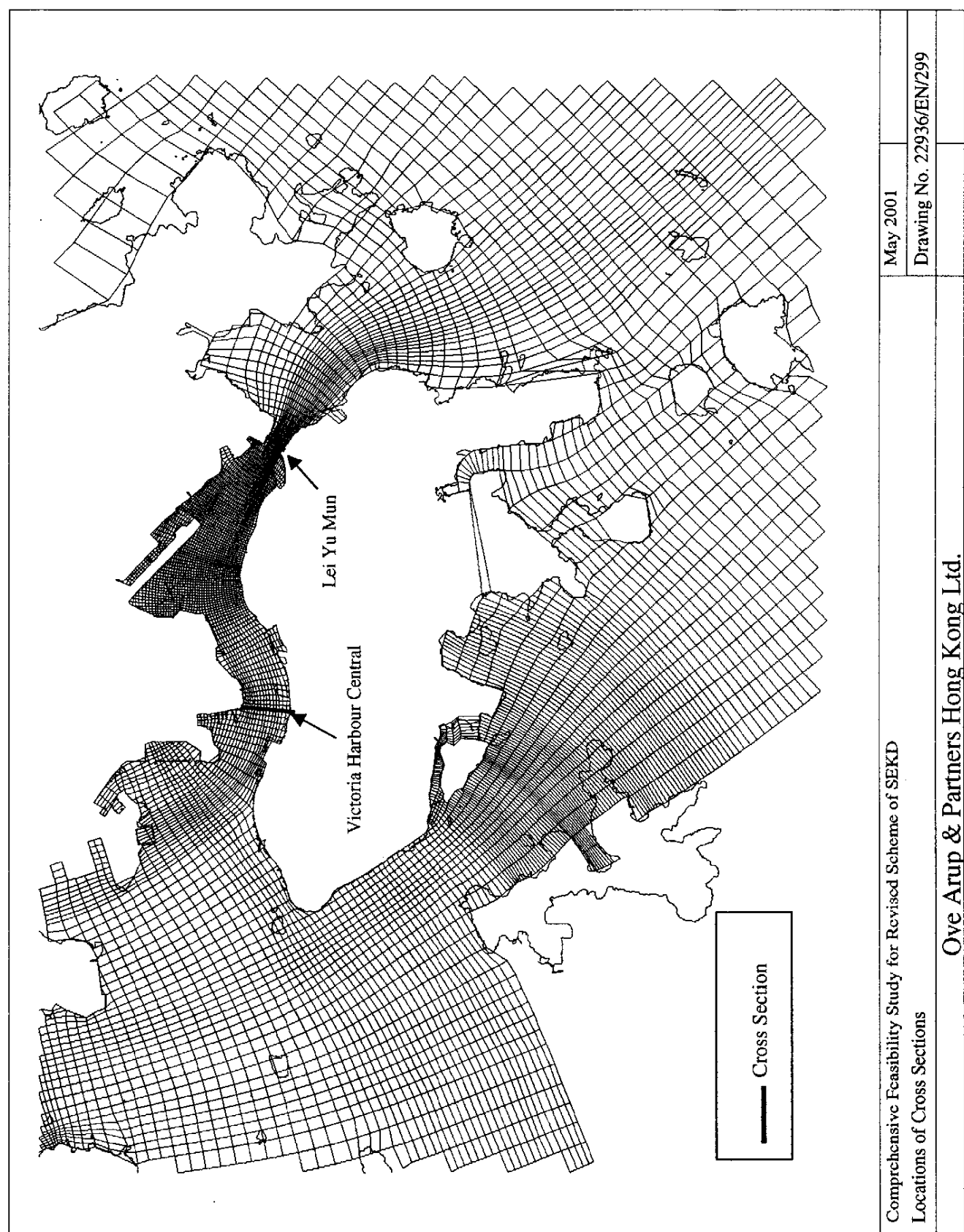
Time Series Plot for Depth-averaged SS
 Scenario 3 - Wet Season; Solid= No Mitigation; Dotted= Mitigated
 Cha Kwo Ling (Upper); Tai Wan (Middle); Tung Lung Chau (Lower)

May 2001
 Drawing No. 22936/EN/275

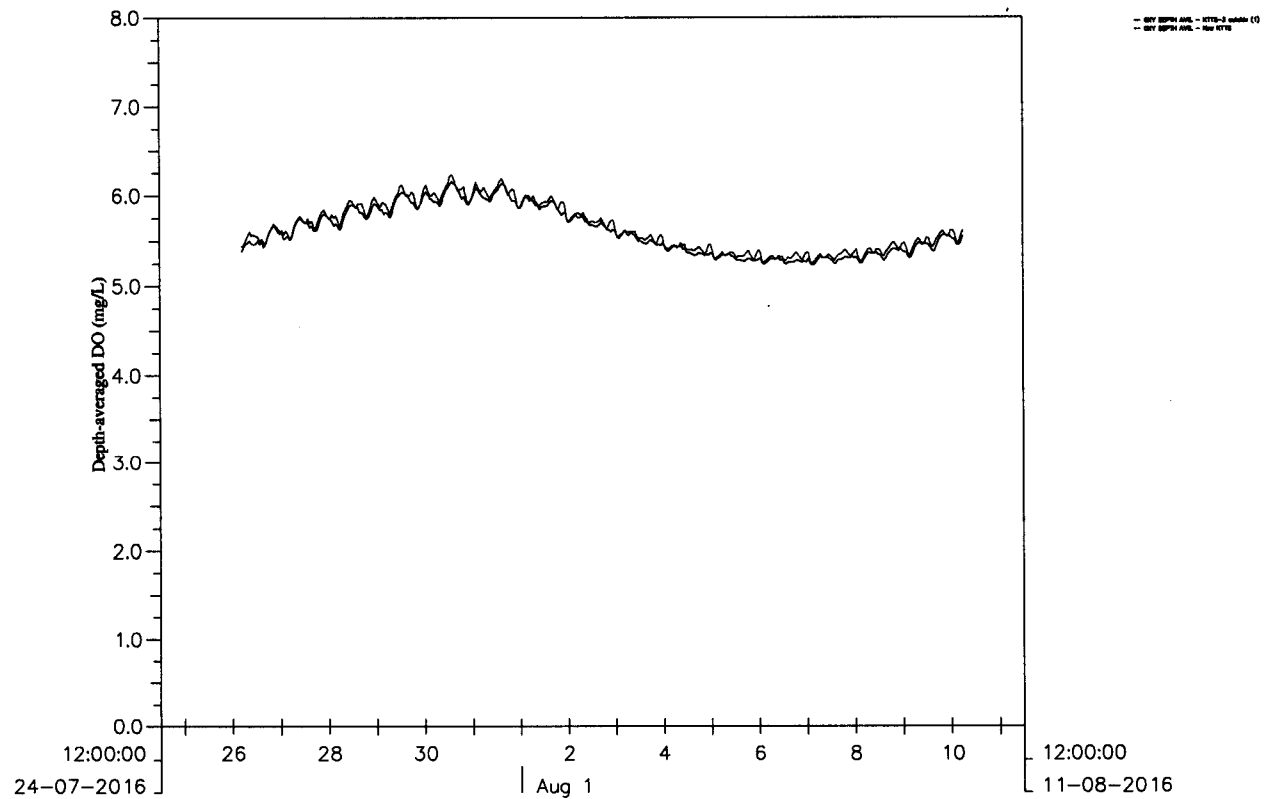
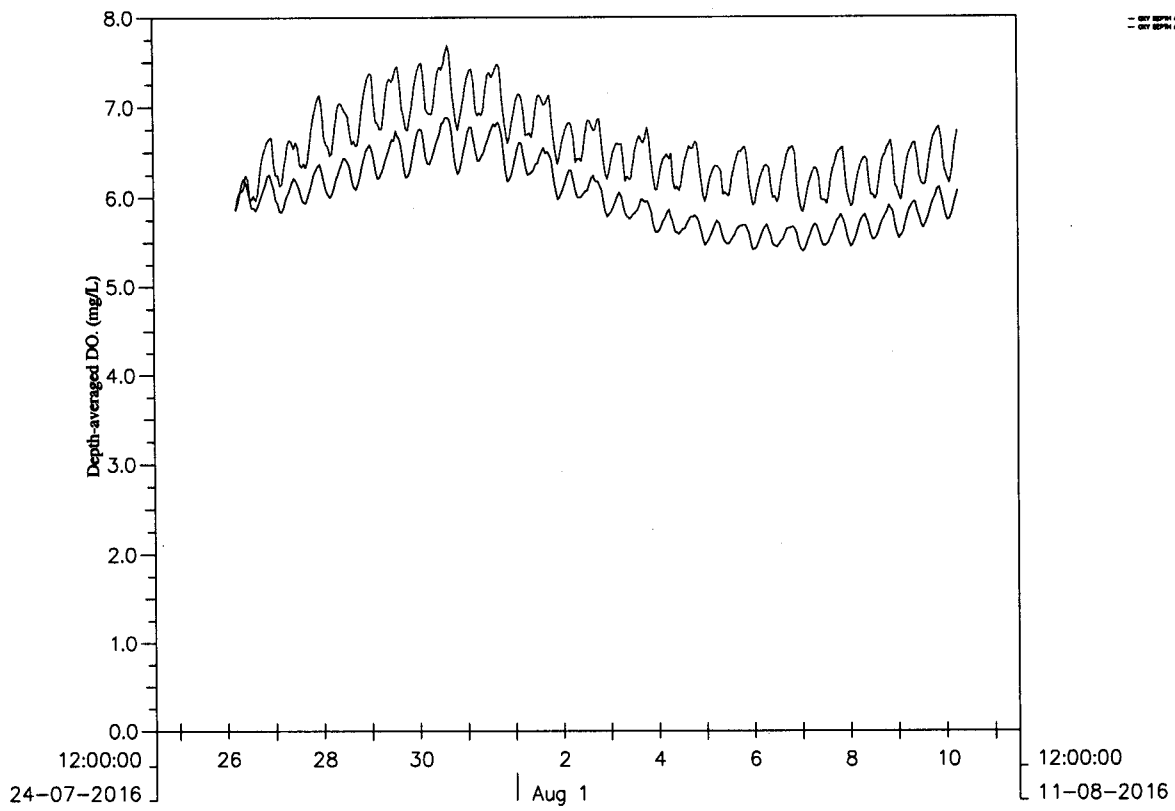
Ove Arup & Partners Hong Kong Ltd



Comprehensive Feasibility Study for Revised Scheme of SEKD Time Series Plots of Depth Average DO at the Extended Section of KTN Air Exchange Rate: Upper=Normal; Middle=Half; Lower=No Exchange	May 2001
	Drawing No. 22936/EN/289
Ove Arup & Partners Hong Kong Ltd	



Comprehensive Feasibility Study for Revised Scheme of SEKD Locations of Cross Sections	May 2001
	Drawing No. 22936/EN/299
Ove Arup & Partners Hong Kong Ltd.	

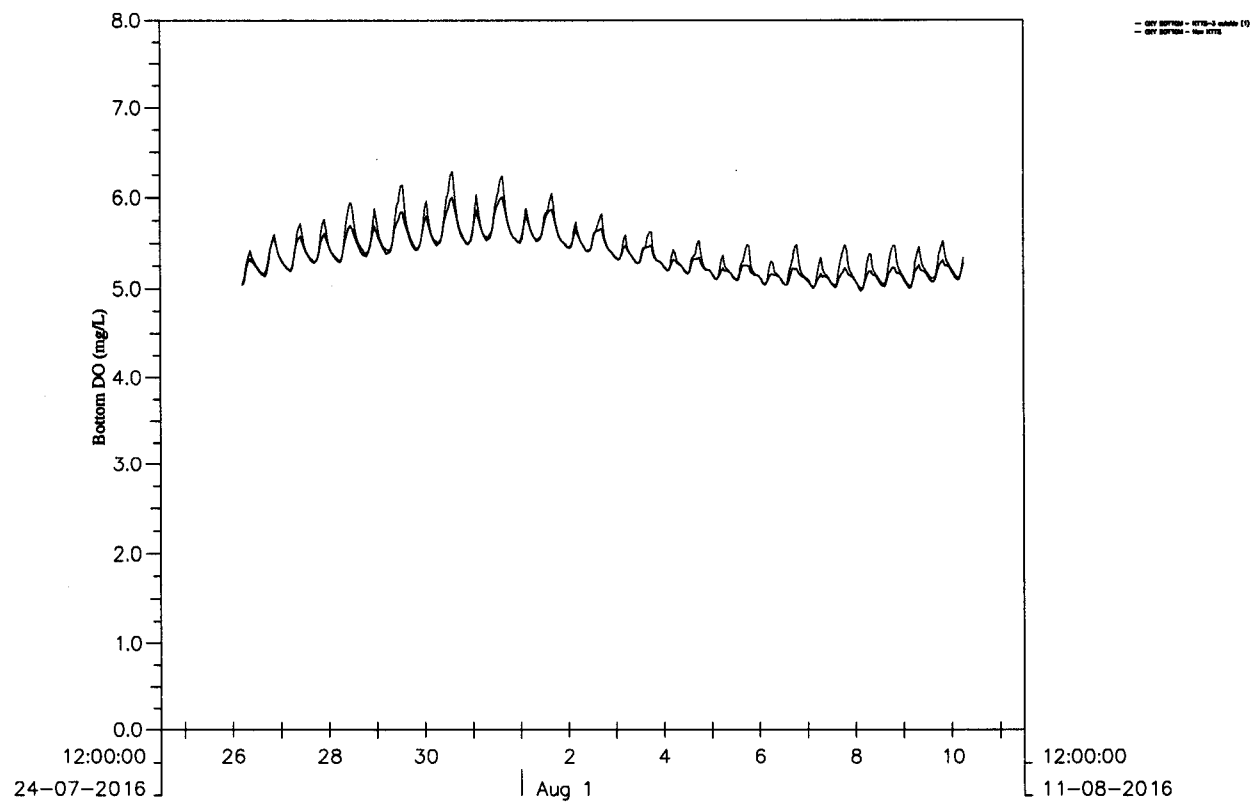
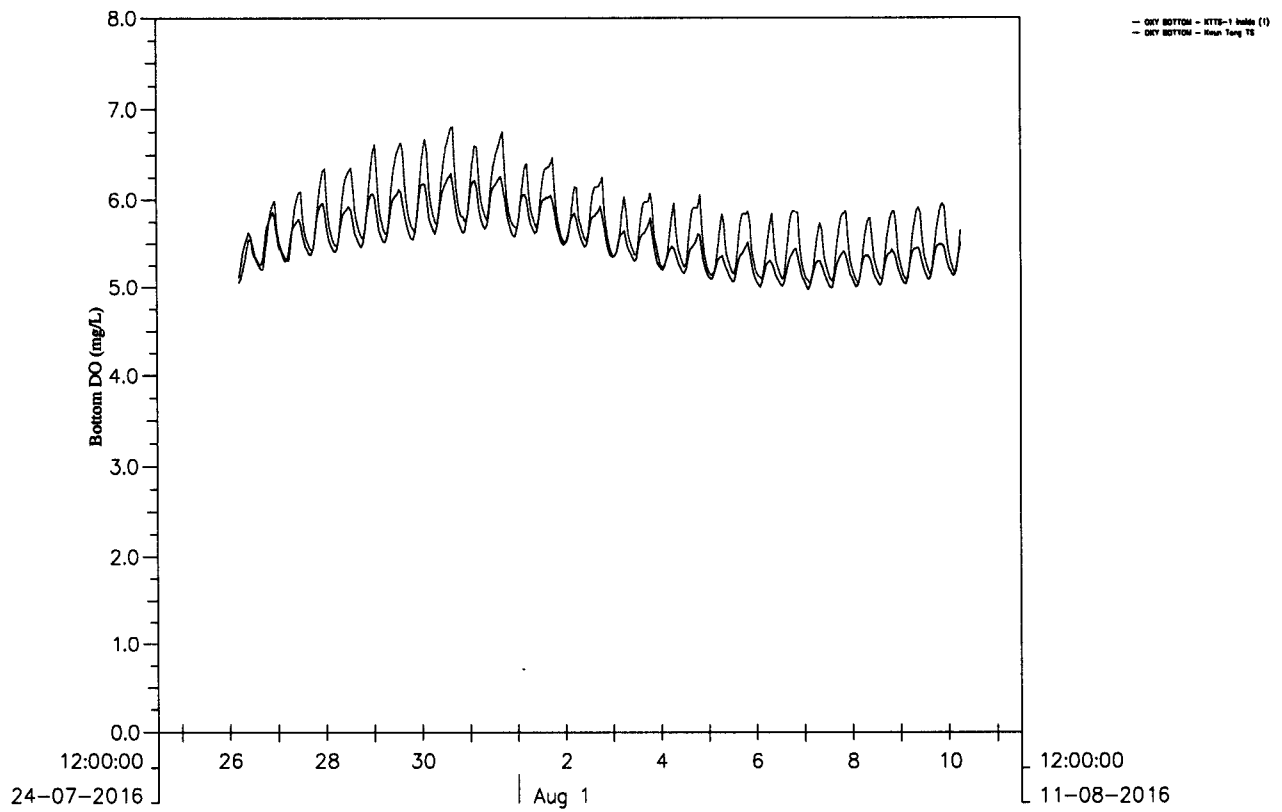


Time Series Plot for Depth-averaged DO
 Stormwater Discharge to KTTS (Upper: Inner KTTS; Lower: Outer KTTS)
 Dotted: no discharge; Solid: with discharge

July 2001

Drawing No. 22936/EN/346

Ove Arup & Partners Hong Kong Ltd

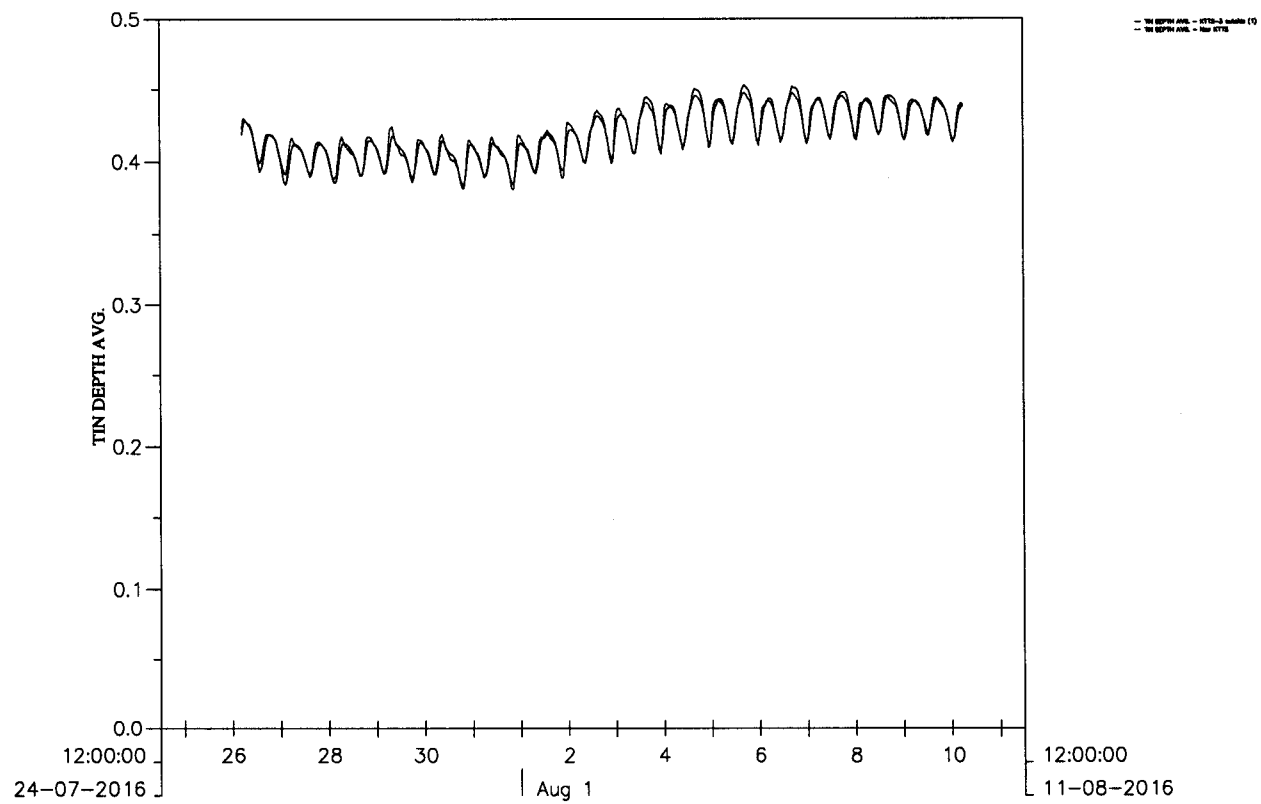
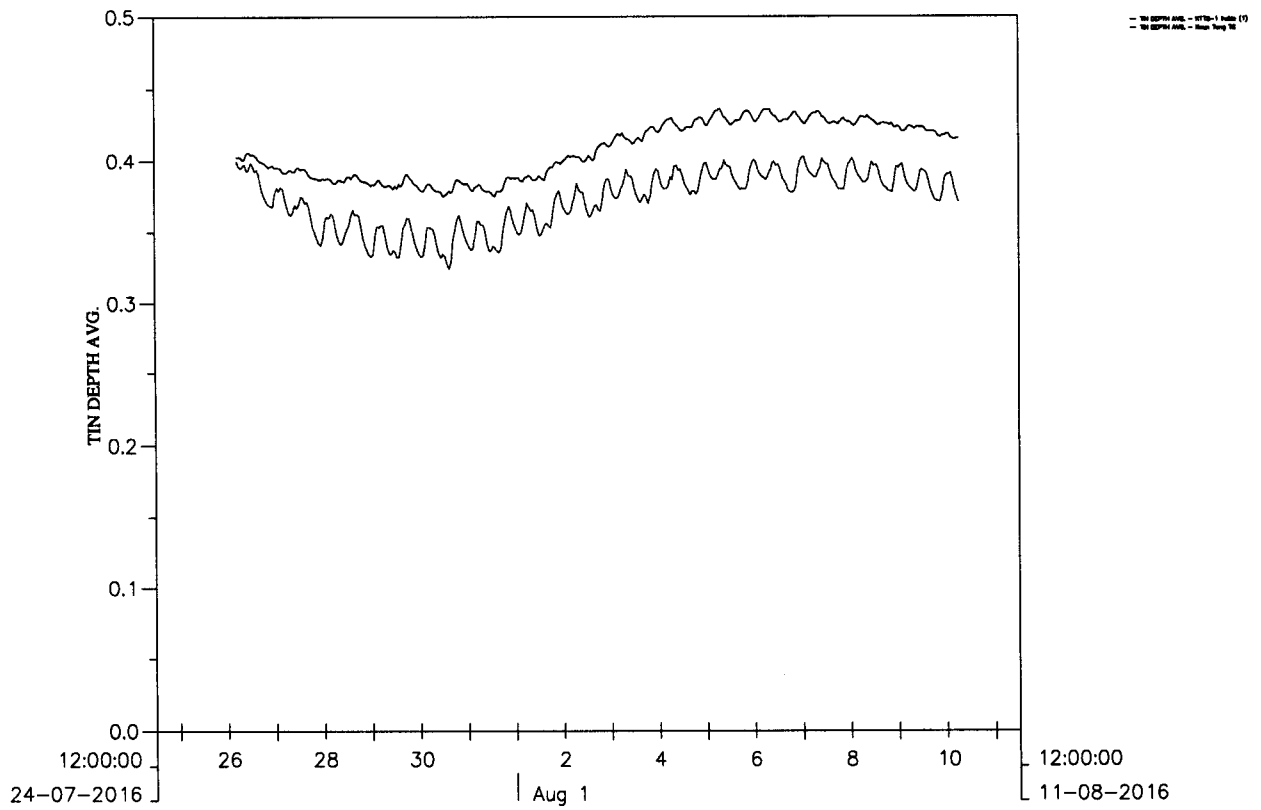


Time Series Plot for Bottom DO
 Stormwater Discharge to KTTS (Upper: Inner KTTS; Lower: Outer KTTS)
 Dotted: no discharge; Solid: with discharge

July 2001

Drawing No. 22936/EN/347

Ove Arup & Partners Hong Kong Ltd

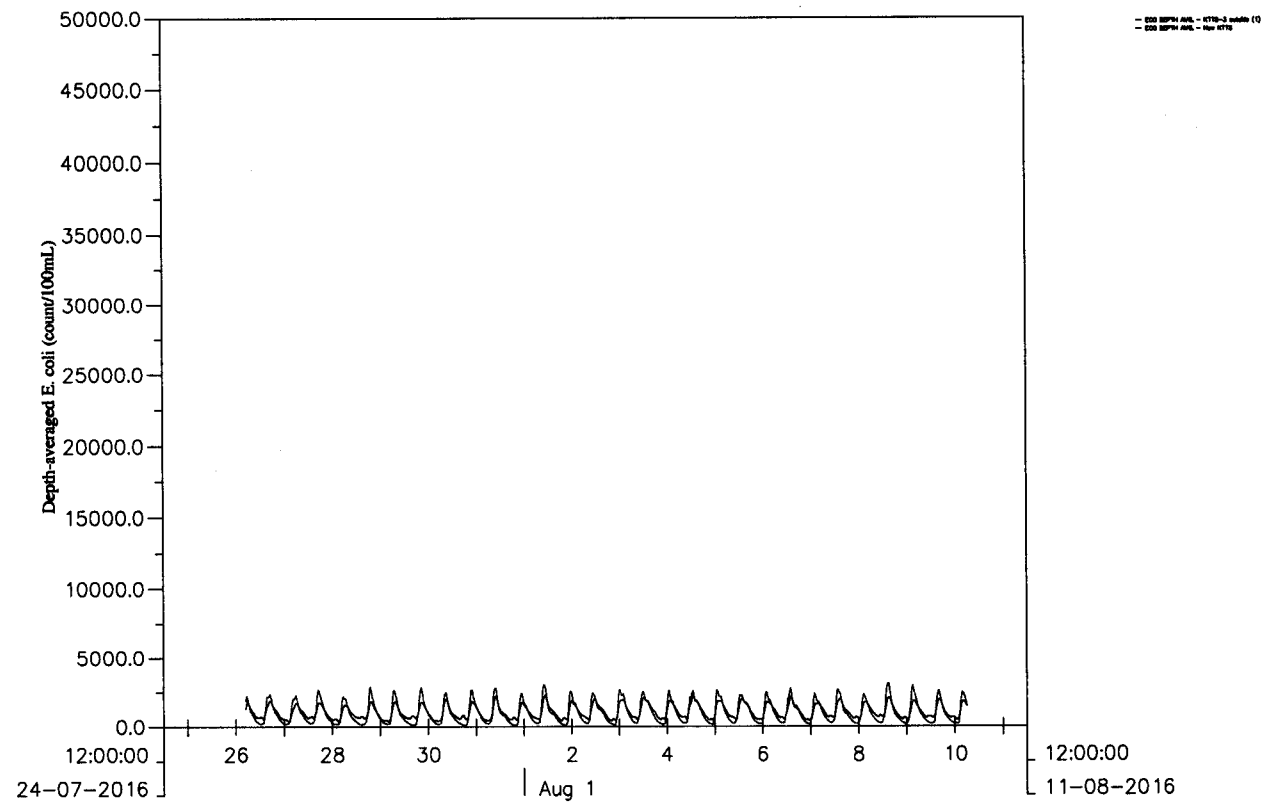
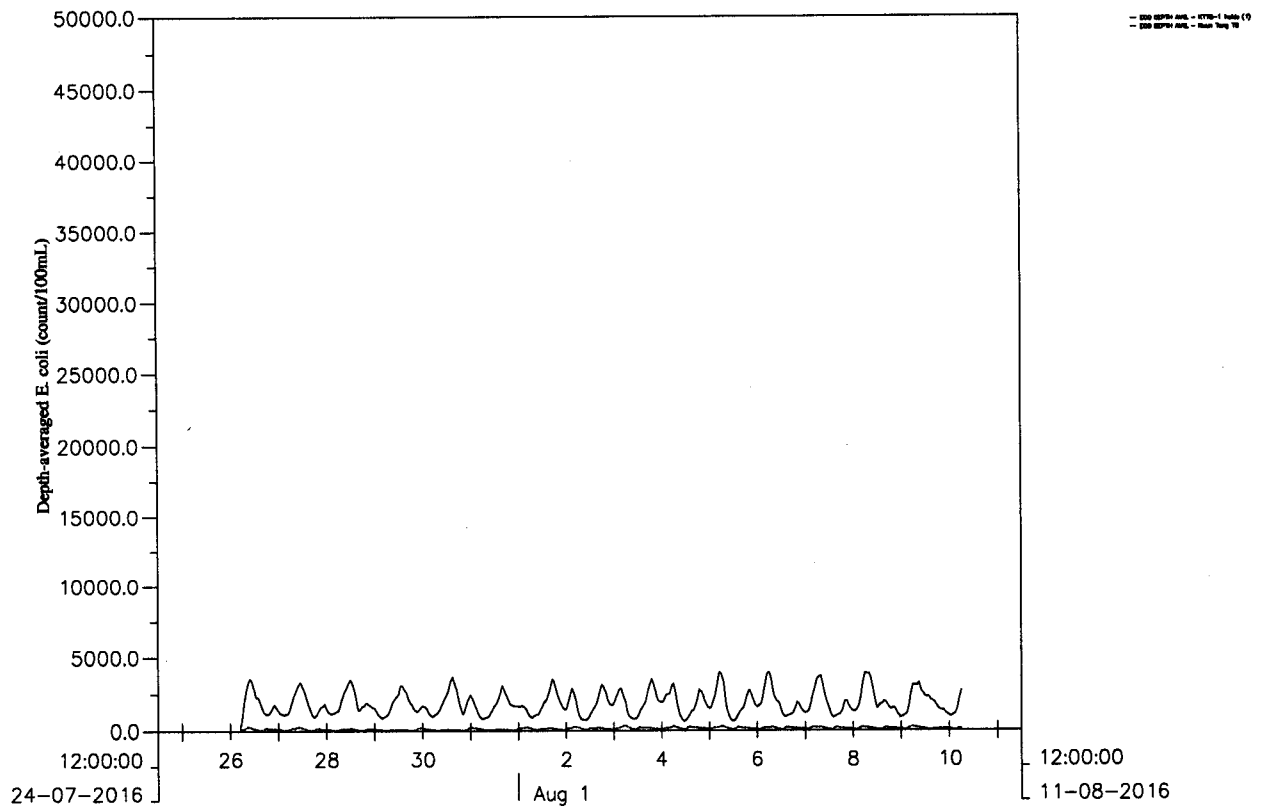


Time Series Plot for Depth-averaged TIN
 Stormwater Discharge to KTTS (Upper: Inner KTTS; Lower: Outer KTTS)
 Dotted: no discharge; Solid: with discharge

July 2001

Drawing No. 22936/EN/348

Ove Arup & Partners Hong Kong Ltd

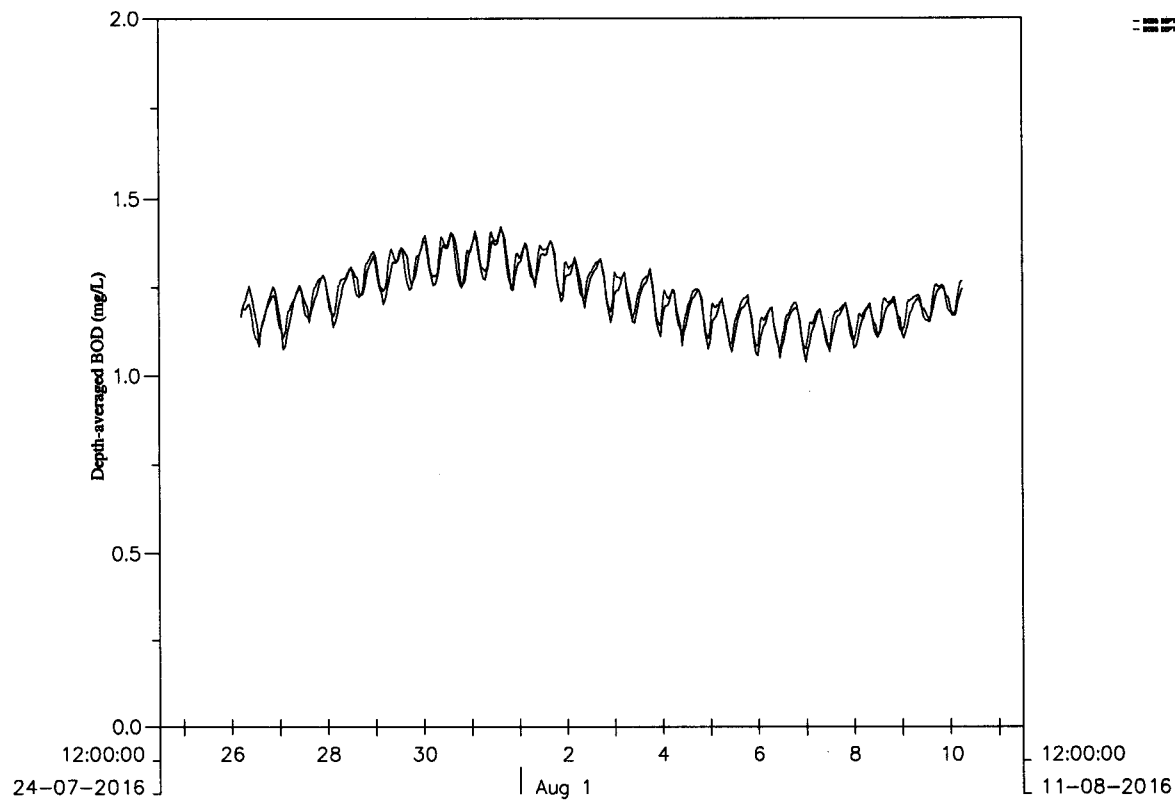
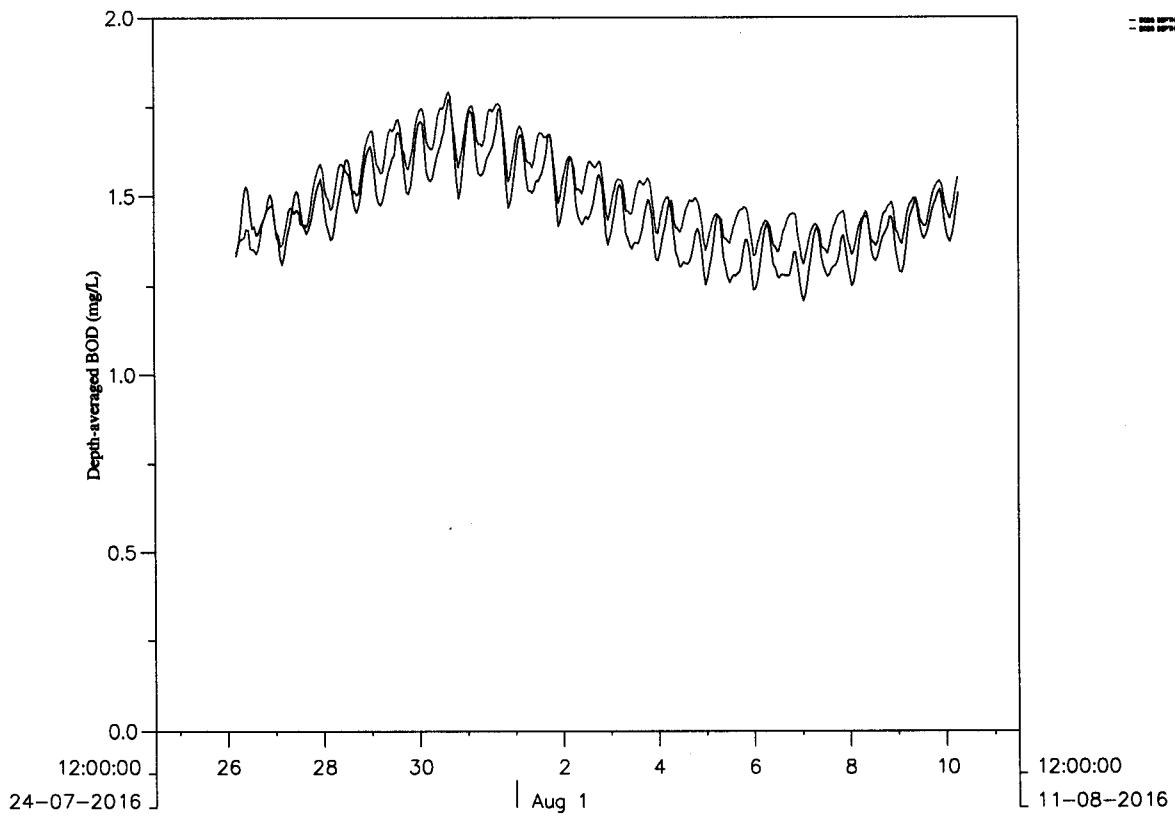


Time Series Plot for Depth-averaged E. coli
 Stormwater Discharge to KTTS (Upper: Inner KTTS; Lower: Outer KTTS)
 Dotted: no discharge; Solid: with discharge

July 2001

Drawing No. 22936/EN/349

Ove Arup & Partners Hong Kong Ltd

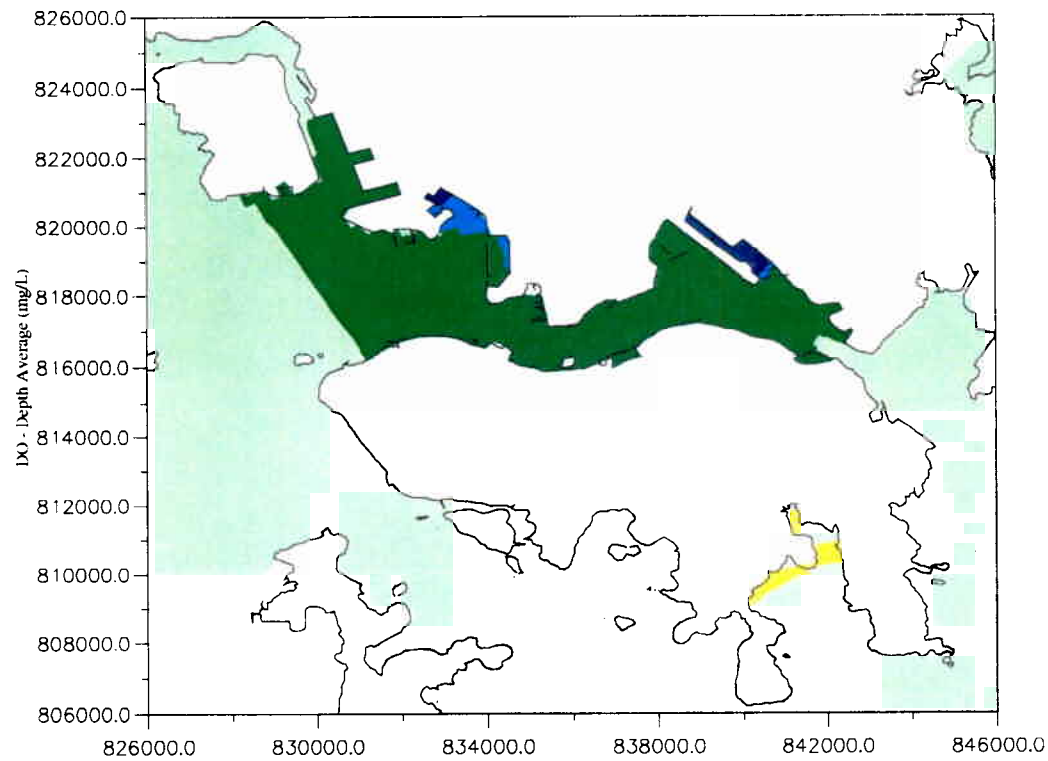
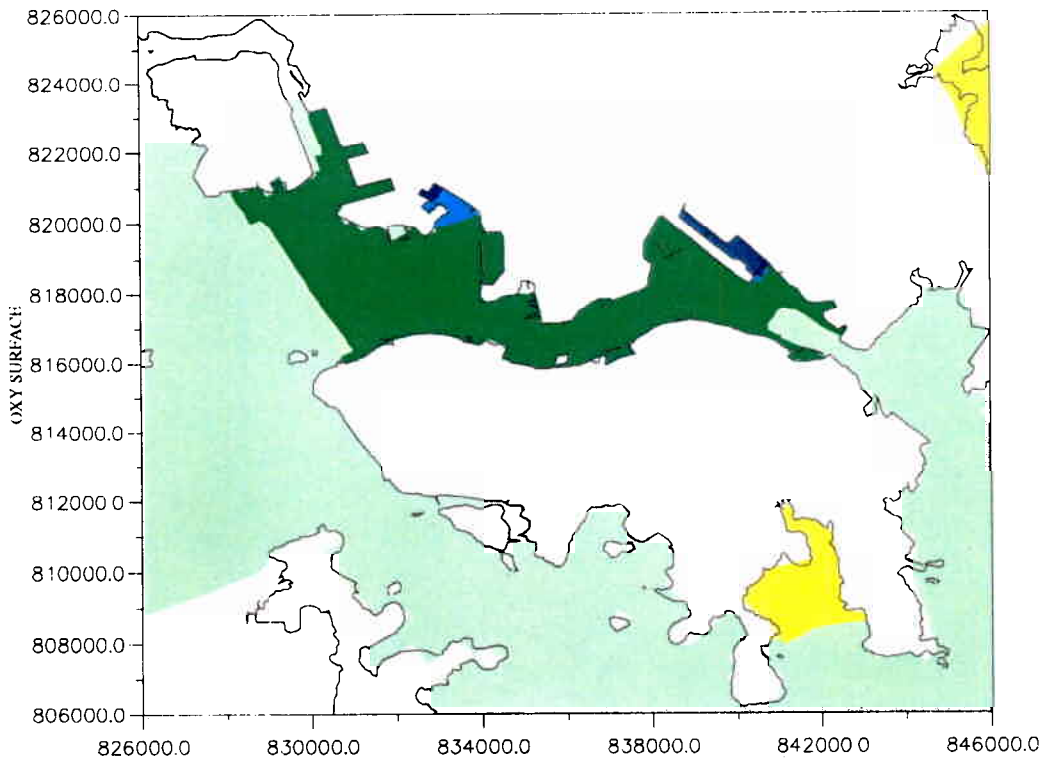


Time Series Plot for Depth-averaged BOD
 Stormwater Discharge to KTTS (Upper: Inner KTTS; Lower: Outer KTTS)
 Dotted: no discharge; Solid: with discharge

July 2001

Drawing No. 22936/EN/350

Ove Arup & Partners Hong Kong Ltd

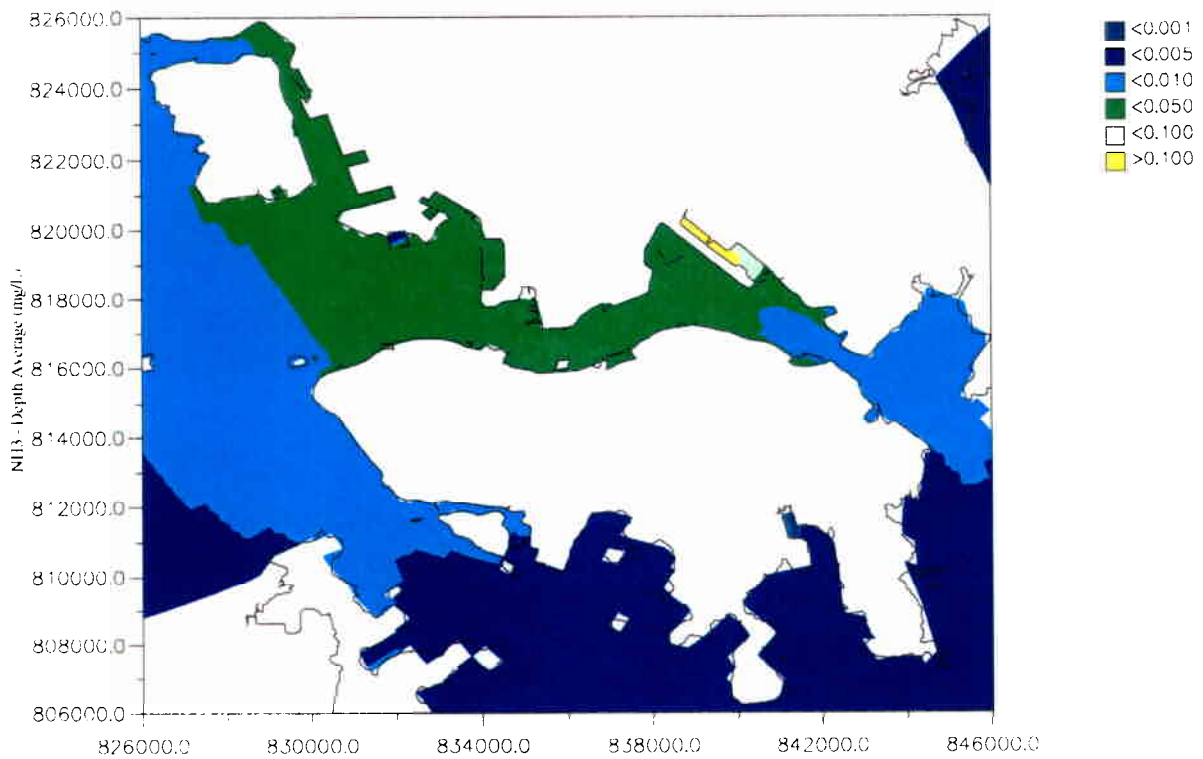
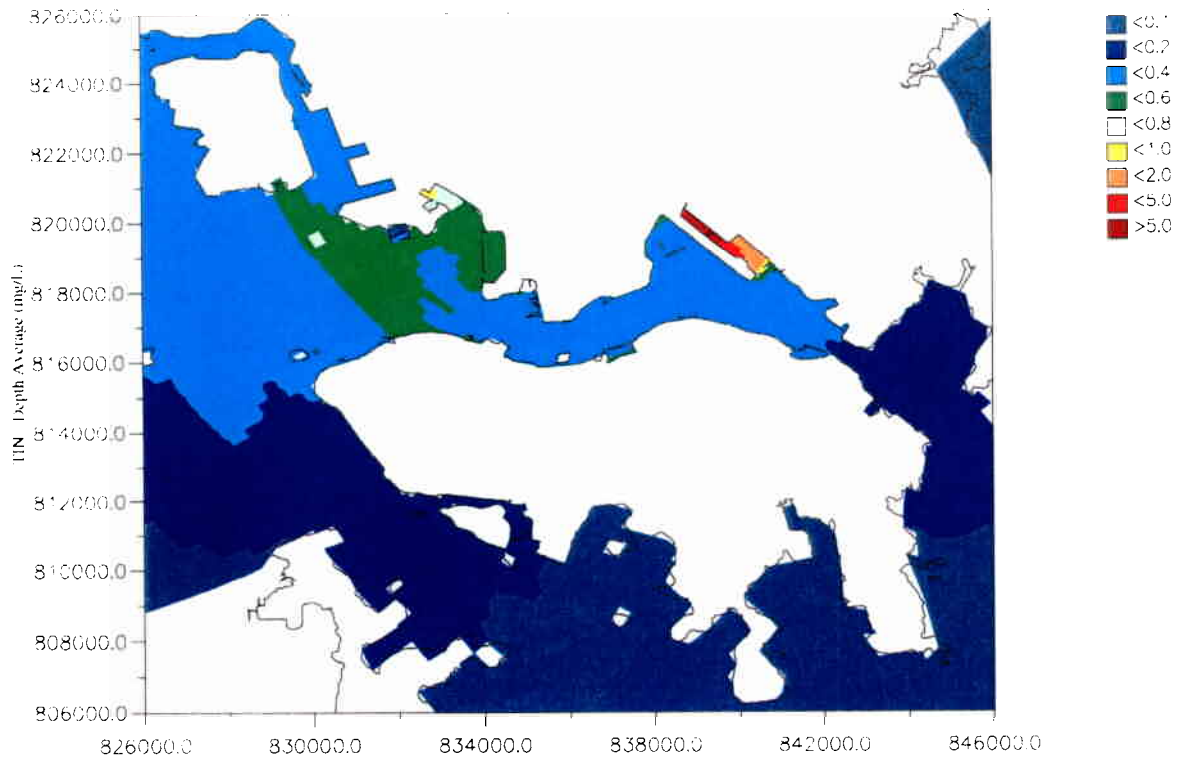


Comprehensive Feasibility Study for Revised Scheme of SEKD
 Mean Depth-Averaged and Surface Layer DO - Dry Season (2002)
 (Upper: Surface Layer DO; Lower: Depth Average DO)

March 2001

Drawing No. 22936/EN/154

Ove Arup & Partners Hong Kong Ltd



Comprehensive Feasibility Study for Revised Scheme of SEKD

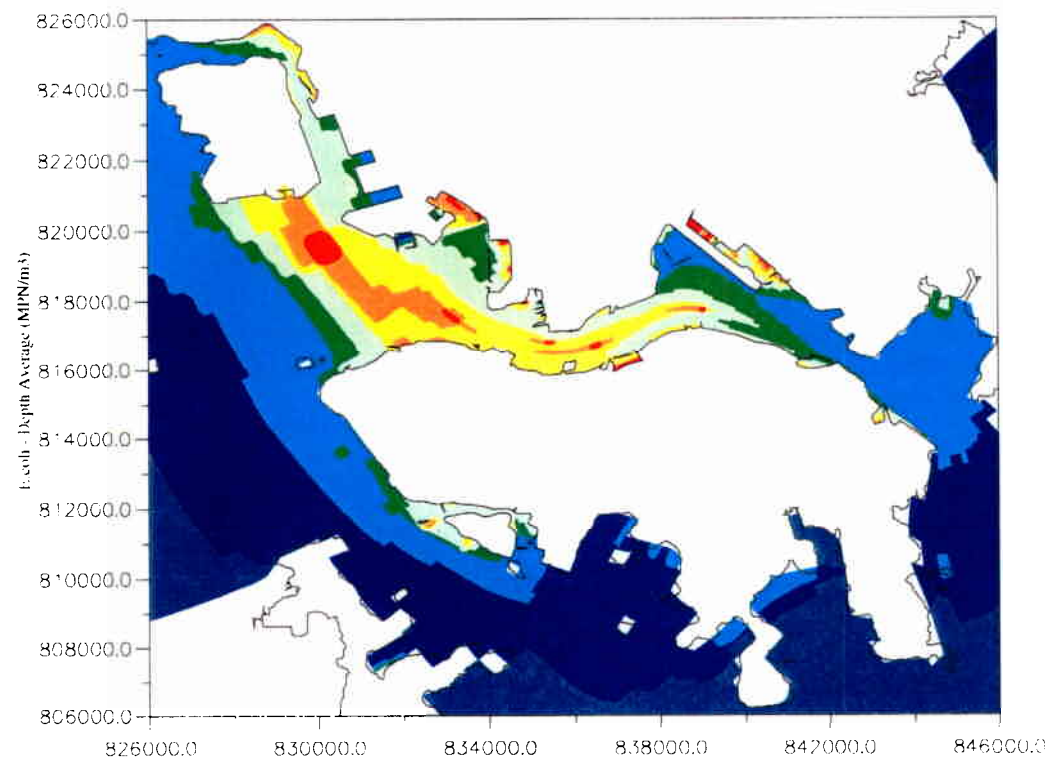
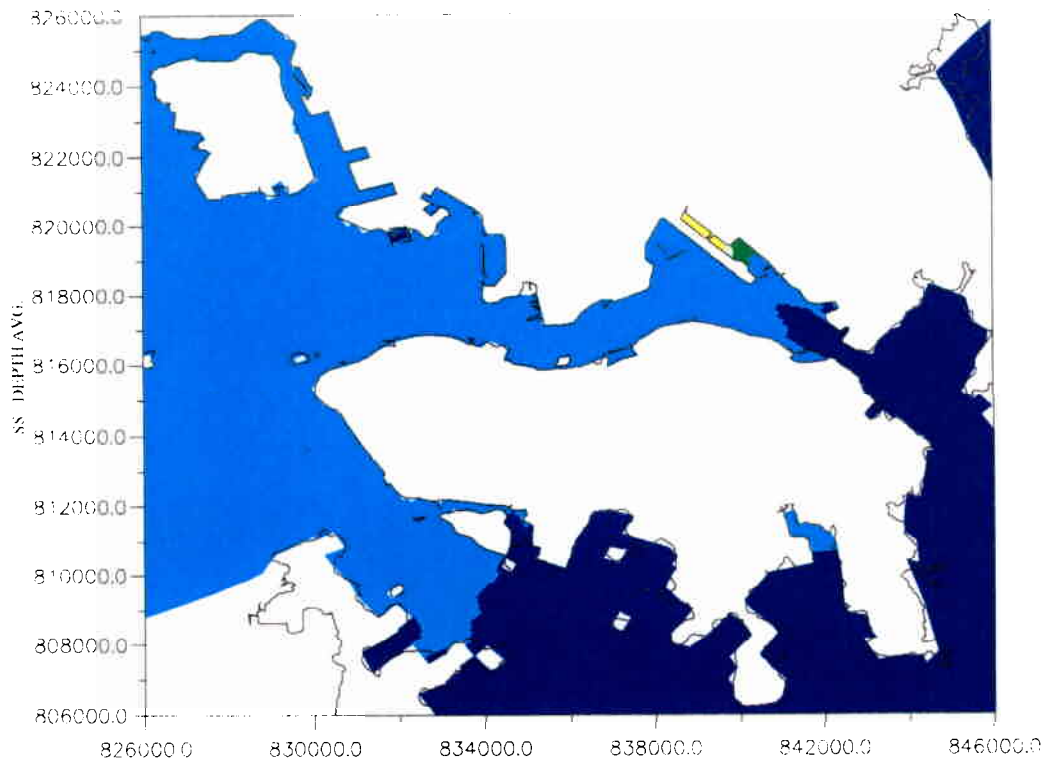
Mean Depth-Averaged TIN and NH3 - Dry Season (2002)

(Upper: Total Inorganic Nitrogen; Lower: Unionised Ammonia)

March 2001

Drawing No. 229.36/EN/155

Ove Arup & Partners Hong Kong Ltd

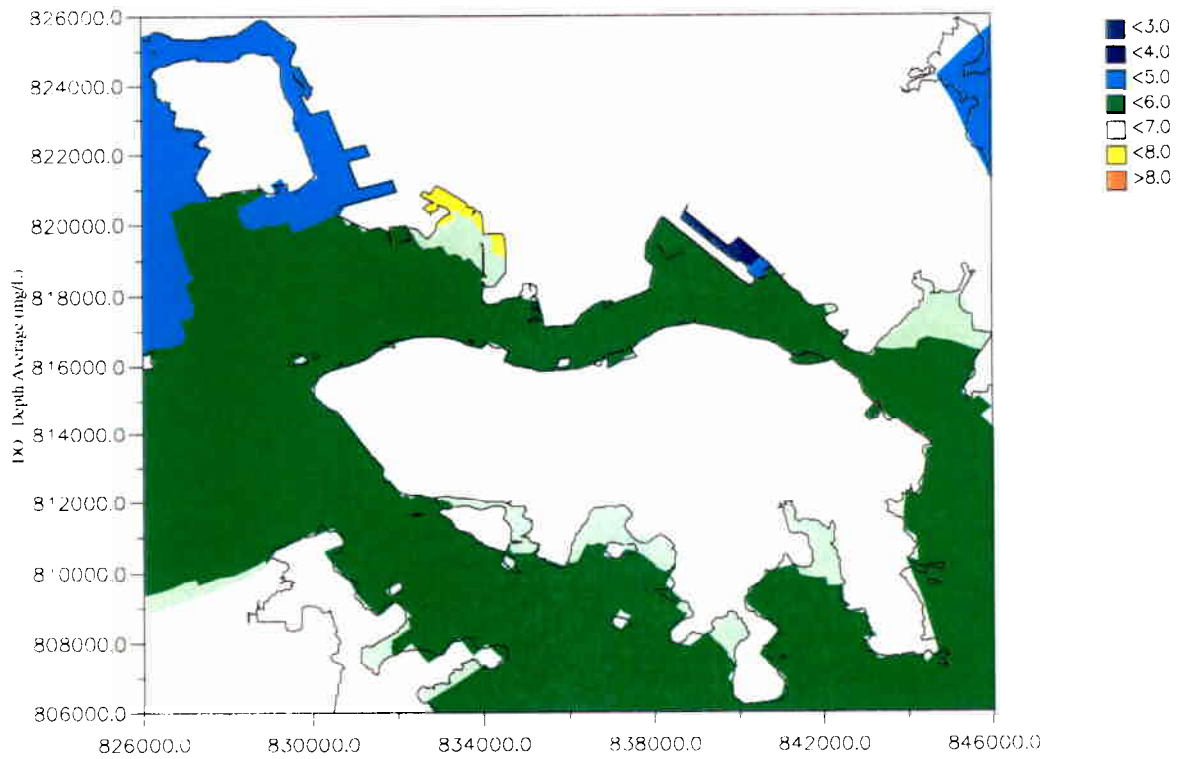
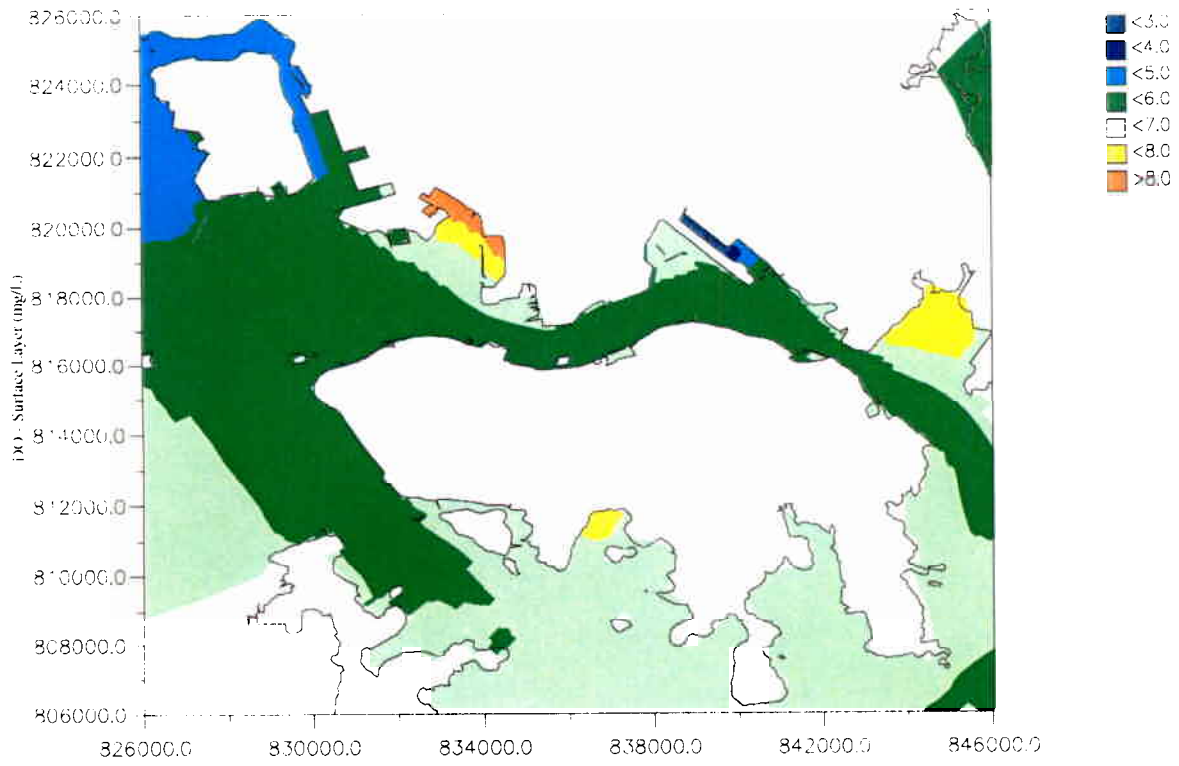


Comprehensive Feasibility Study for Revised Scheme of SEKD
 Mean Depth-Averaged Suspended Solids and E.coli - Dry Season (2002)
 (Upper: Suspended Solids; Lower: E. coli)

March 2003

Drawing No. 22936/EN/156

Ove Arup & Partners Hong Kong Ltd

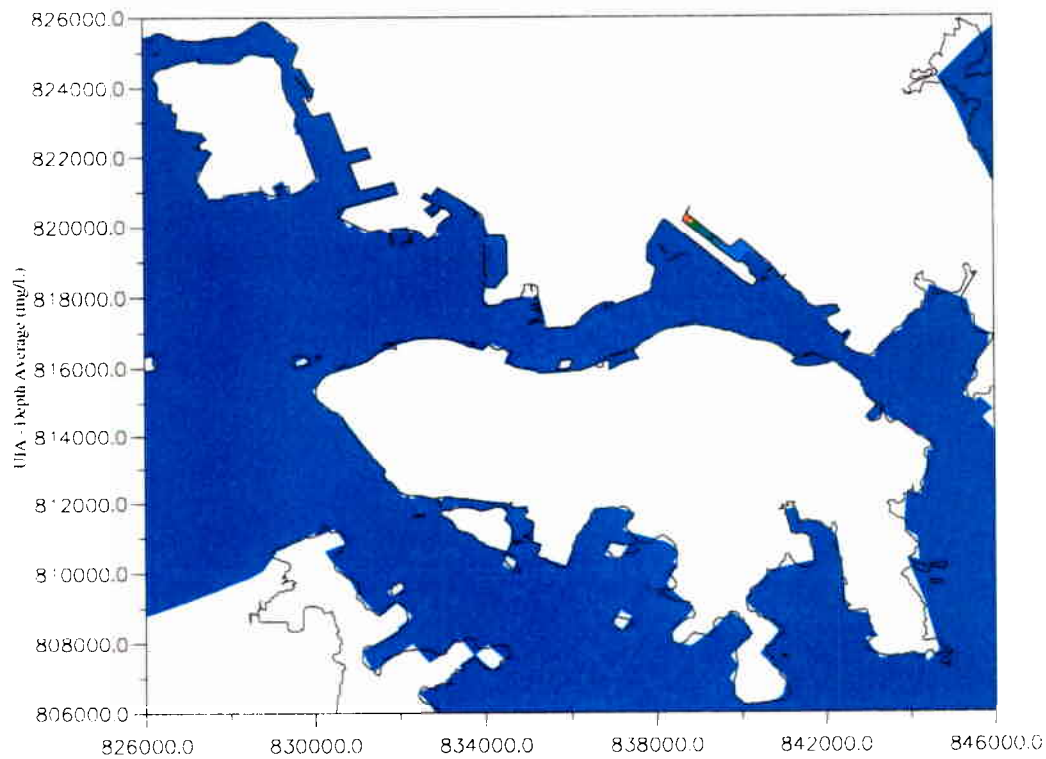
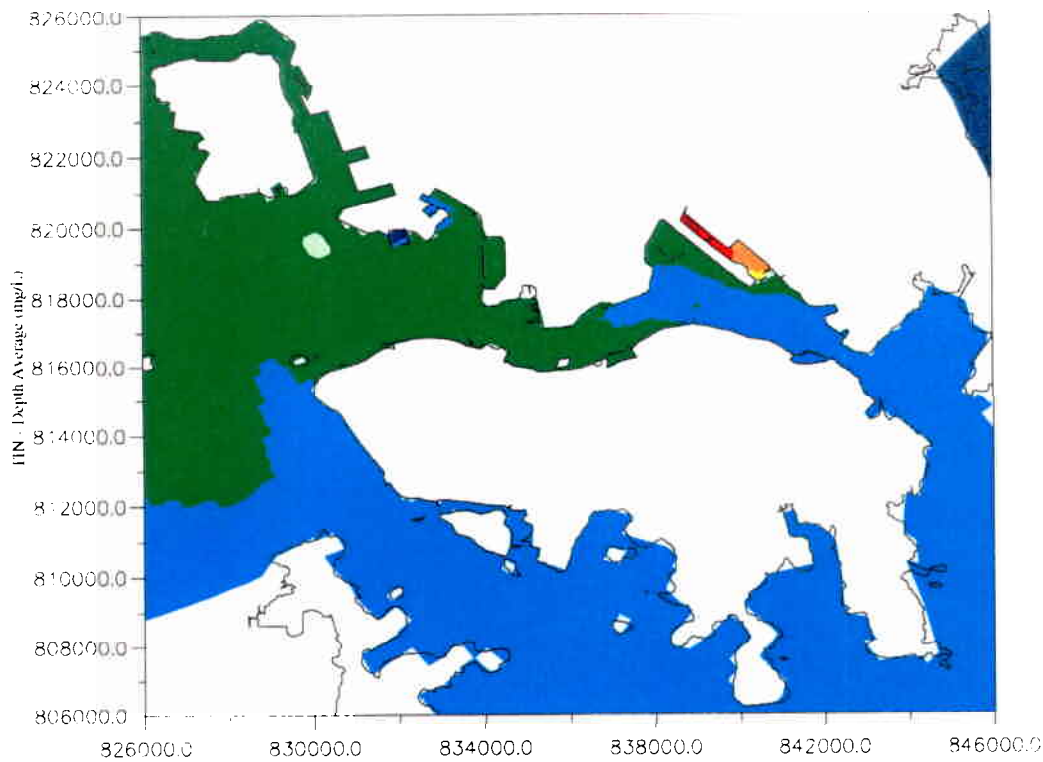


Comprehensive Feasibility Study for Revised Scheme of SEKD
 Mean Depth-Averaged and Surface DO - Wet Season (2002)
 (Upper: Surface Layer DO; Lower: Depth Average DO)

March 2001

Drawing No. 229.36/EN/157

Ove Arup & Partners Hong Kong Ltd

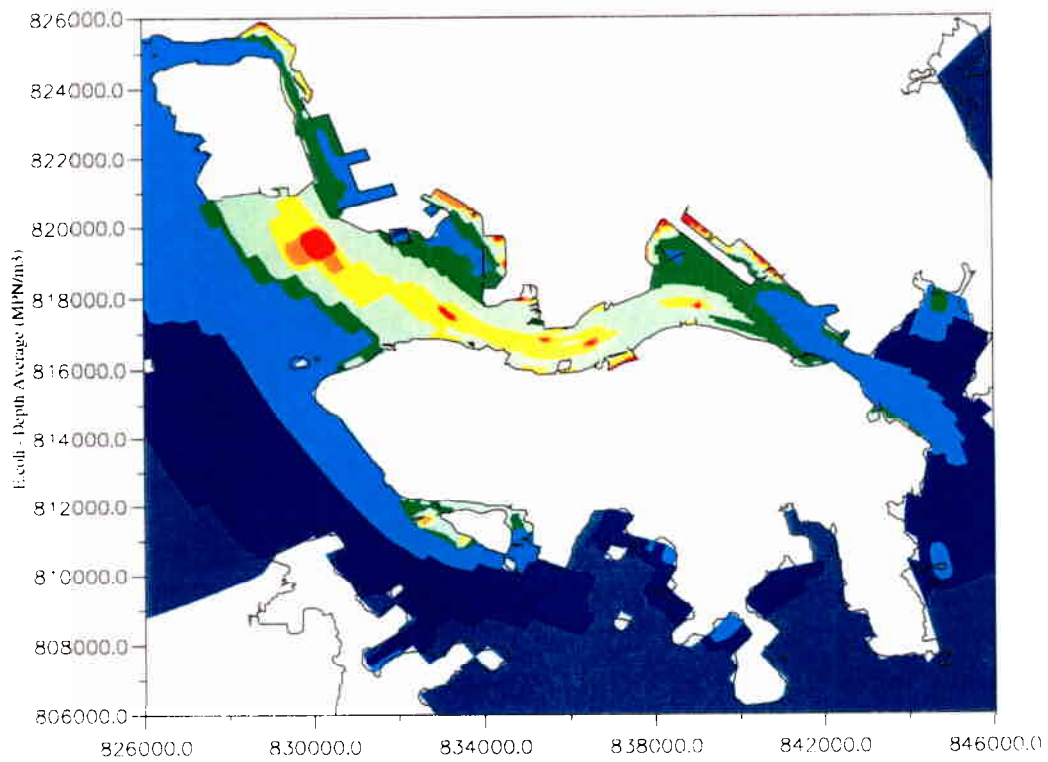
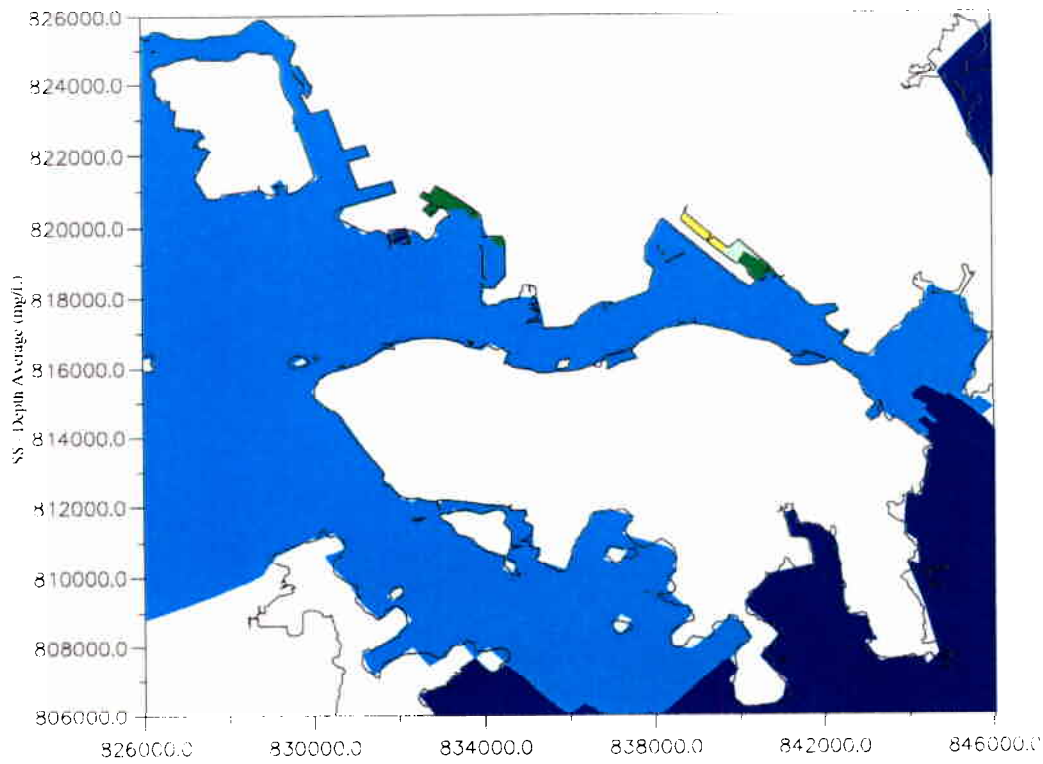


Comprehensive Feasibility Study for Revised Scheme of SEKD
 Mean Depth-Averaged TIN and UJA - Wet Season (2002)
 (Upper: Total Inorganic Nitrogen; Lower: Unionised Ammonia)

March 2001

Drawing No. 22936/EN/158

Ove Arup & Partners Hong Kong Ltd

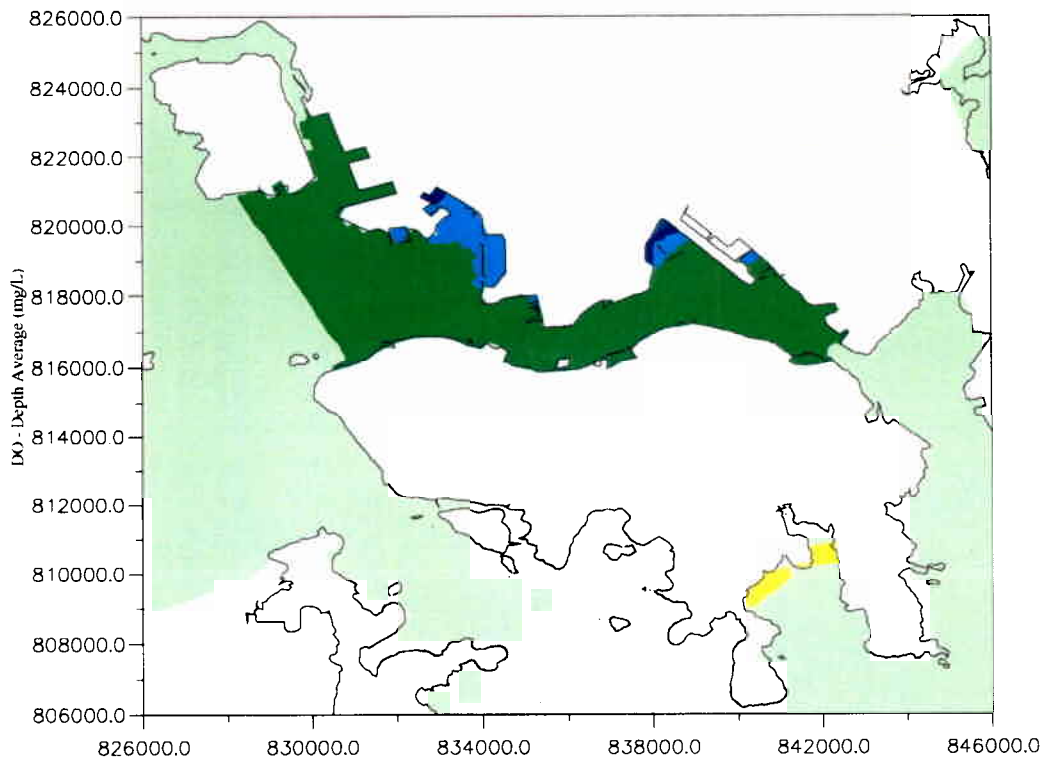
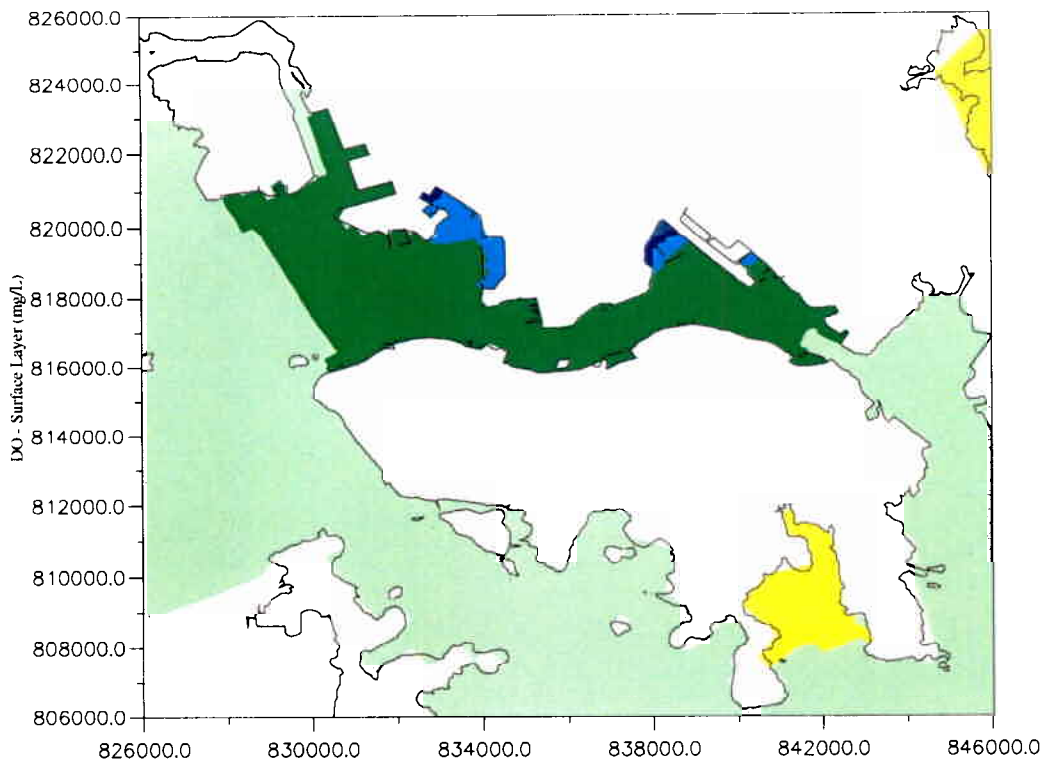


Comprehensive Feasibility Study for Revised Scheme of SEKD
 Mean Depth-Averaged Suspended Solids and E.coli – Wet Season (2002)
 (Upper: Suspended Solids; Lower: E. coli)

March 2001

Drawing No. 22936/EN/159

Ove Arup & Partners Hong Kong Ltd

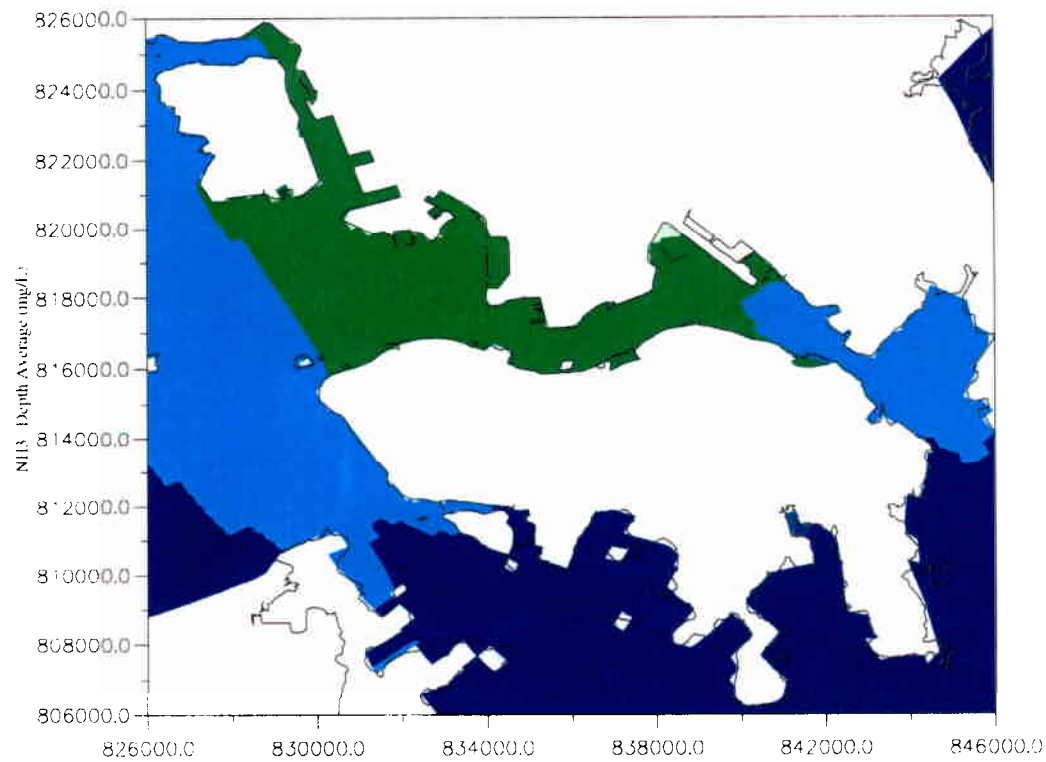
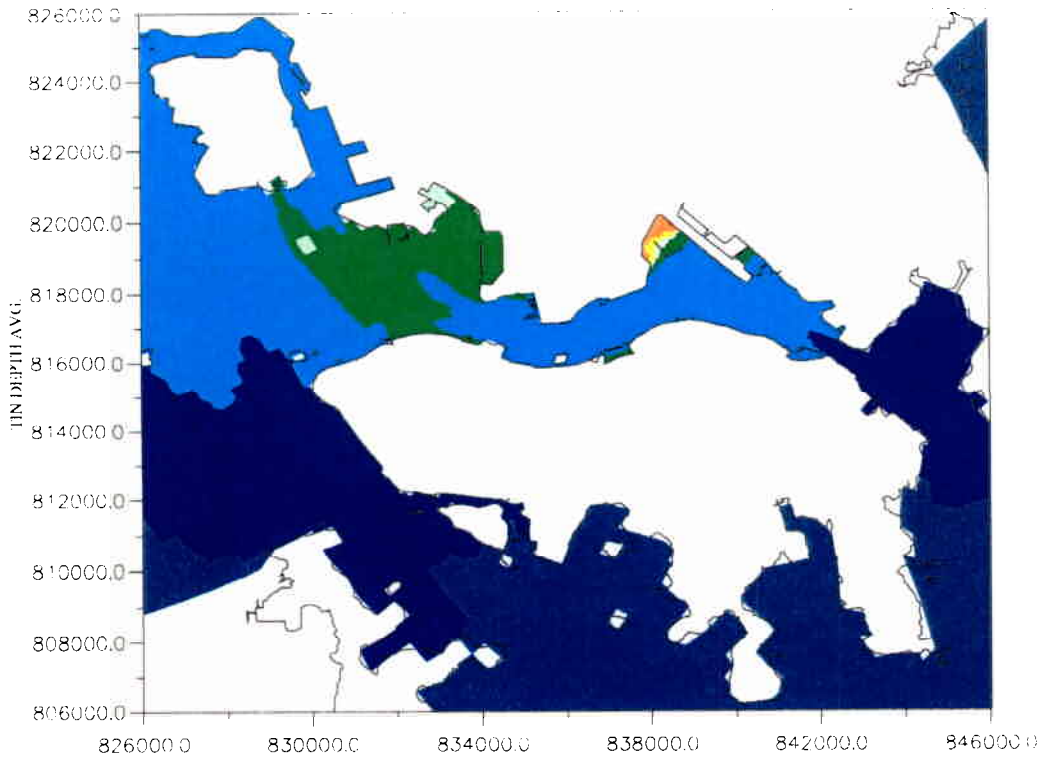


Comprehensive Feasibility Study for Revised Scheme of SEKD
 Mean Depth-Averaged & Surface DO - Dry Season (2003)
 (Upper: Surface Layer DO; Lower: Depth-Average DO)

March 2001

Drawing No. 22936/EN/162

Ove Arup & Partners Hong Kong Ltd



Comprehensive Feasibility Study for Revised Scheme of SEKD

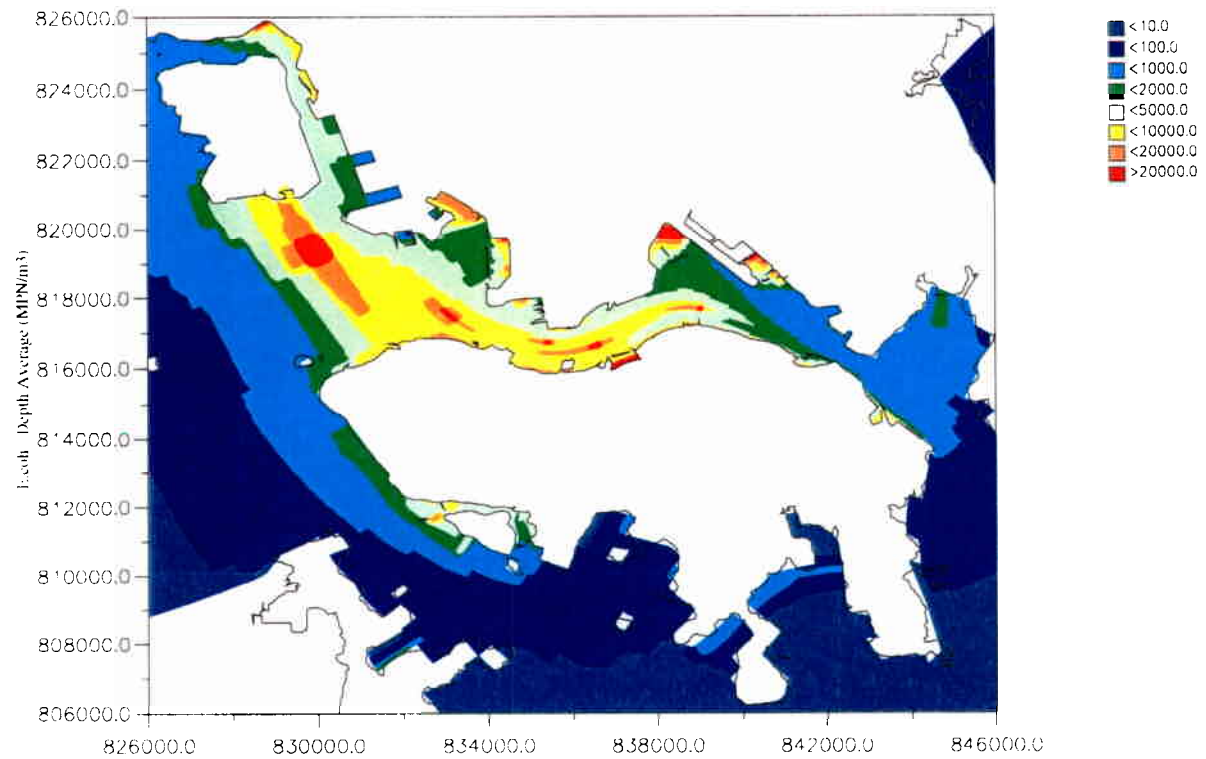
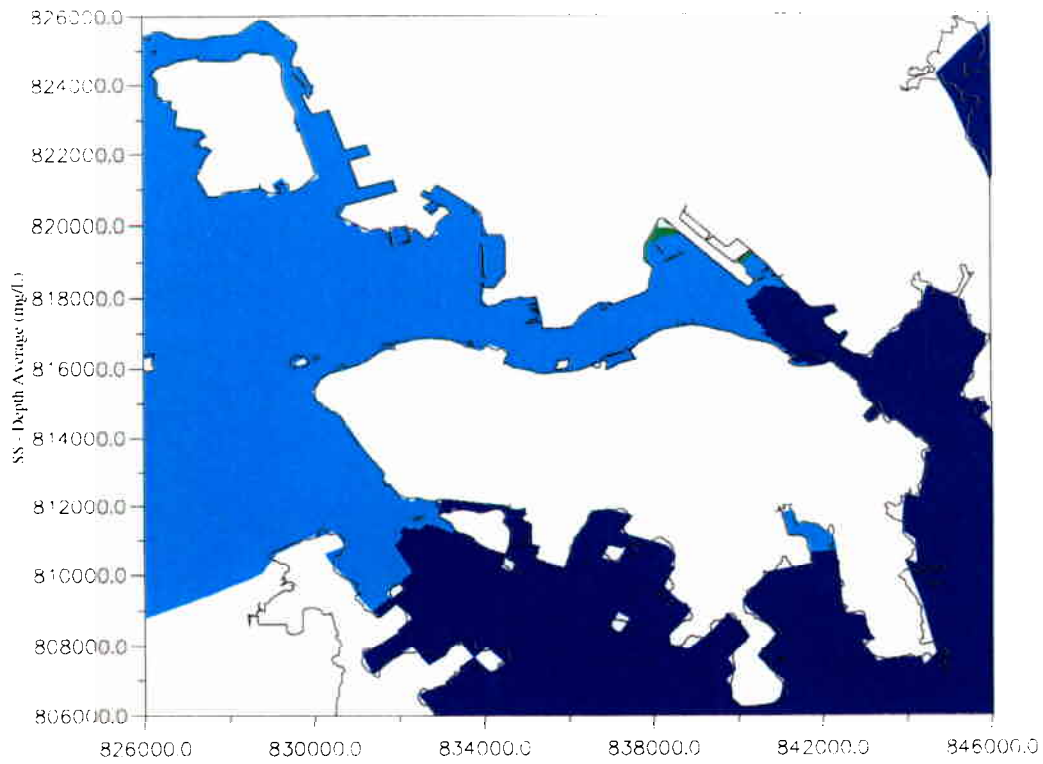
Mean Depth-Averaged TIN and UFA - Dry Season (2003)

(Upper: Total Inorganic Nitrogen; Lower: Unionised Ammonia)

March 2004

Drawing No. 22936/EN/163

Ove Arup & Partners Hong Kong Ltd

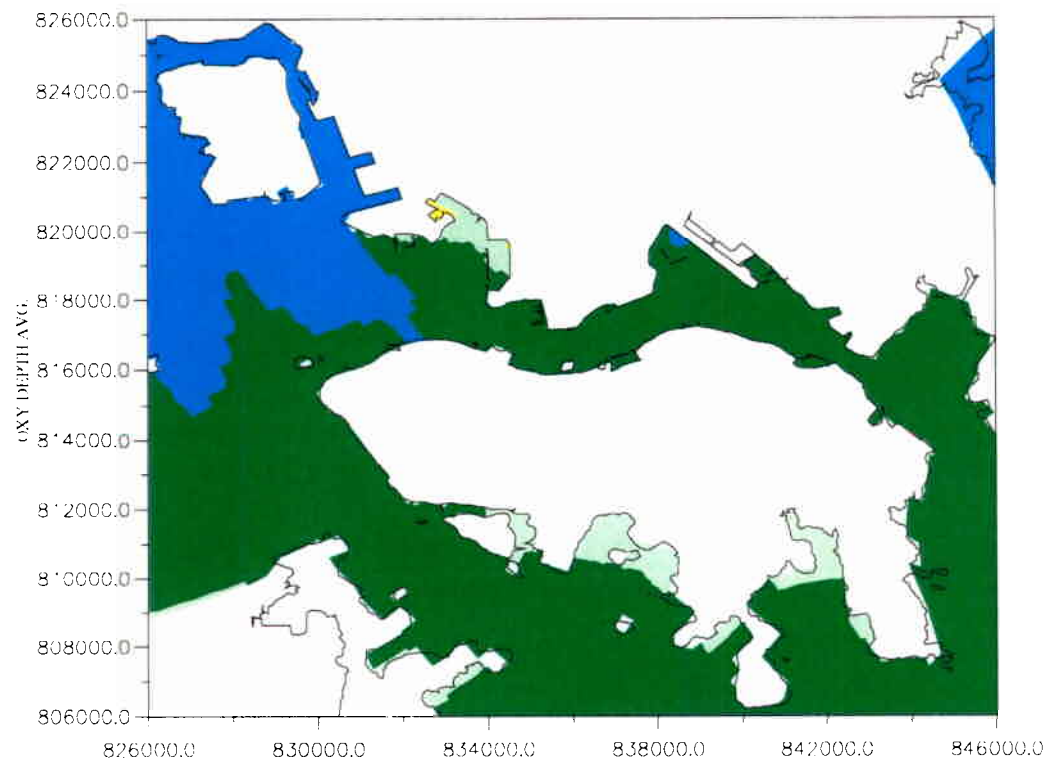
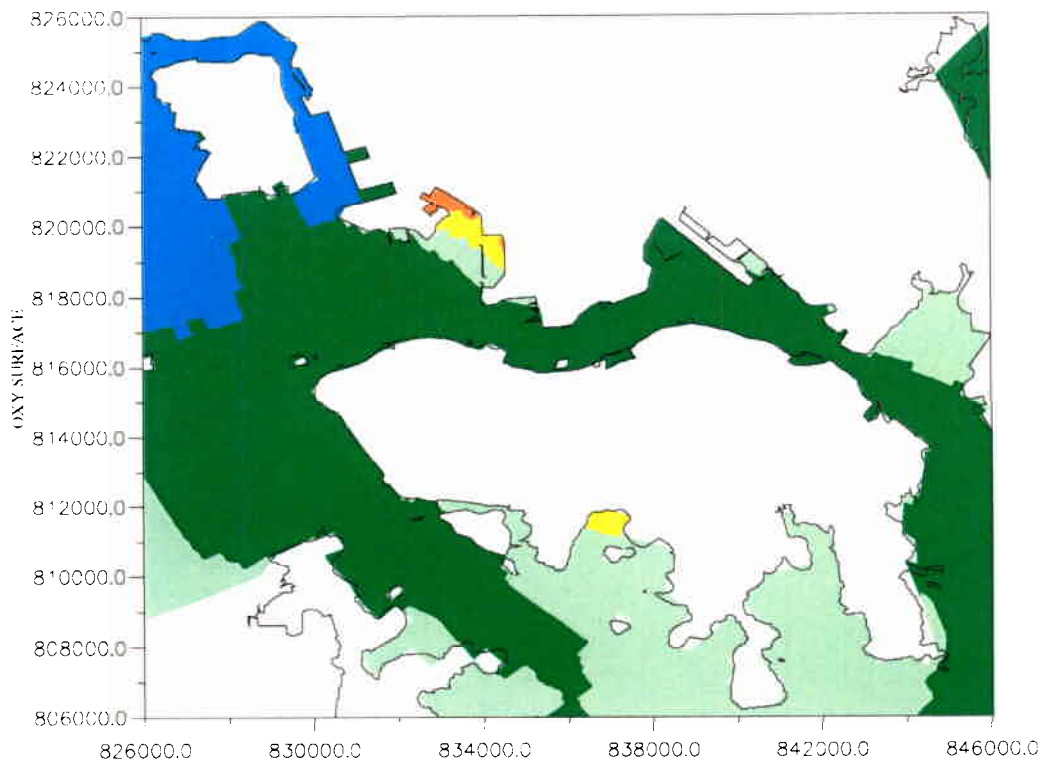


Comprehensive Feasibility Study for Revised Scheme of SEKD
 Mean Depth Averaged Suspended Solids and E. coli - Dry Season (2003)
 (Upper: Suspended Solids; Lower: E. coli)

March 2001

Drawing No. 22936/EN/164

Ove Arup & Partners Hong Kong Ltd

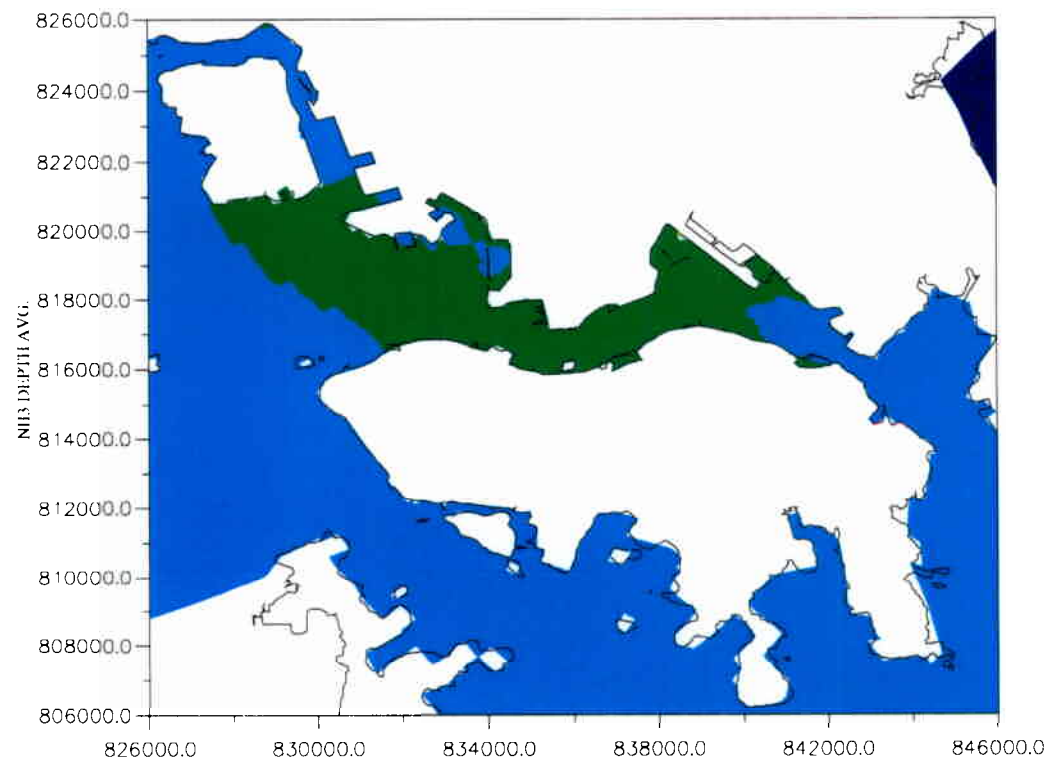
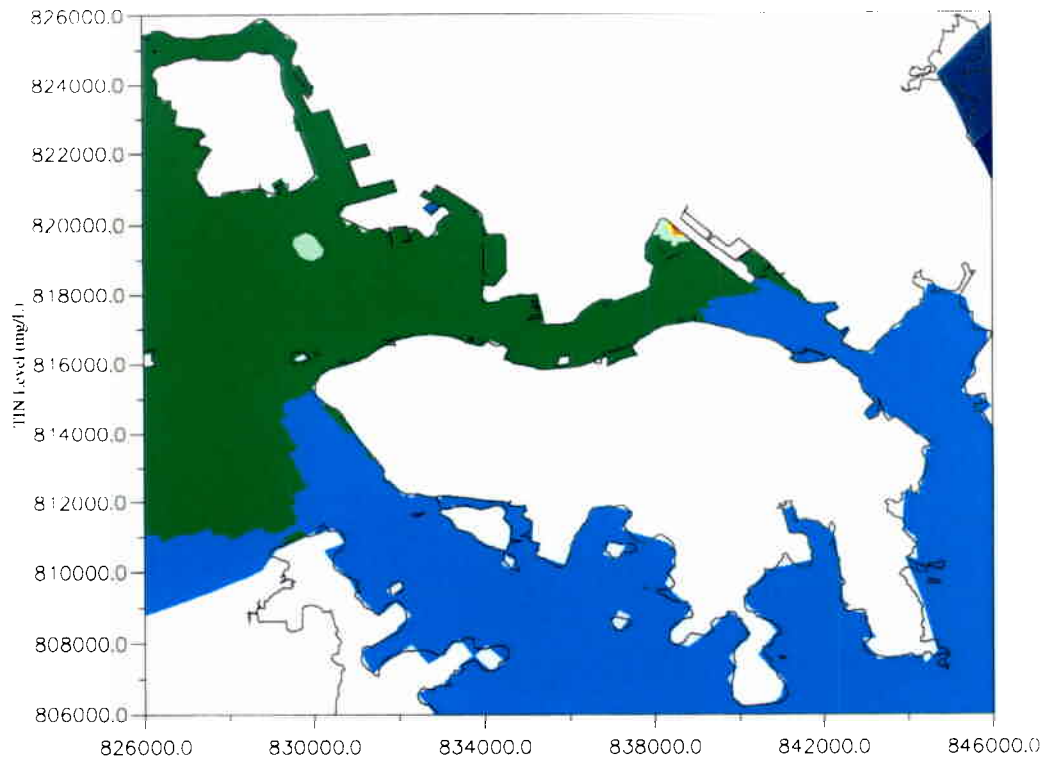


Comprehensive Feasibility Study for Revised Scheme of SEKD
 Mean Depth Averaged and Surface DO - Wet Season (2003)
 (Upper: Surface Layer DO; Lower: Depth-Average DO)

March 2003

Drawing No. 229.56/EN/165

Ove Arup & Partners Hong Kong Ltd

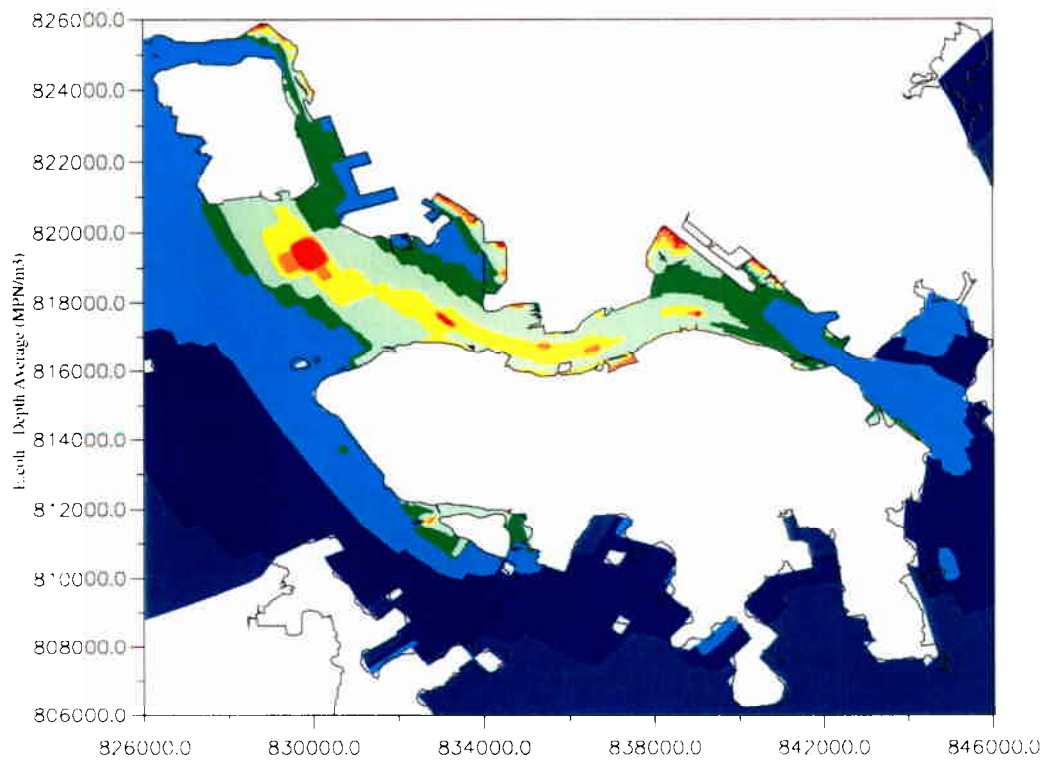
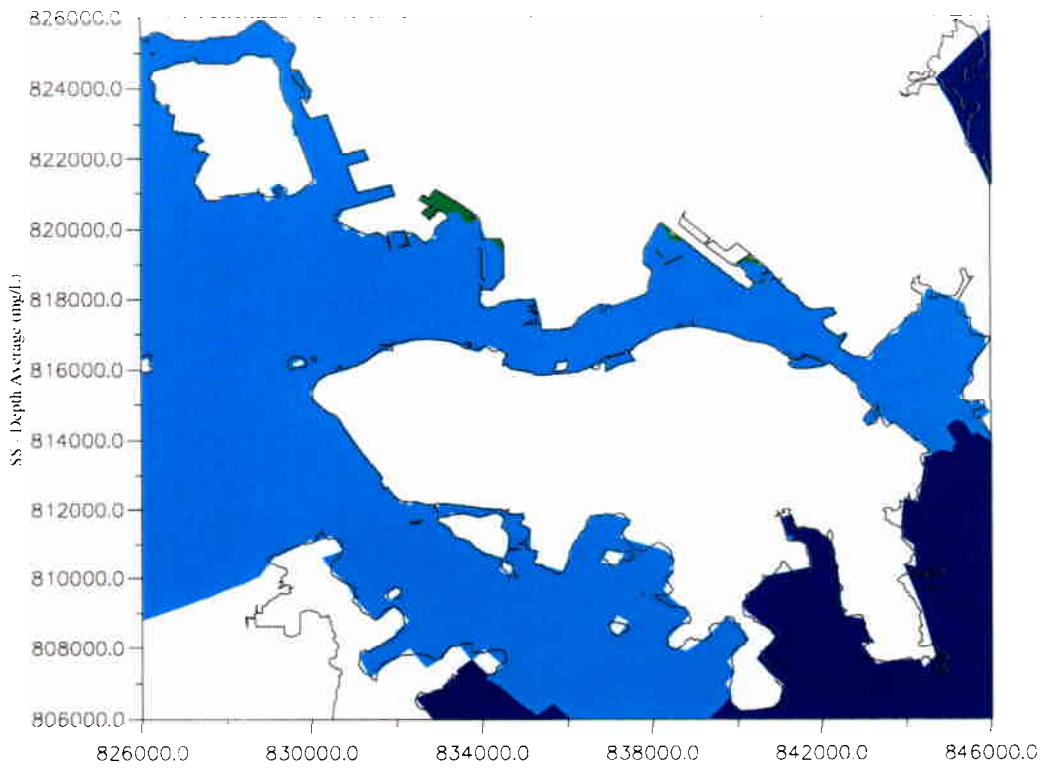


Comprehensive Feasibility Study for Revised Scheme of SEKD
 Mean Depth-Averaged TIN and UA -- Wet Season (2003)
 (Upper: Total Inorganic Nitrogen; Lower: Unionised Ammonia)

March 2001

Drawing No. 22936/EN/166

Ove Arup & Partners Hong Kong Ltd

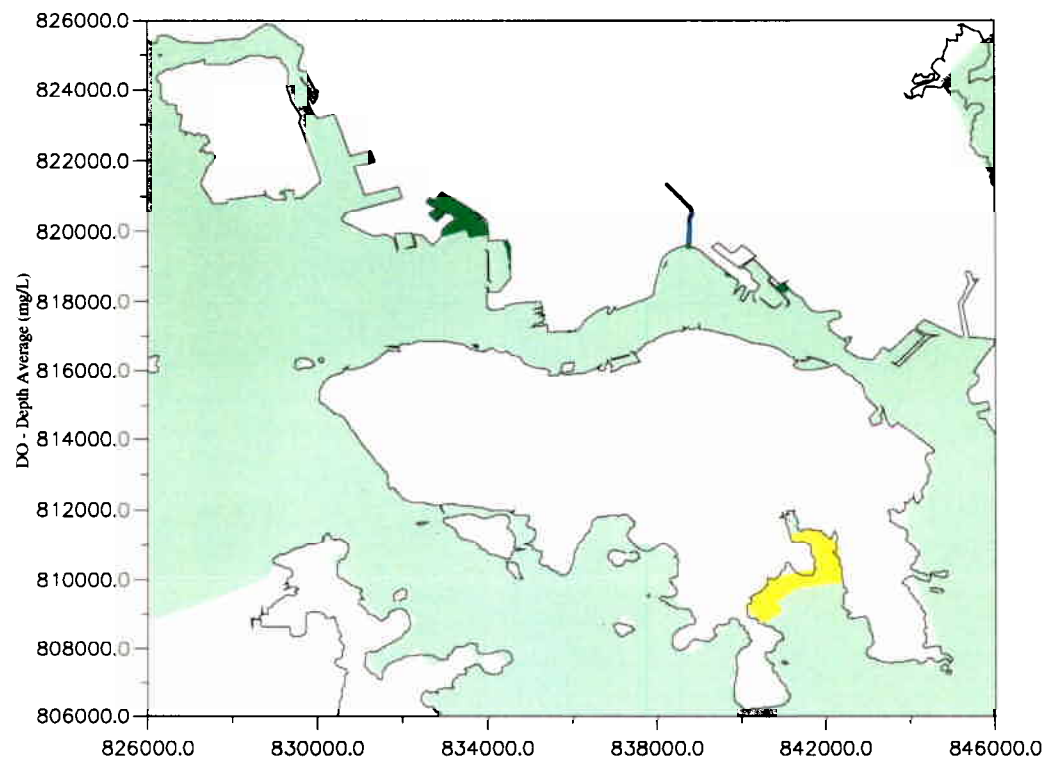
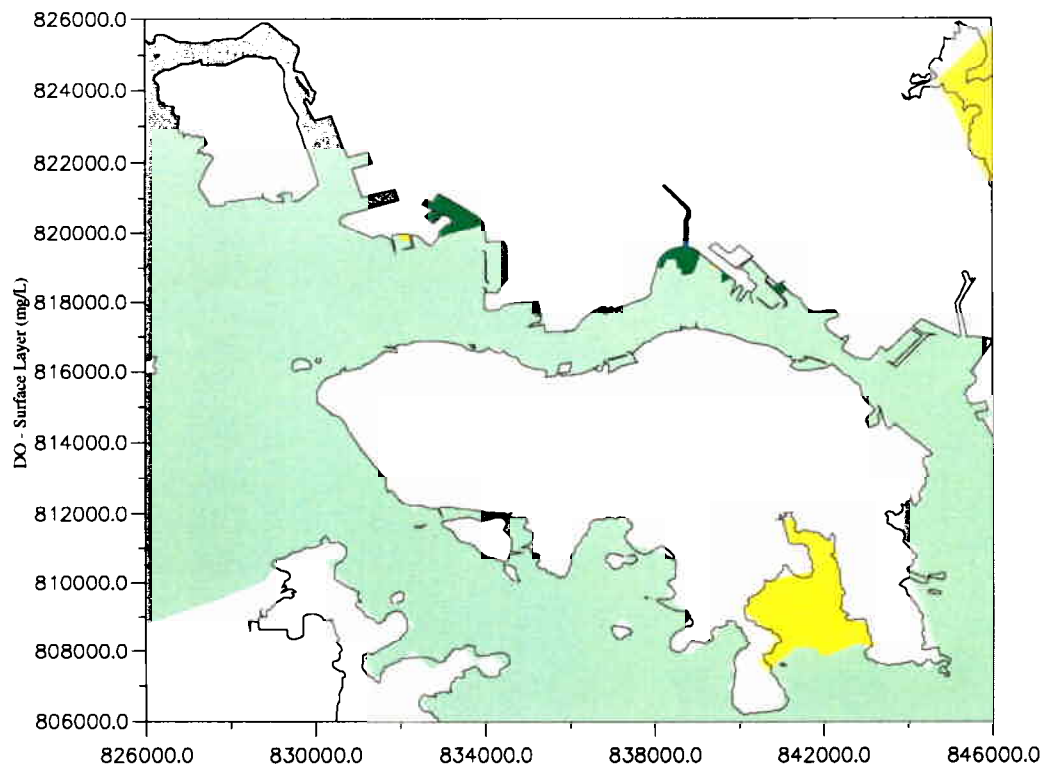


Comprehensive Feasibility Study for Revised Scheme of SEKD
 Near Depth-Averaged Suspended Solids and E.coli - Wet Season (2003)
 (Upper: Suspended Solids; Lower: E. coli)

March 2001

Drawing No. 22936/EN/167

Ove Arup & Partners Hong Kong Ltd

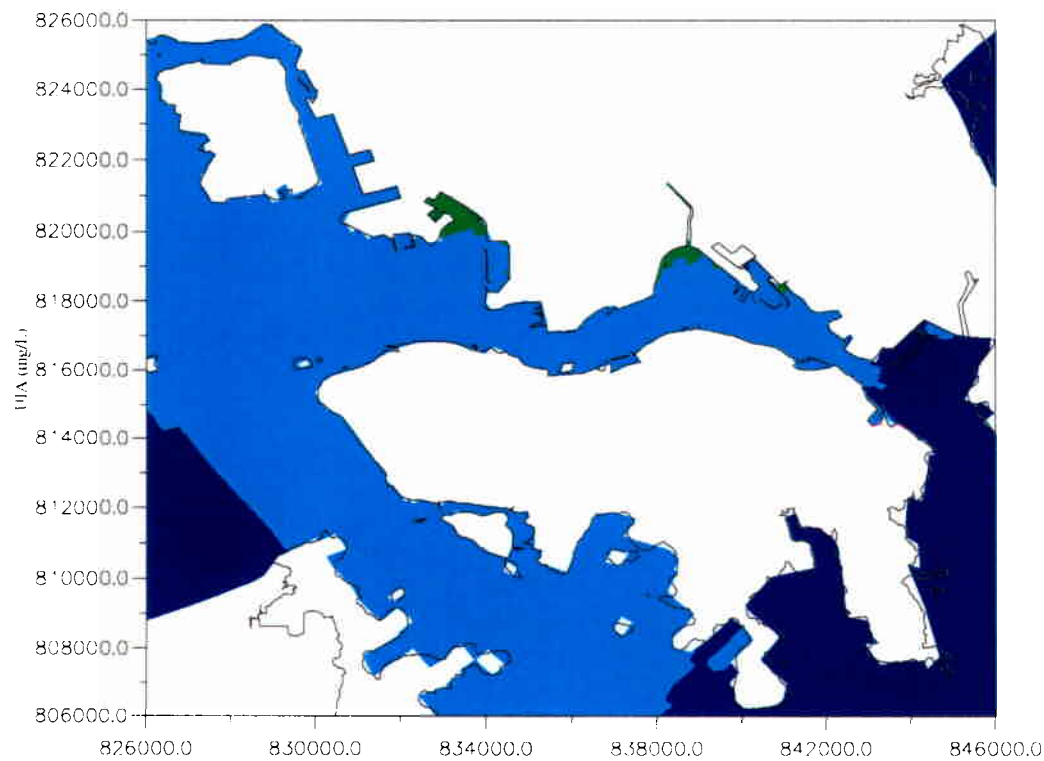
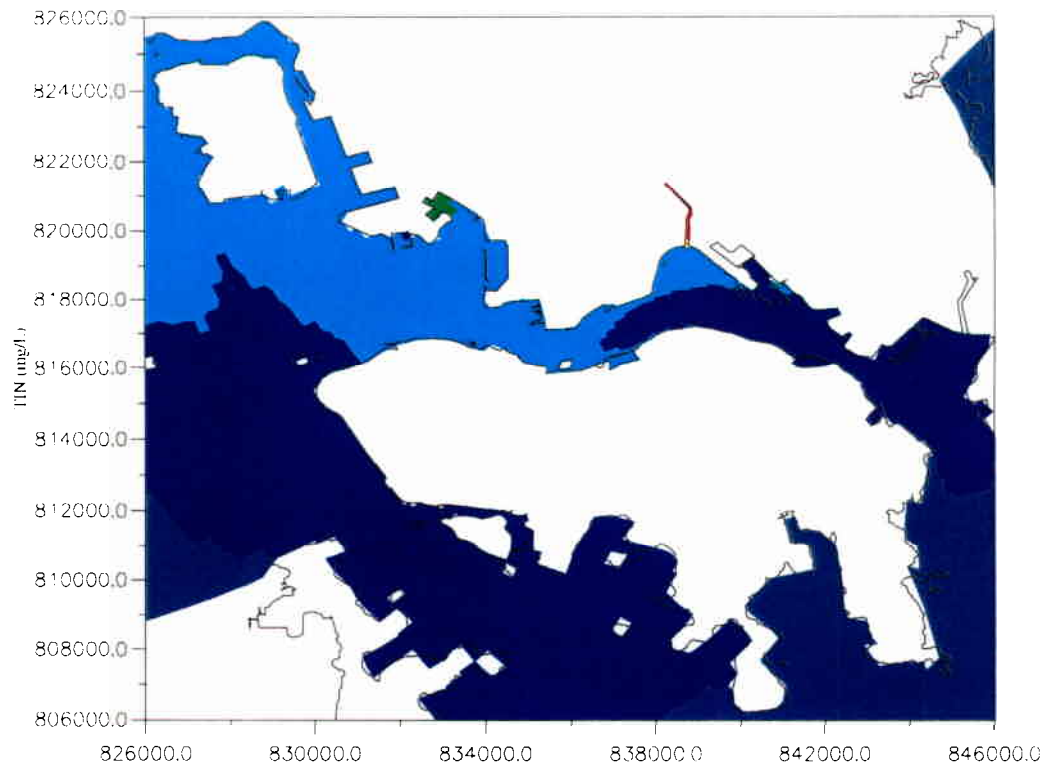


Comprehensive Feasibility Study for Revised Scheme of SEKD
 Mean Depth Average and Surface DO – Dry Season (2016 with SEKD)
 (Upper: Surface Layer DO; Lower: Depth Average DO)

March 2001

Drawing No. 22936/EN/170

Ove Arup & Partners Hong Kong Ltd

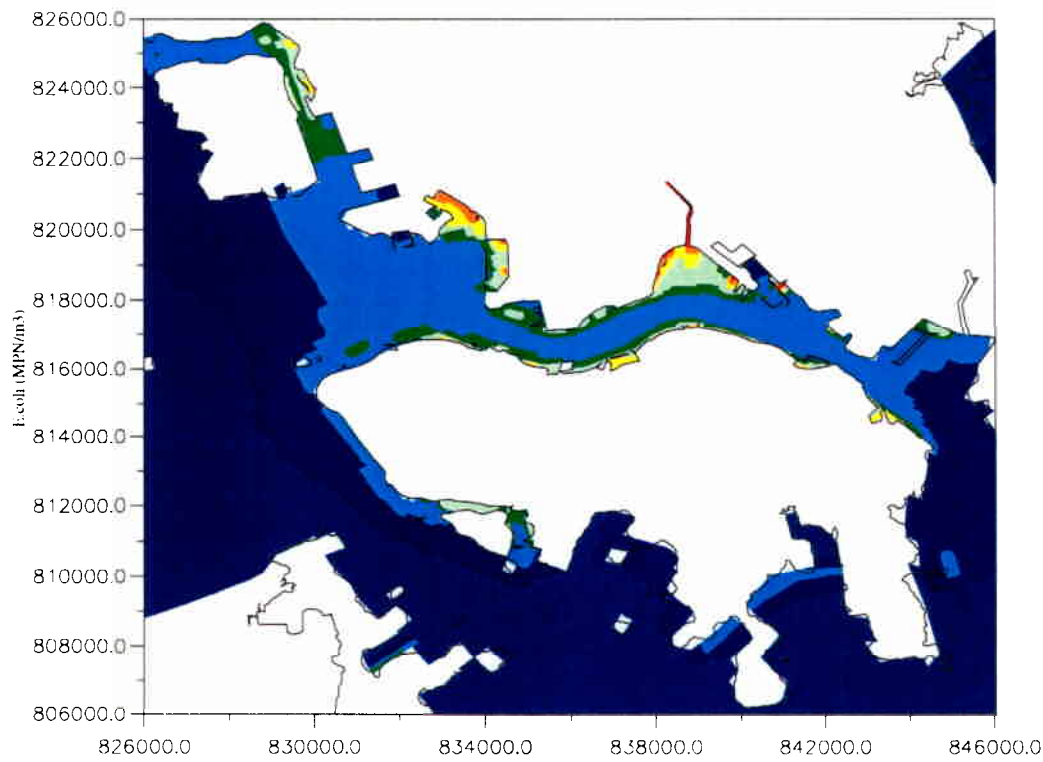
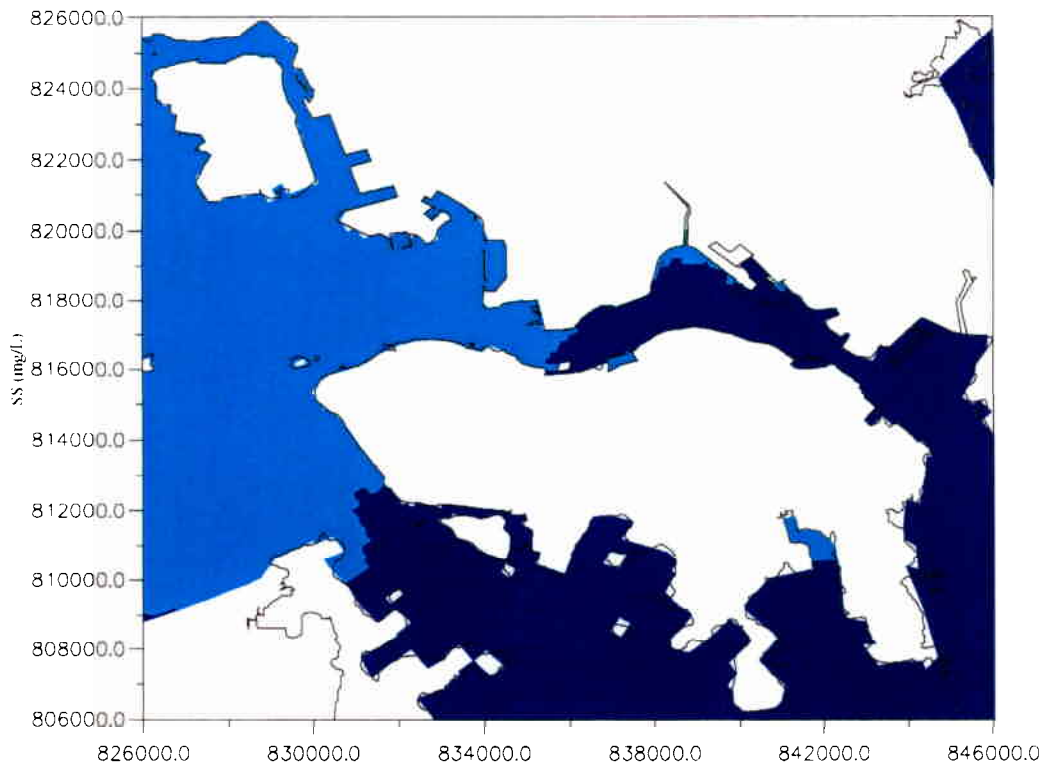


Comprehensive Feasibility Study for Revised Scheme of SEKD
 Death Average TIN & UIA Conc – Dry Season (2016 with SEKD)
 (Upper: Total Inorganic Nitrogen; Lower: Unionised Ammonia)

March 2001

Drawing No. 229.36/EN/171

Ove Arup & Partners Hong Kong Ltd

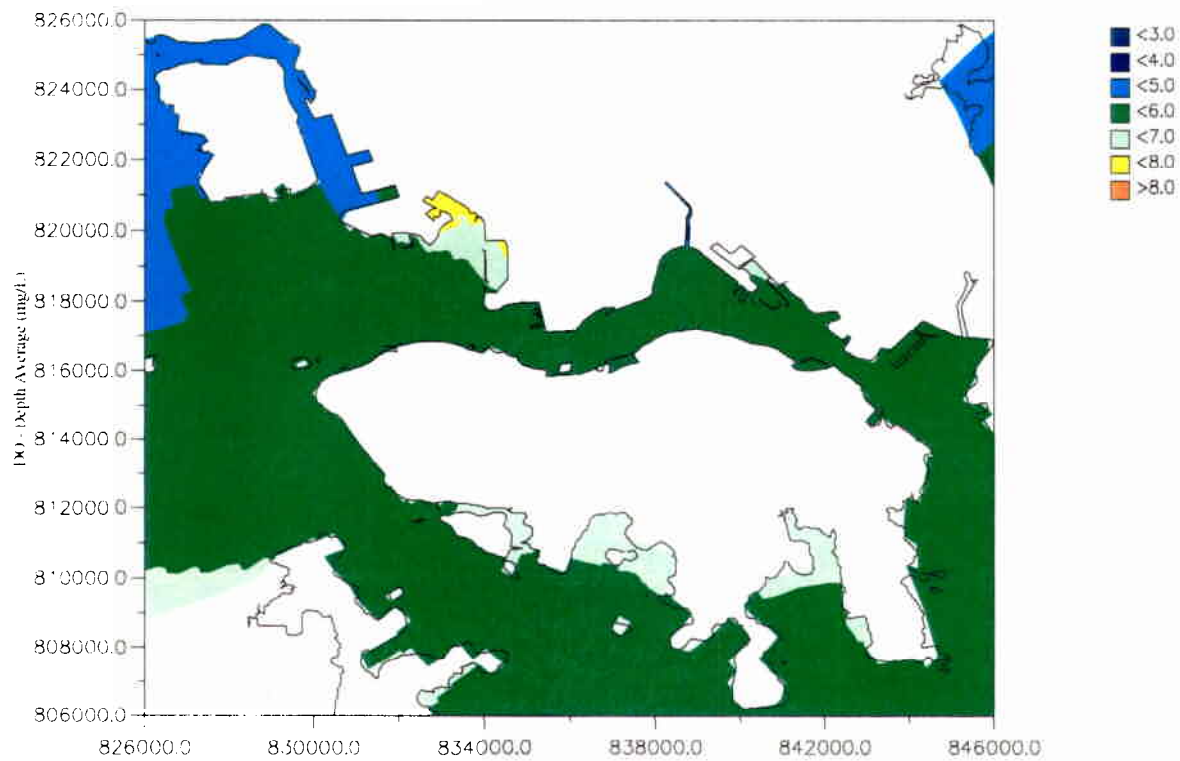
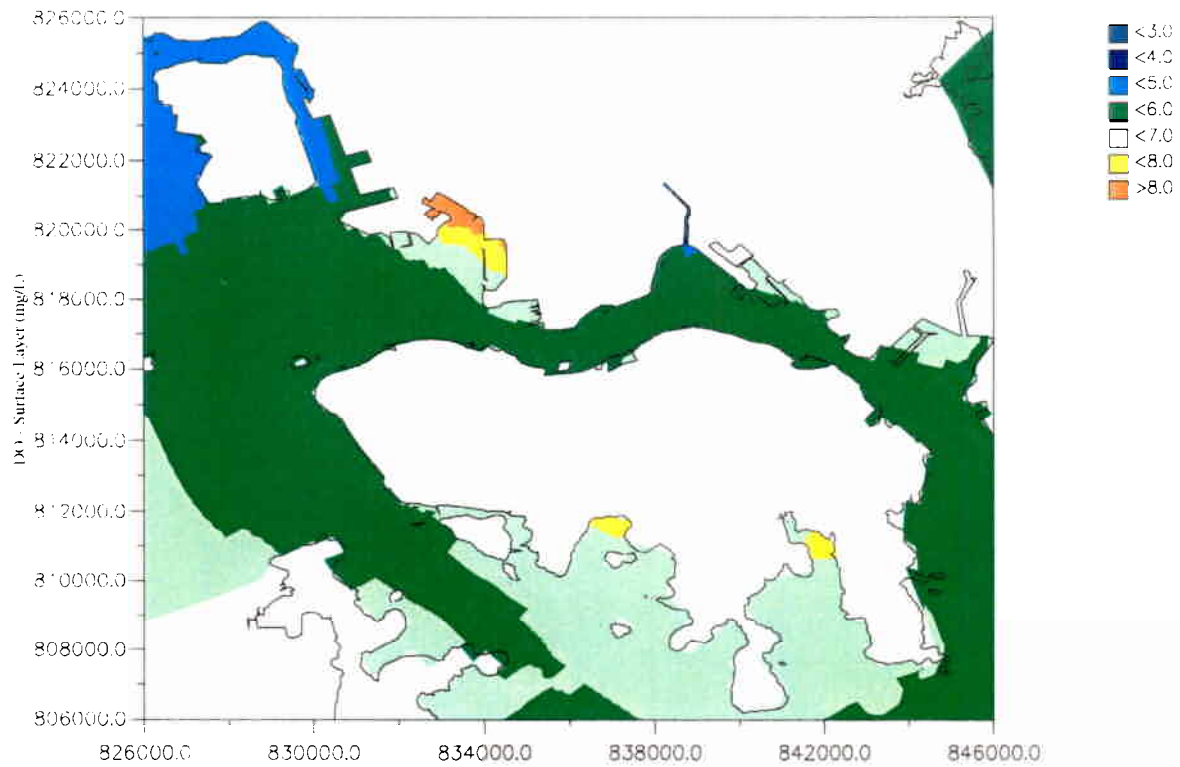


Comprehensive Feasibility Study for Revised Scheme of SEKD
 Depth Average SS & E. coli Conc – Dry Season (2016 with SEKD)
 (Upper: Suspended Solids; Lower: E. coli)

March 2001

Drawing No. 22936/EN/172

Ove Arup & Partners Hong Kong Ltd

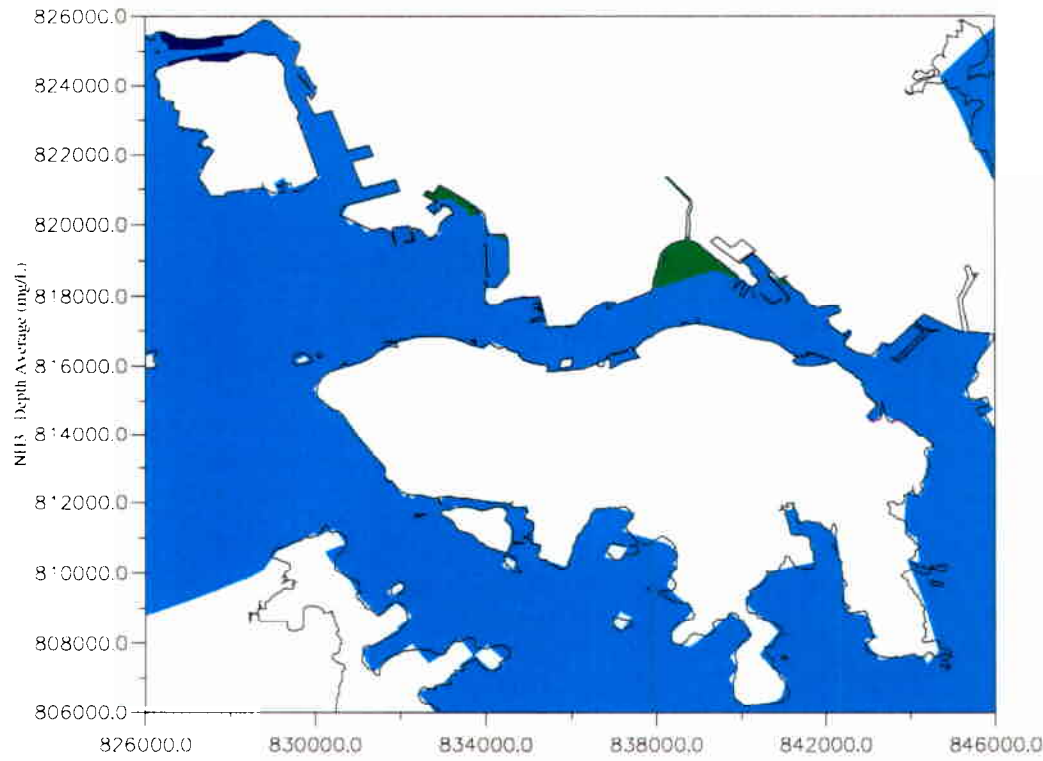
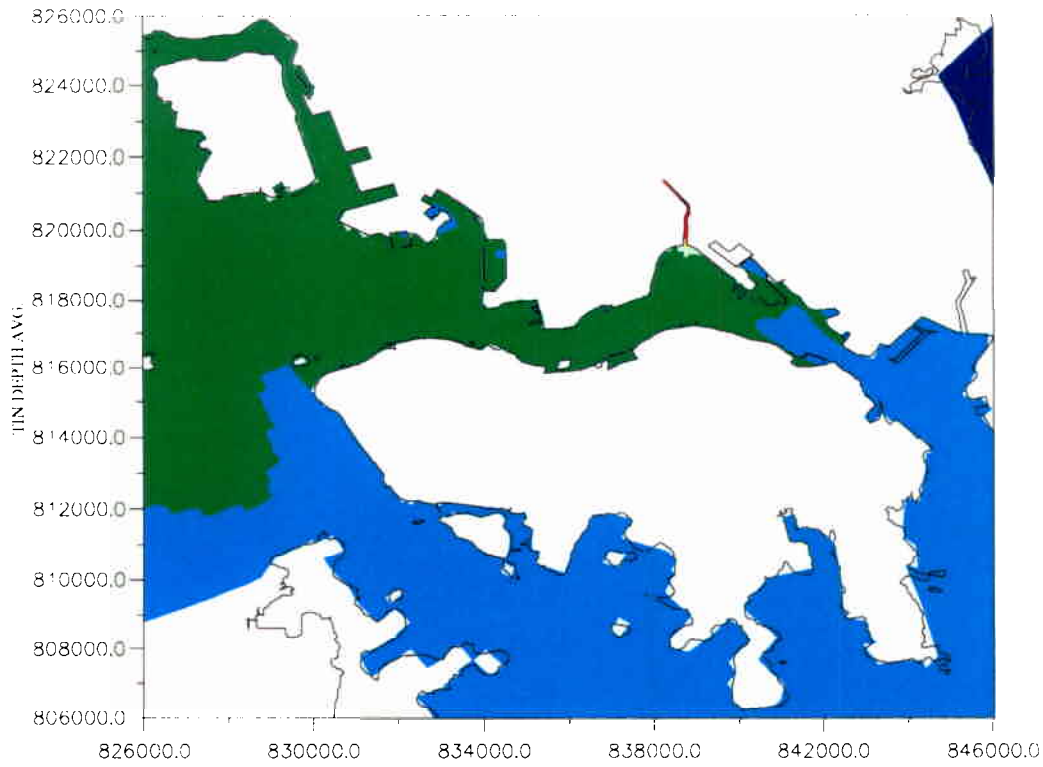


Comprehensive Feasibility Study for Revised Scheme of SEKD
 Mean Depth-Averaged and Surface DO - Wet Season (2016 with SEKD)
 (Upper: Surface Layer DO; Lower: Depth-Average DO)

March 2001

Drawing No. 22936/EN/173

Ove Arup & Partners Hong Kong Ltd

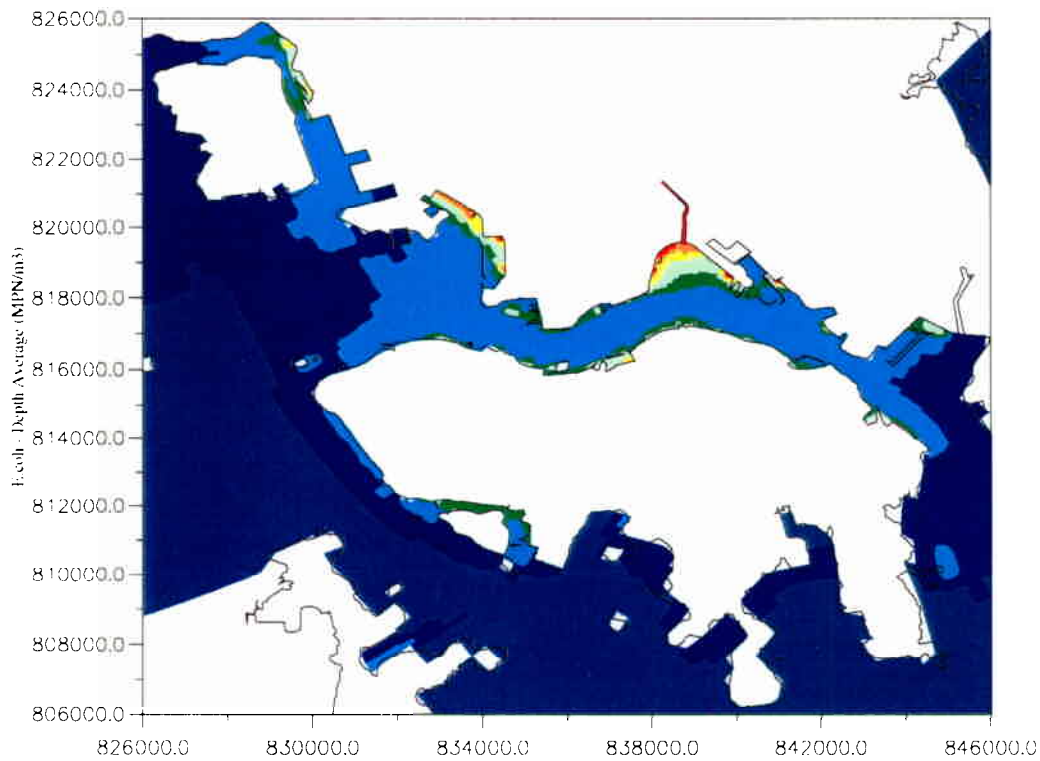
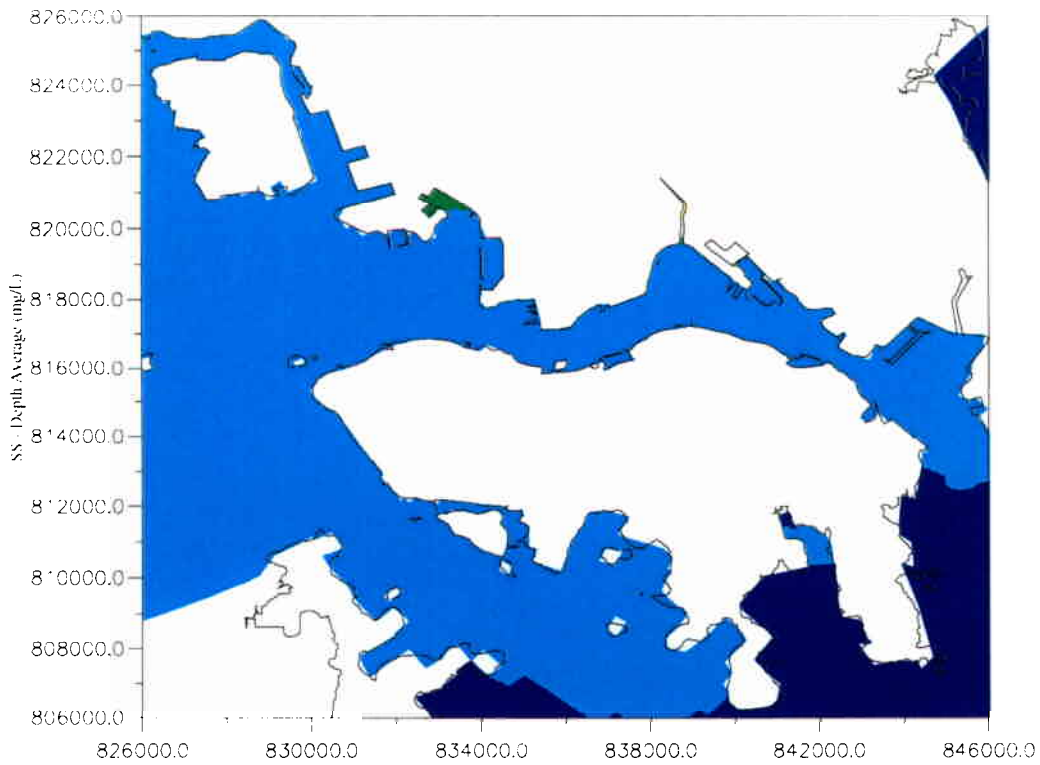


Comprehensive Feasibility Study for Revised Scheme of SEKD
 Mean Depth-Averaged TIN and UIA – Wet Season (2016 with SEKD)
 (Upper: Total Inorganic Nitrogen; Lower: Unionised Ammonia)

March 2001

Drawing No. 22936/EN/174

Ove Arup & Partners Hong Kong Ltd



Comprehensive Feasibility Study for Revised Scheme of SEKD

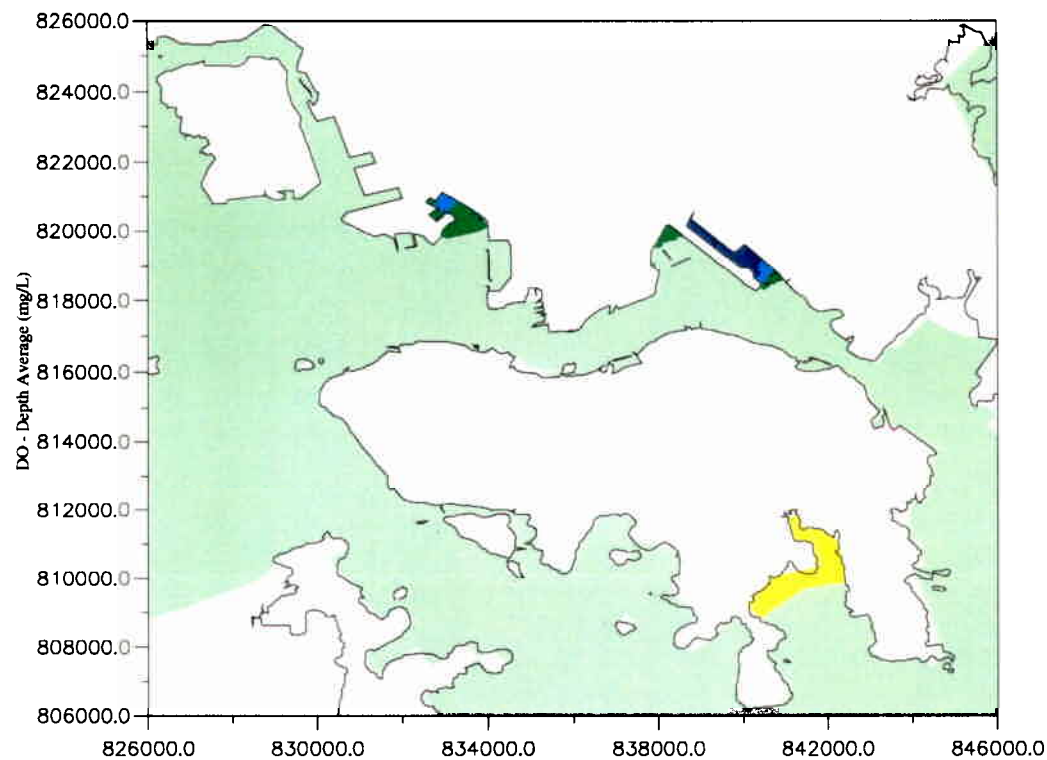
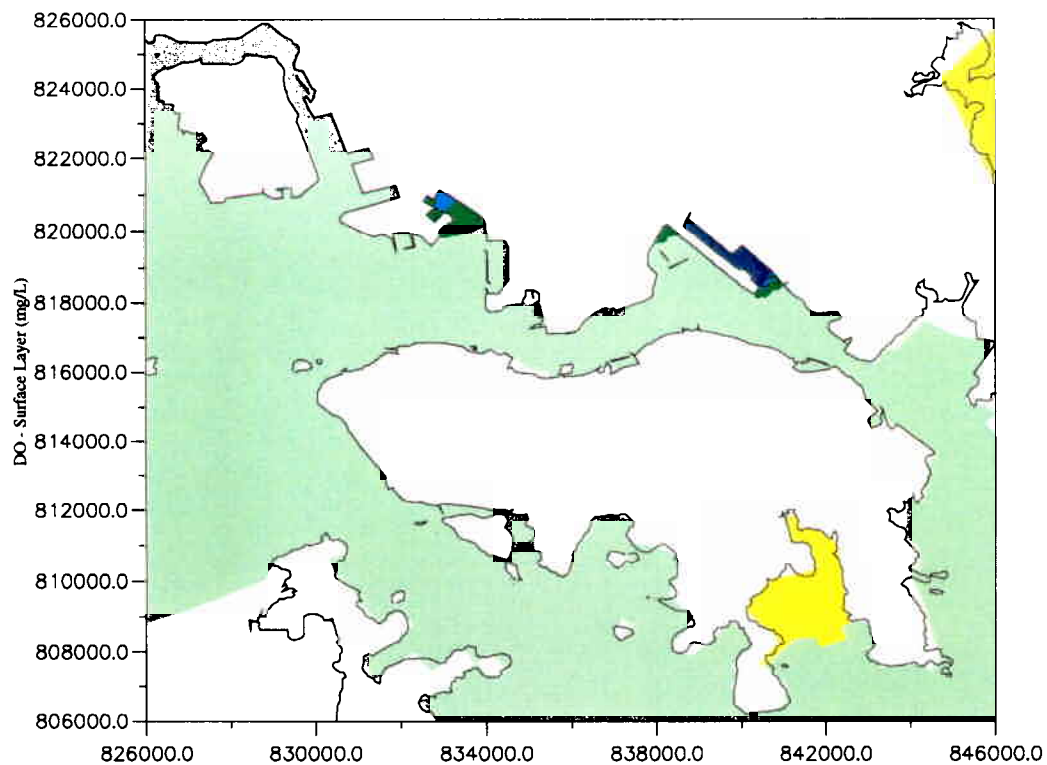
March 2001

Mean Depth-Averaged Suspended Solids & E.coli – Wet Season (2016 with SEKD)

(Upper: Suspended Solids; Lower: E. coli)

Drawing No. 22936/EN/175

Ove Arup & Partners Hong Kong Ltd

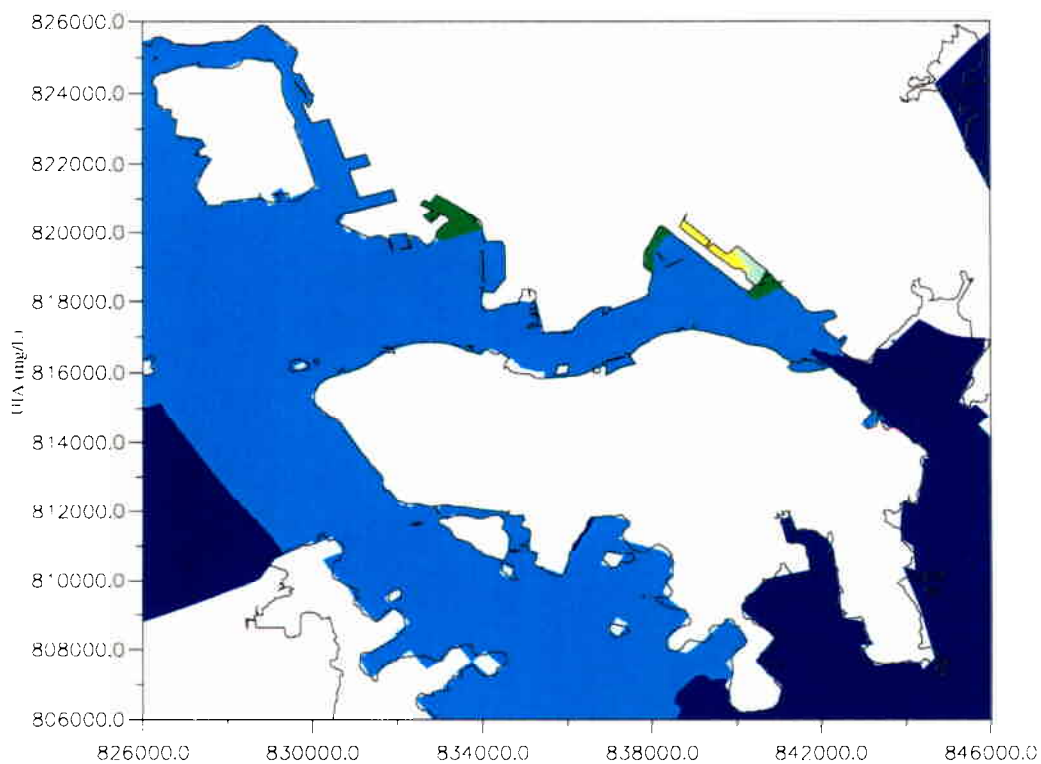
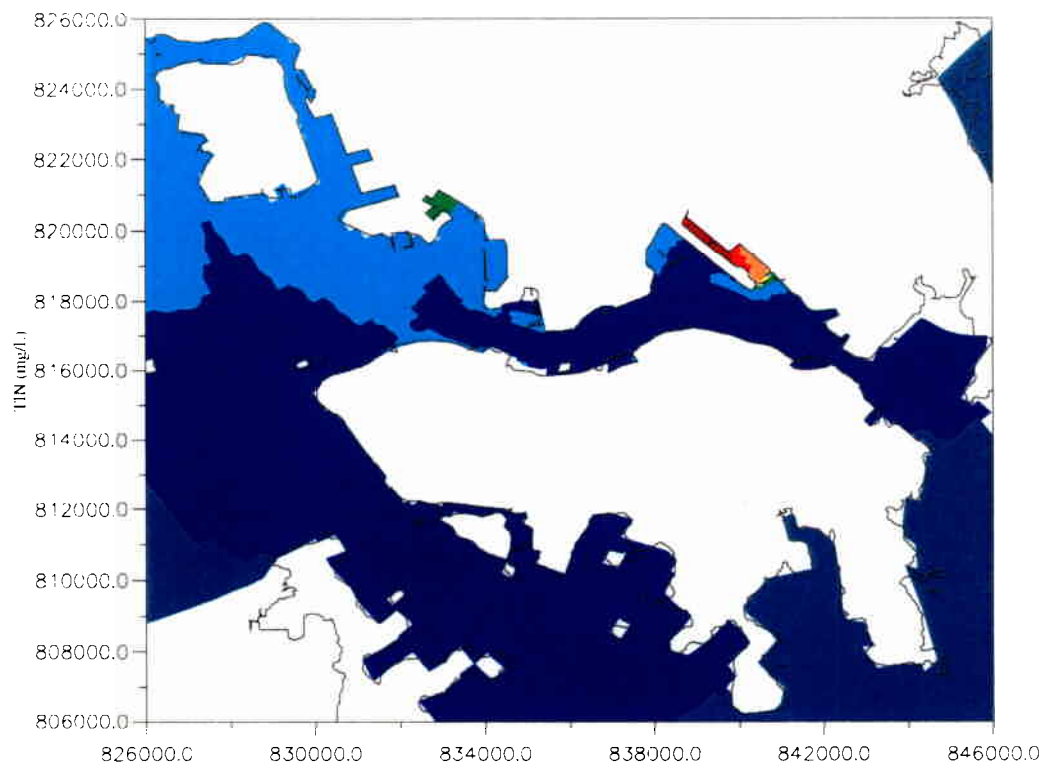


Comprehensive Feasibility Study for Revised Scheme of SEKD
 Mean Depth Average and Surface DO – Dry Season (2016 without SEKD)
 (Upper: Surface Layer DO; Lower: Depth-Average DO)

March 2001

Drawing No. 22936/EN/178

Ove Arup & Partners Hong Kong Ltd

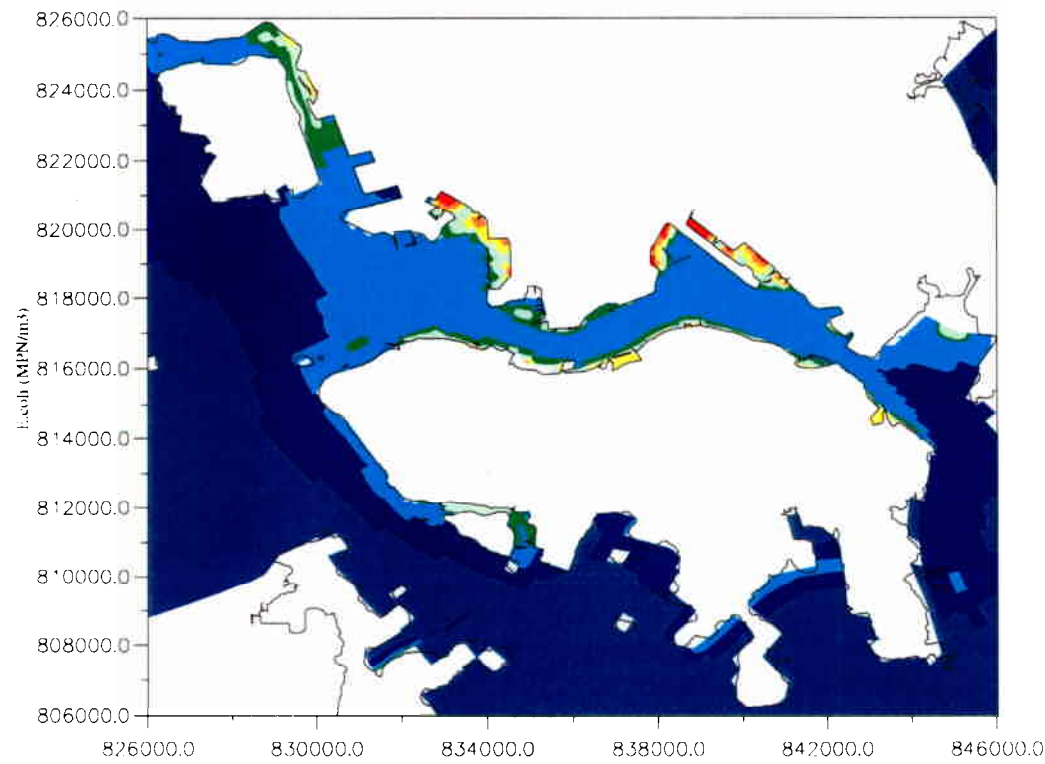
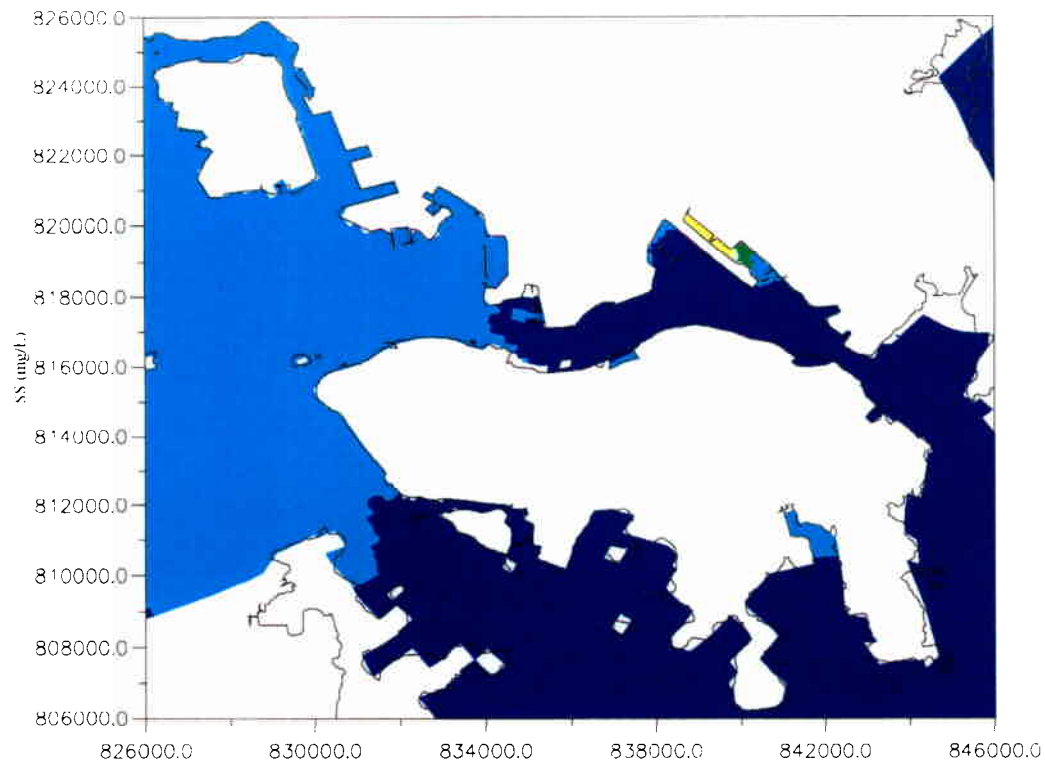


Comprehensive Feasibility Study for Revised Scheme of SEKD
 Mean Depth-Averaged TIN & UA -Dry Season (2016 without SEKD)
 (Upper: Total Inorganic Nitrogen; Lower: Unionised Ammonia)

March 2001

Drawing No. 22936/EN/179

Ove Arup & Partners Hong Kong Ltd

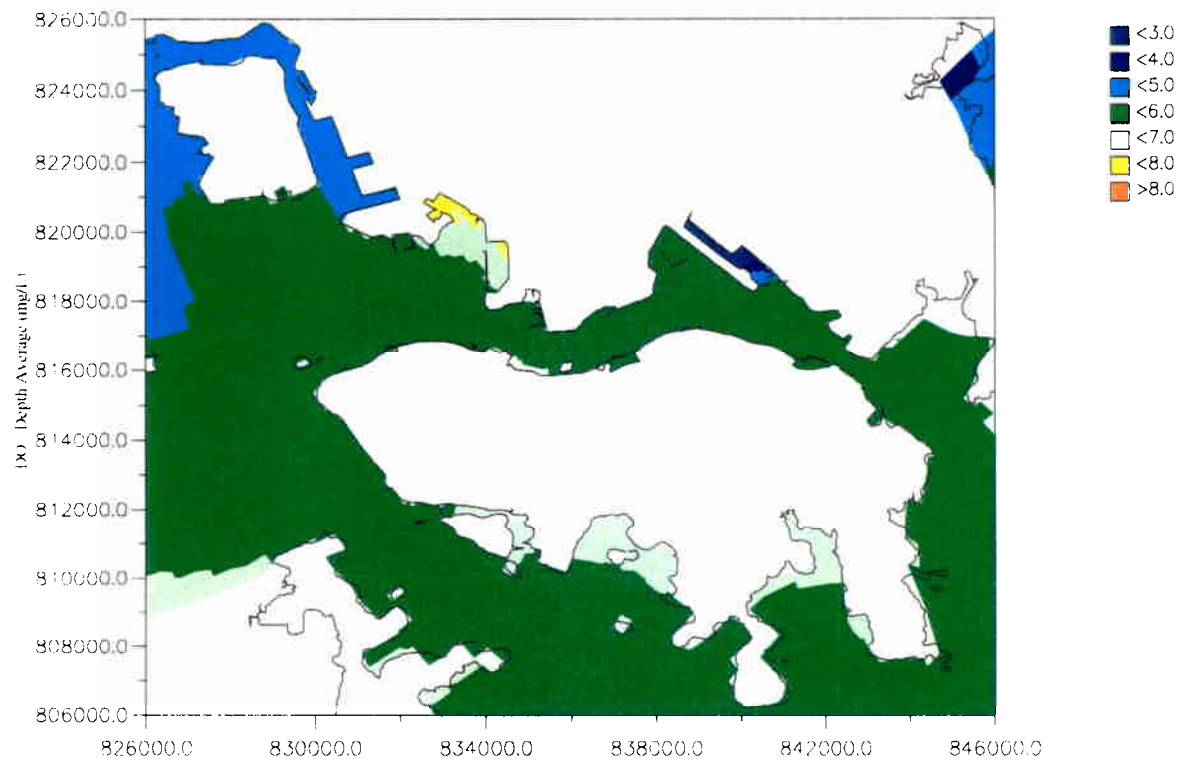
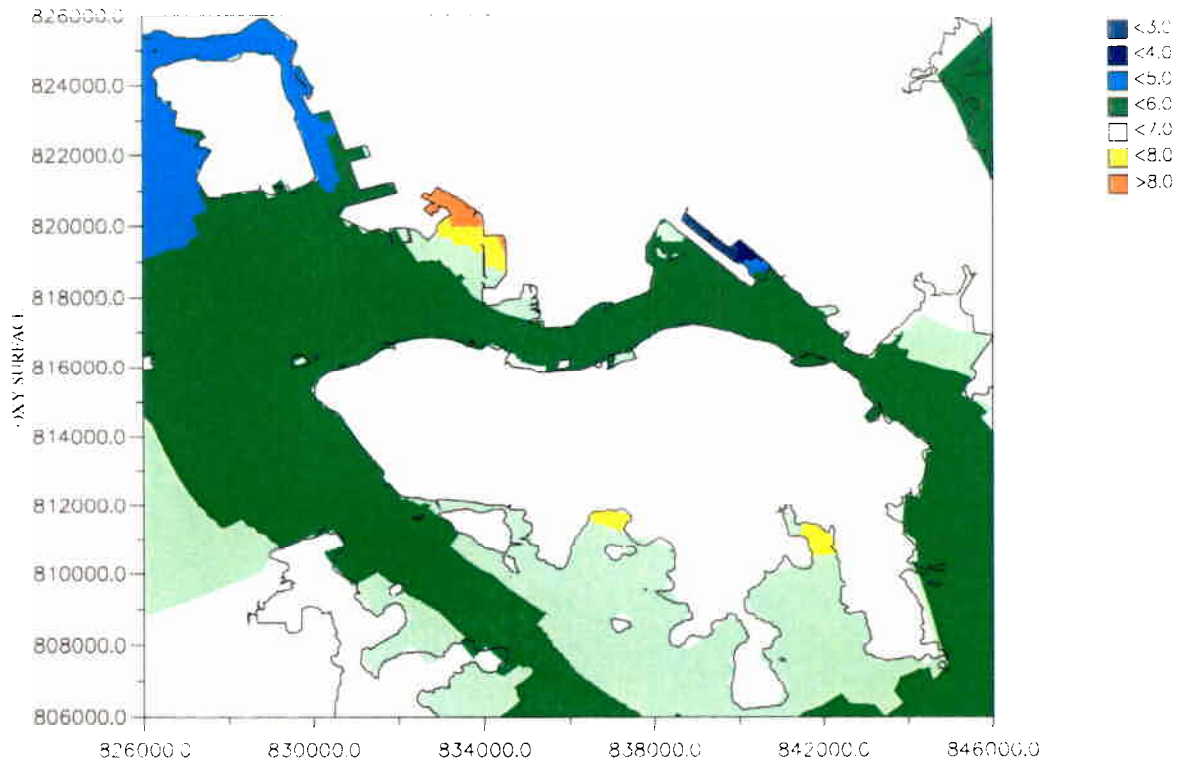


Comprehensive Feasibility Study for Revised Scheme of SEKD
 Mean Depth-Averaged SS & E. coli - Dry Season (2016 without SEKD)
 (Upper: Suspended Solids; Lower: E. coli)

March 2001

Drawing No. 22936/EN/180

Ove Arup & Partners Hong Kong Ltd

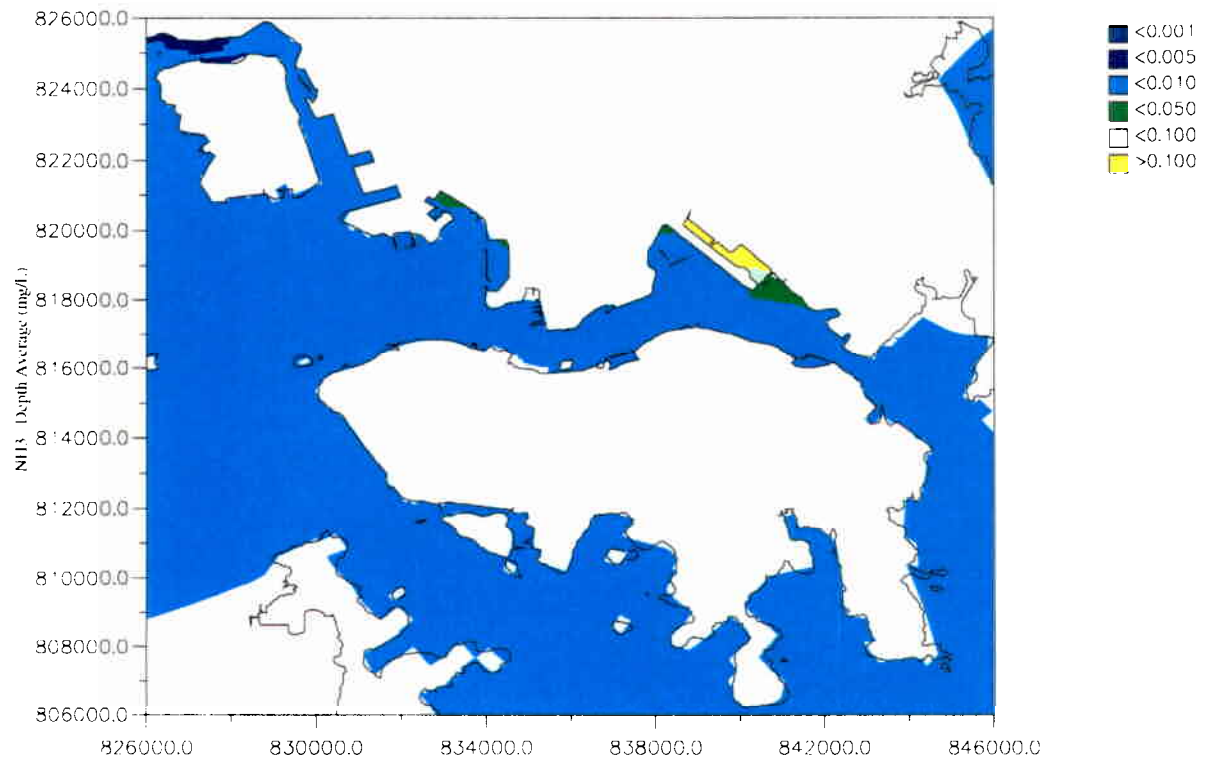
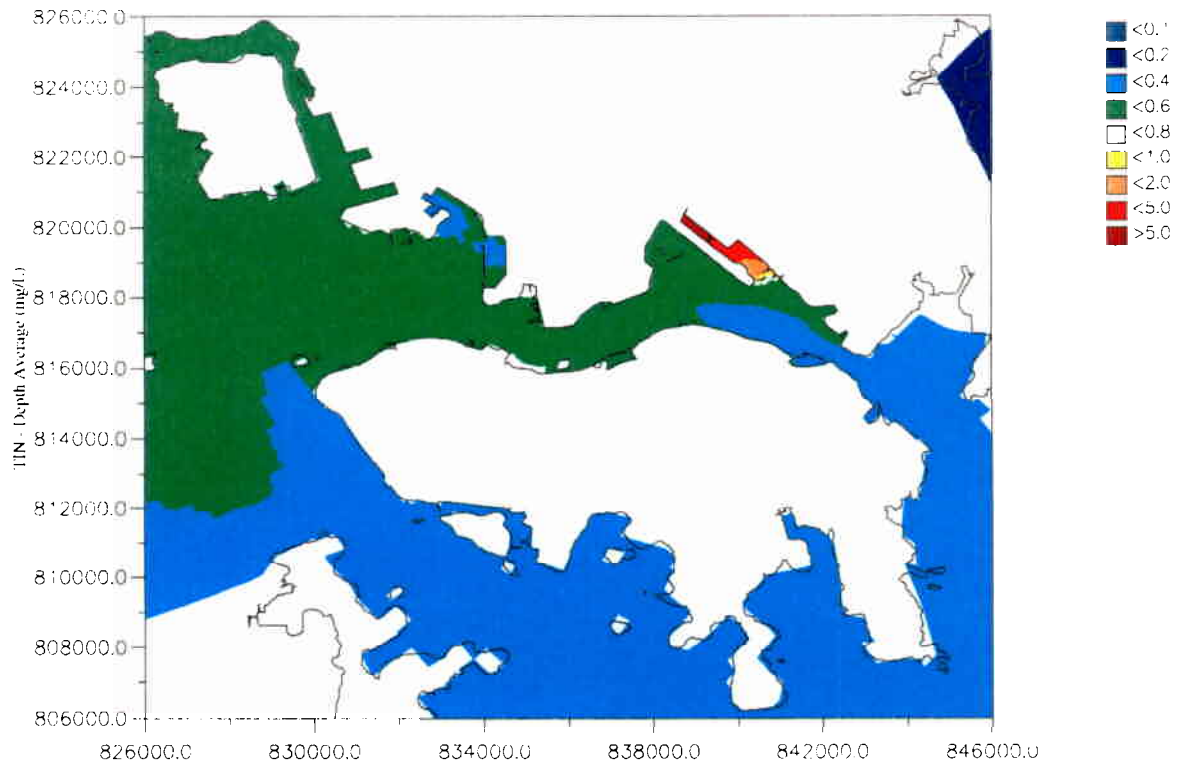


Comprehensive Feasibility Study for Revised Scheme of SEKD
 Mean Depth Averaged and Surface DO - Wet Season (2016 without SEKD)
 (Upper: Surface Layer DO; Lower: Depth-Average DO)

March 2001

Drawing No. 22936/EN/181

Ove Arup & Partners Hong Kong Ltd

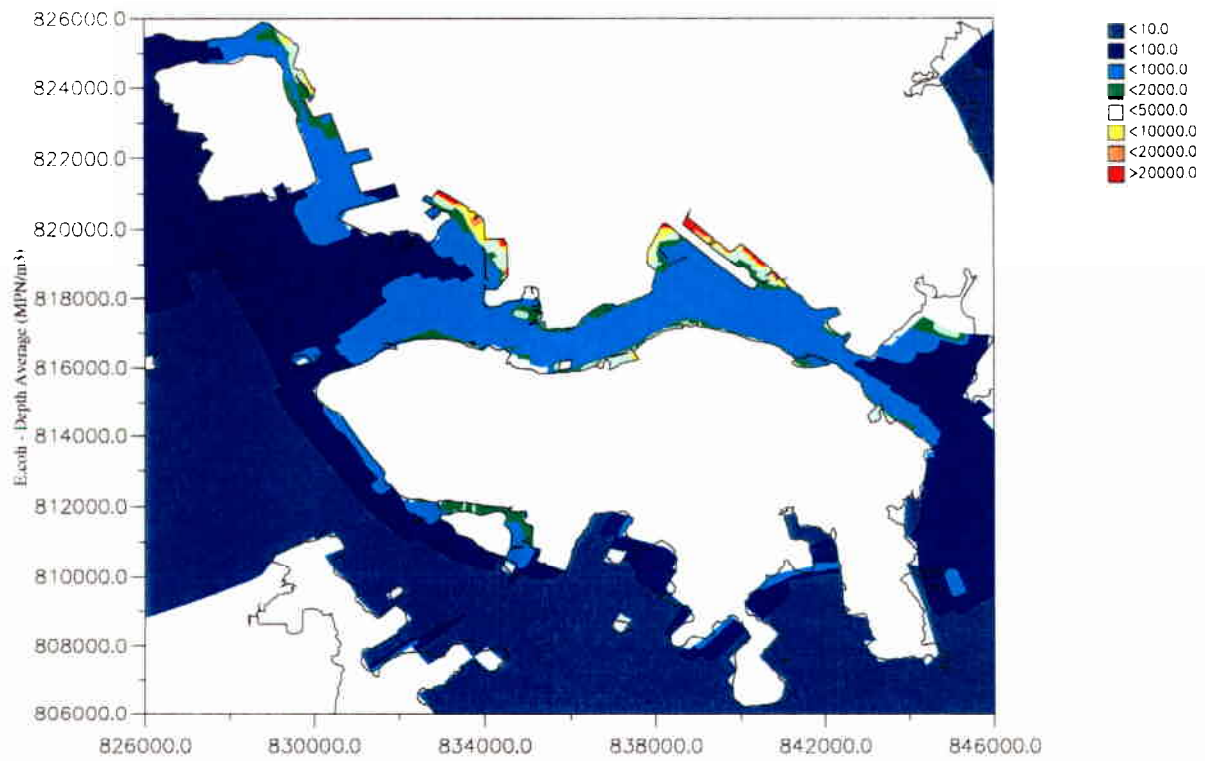
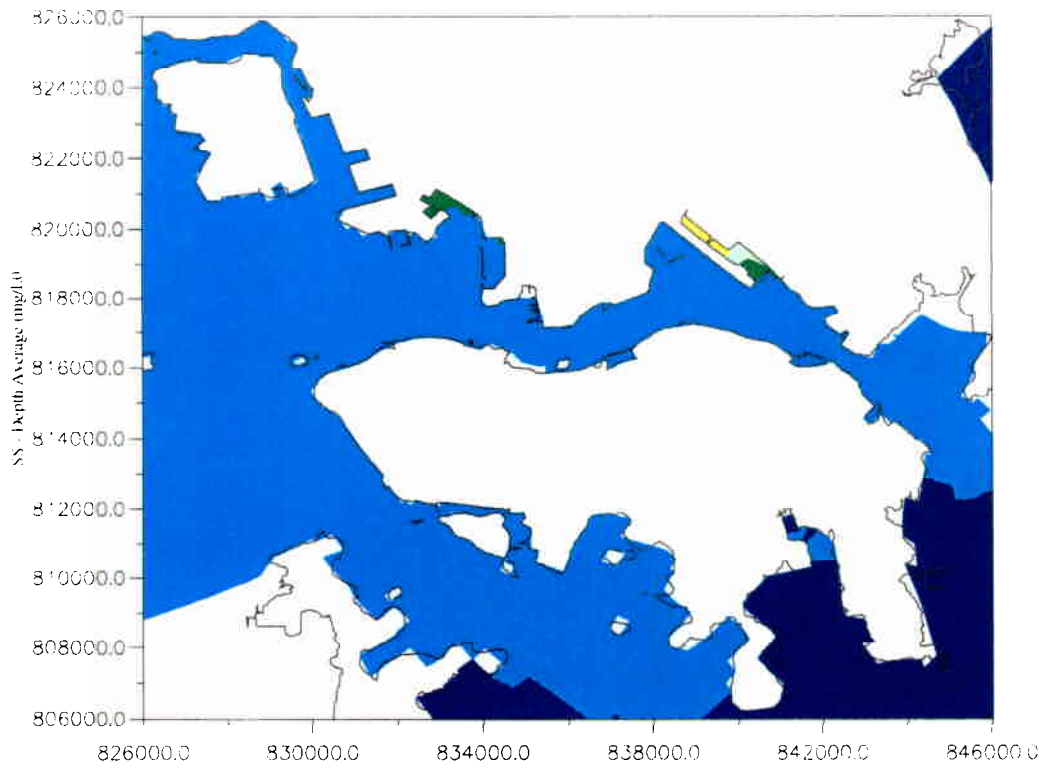


Comprehensive Feasibility Study for Revised Scheme of SEKD
 Mean Depth-Averaged TIN and UA - Wet Season (2016 without SEKD)
 (Upper: Total Inorganic Nitrogen; Lower: Unionised Ammonia)

March 2001

Drawing No. 22936/EN/182

Ove Arup & Partners Hong Kong Ltd



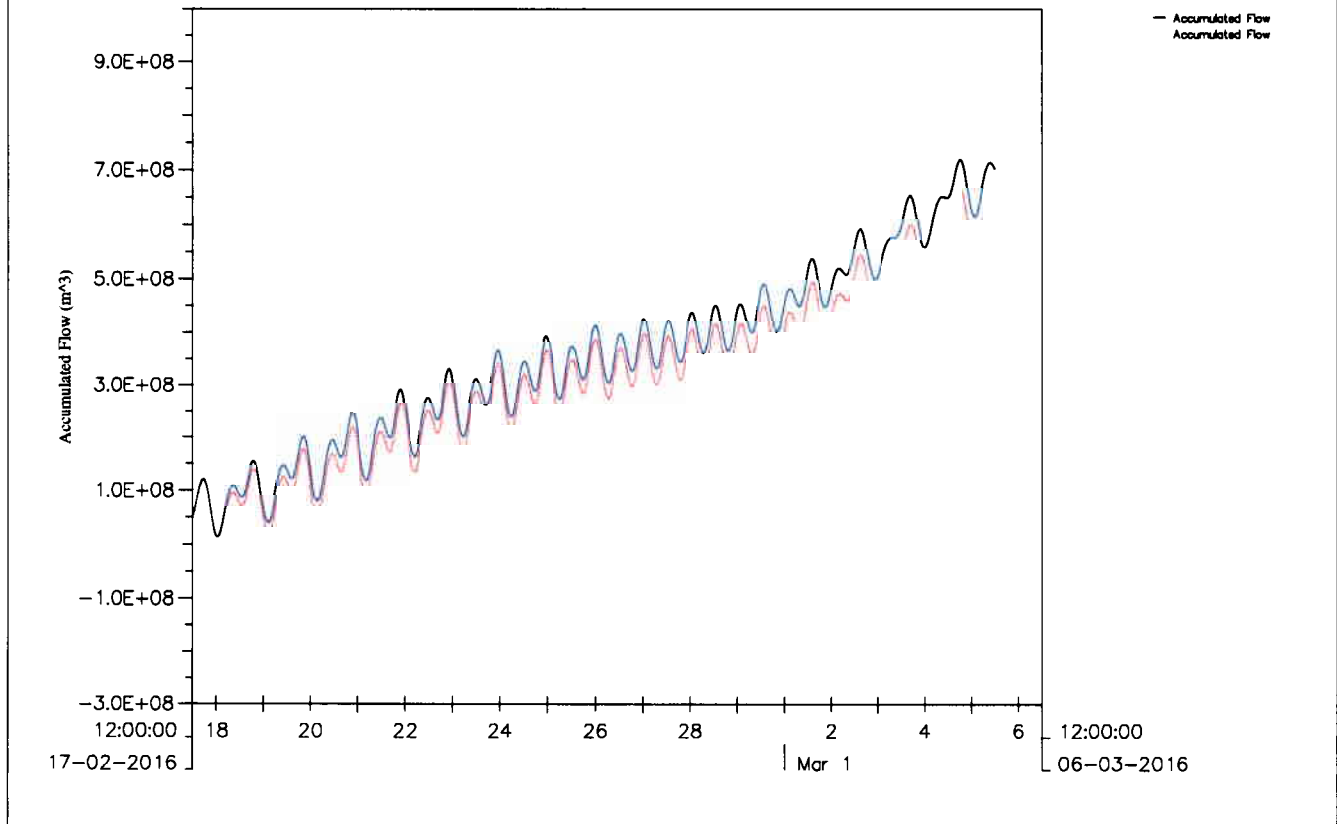
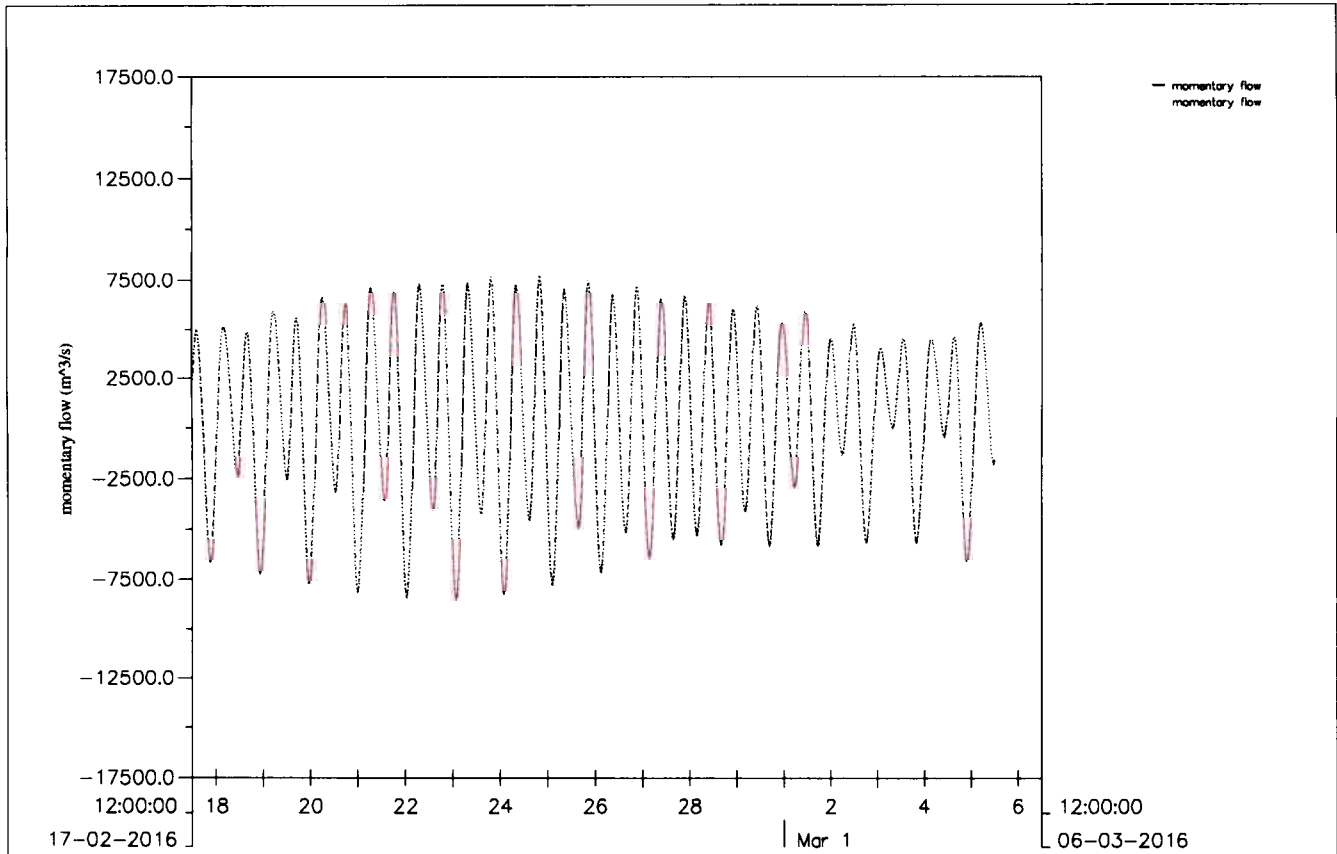
Comprehensive Feasibility Study for Revised Scheme of SEKD
 Mean Depth-Average Suspended Solids and E.coli - Wet Season (2016 without SEKD)
 (Upper: Suspended Solids; Lower: E. coli)

March 2001

Drawing No. 22936/EN/183

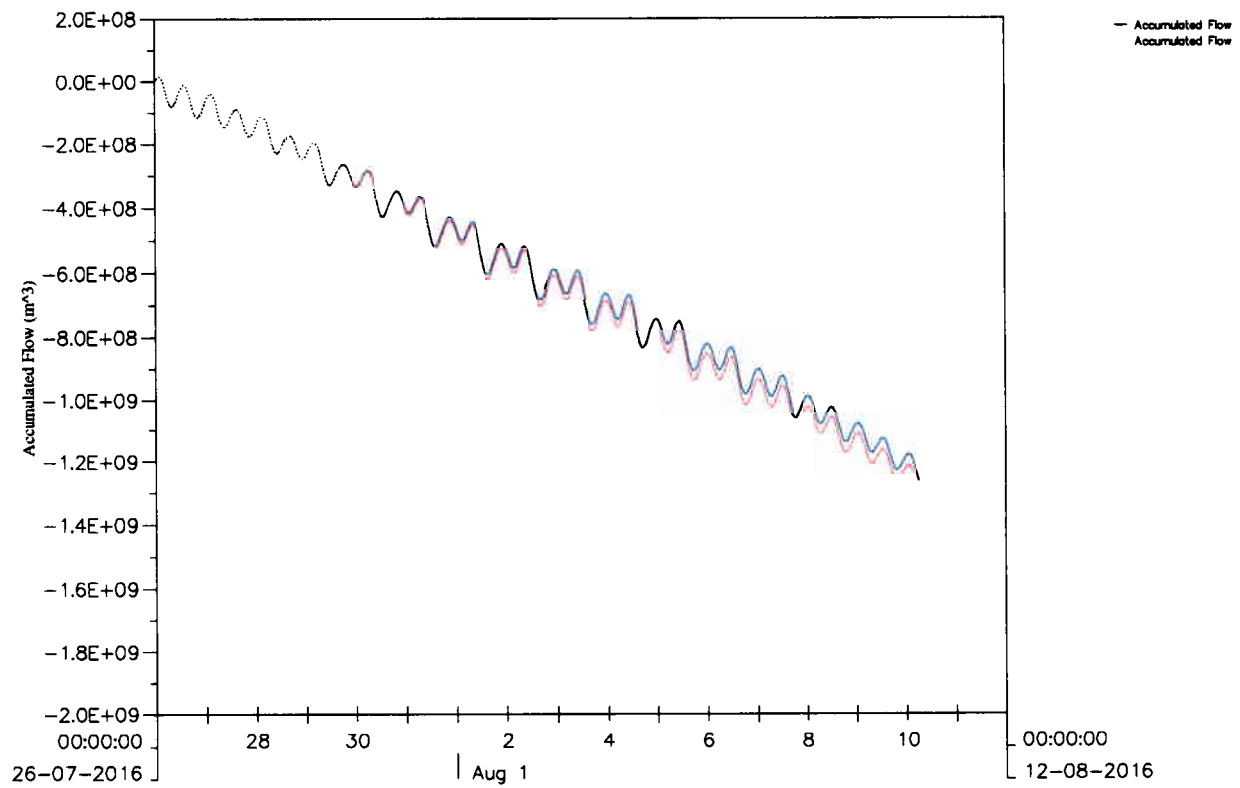
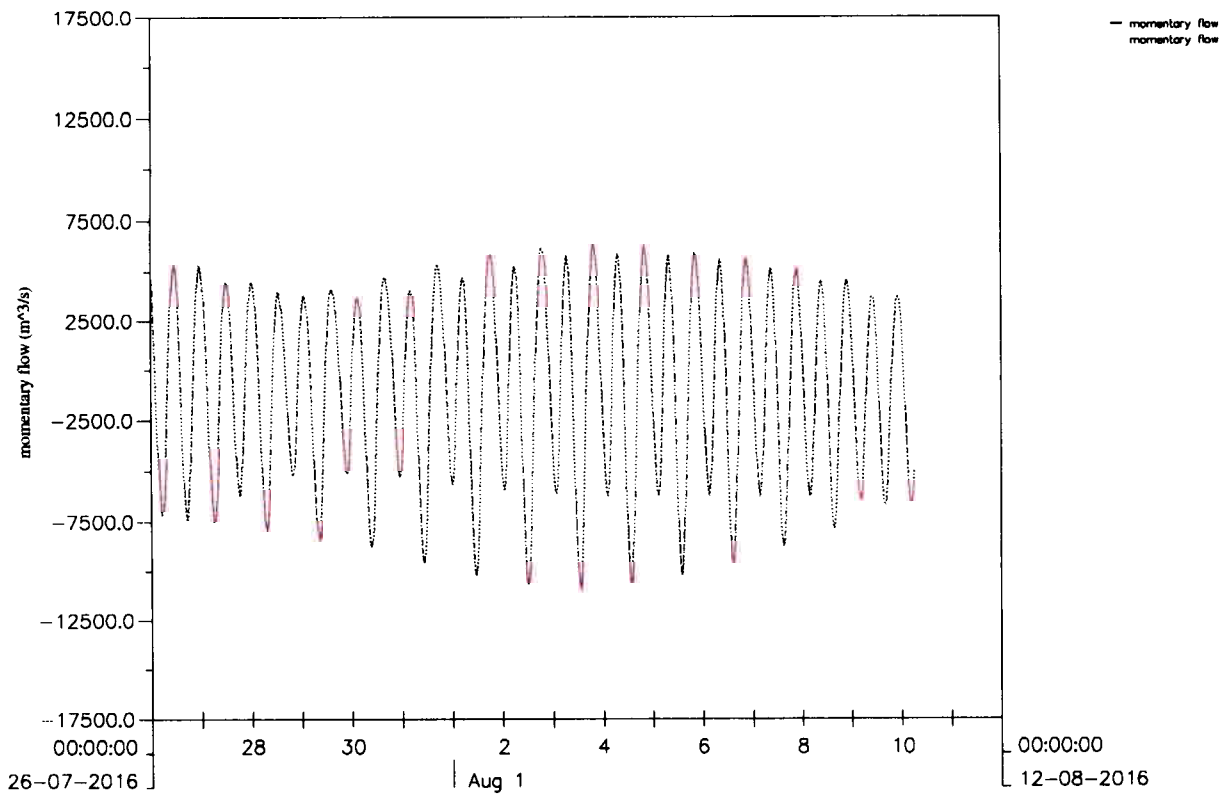
Ove Arup & Partners Hong Kong Ltd

FIGURE 2 . S&N



Comprehensive Feasibility Study for Revised Scheme of SEKD Momentary & Accumulated Flows thru. VH Chnl – 2016 Dry Season (with/without SEKD) (Top: Momentary; Lower: Accumulated; Blue: With SEKD; Red: Without SEKD)	March 2001	
	Drawing No. 22936/EN/184	
Ove Arup & Partners Hong Kong Ltd		

FIGURE 2.SSN.

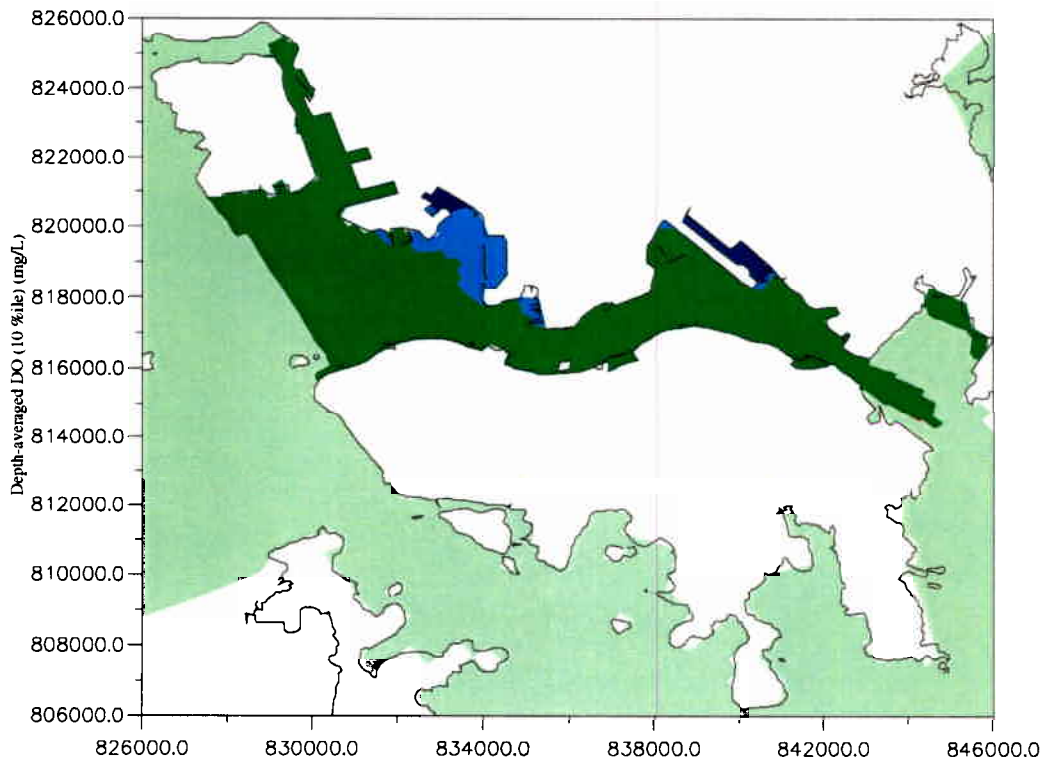
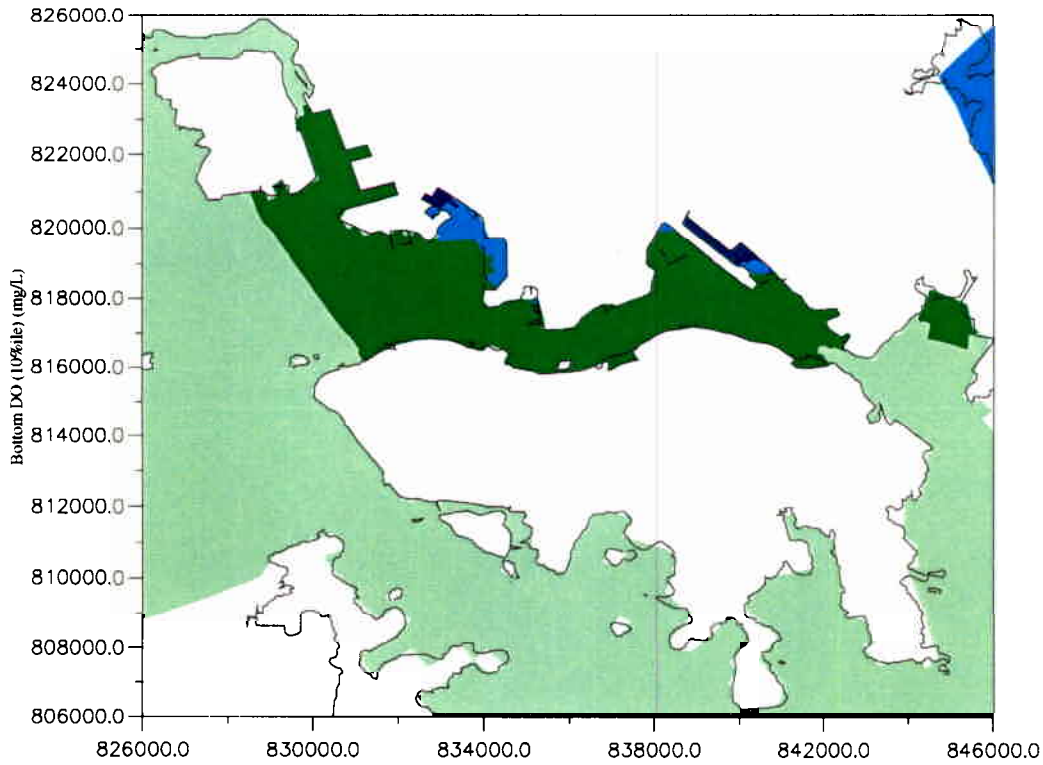


Comprehensive Feasibility Study for Revised Scheme of SEKD
 Momentary & Accumulated Flows thru. VH Chnl - 2016 Wet Season (with/without SEKD)
 (Top: Momentary; Lower: Accumulated; Blue: With SEKD; Red: Without SEKD)

March 2001

Drawing No. 22936/EN/185

Ove Arup & Partners Hong Kong Ltd

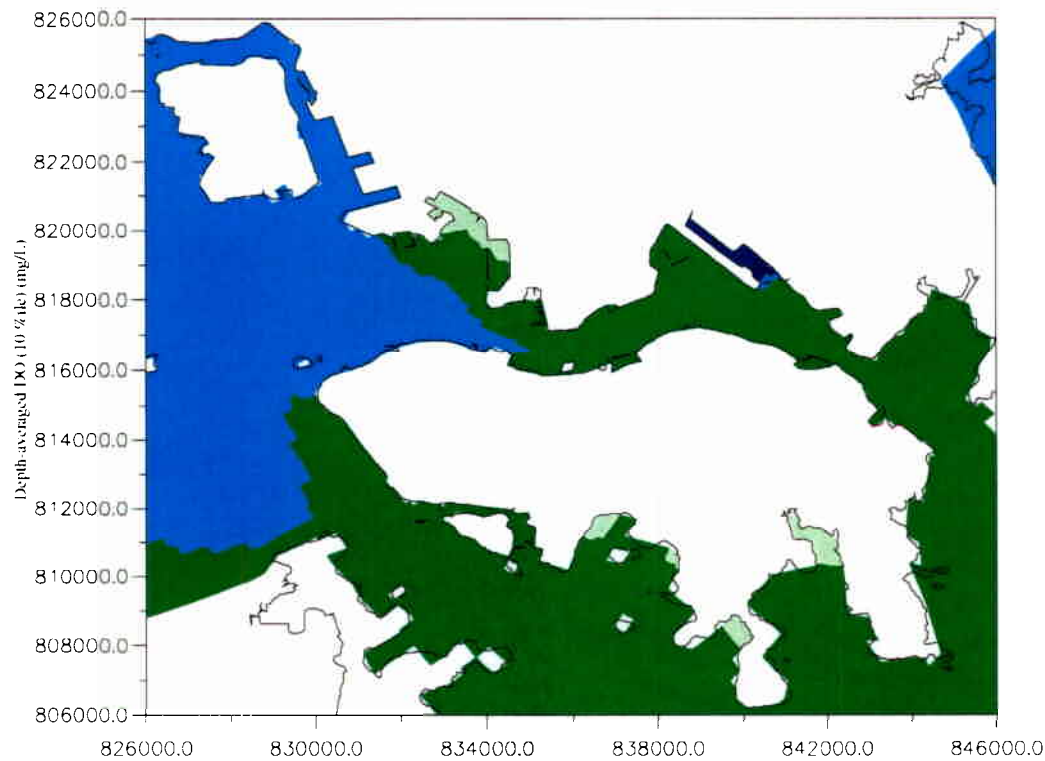
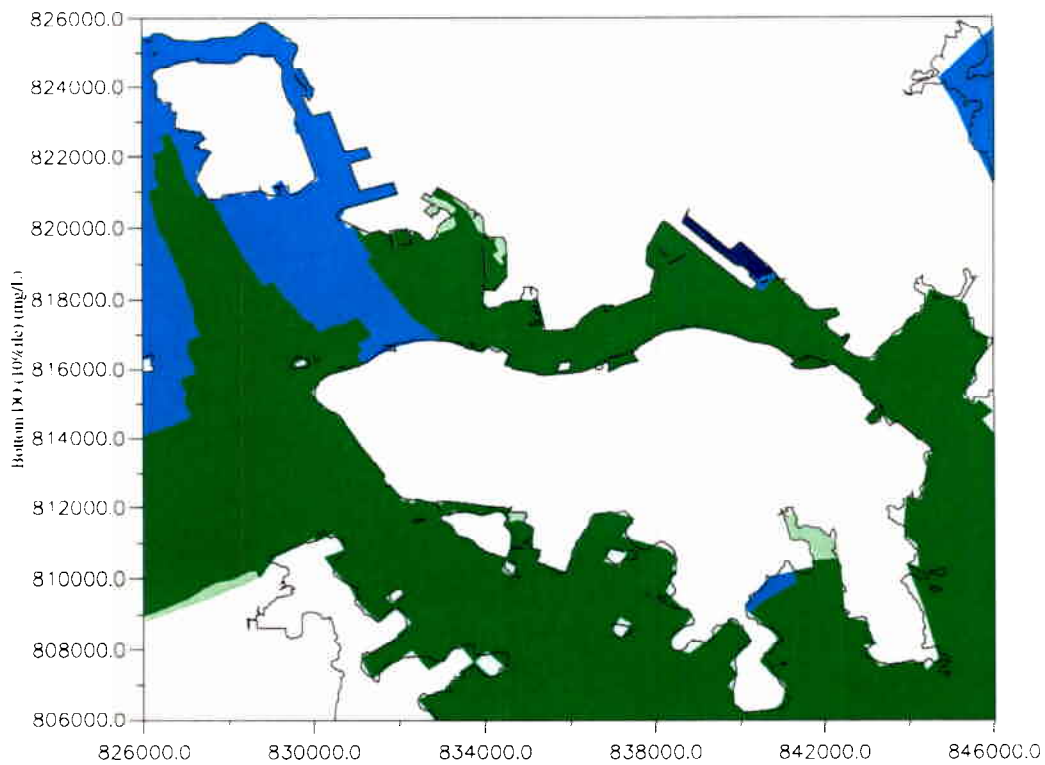


Comprehensive Feasibility Study for Revised Scheme of SEKD
 Predicted 10%ile Mean DO – Dry Season (2002)
 (Upper: Bottom Layer; Lower: Depth-averaged DO)

March 2001

Drawing No. 22963/EN/193

Ove Arup & Partners Hong Kong Ltd

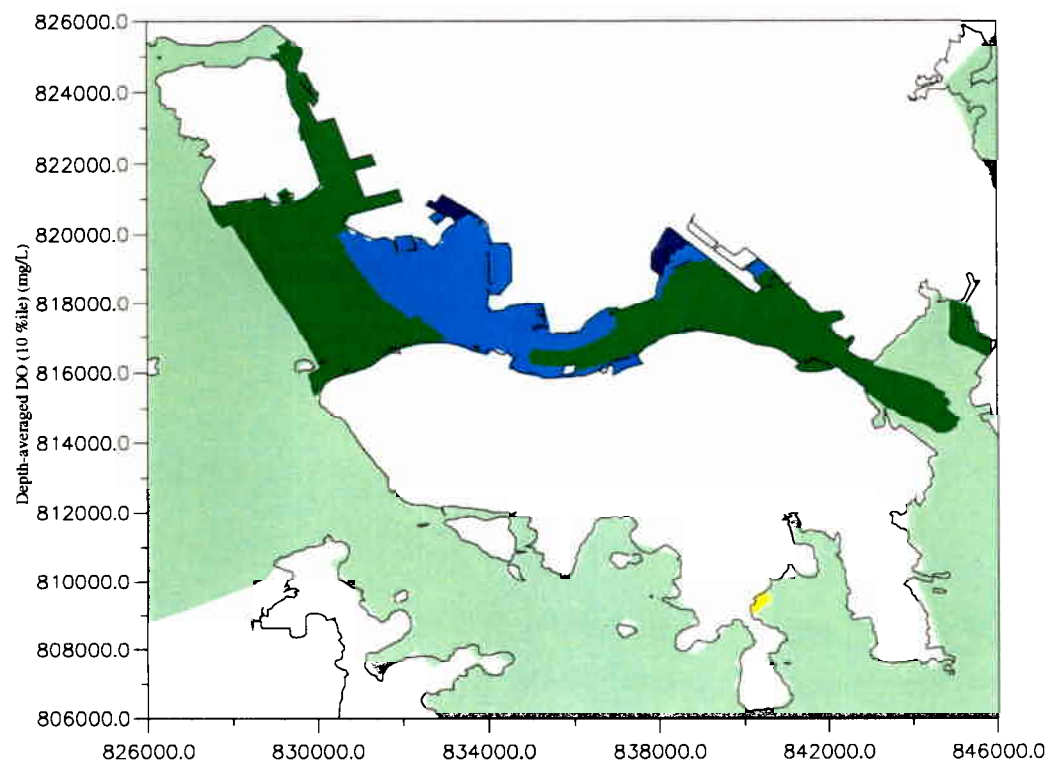
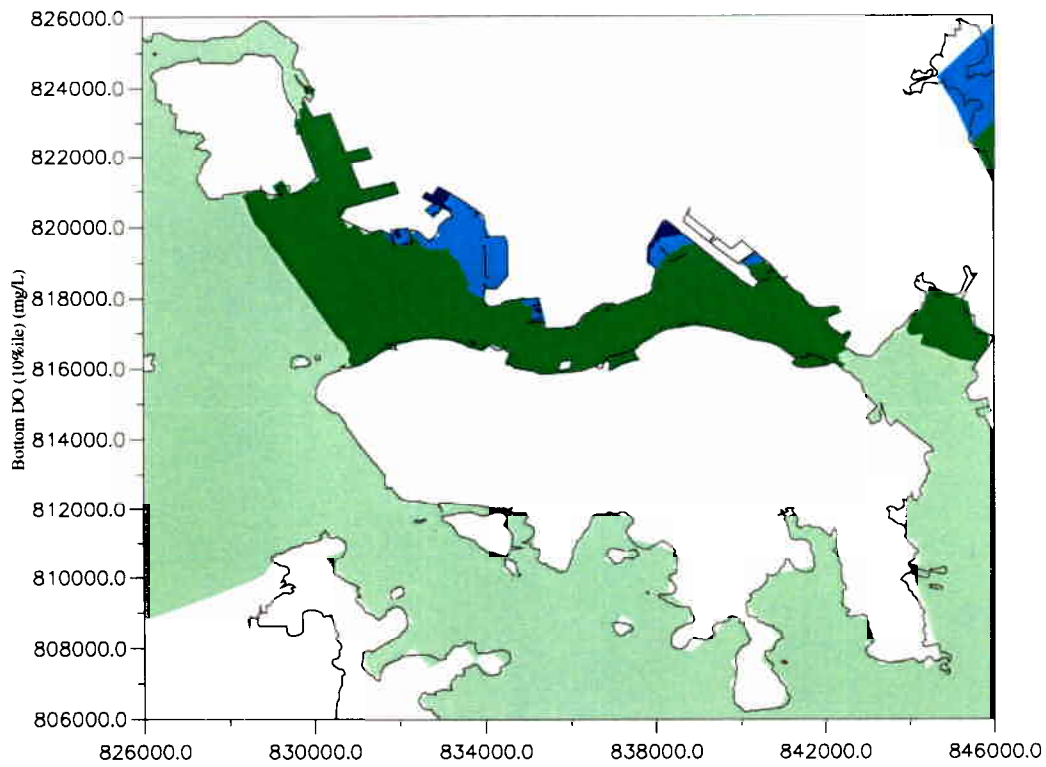


Comprehensive Feasibility Study for Revised Scheme of SEKD
 Predicted 10%ile Mean DO - Wet Season (2002)
 (Upper: Bottom Layer; Lower: Depth-averaged DO)

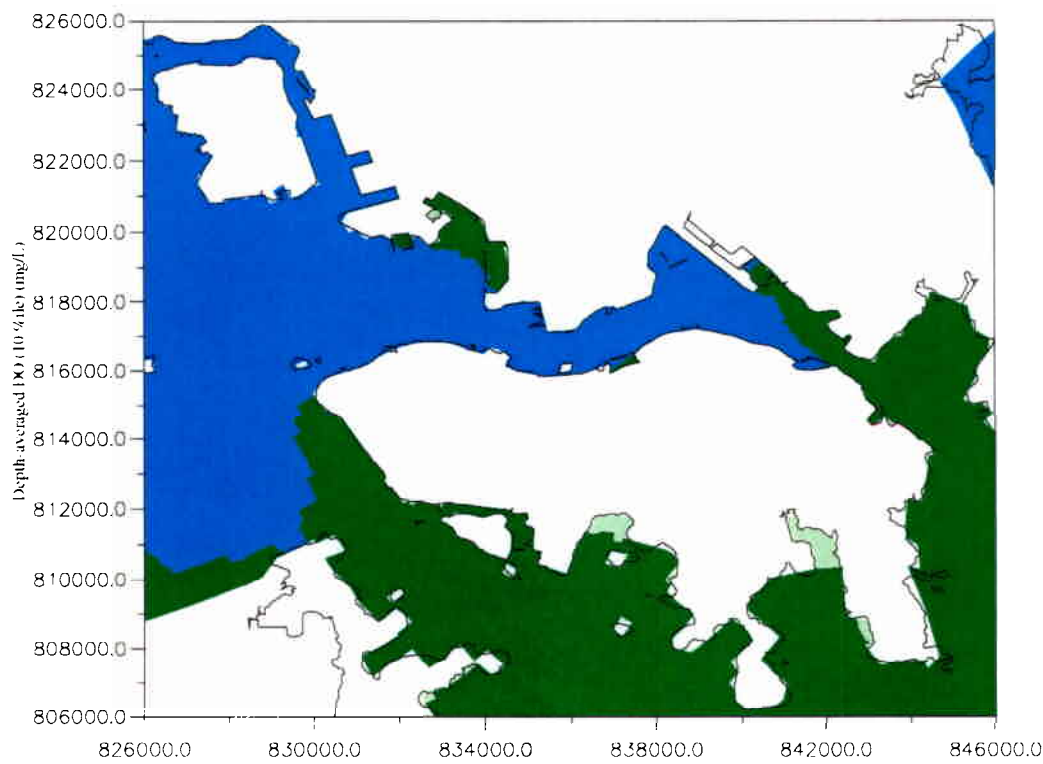
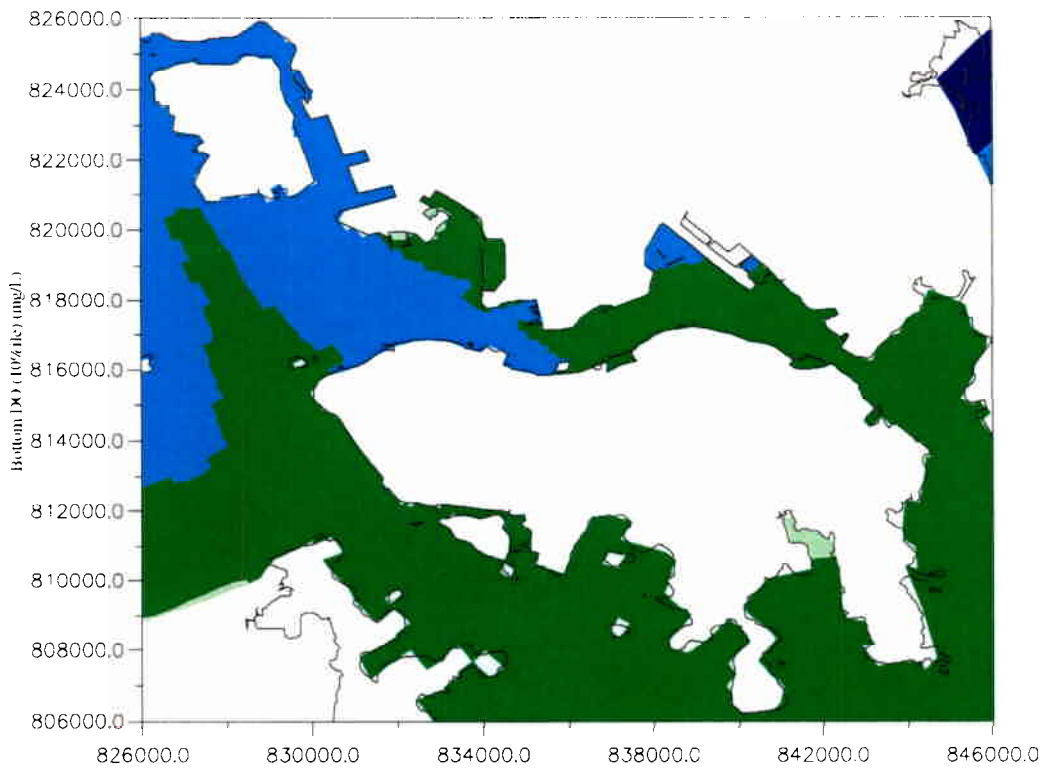
March 2001

Drawing No. 22936/EN/194

Ove Arup & Partners Hong Kong Ltd.



Comprehensive Feasibility Study for Revised Scheme of SEKD Predicted 10%ile Mean DO – Dry Season (2003) (Upper: Bottom Layer; Lower: Depth-averaged DO)	March 2001	
	Drawing No. 22936/EN/195	
Over Arup & Partners Hong Kong Ltd		

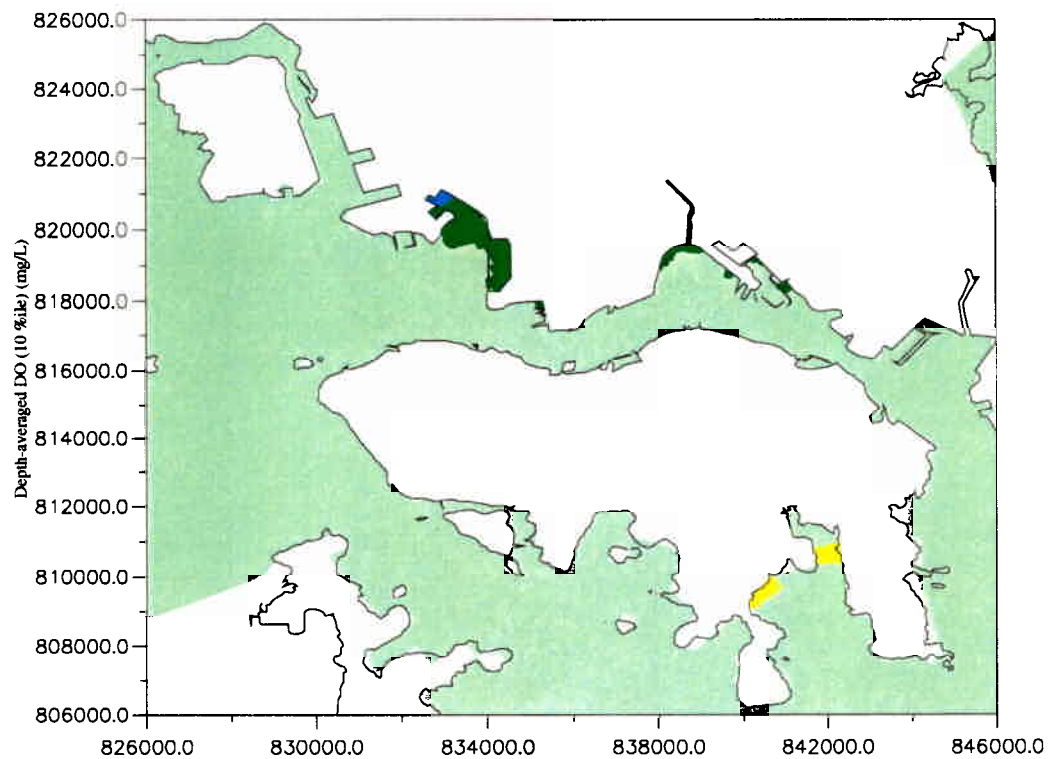
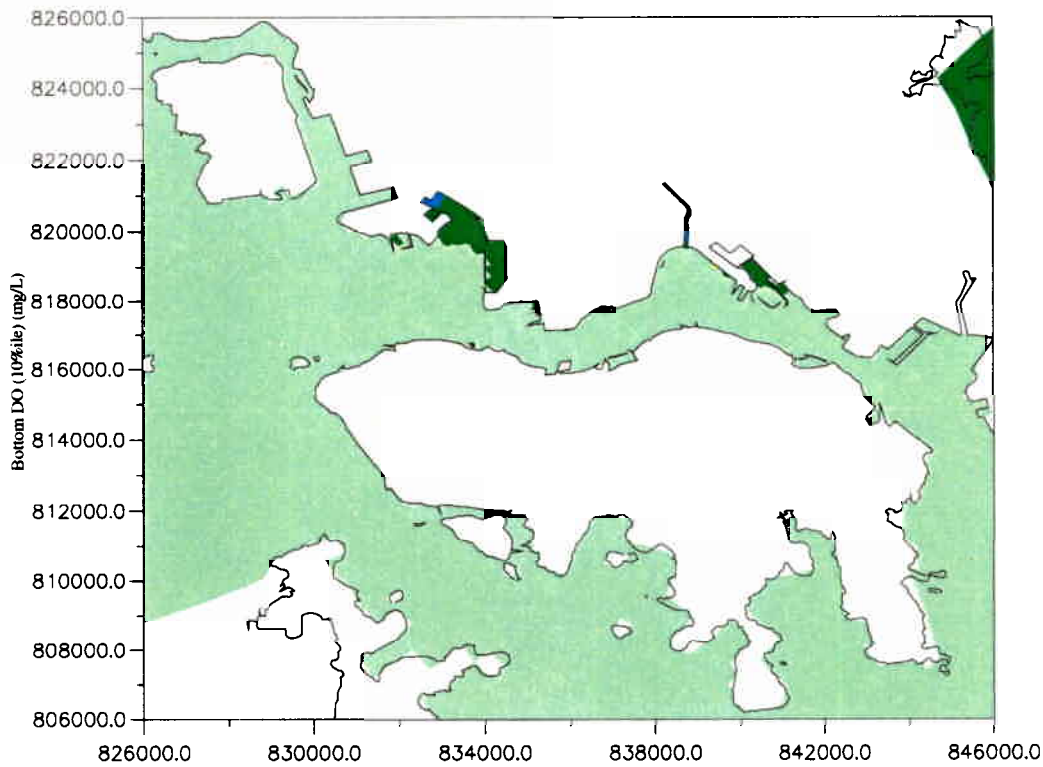


Comprehensive Feasibility Study for Revised Scheme of SEKD
 Predicted 10%ile Mean DO - Wet Season (2003)
 (Upper: Bottom Layer; Lower: Depth-averaged DO)

March 2001

Drawing No. 22936/EN/196

Ove Arup & Partners Hong Kong Ltd

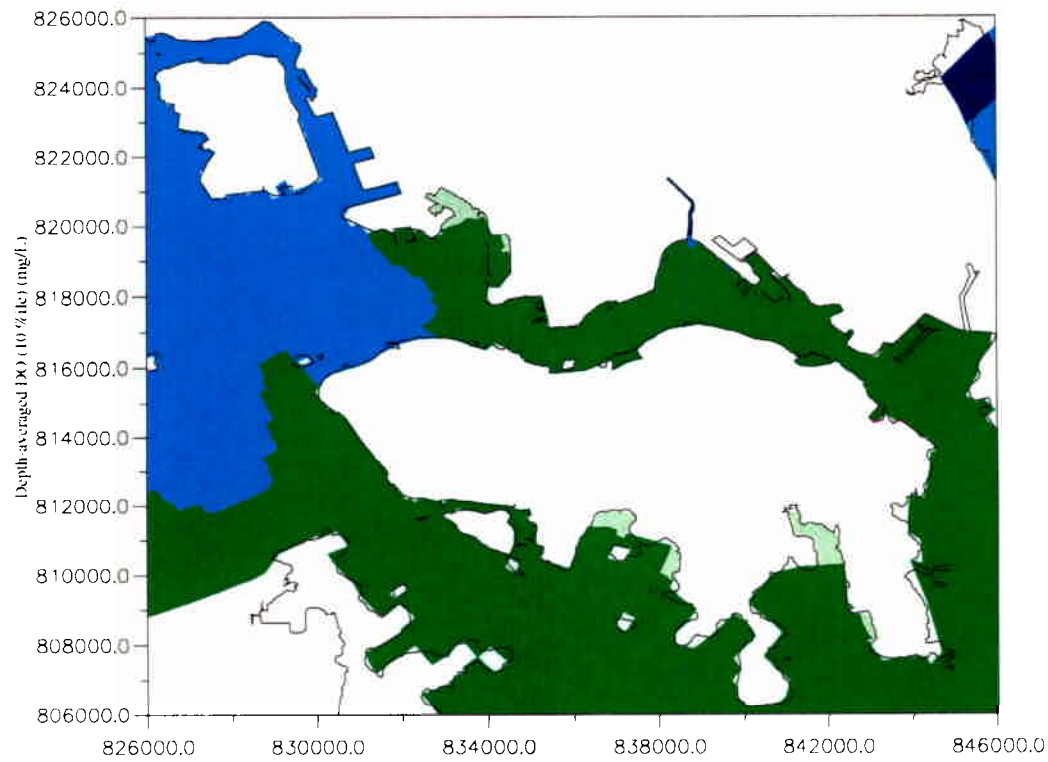
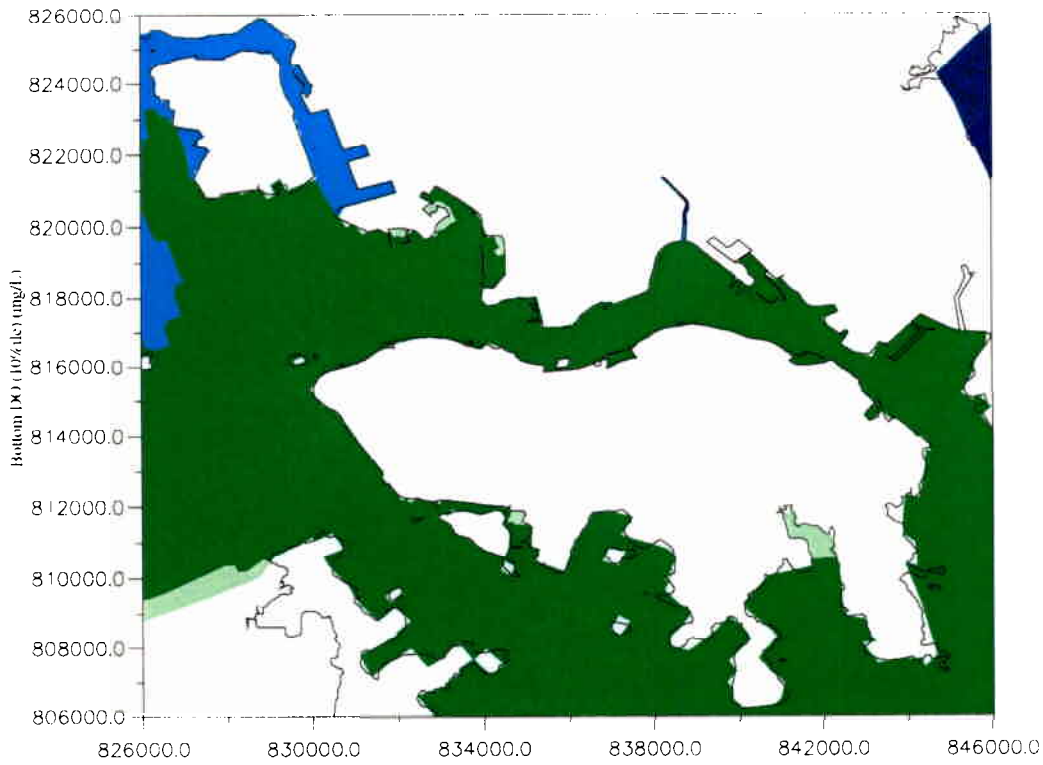


Comprehensive Feasibility Study for Revised Scheme of SEKD
 Predicted 10%ile Mean DO – Dry Season (2016 with SEKD)
 (Upper: Bottom Layer; Lower: Depth-averaged DO)

March 2001

Drawing No. 22936/EN/197

Ove Arup & Partners Hong Kong Ltd

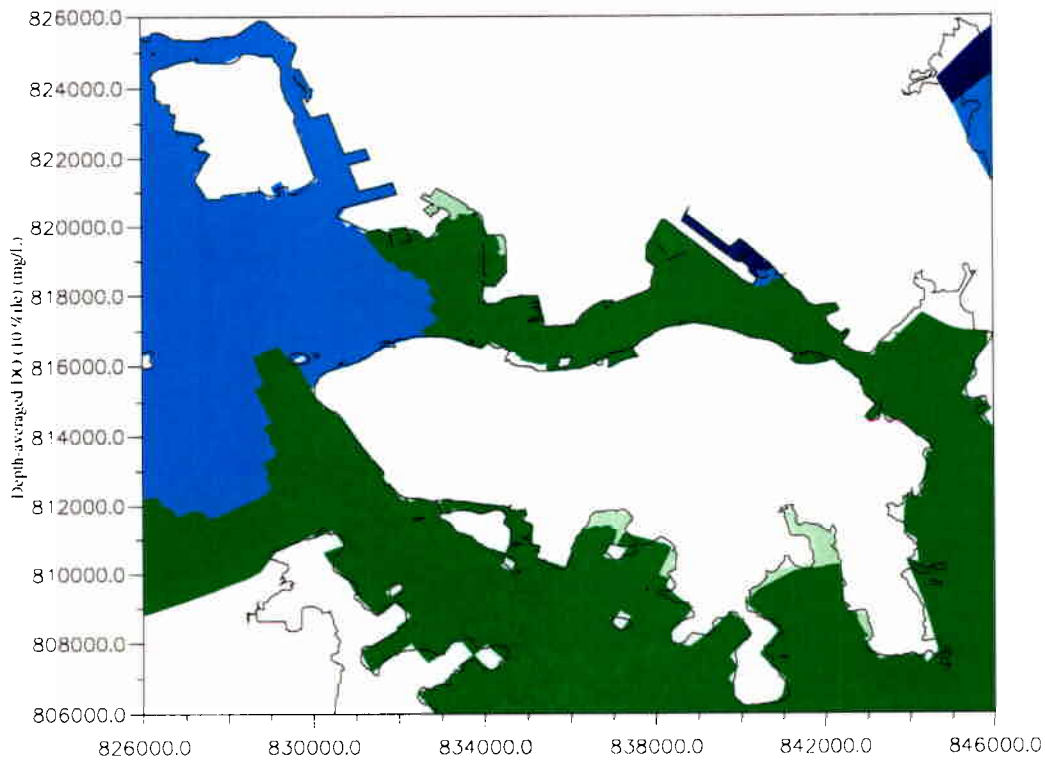
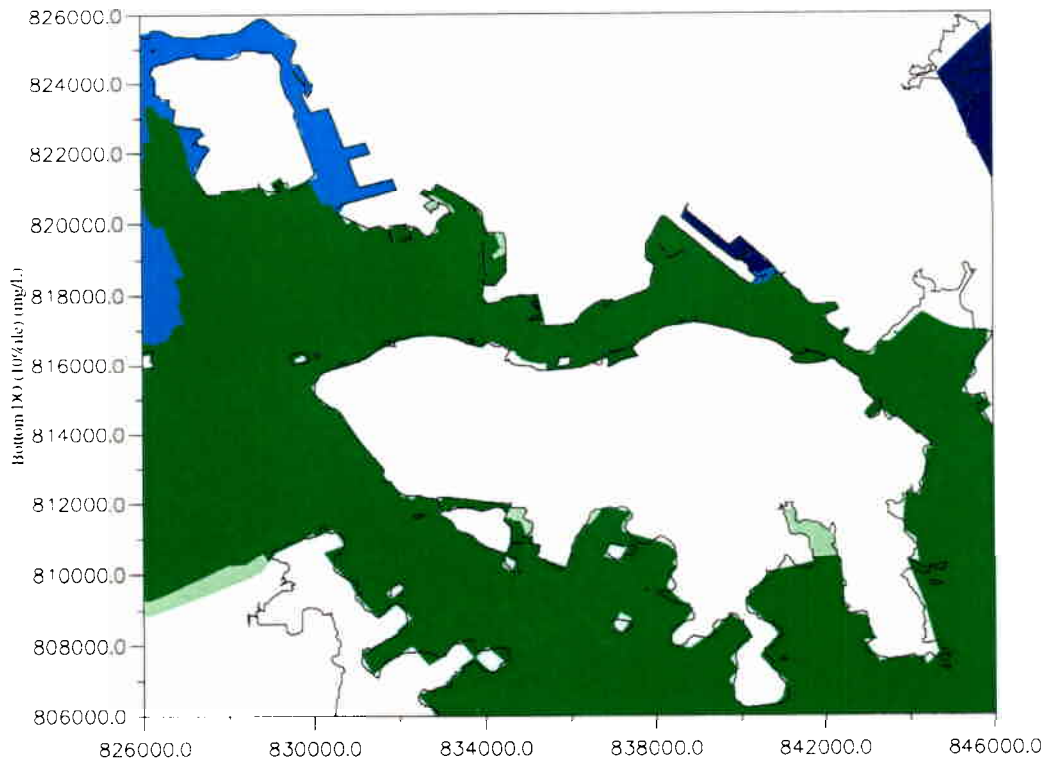


Comprehensive Feasibility Study for Revised Scheme of SEKD
 Predicted 10%ile Mean DO – Wet Season (2016 with SEKD)
 (Upper: Bottom Layer; Lower: Depth-averaged DO)

March 2001

Drawing No. 22936/EN/198

Ove Arup & Partners Hong Kong Ltd

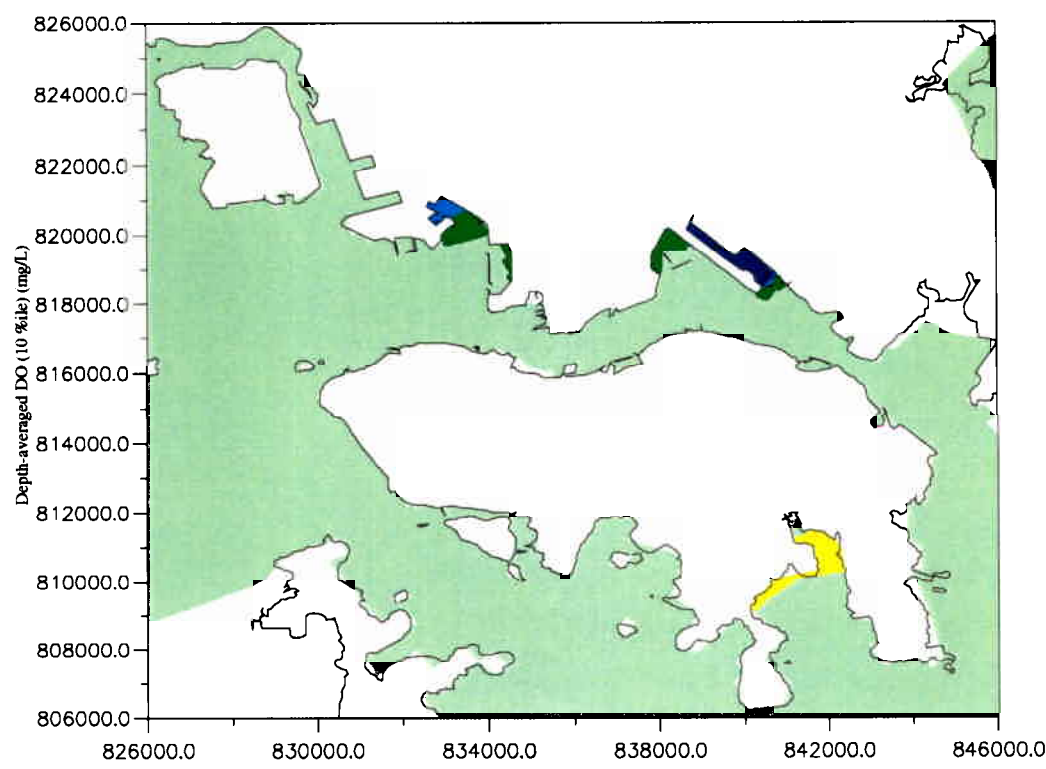
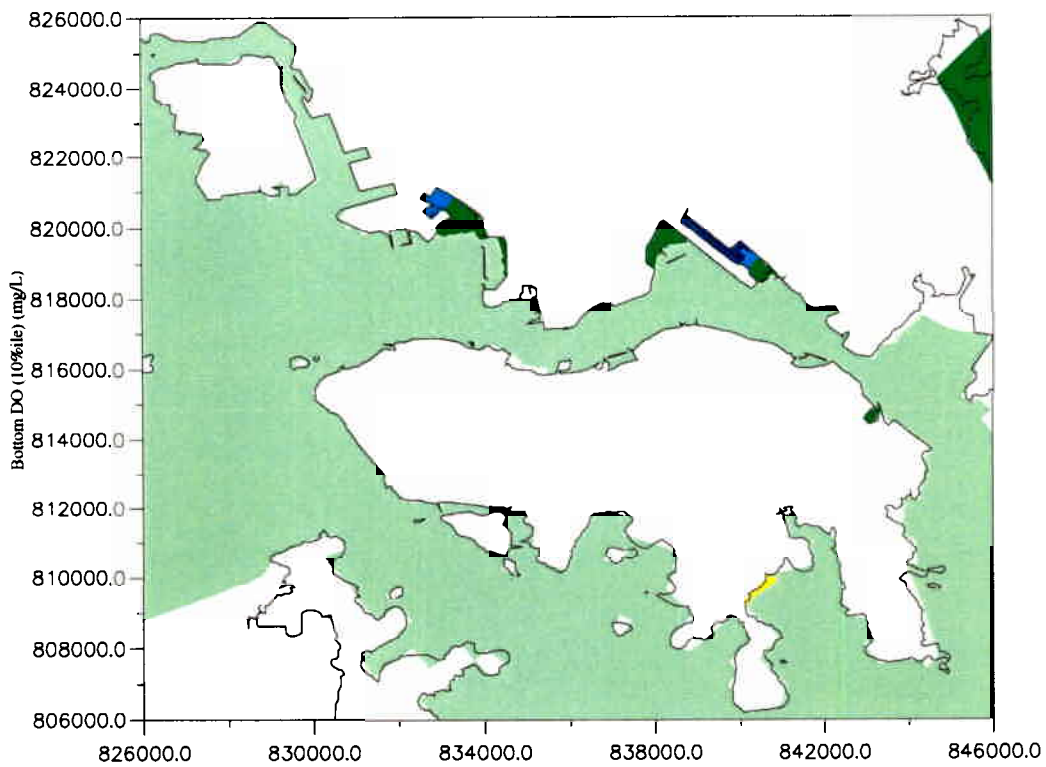


Comprehensive Feasibility Study for Revised Scheme of SEKD
 Predicted 10%ile Mean DO – Wet Season (2016 without SEKD)
 (Upper: Bottom Layer; Lower: Depth-averaged DO)

March 2001

Drawing No. 22936/EN/199

Ove Arup & Partners Hong Kong Ltd

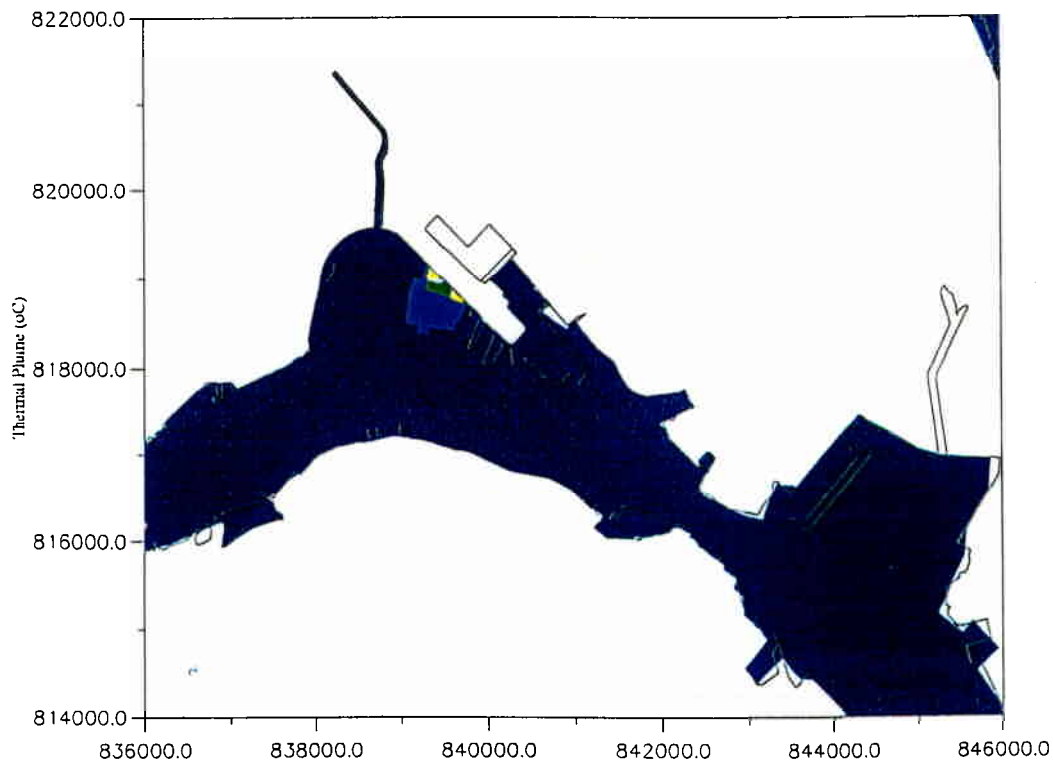
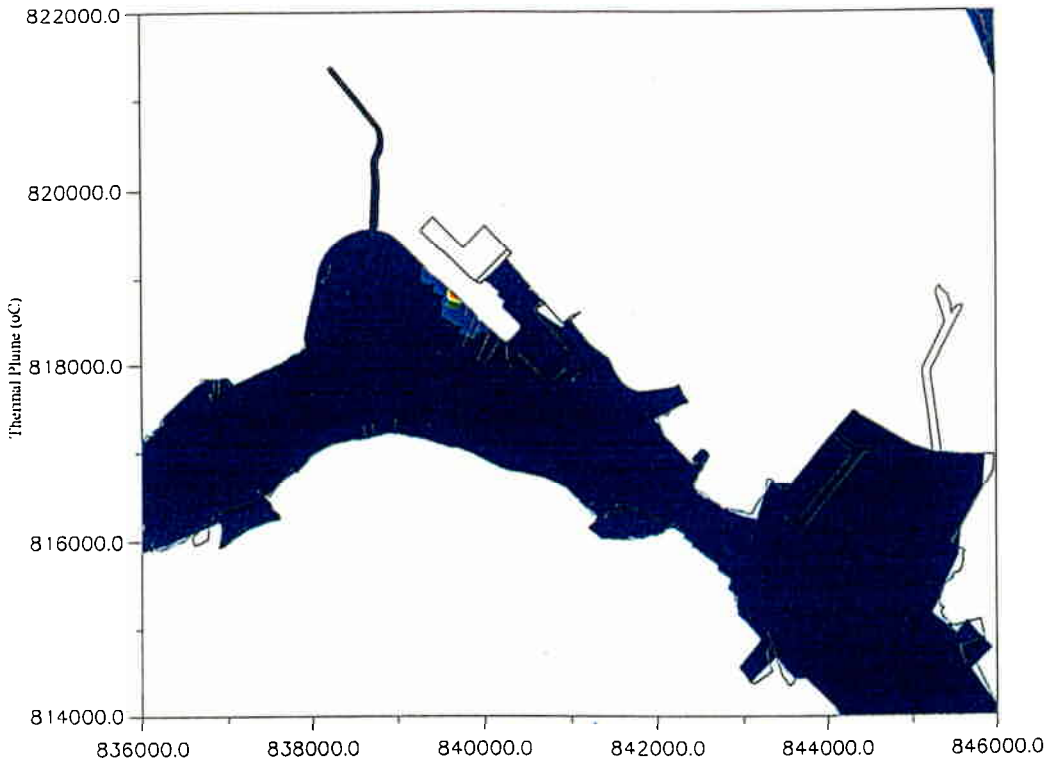


Comprehensive Feasibility Study for Revised Scheme of SEKD
 Predicted 10%ile Mean DO – Dry Season (2016 without SEKD)
 (Upper: Bottom Layer; Lower: Depth-averaged DO)

March 2001

Drawing No. 22936/EN/200

Ove Arup & Partners Hong Kong Ltd

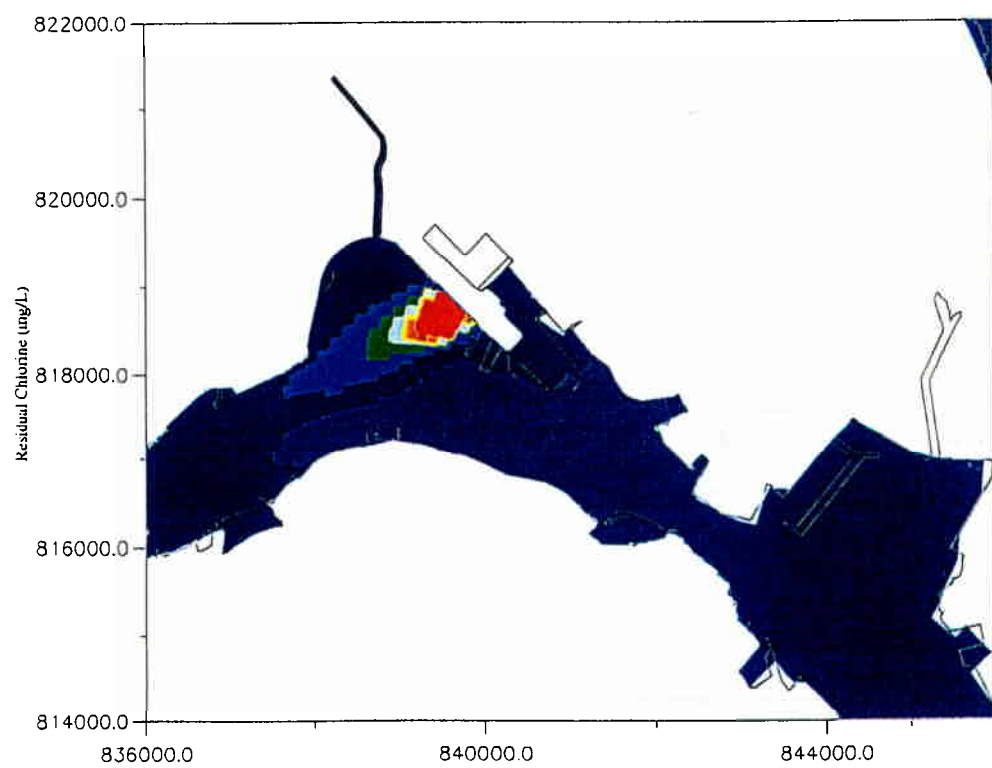
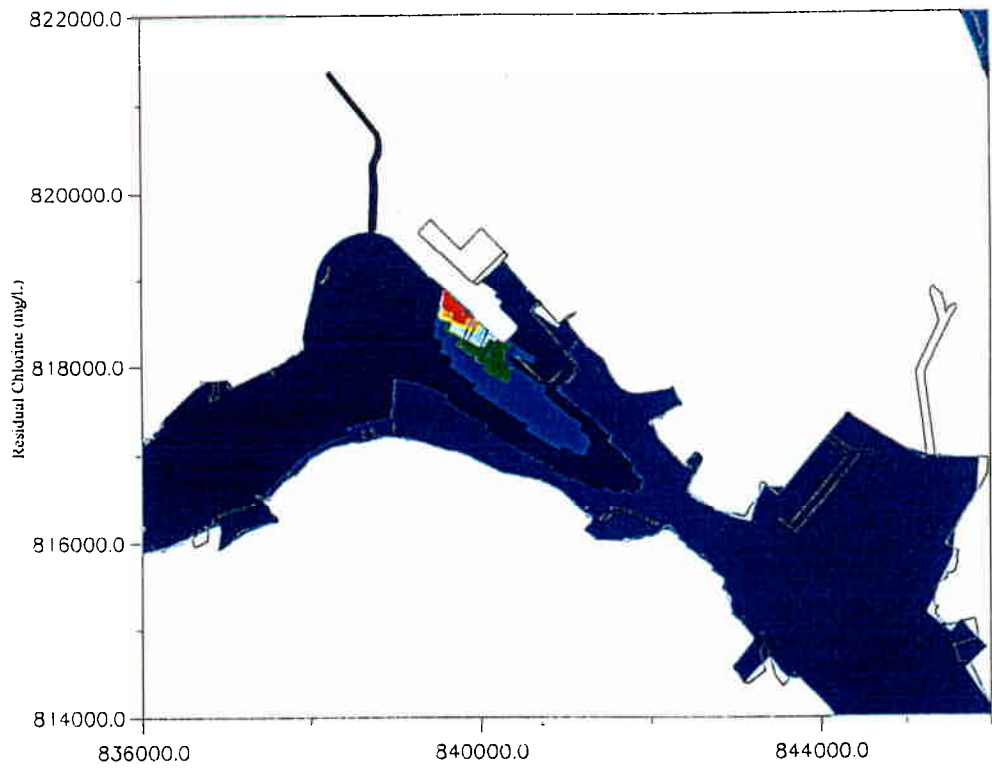


Comprehensive Feasibility Study for Revised Scheme of SEKD
 Surface Layer Thermal Plume in Victoria Harbour
 2016 with SEKD Dry Season (Upper: Ebb; Lower: Flood)

March 2001

Drawing No. 22936/EN/201

Ove Arup & Partners Hong Kong Ltd

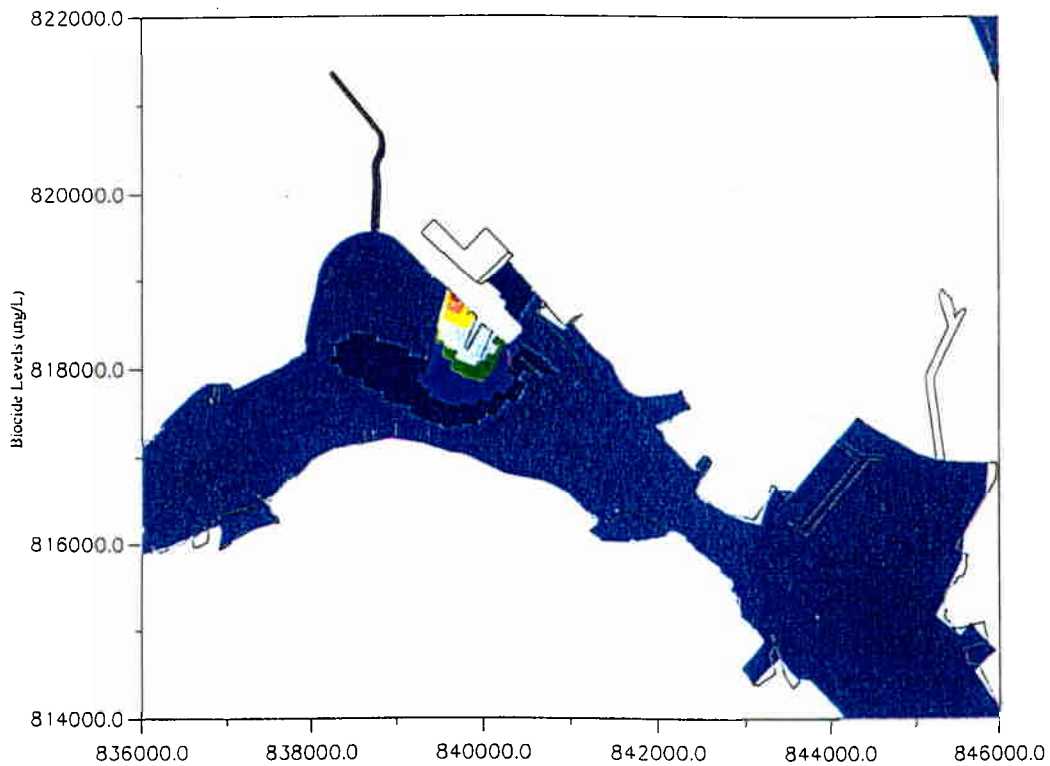
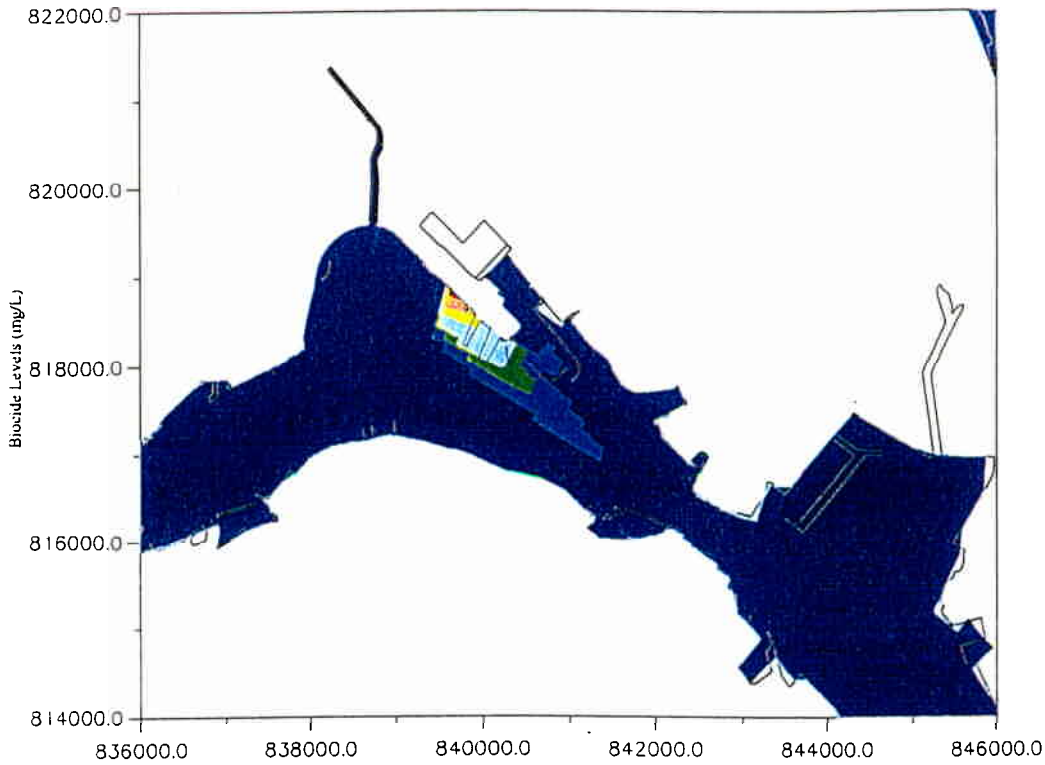


Comprehensive Feasibility Study for Revised Scheme of SEKD
 Surface Layer Residual Chlorine in Victoria Harbour
 2016w SEKD Dry Season (Upper: Ebb; Lower: Flood)

March 2001

Drawing No. 22936/EN/202

Ove Arup & Partners Hong Kong Ltd



Comprehensive Feasibility Study for Revised Scheme of SEKD

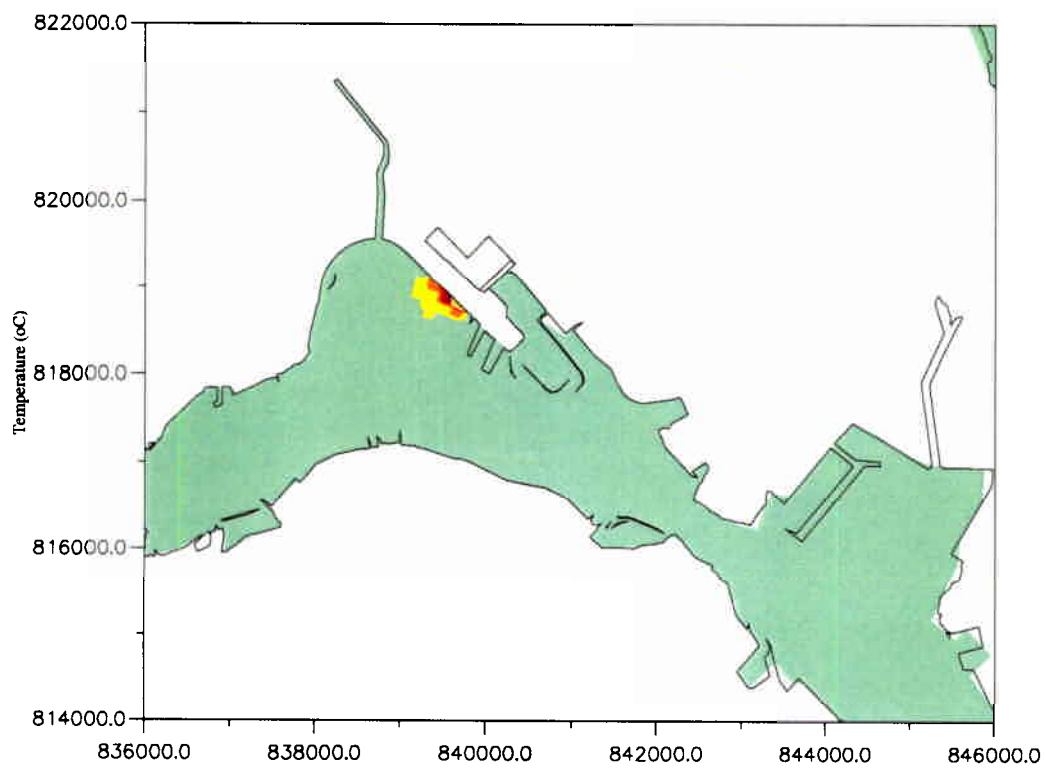
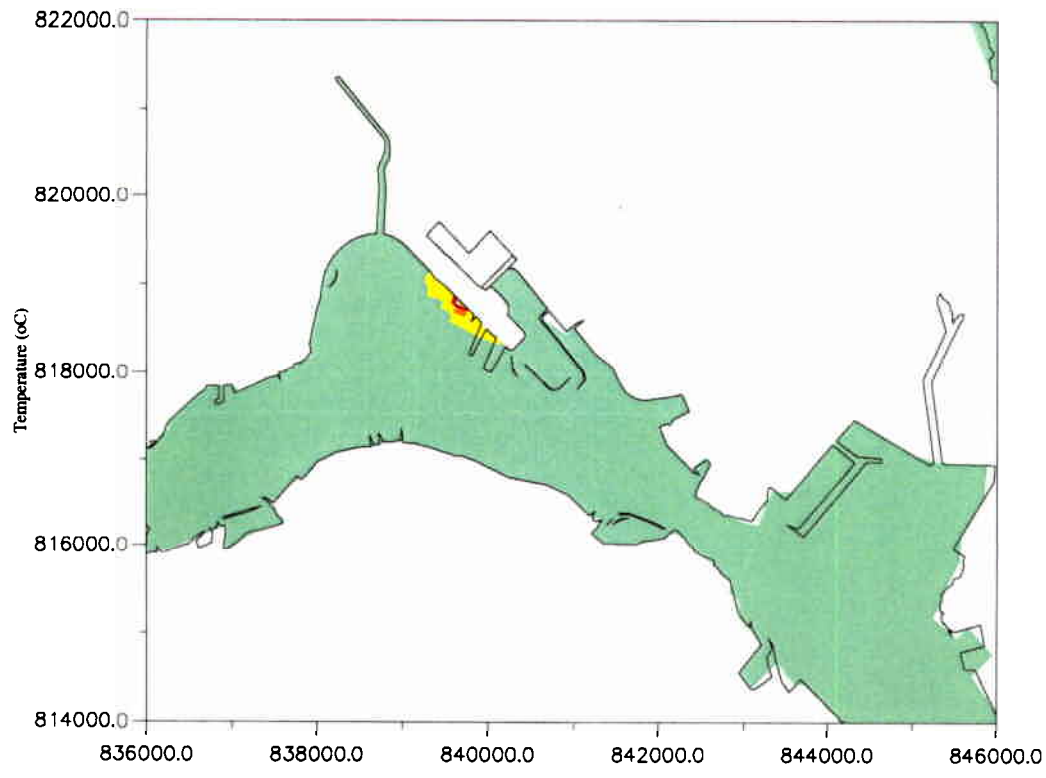
Surface Layer Biocide Levels in Victoria Harbour

2016wSEKD Dry Season (Upper: Ebb; Lower: Flood)

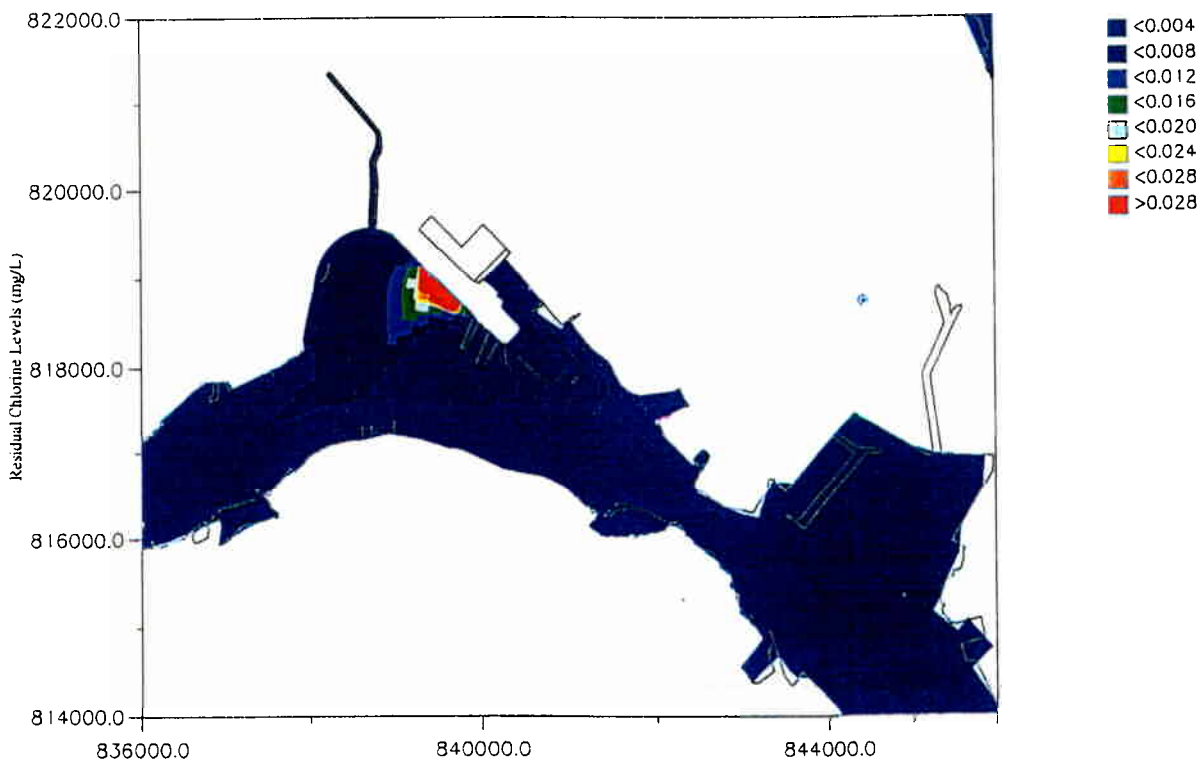
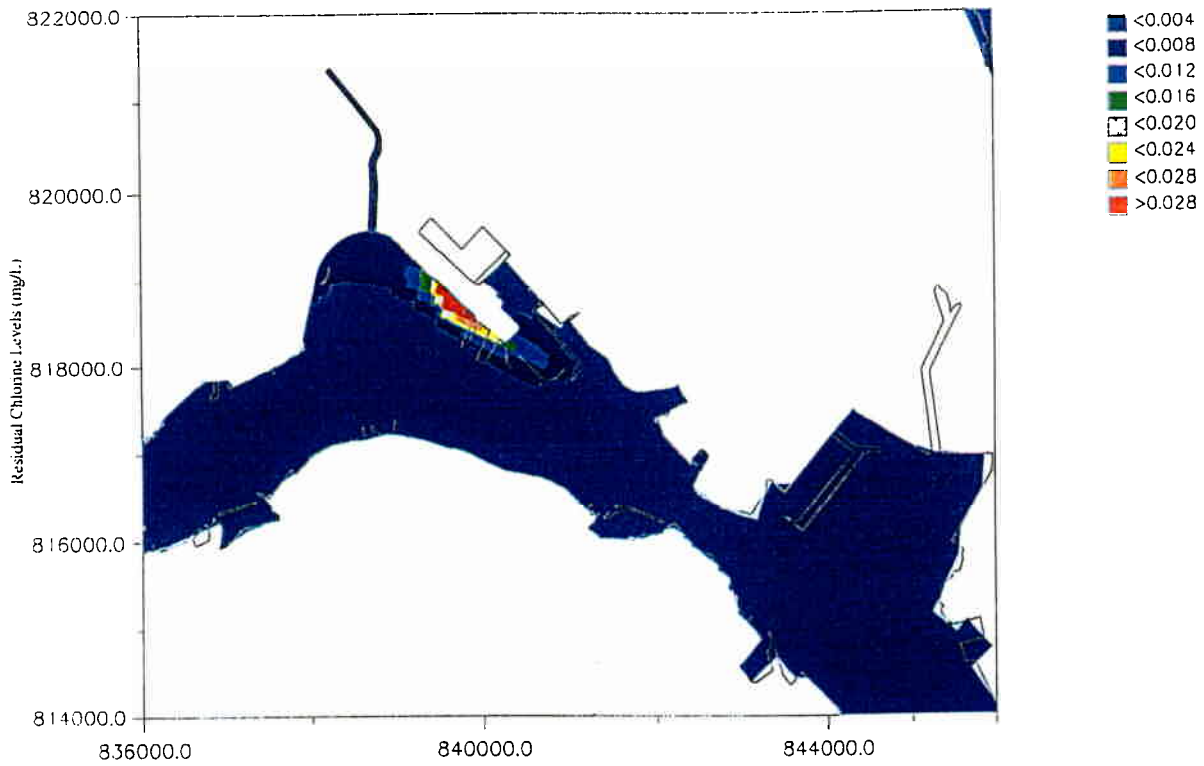
March 2001

Drawing No. 22936/EN/203

Ove Arup & Partners Hong Kong Ltd



Comprehensive Feasibility Study for Revised Scheme of SEKD Surface Layer Thermal Plume in Victoria Harbour 2016wSEKD Wet Season (Upper: Ebb; Lower: Flood)	May 2001	
	Drawing No. 22936/EN/204	
Ove Arup & Partners Hong Kong Ltd		

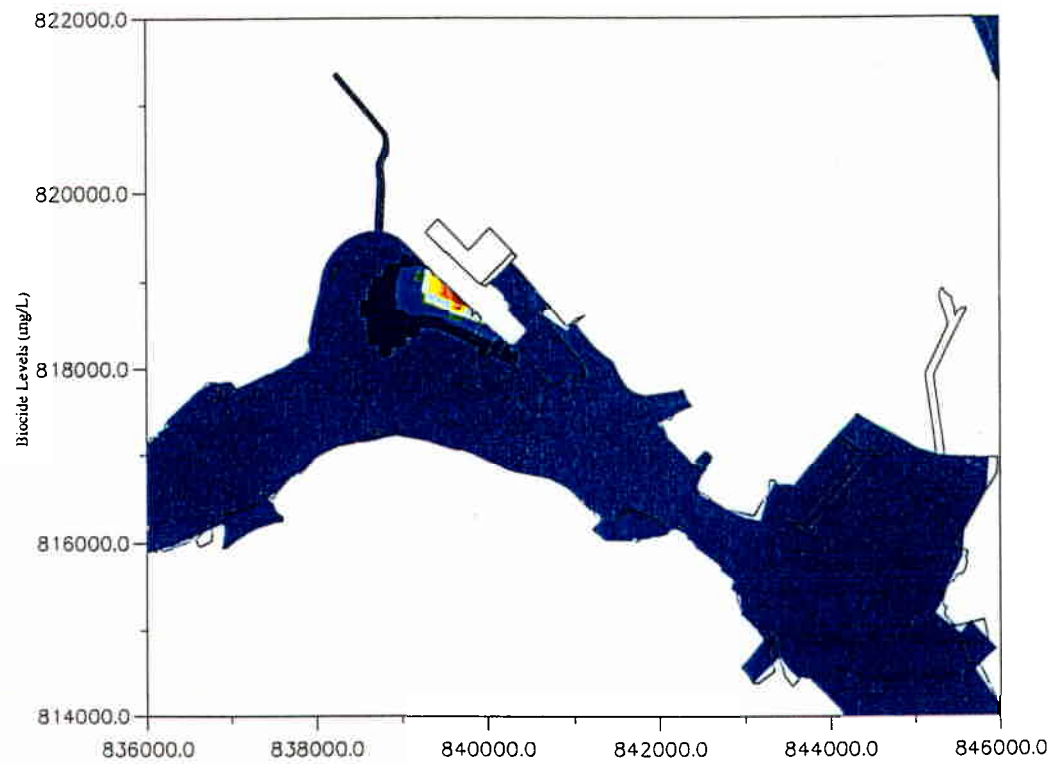
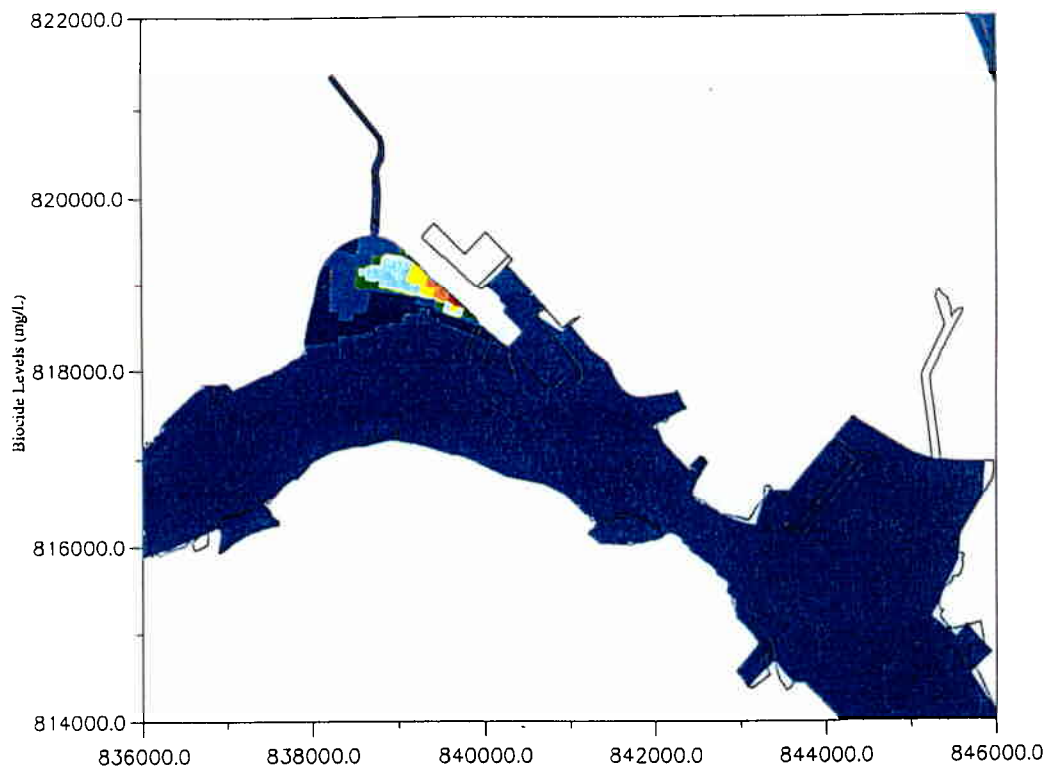


Comprehensive Feasibility Study for Revised Scheme of SEKD
 Surface Layer Residual Chlorine Levels in Victoria Harbour
 2016wSEKD Wet Season (Upper: Ebb; Lower: Flood)

March 2001

Drawing No. 22936/EN/205

Ove Arup & Partners Hong Kong Ltd

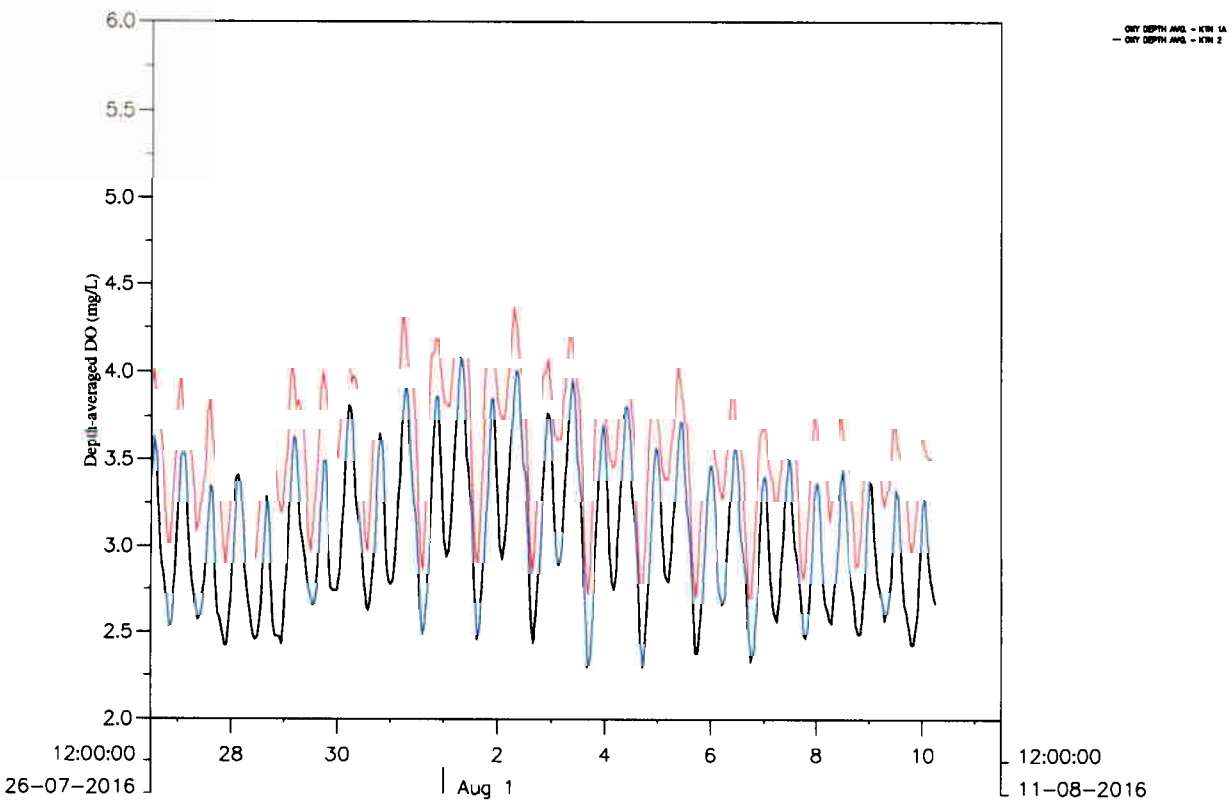
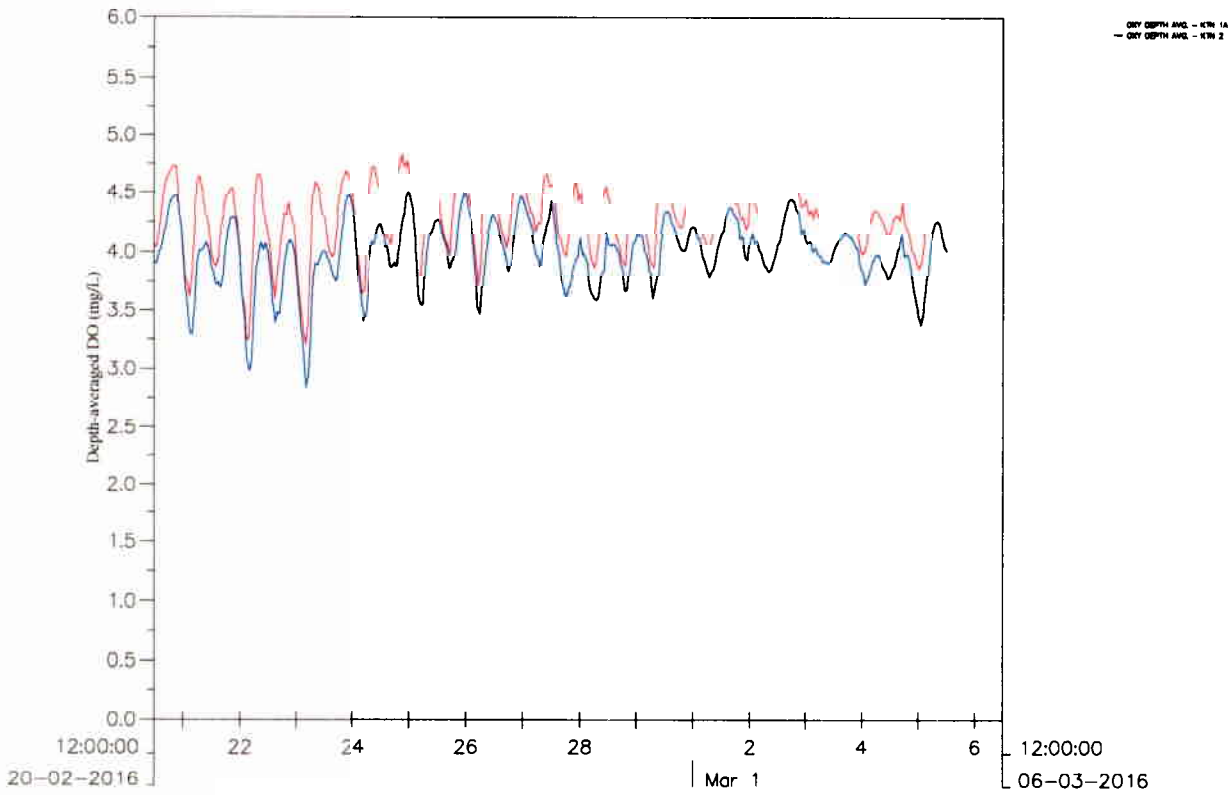


Comprehensive Feasibility Study for Revised Scheme of SEKD
 Surface Layer Biocides Levels in Victoria Harbour
 2016wSEKD Wet Season (Upper: Flood; Lower: Ebb)

March 2001

Drawing No. 22936/EN/206

Ove Arup & Partners Hong Kong Ltd

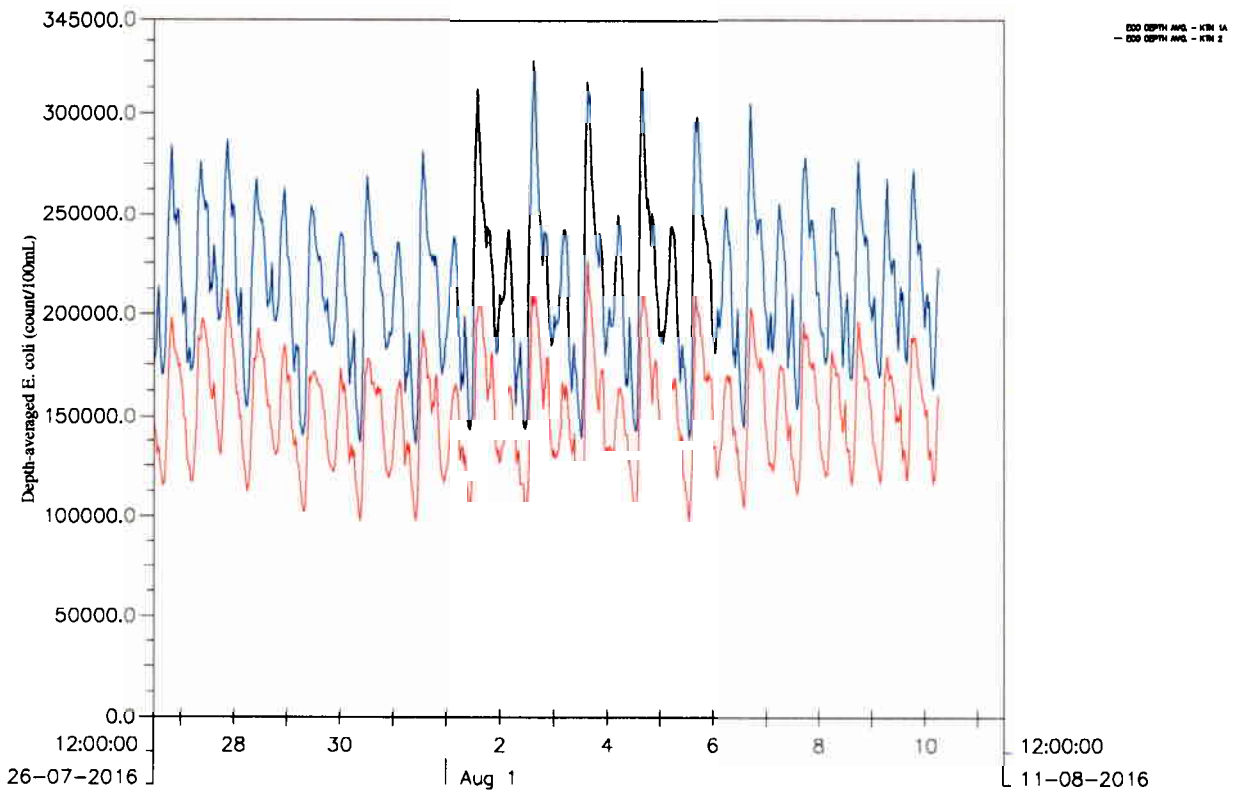
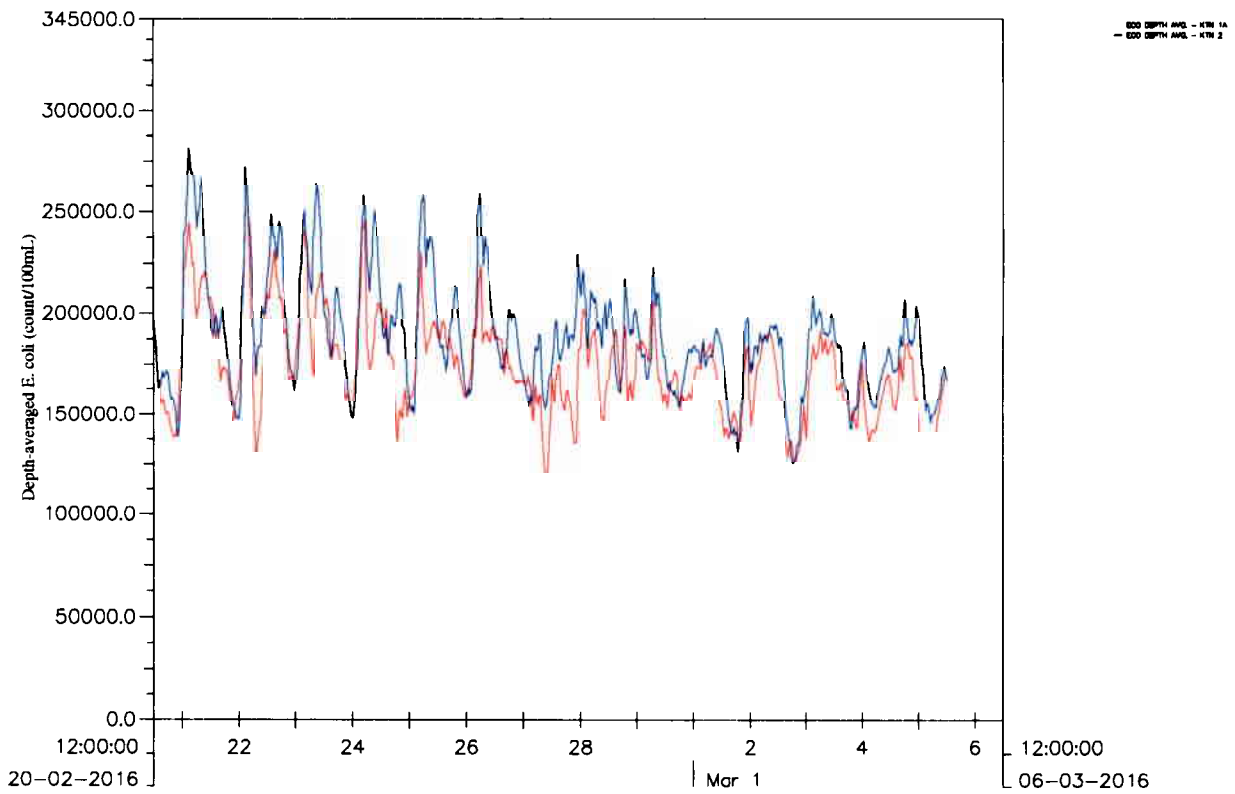


Time Series Plot of DO at KTN - Scenario 2
 Dry Season (Upper); Wet Season (Lower)
 Red: Section at SEKD; Blue: Section near KN1

March 2001

Drawing No. 22936/EN/207

Ove Arup & Partners Hong Kong Ltd



Time Series Plot of E. coli at KTN – Scenario 2

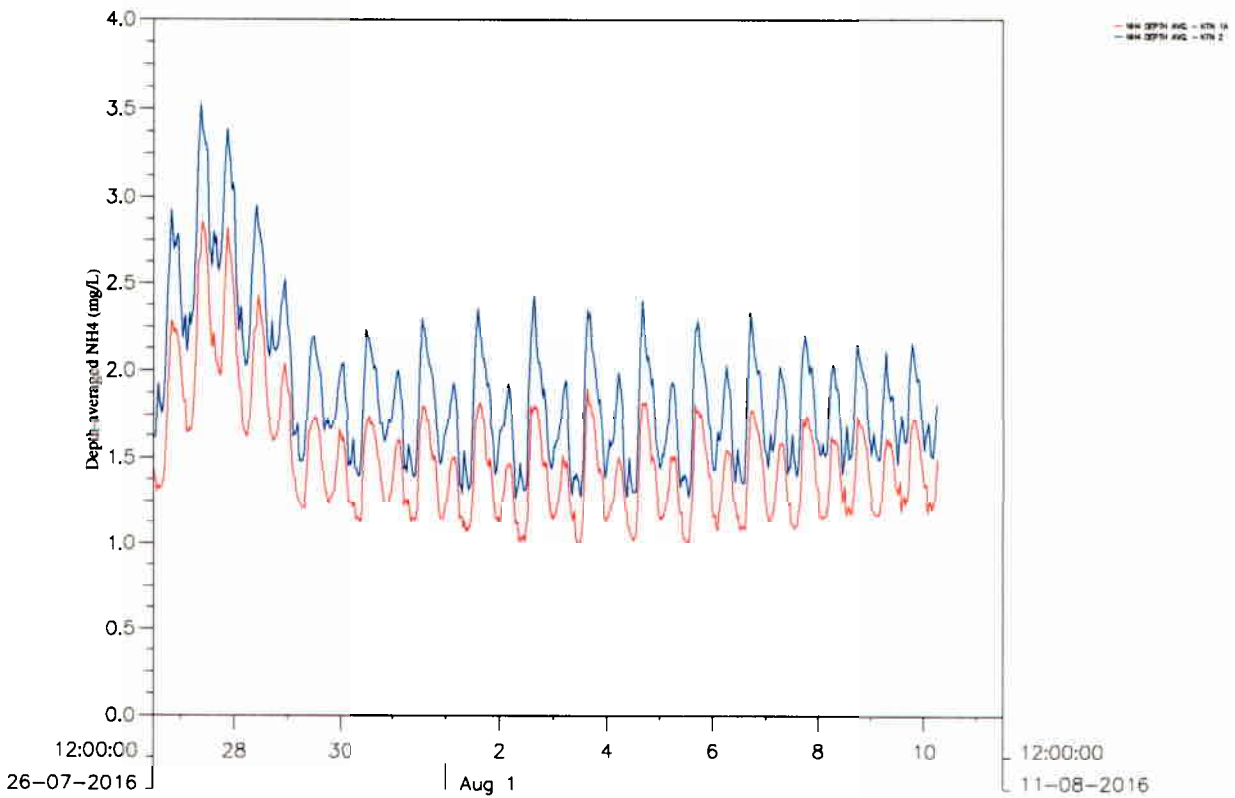
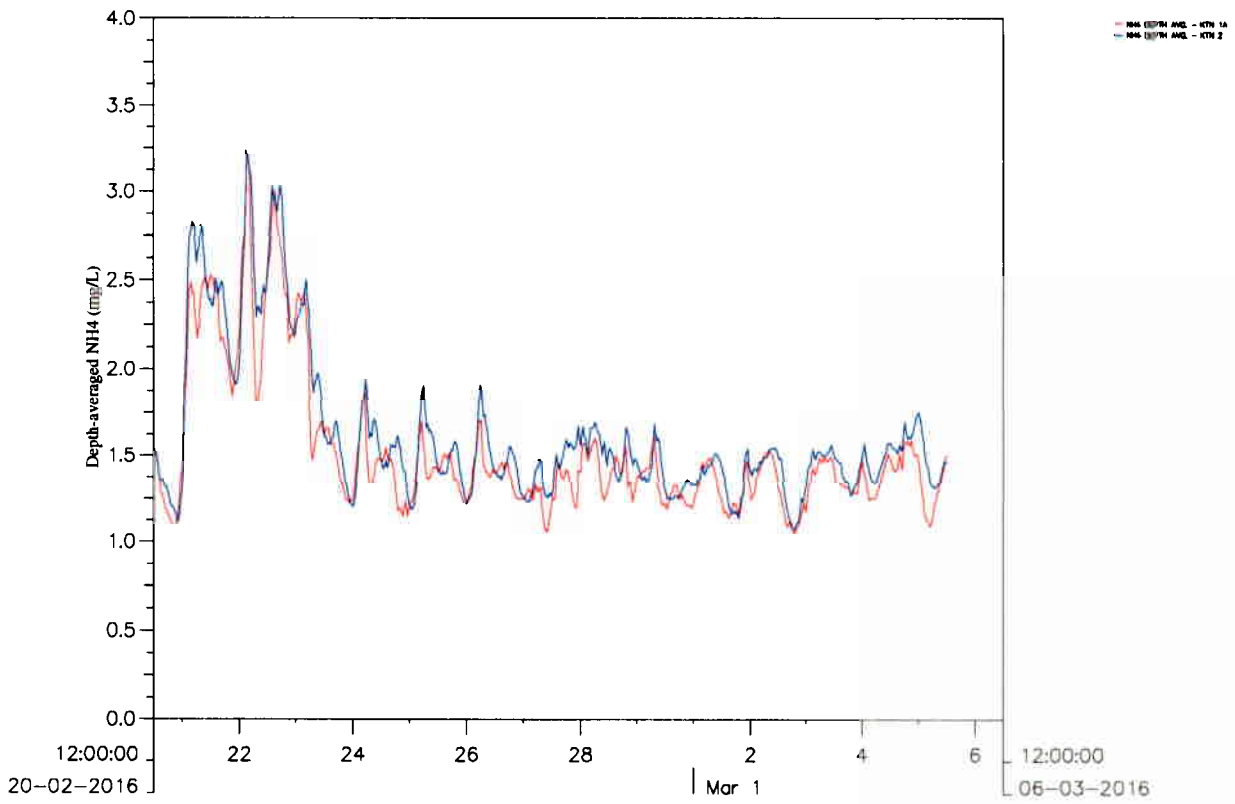
Dry Season (Upper); Wet Season (Lower)

Red: Section at SEKD; Blue: Section at KN1

March 2001

Drawing No. 22936/EN/208

Ove Arup & Partners Hong Kong Ltd



Time Series Plot of Ammonia Nitrogen at KTN – Scenario 2

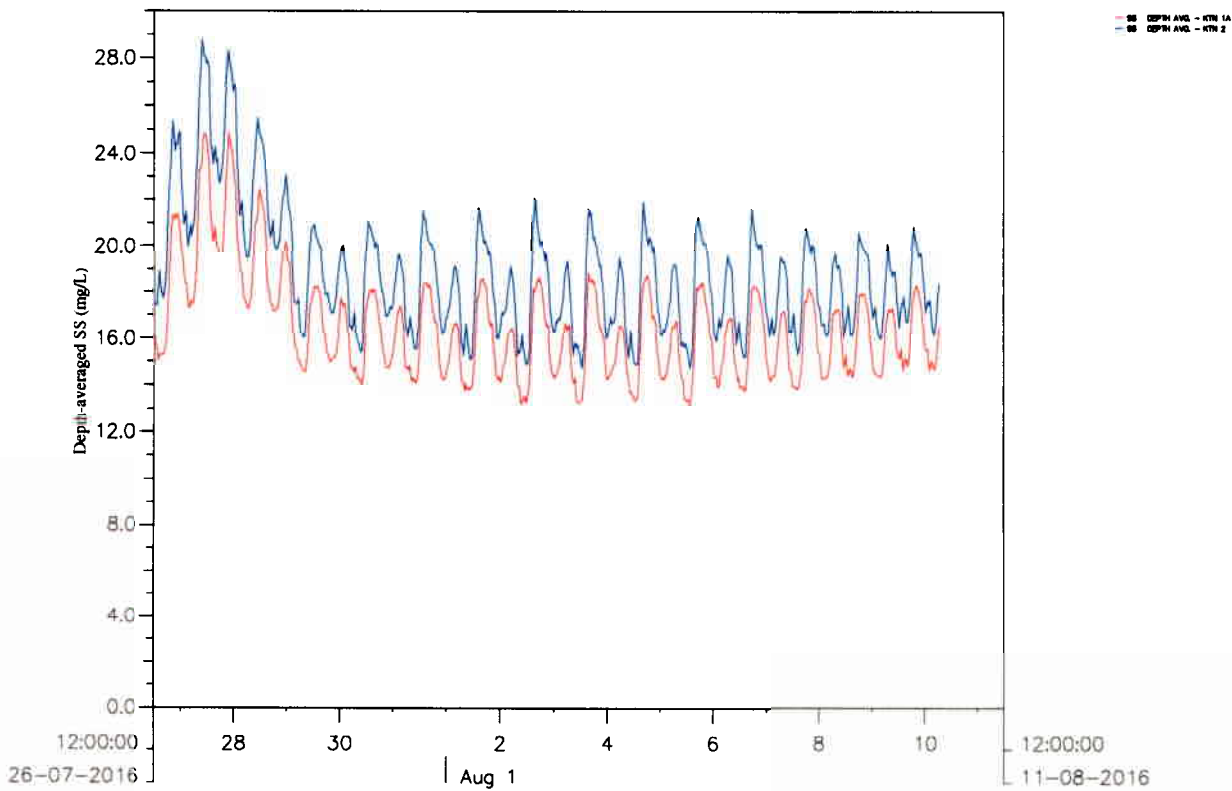
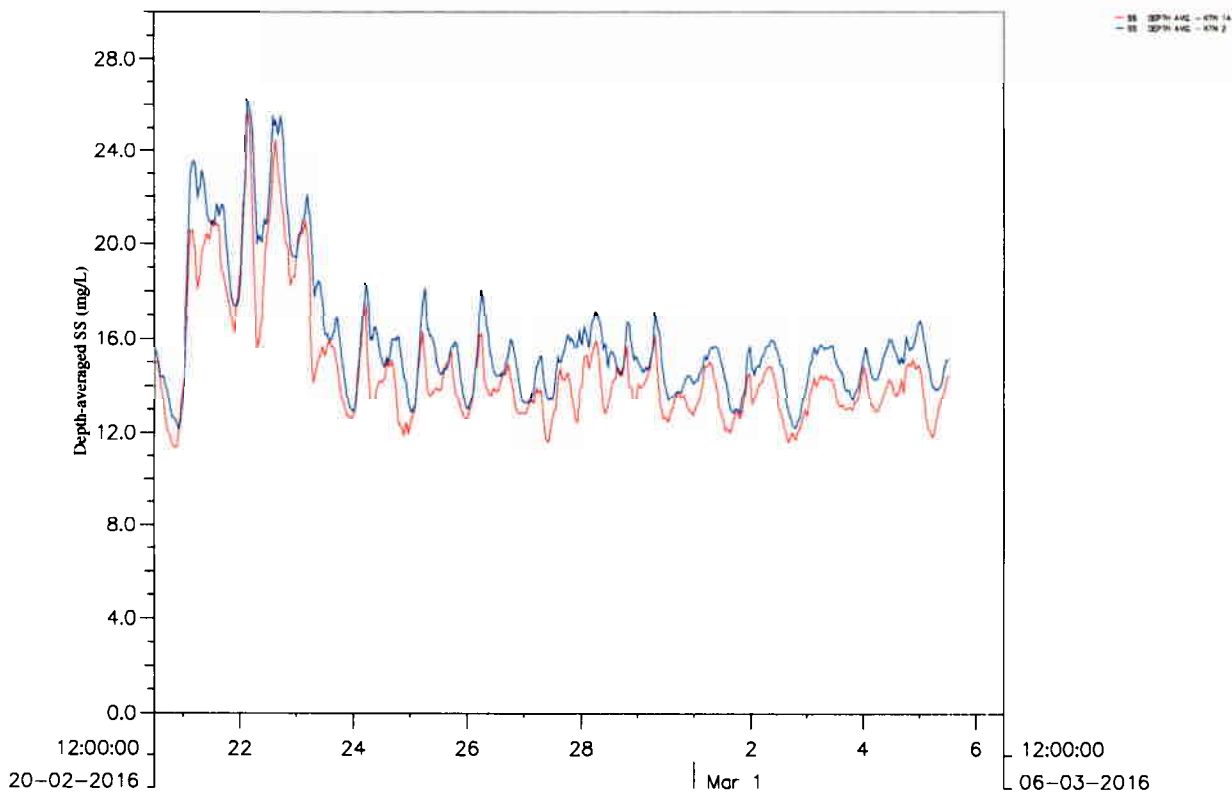
Dry Season (Upper); Wet Season (Lower)

Red: Section at SEKD; Blue: Section near KN1

March 2001

Drawing No. 22936/EN/209

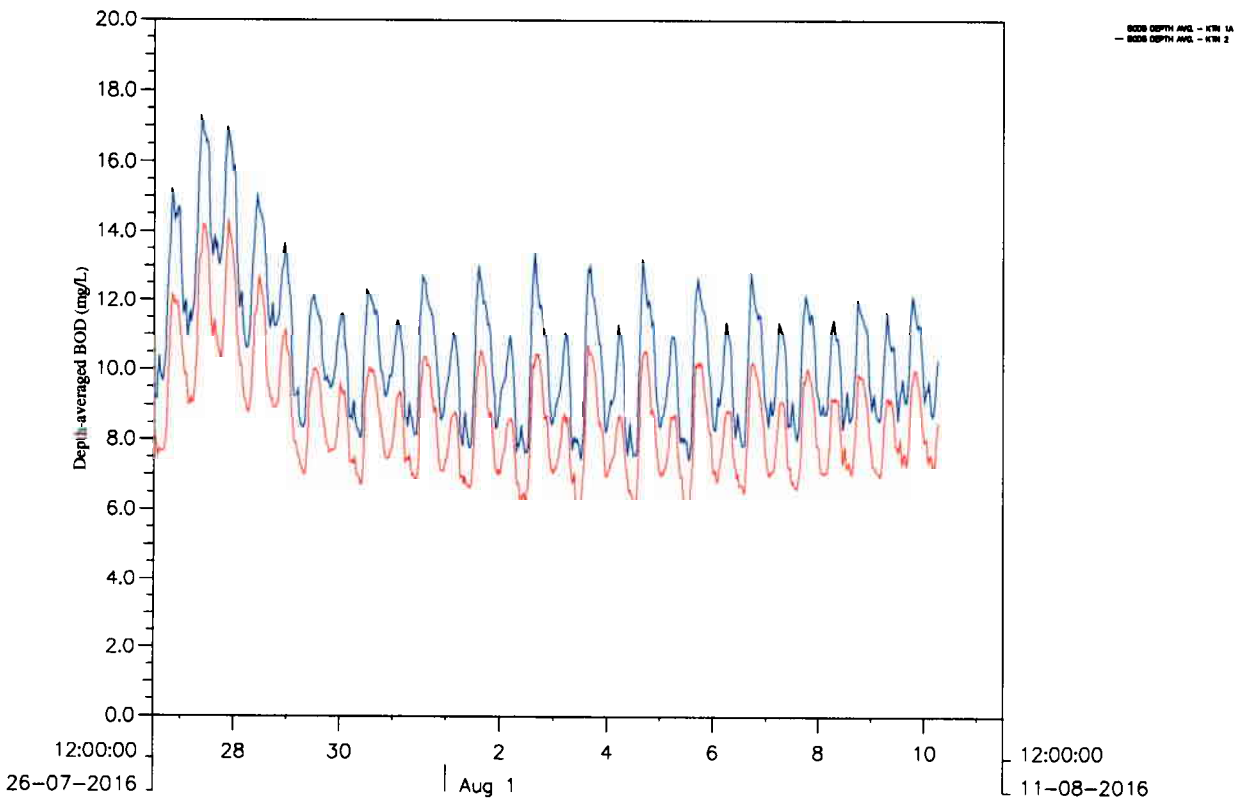
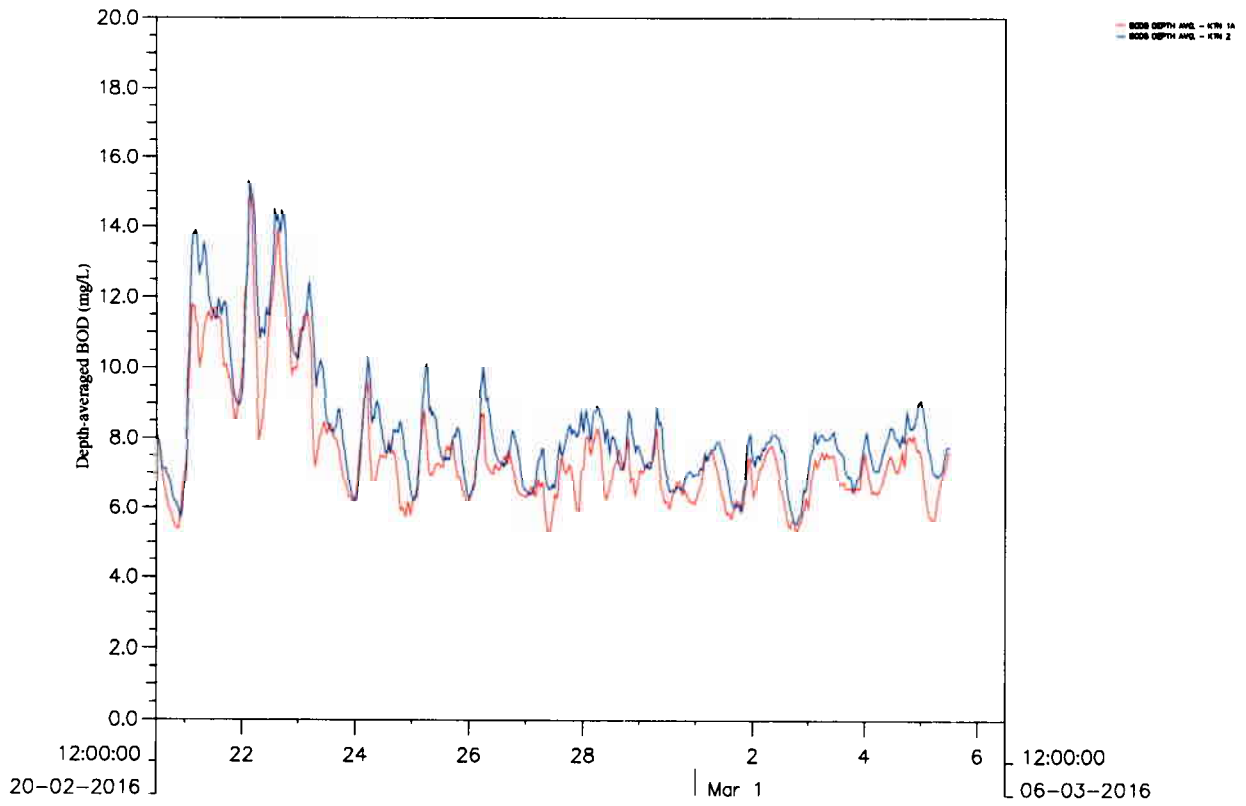
Ove Arup & Partners Hong Kong Ltd



Time Series Plot of SS at KTN – Scenario 2
 Dry Season (Upper); Wet Season (Lower)
 Red: Section at SEKD; Blue: Section near KN1

March 2001

Drawing No. 22936/EN/210



Time Series Plot of BOD at KTN – Scenario 2

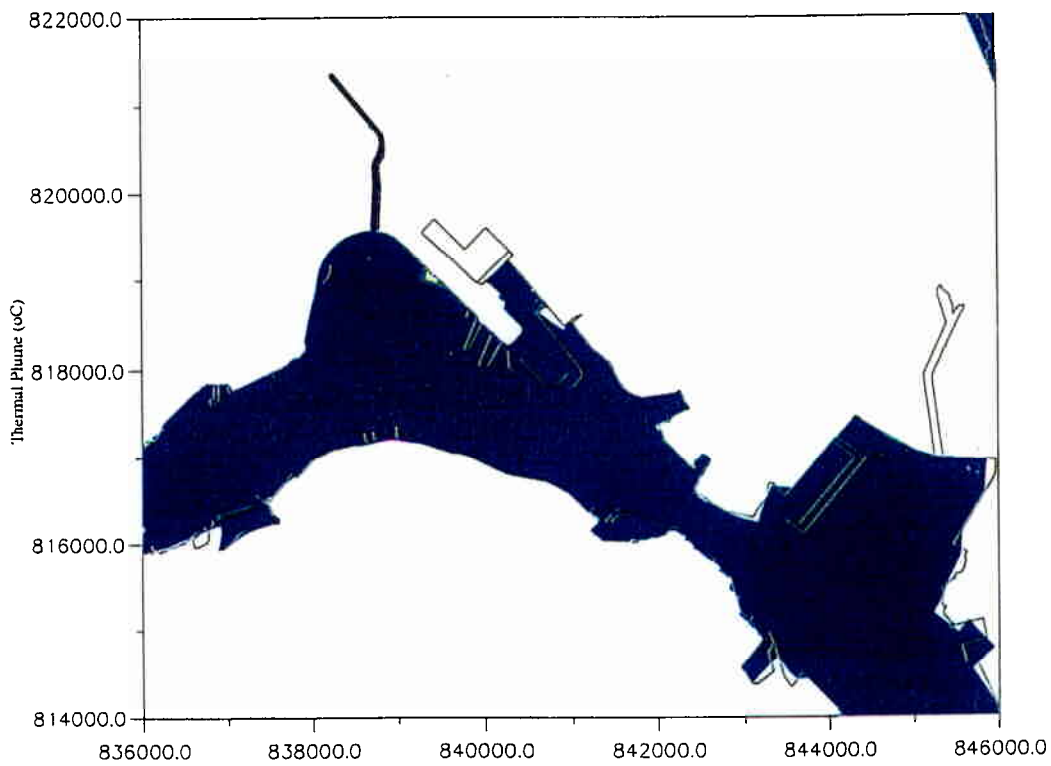
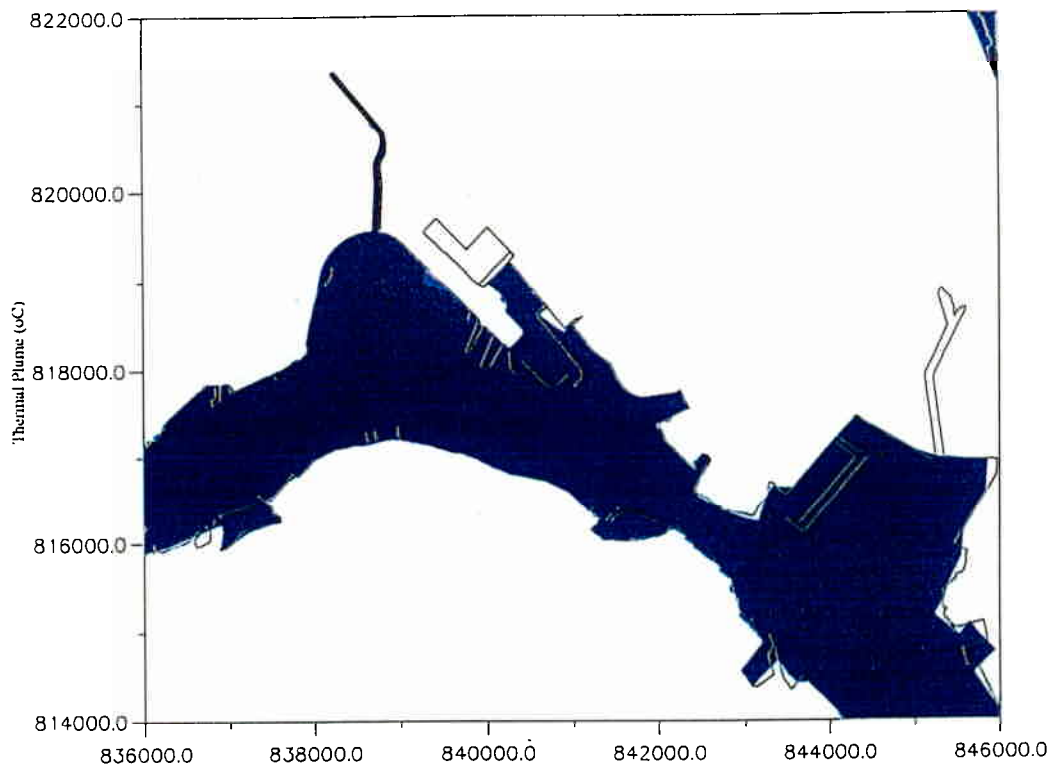
Dry Season (Upper); Wet Season (Lower)

Red: Section at SEKD; Blue: Section near KN1

March 2001

Drawing No. 22936/EN/211

Ove Arup & Partners Hong Kong Ltd



Comprehensive Feasibility Study for Revised Scheme of SEKD

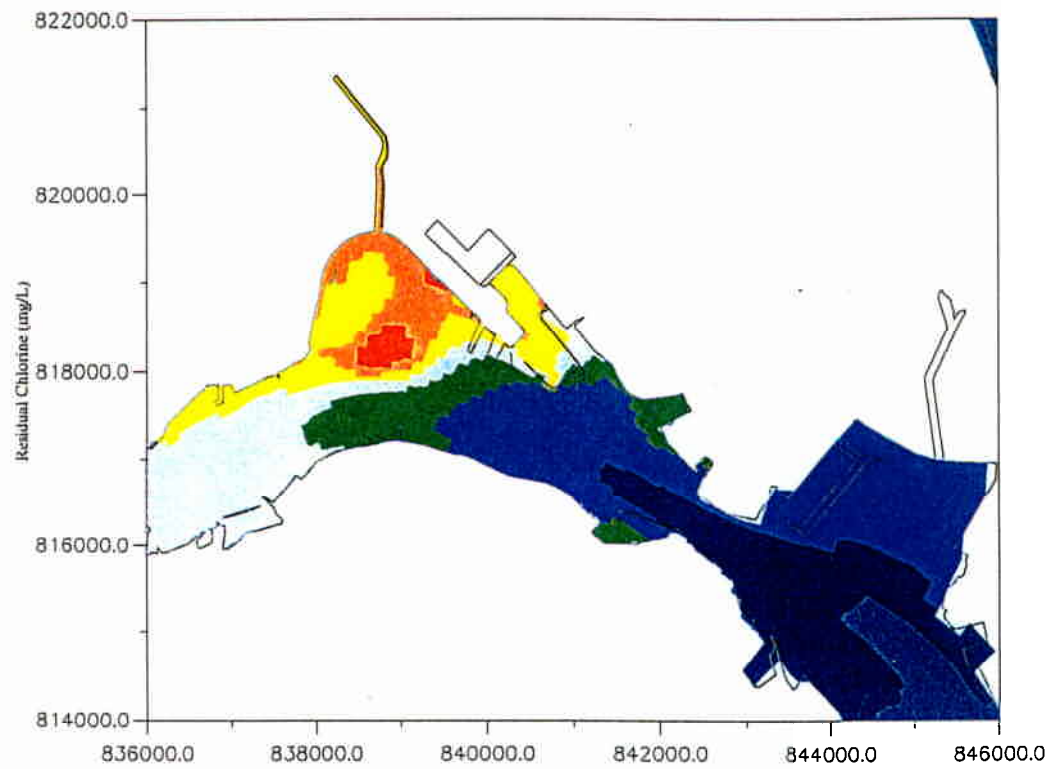
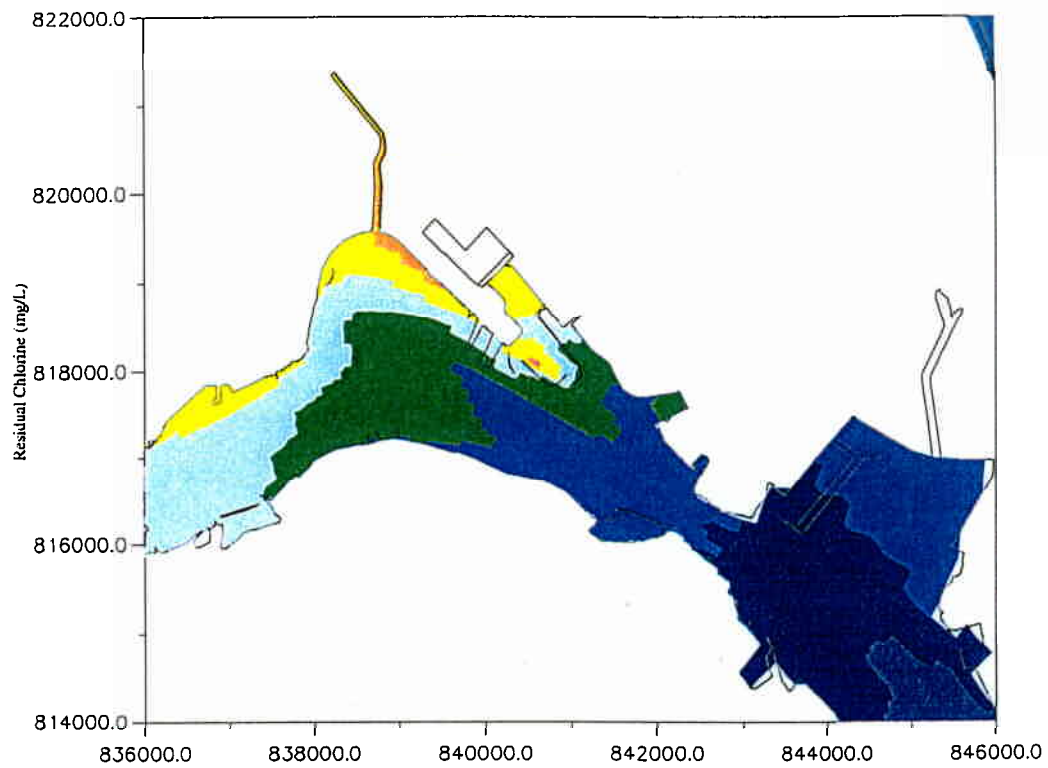
March 2001

Bottom Layer Thermal Plume in Victoria harbour

2016wSEKD Dry Season (Upper: Ebb; Lower: Flood)

Drawing No, 22936/EN/217

Ove Arup & Partners Hong Kong Ltd

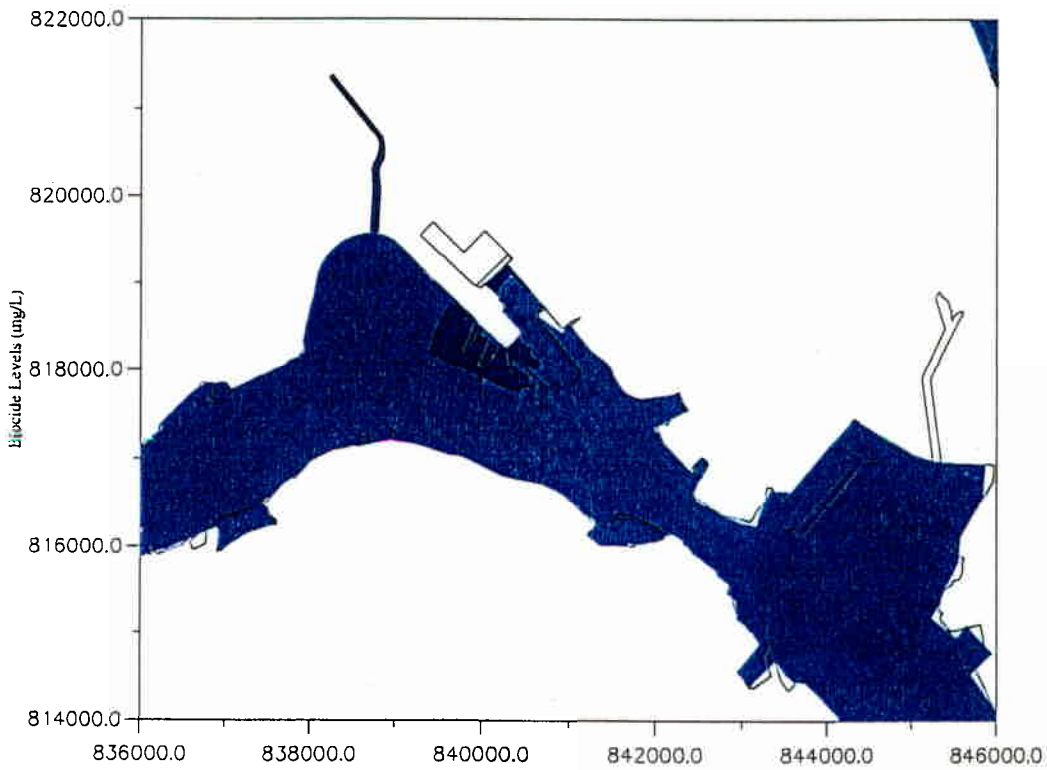
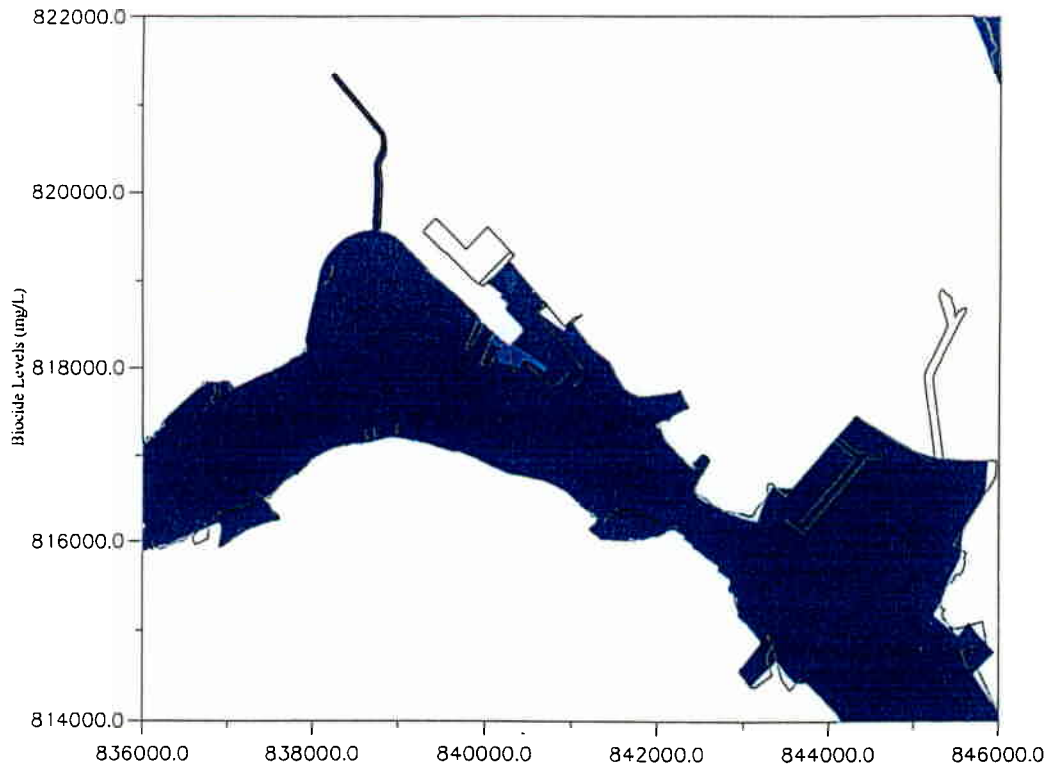


Comprehensive Feasibility Study for Revised Scheme of SEKD
 Bottom Layer Residual Chlorine in Victoria Harbour
 2016wSEKD Dry Season (Upper: Ebb; Lower: Flood)

March 2001

Drawing No. 22936/EN/218

Ove Arup & Partners Hong Kong Ltd



Comprehensive Feasibility Study for Revised Scheme of SEKD

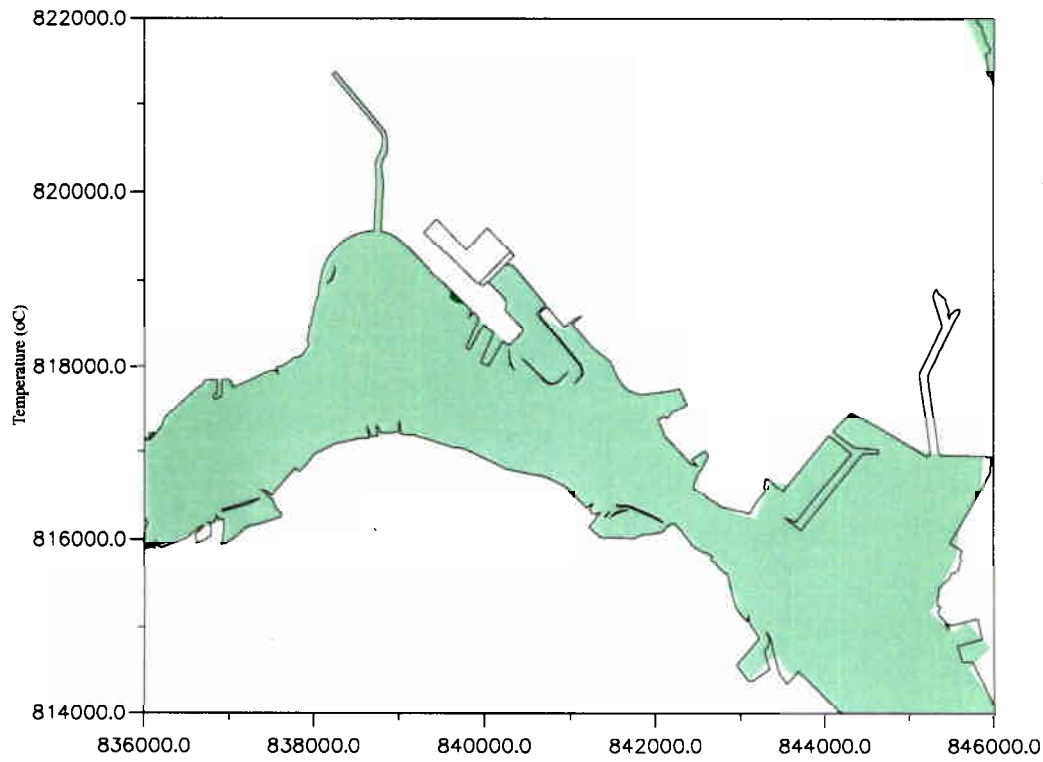
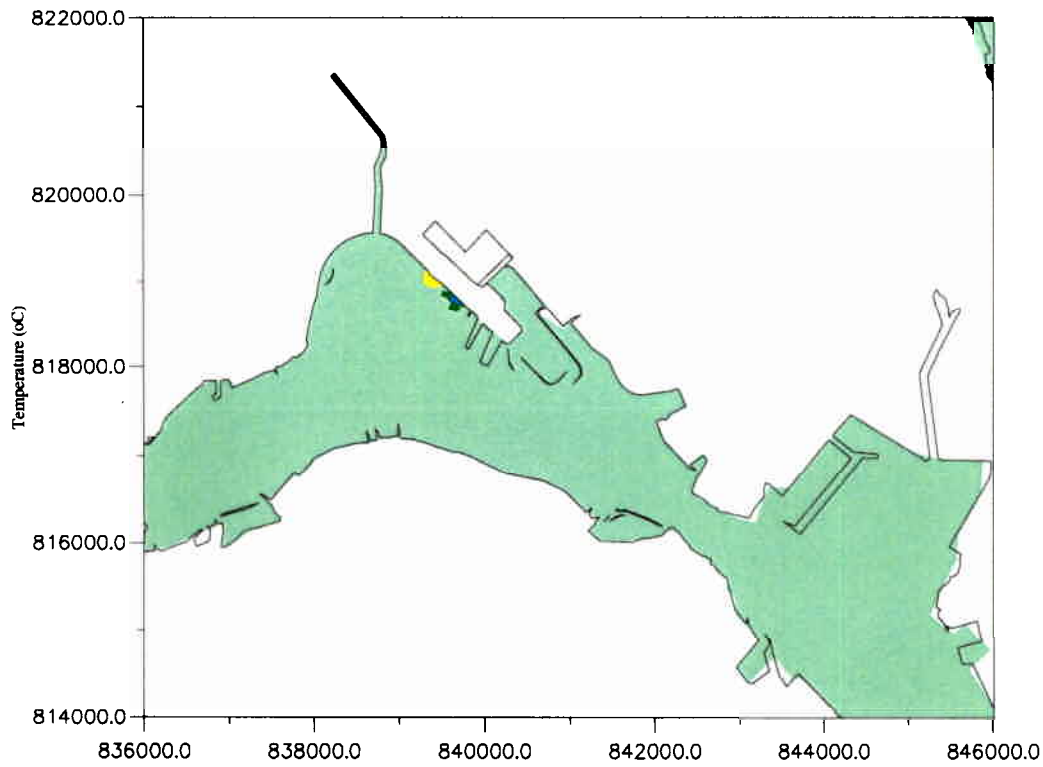
March 2001

Bottom Layer Biocide Levels in Victoria Harbour

2016wSEKD Dry Season (Upper: Ebb; Lower : Flood)

Drawing No. 22936/EN/219

Ove Arup & Partners Hong Kong Ltd

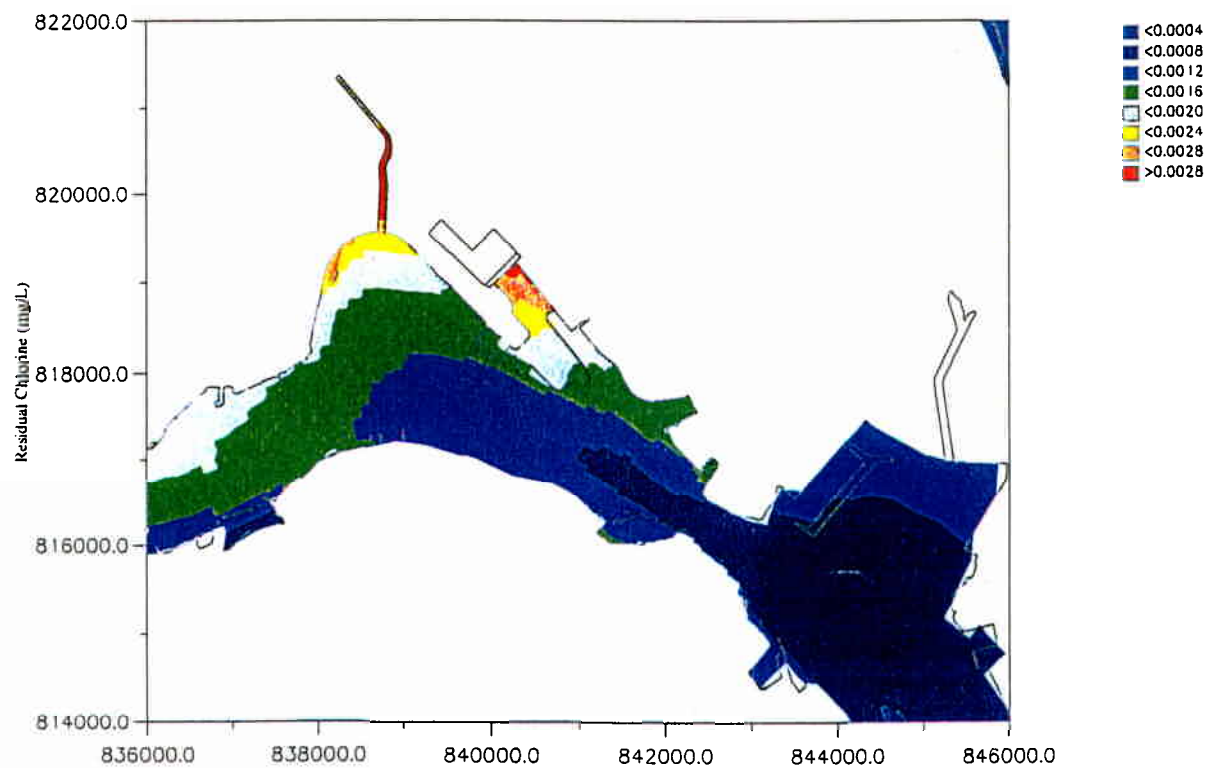
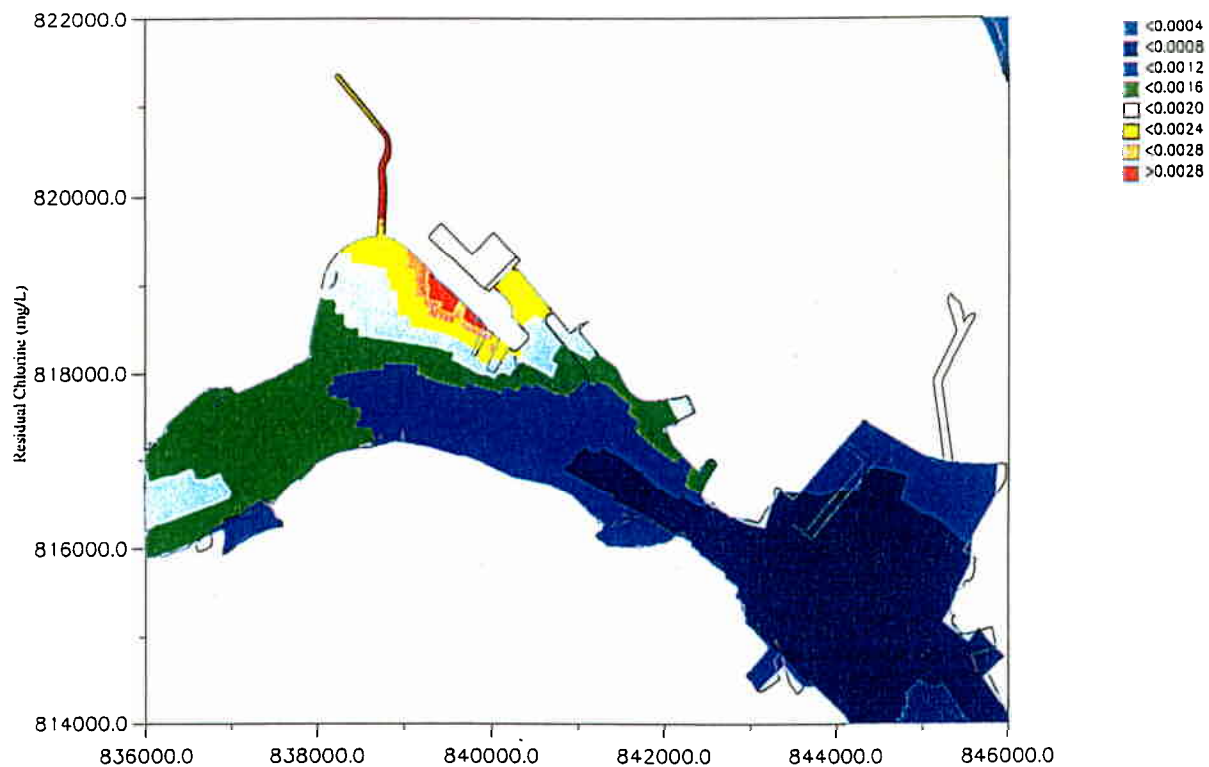


Comprehensive Feasibility Study for Revised Scheme of SEKD
 Bottom Layer Thermal Plume in Victoria Harbour
 2016wSEKD Wet Season (Upper:ebb; Lower: Flood)

May 2001

Drawing No. 22936/EN/220

Ove Arup & Partners Hong Kong Ltd

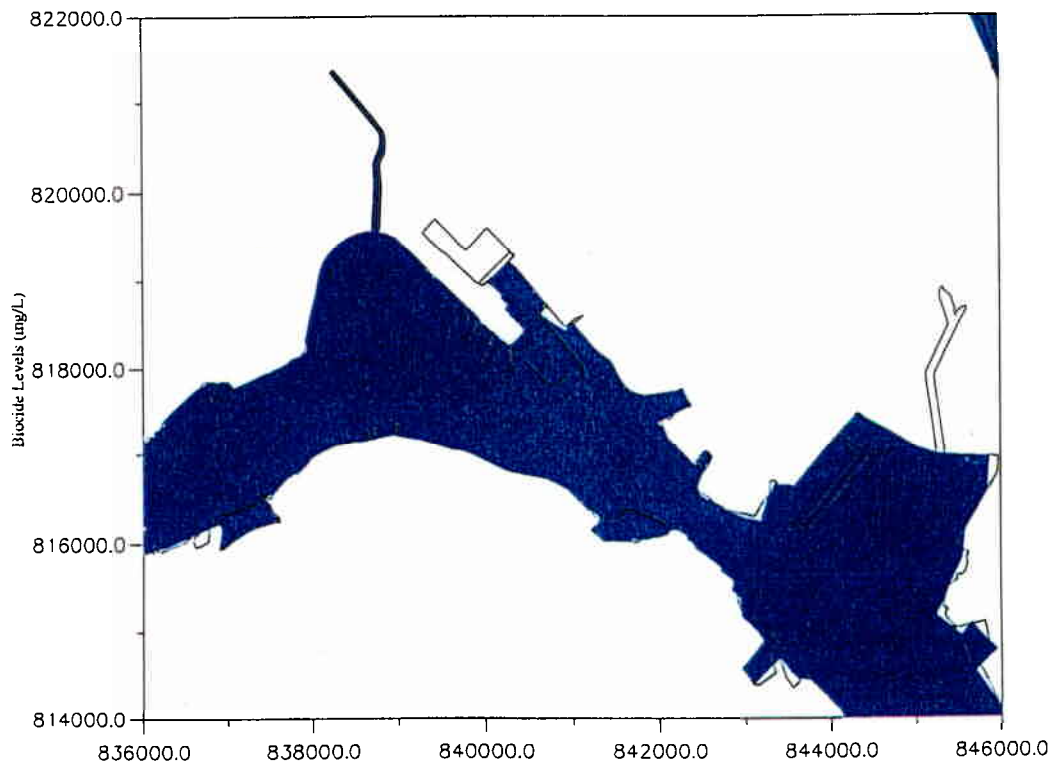
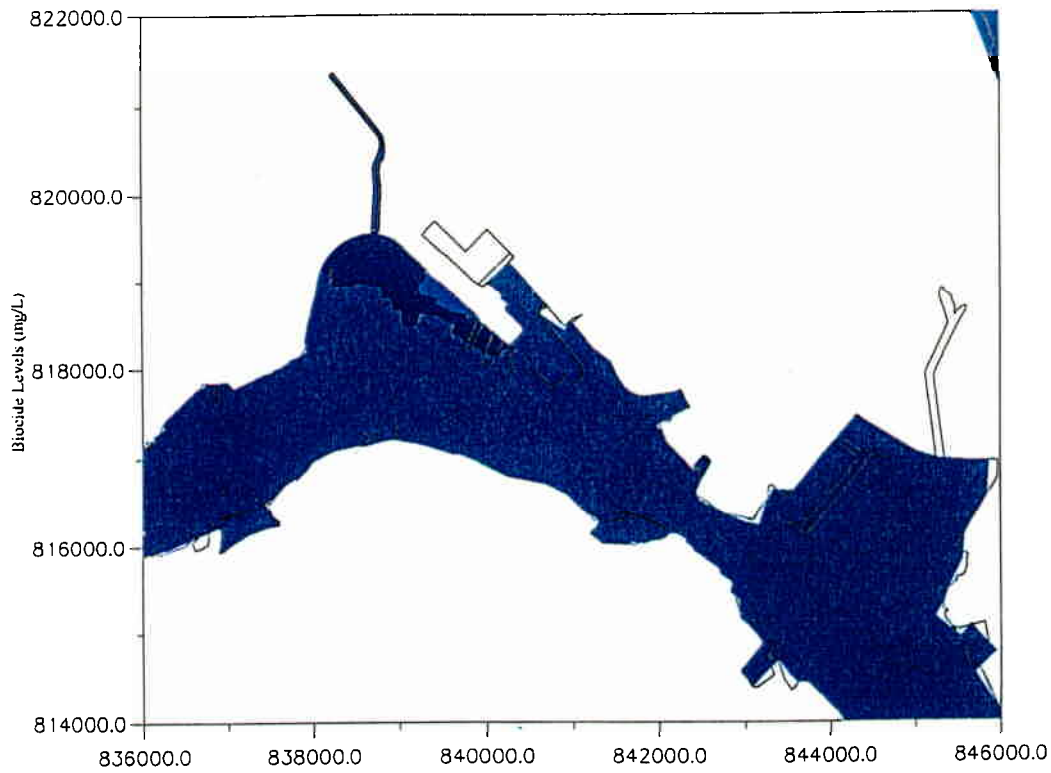


Comprehensive Feasibility Study for the Revised Scheme
 Bottom Layer Residual Chlorine in Victoria Harbour
 2016wSEKD Wet Season (Upper: Ebb; Lower: Flood)

March 2001

Drawing No. 22936/EN/221

Ove Arup & Partners Hoong Kong Ltd

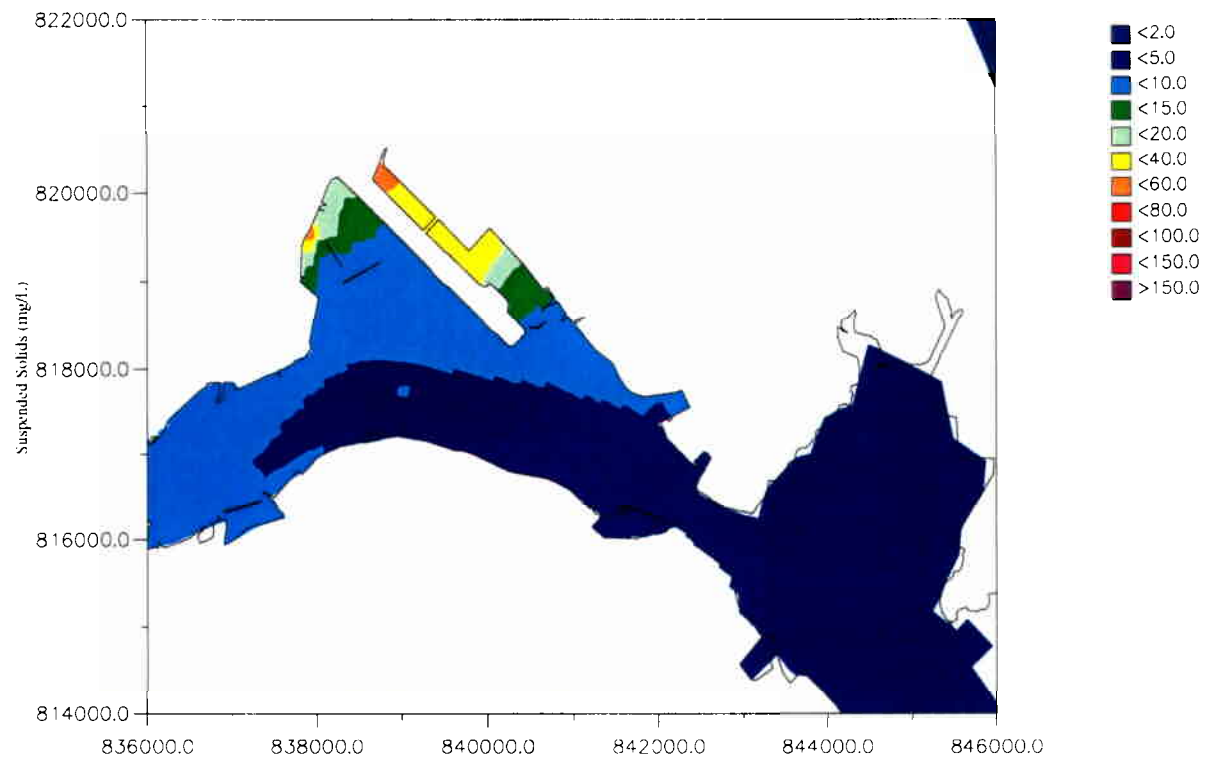
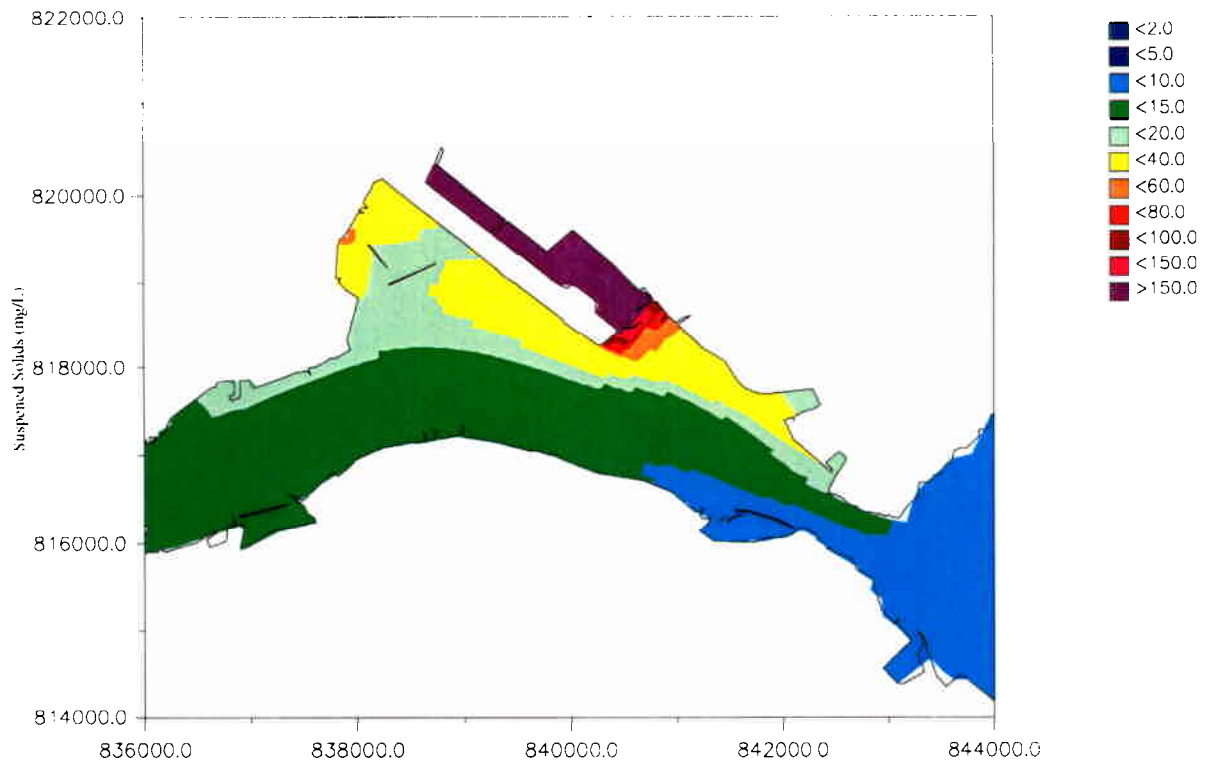


Comprehensive Feasibility for Revised Scheme of SEKD
 Bottom Layer Biocide Levels in Victoria Harbour
 2016wSEKD Wet Season (Upper: Flood; Lower: Ebb)

March 2001

Drawing No. 22936/EN/222

Ove Arup & Partners Hong Kong Ltd

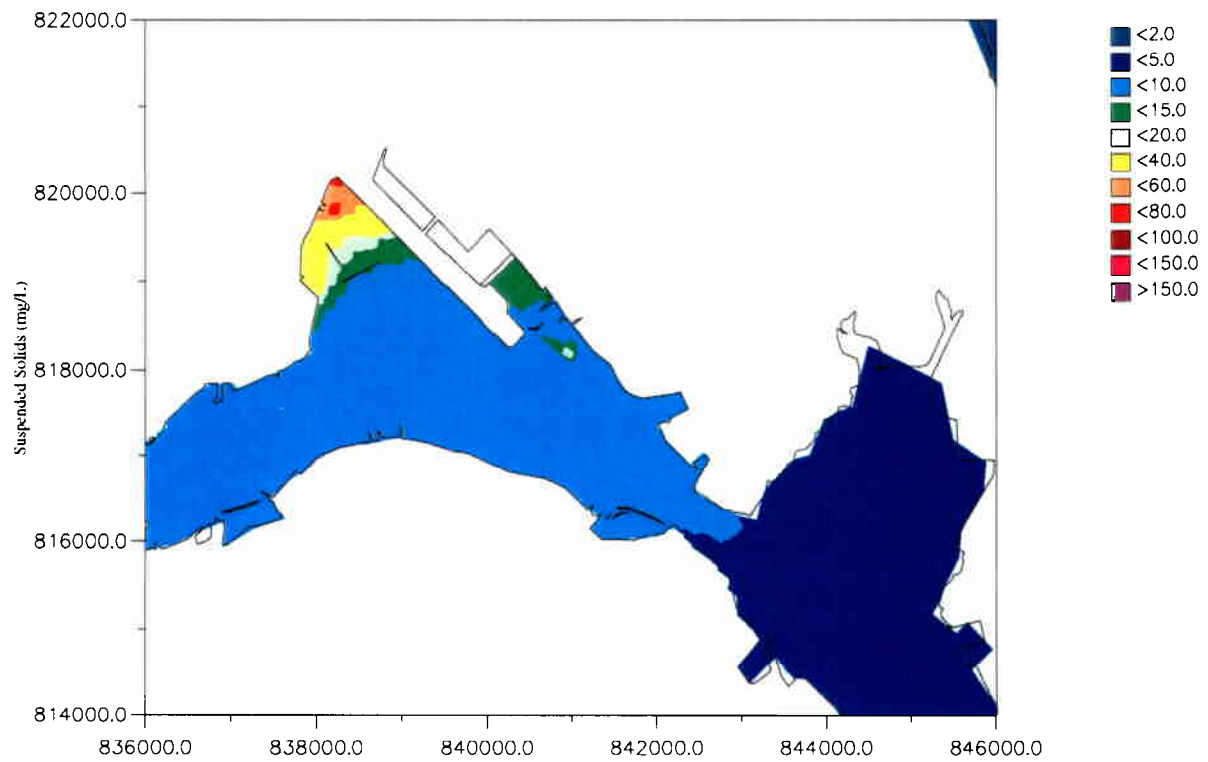
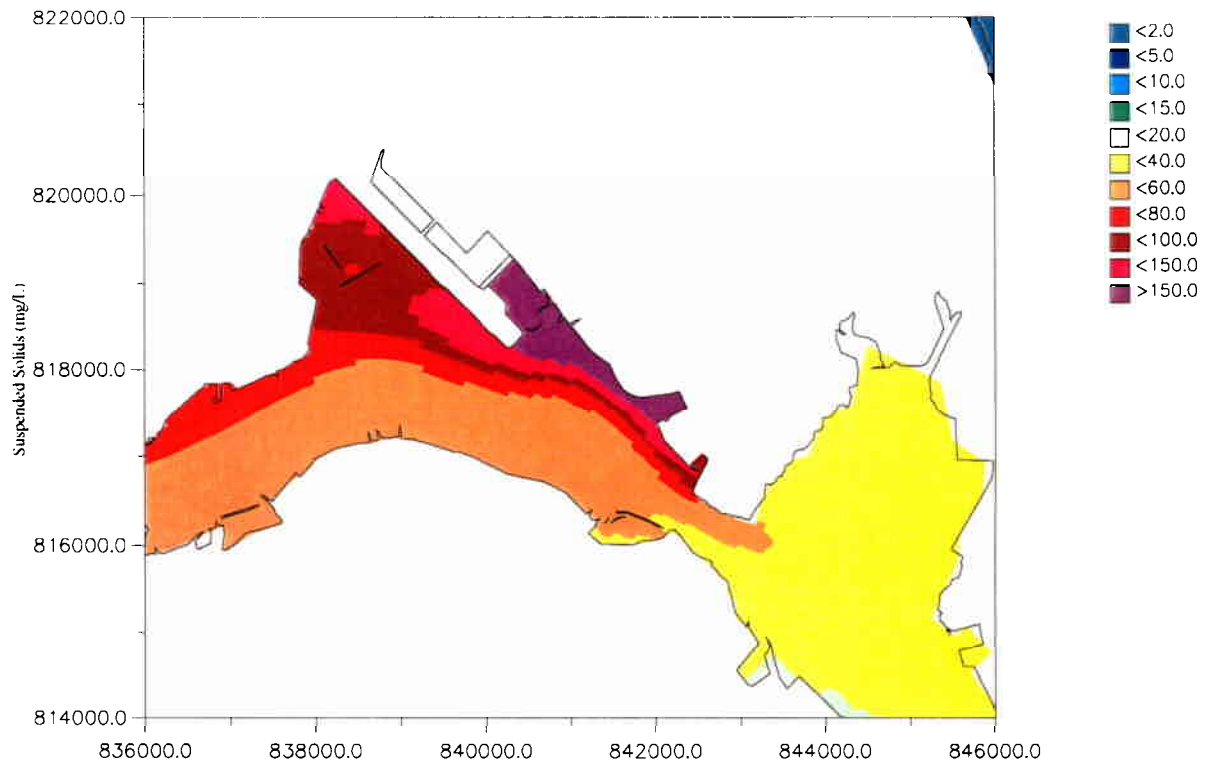


Comprehensive Feasibility Study for Revised Scheme of SEDK
 Dry Season Scenario - Mean Depth Averaged Suspended Solids
 Upper: Scenario 1 (No Mitigation); Lower: Scenario 1 (with Mitigation)

May 2001

Drawing No. 22936/EN/250

Ove Arup & Partners Hong Kong Ltd



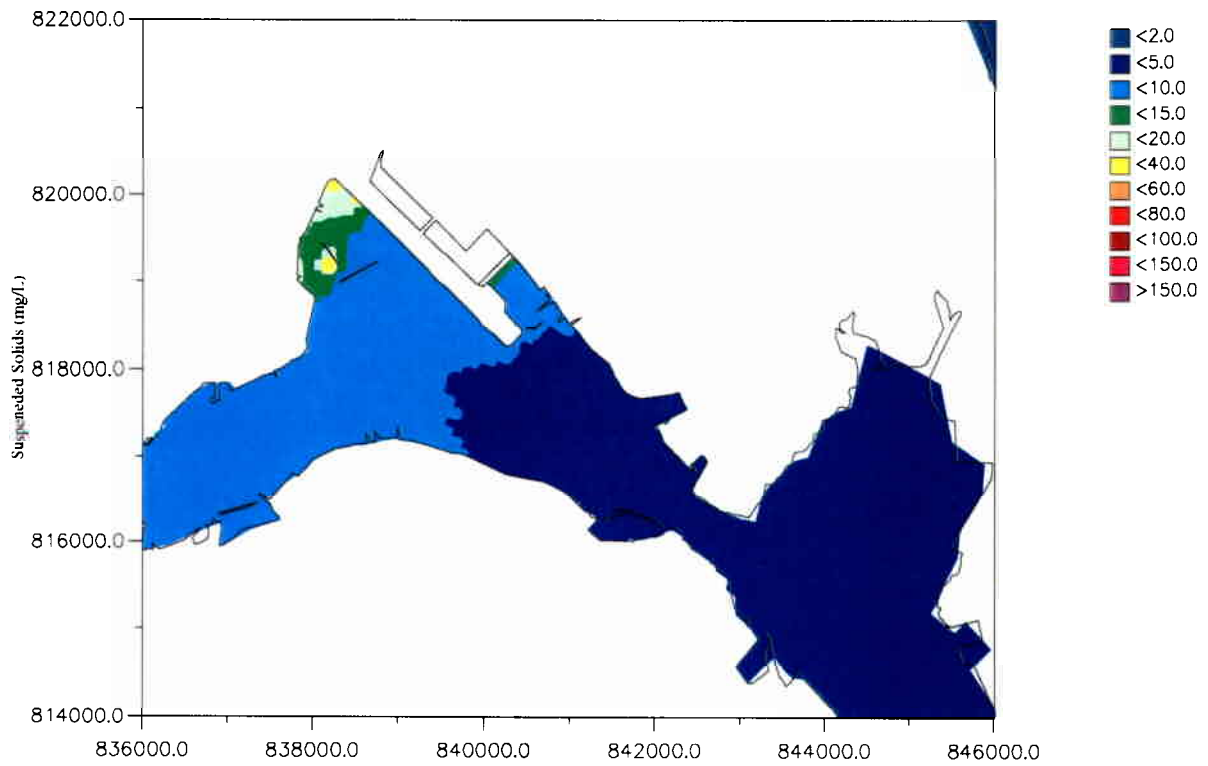
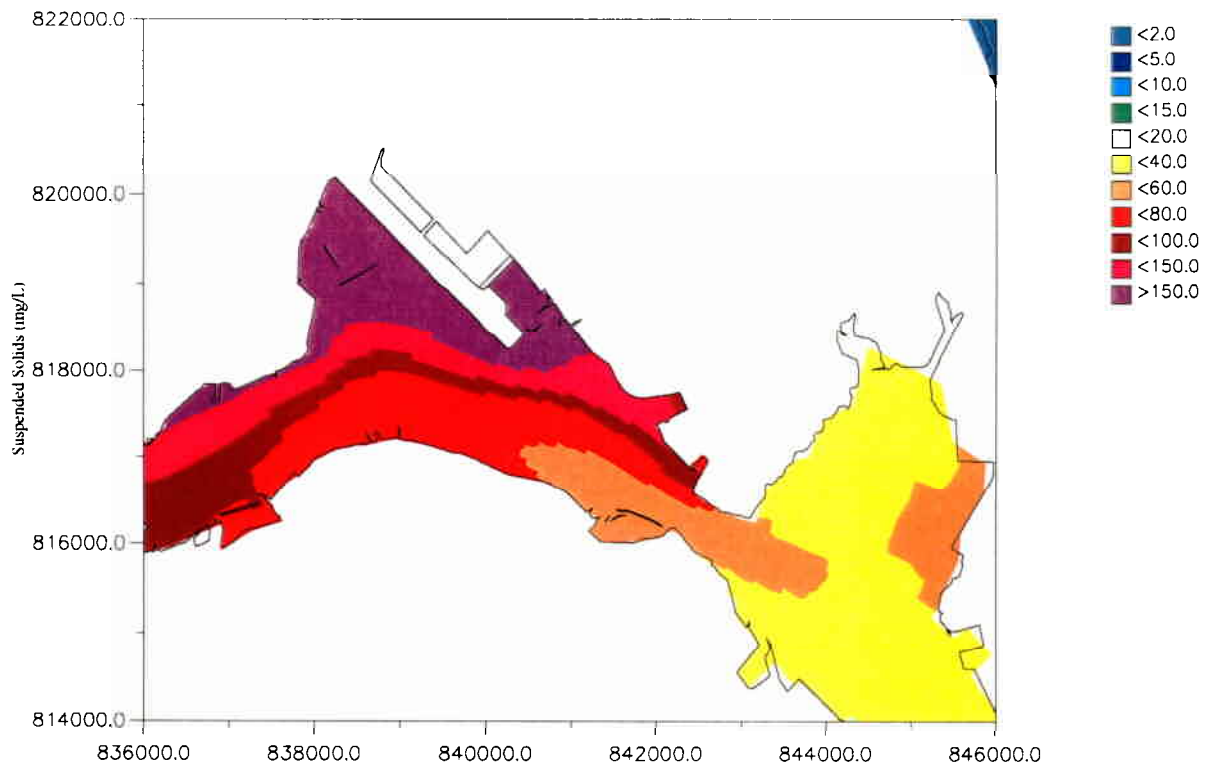
Comprehensive Feasibility Study for Revised Scheme of SEKD
 Dry Season Scenario – Mean Depth Averaged Suspended Solids

March 2001

Upper: Scenario 2 (No Mitigation); Lower: Scenario 2 (with Mitigation)

Drawing No. 22936/EN/251

Ove Arup & Partners Hong Kong Ltd

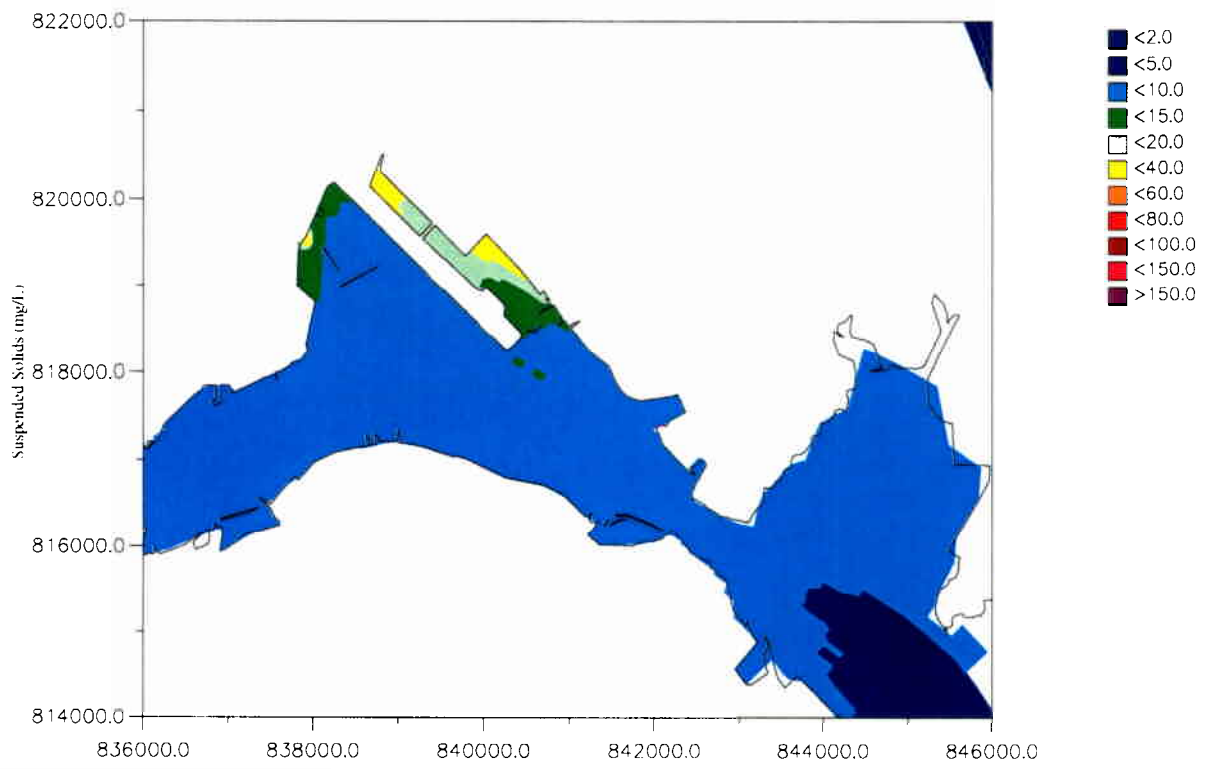
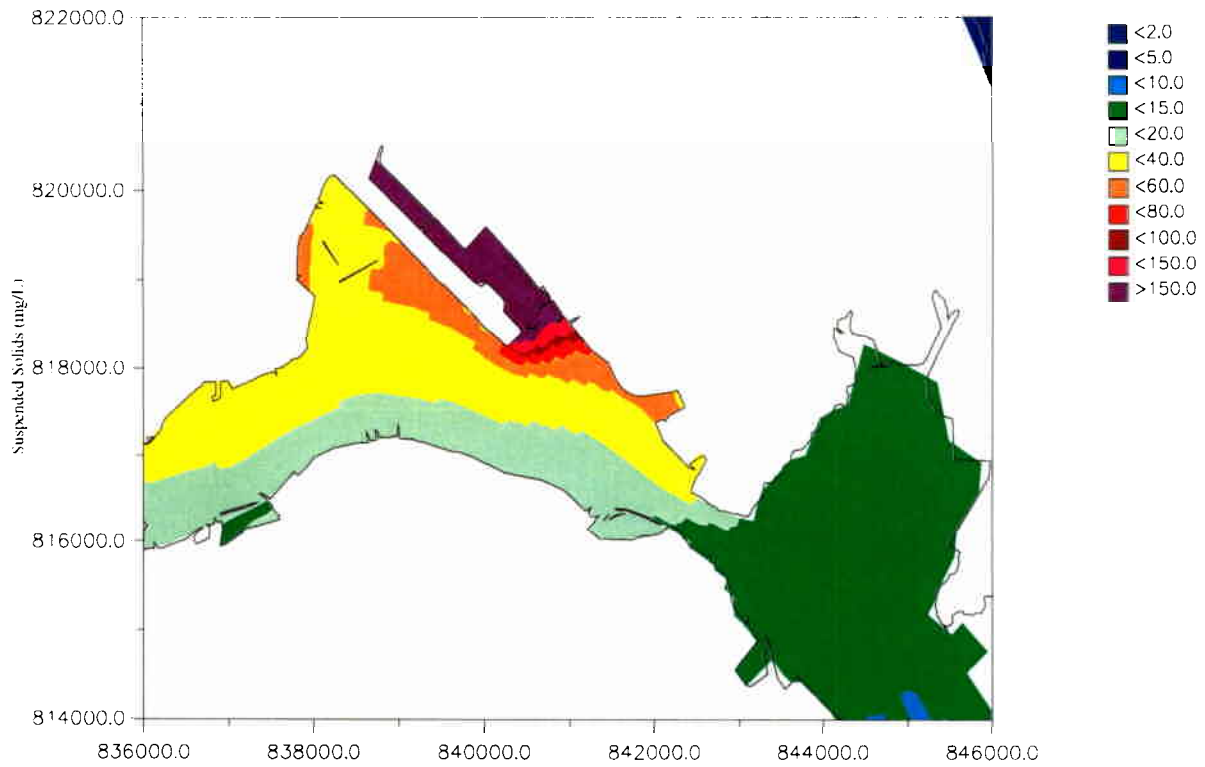


Comprehensive Feasibility Study for Revised Scheme of SEKD
 Dry Season Scenario – Mean Depth Averaged Suspended Solids
 Upper: Scenario 3 (No Mitigation); Lower: Scenario 3 (Mitigation)

March 2001

Drawing No. 22936/EN/252

Ove Arup & Partners Hong Kong Ltd

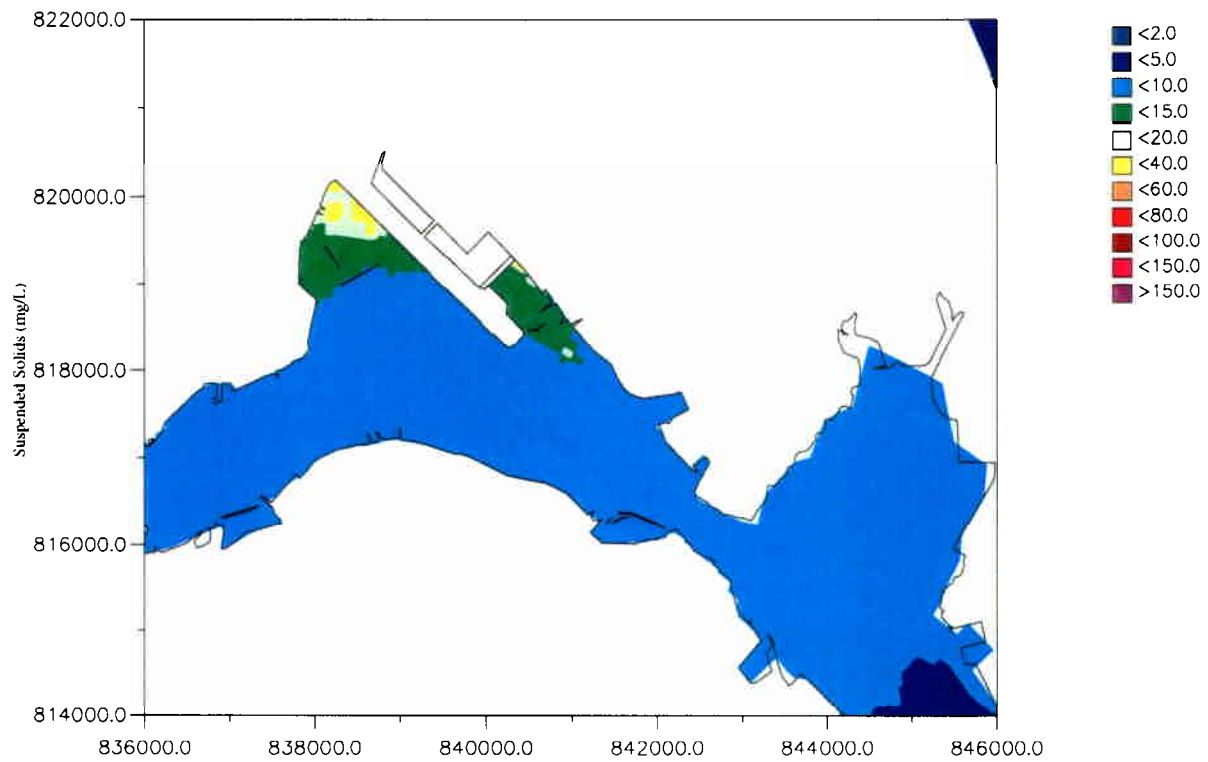
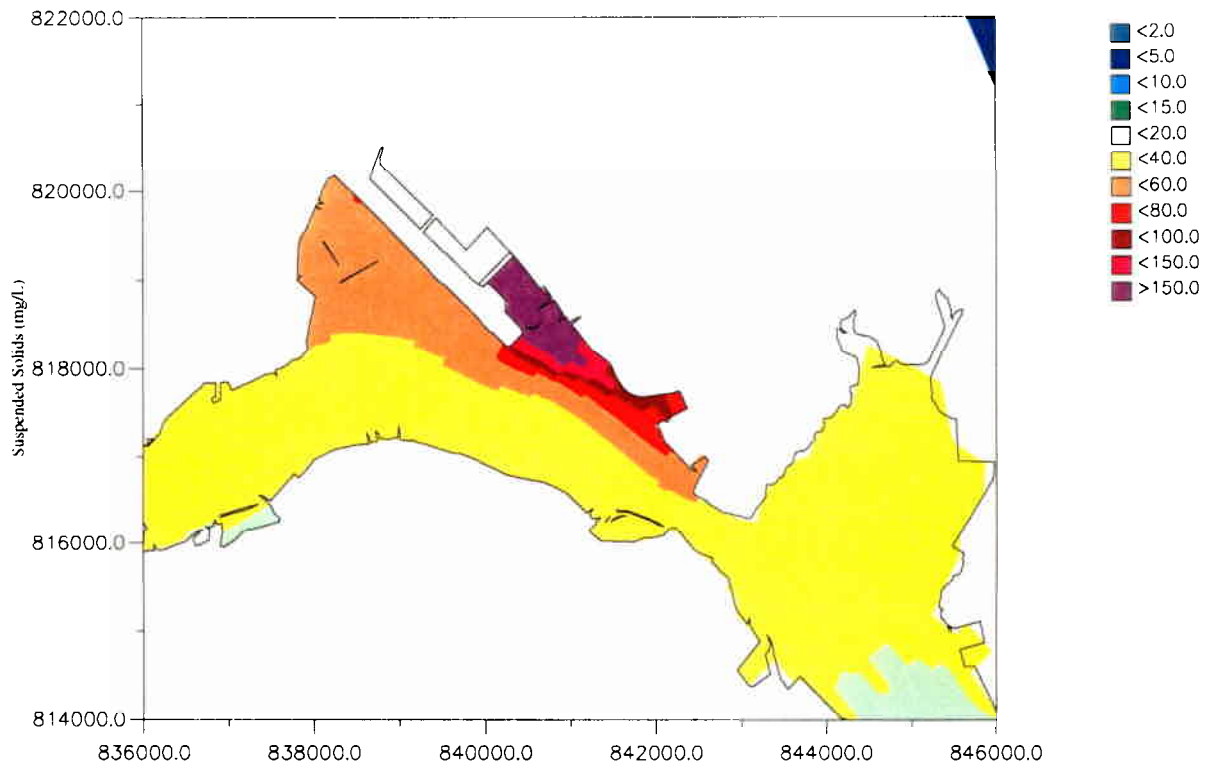


Comprehensive Feasibility Study for Revised Scheme of SEKD
 Wet Season Scenario – Mean Depth Averaged Suspended Solids
 Upper: Scenario 1 (No Mitigation); Lower: Scenario 1 (Mitigation)

May 2001

Drawing No. 22936/EN/253

Ove Arup & Partners Hong Kong Ltd

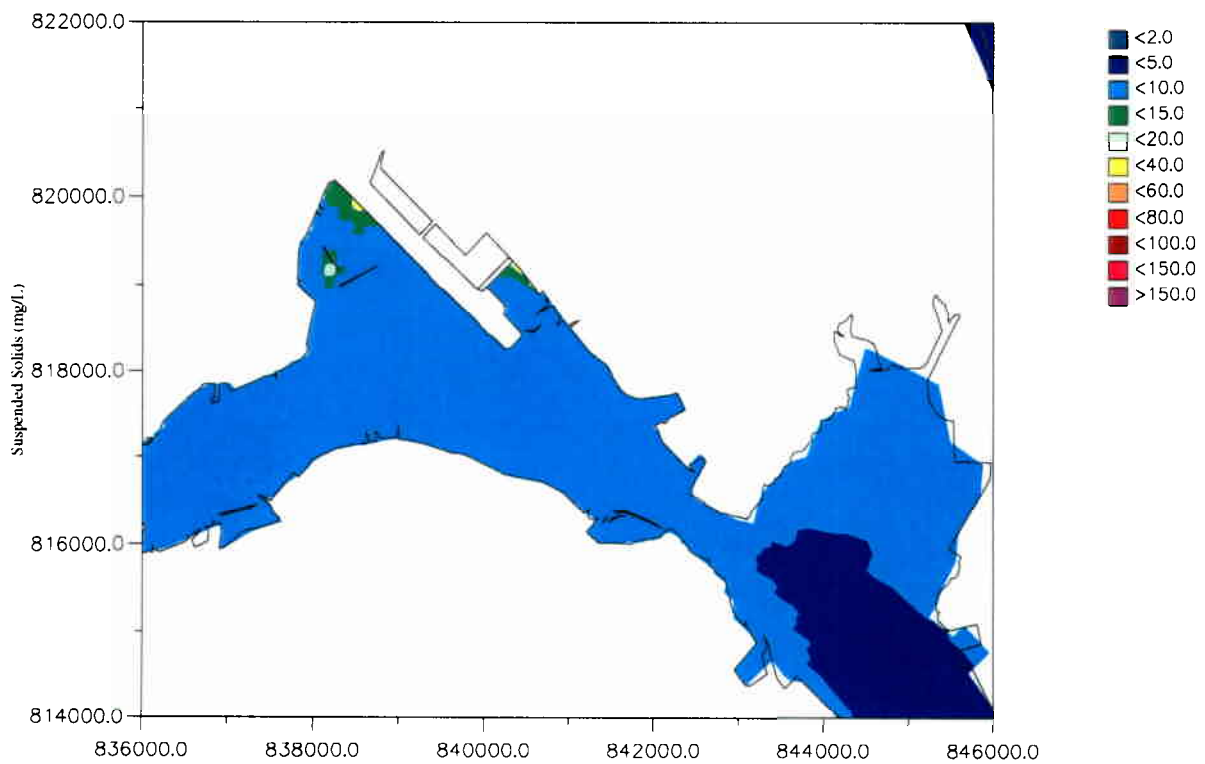
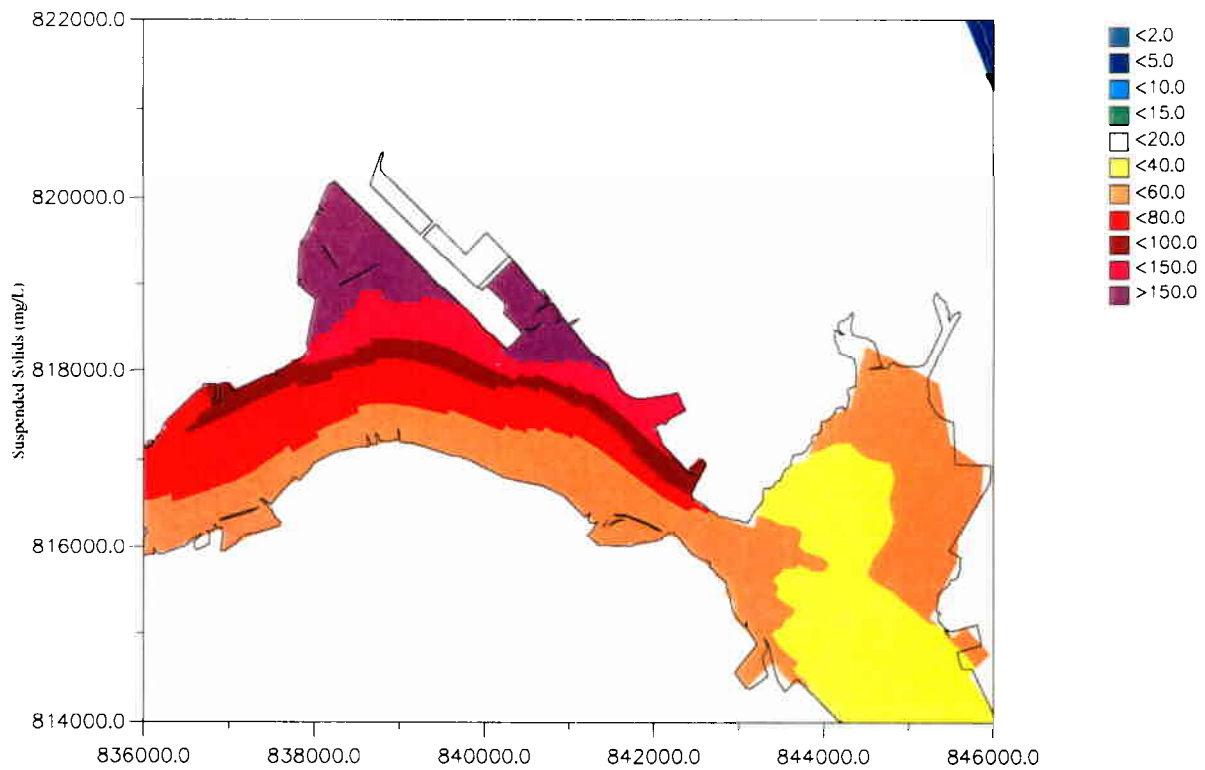


Comprehensive Feasibility Study for Revised Scheme of SEKD
 Wet Season – Mean Depth Averaged Suspended Solids
 Upper: Scenario 2 (No Mitigation); Lower: Scenario 2 (Mitigation)

March 2001

Drawing No. 22936/EN/254

Ove Arup & Partners Hong Kong Ltd

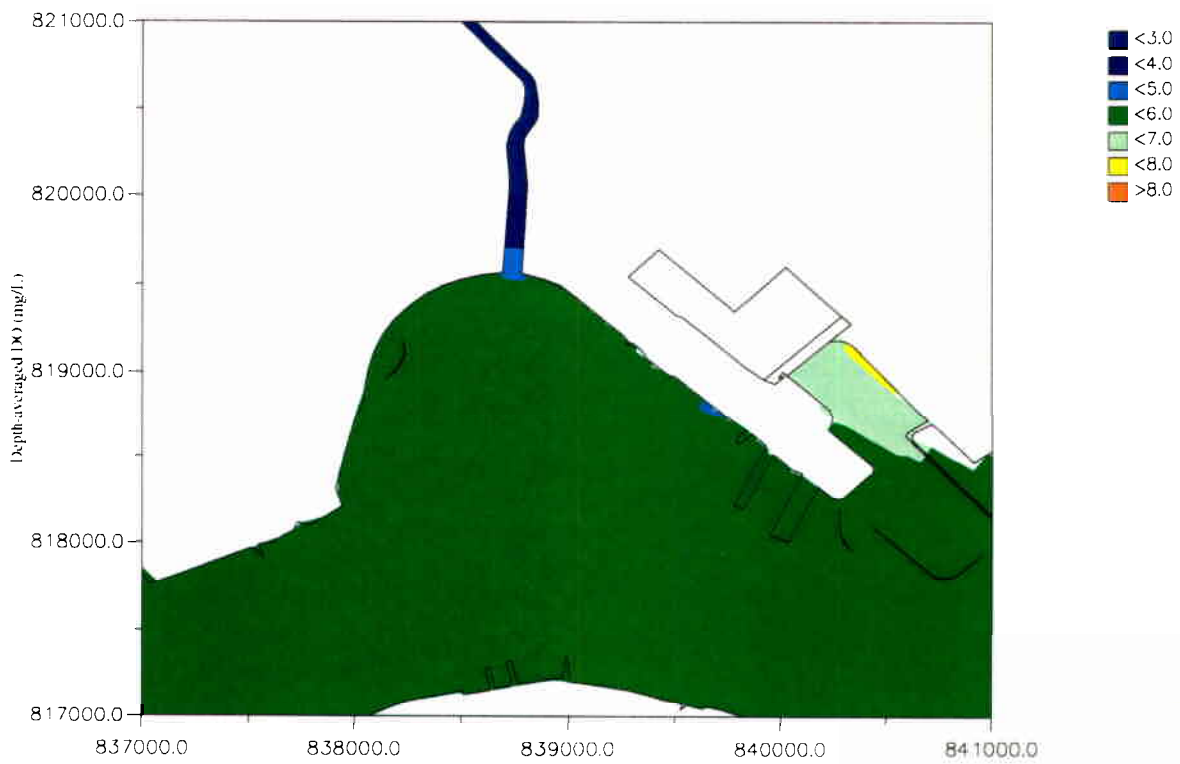
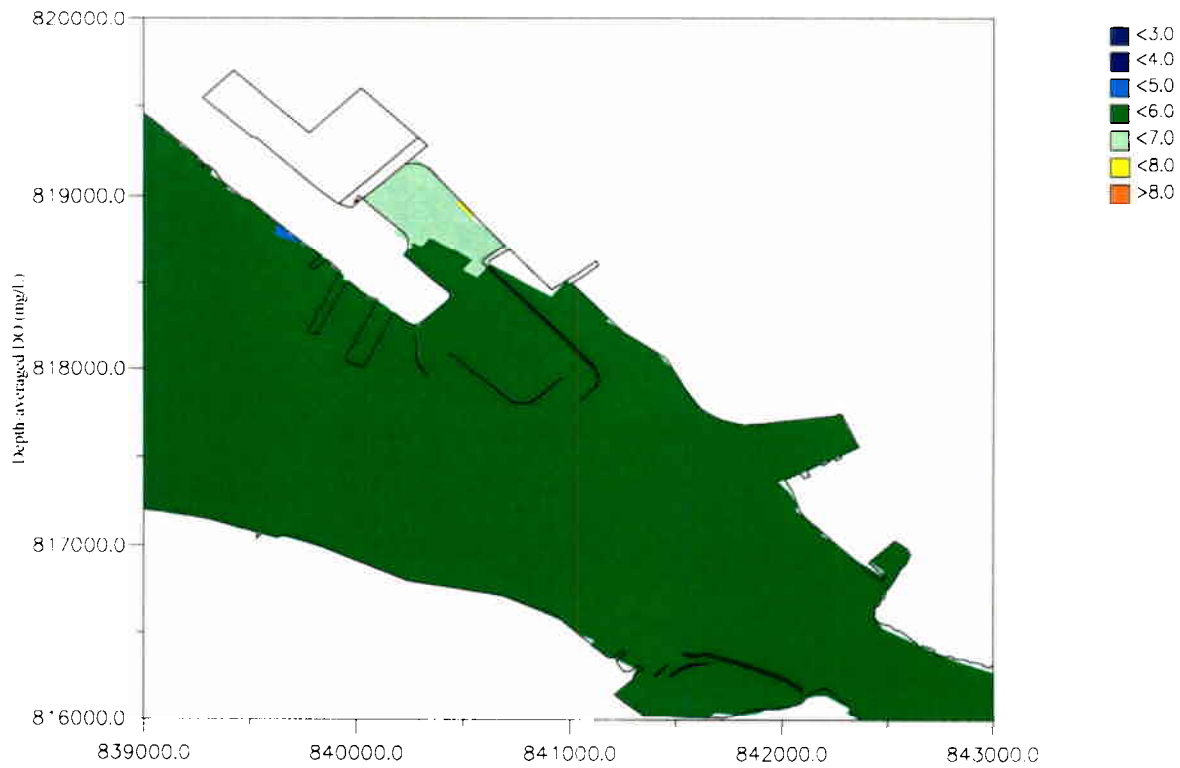


Comprehensive Feasibility Study for Revised Scheme of SEKD
 Wet Season Scenario – Mean Depth Averaged Suspended Solids
 Upper: Scenario 3 (No Mitigation); Lower: Scenario 3 (Mitigation)

March 2001

Drawing No. 22936/EN/255

Ove Arup & Partners Hong Kong Ltd



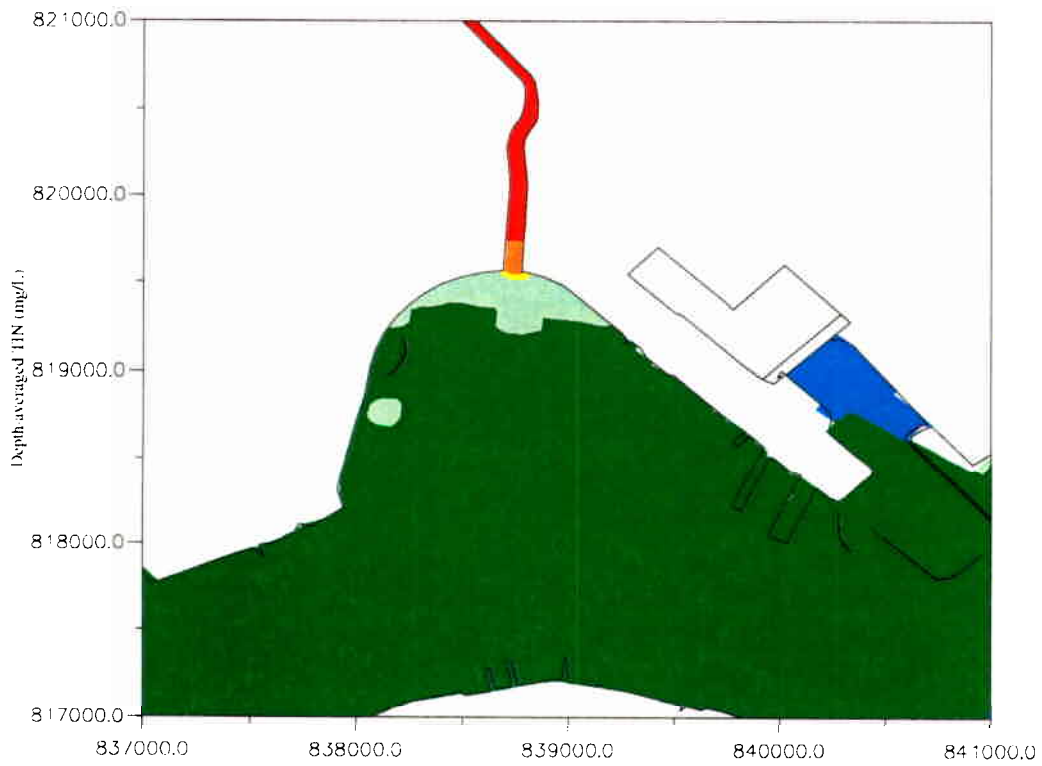
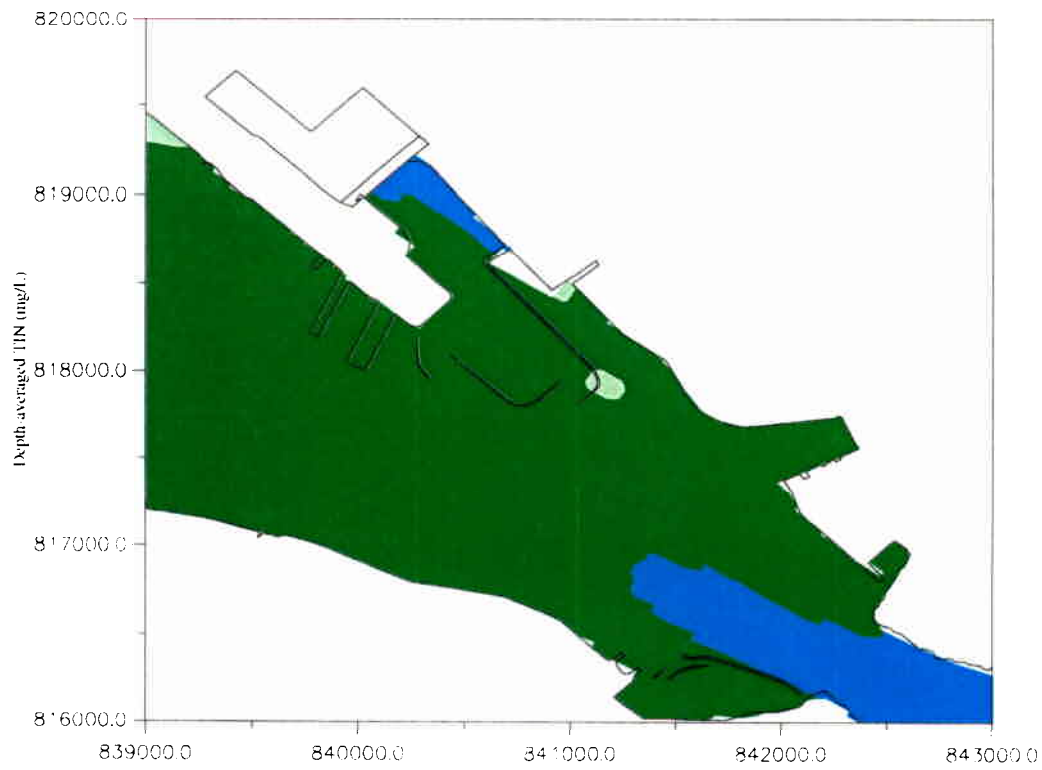
Comprehensive Feasibility Study for Revised Scheme of SEKD
DO Concentrations (Wet Season) – Emergency Overflow

Upper: Overflow from KTSTW; Lower: Overflow from TKWSIW

May 2001

Drawing No. 22936/EN/290

Ove Arup & Partners Hong Kong Ltd

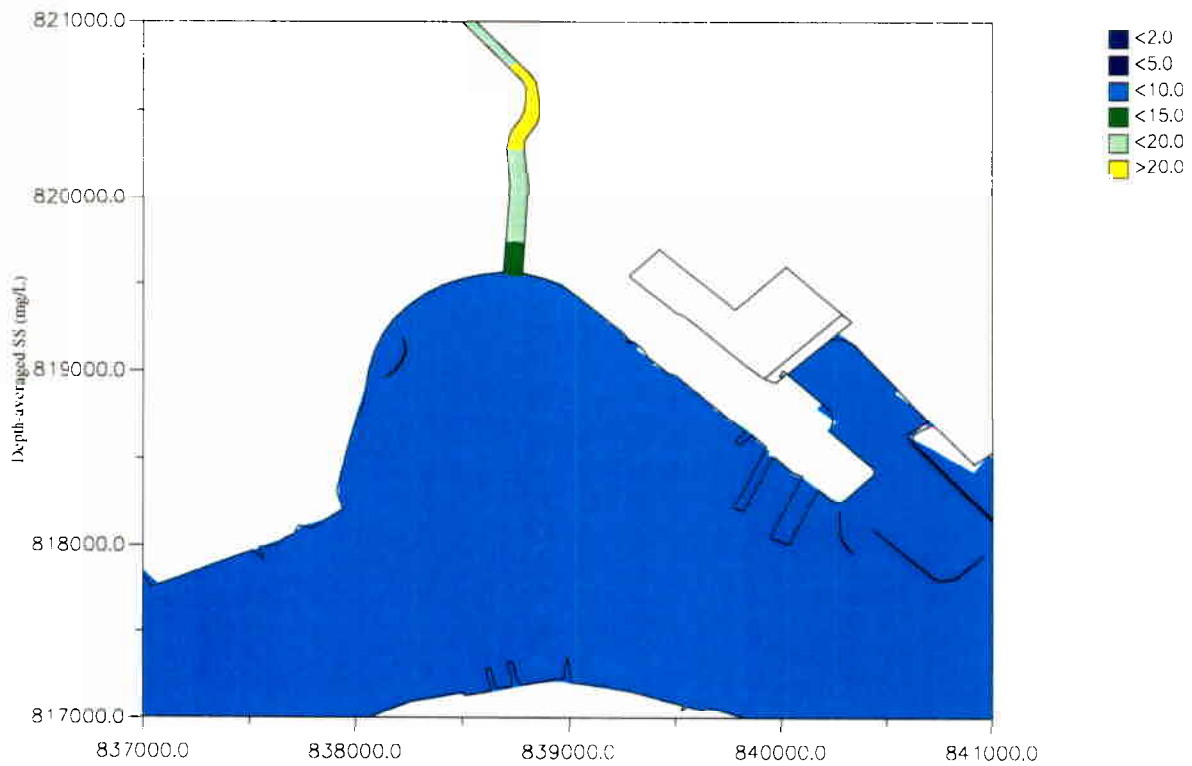
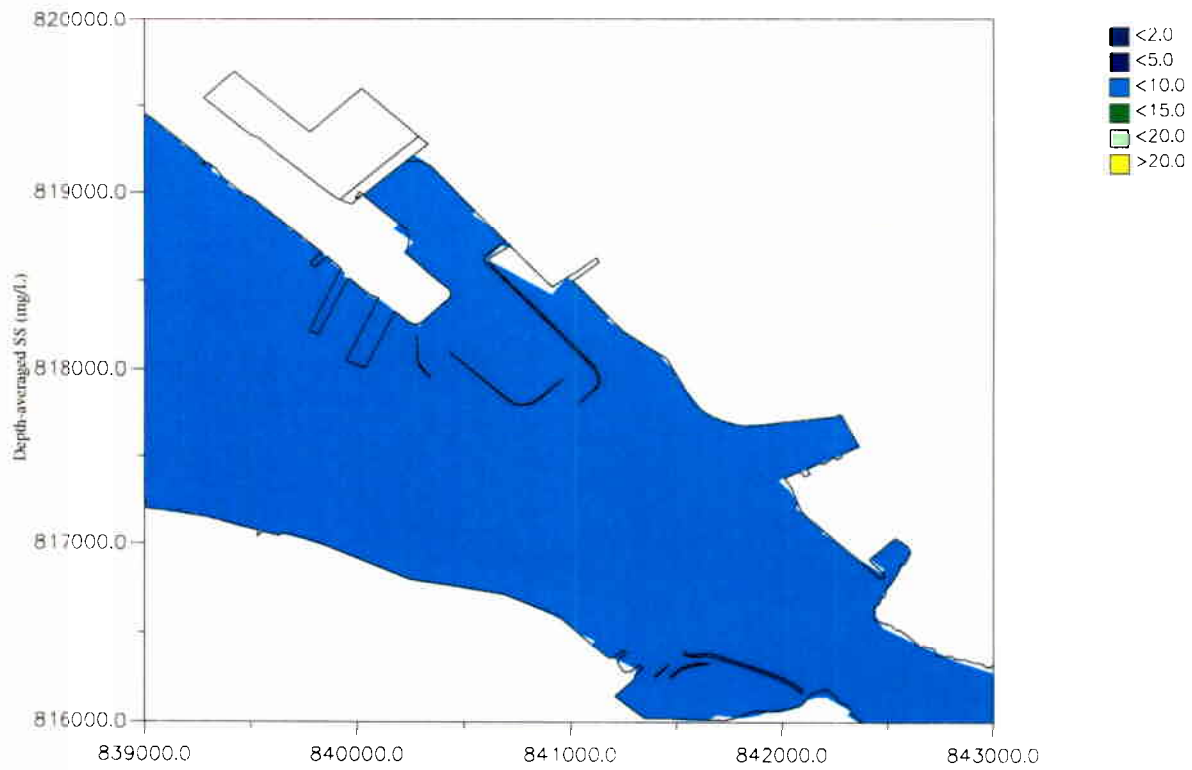


Comprehensive Feasibility Study for Revised Scheme of SEKD
 TIN Concentrations (Wet Season) Emergency Overflow
 Upper: Overflow from KTSTW; Lower: Overflow from KWSTW

May 2001

Drawing No. 229.36/EN/291

Ove Arup & Partners Hong Kong Ltd

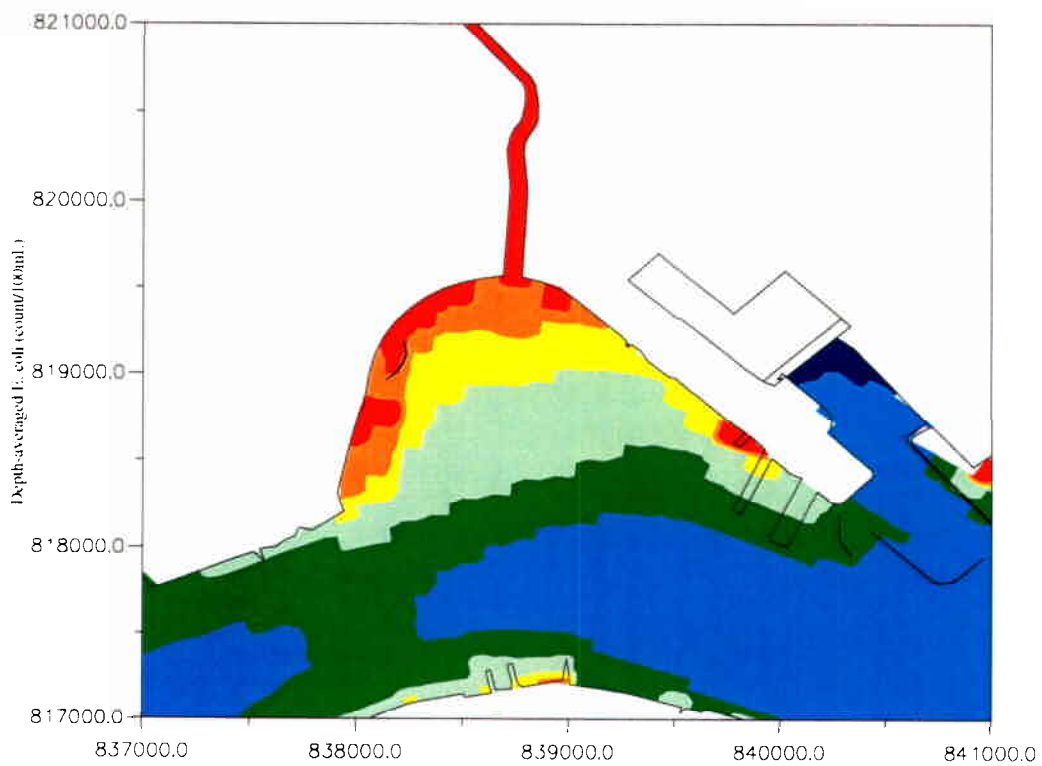
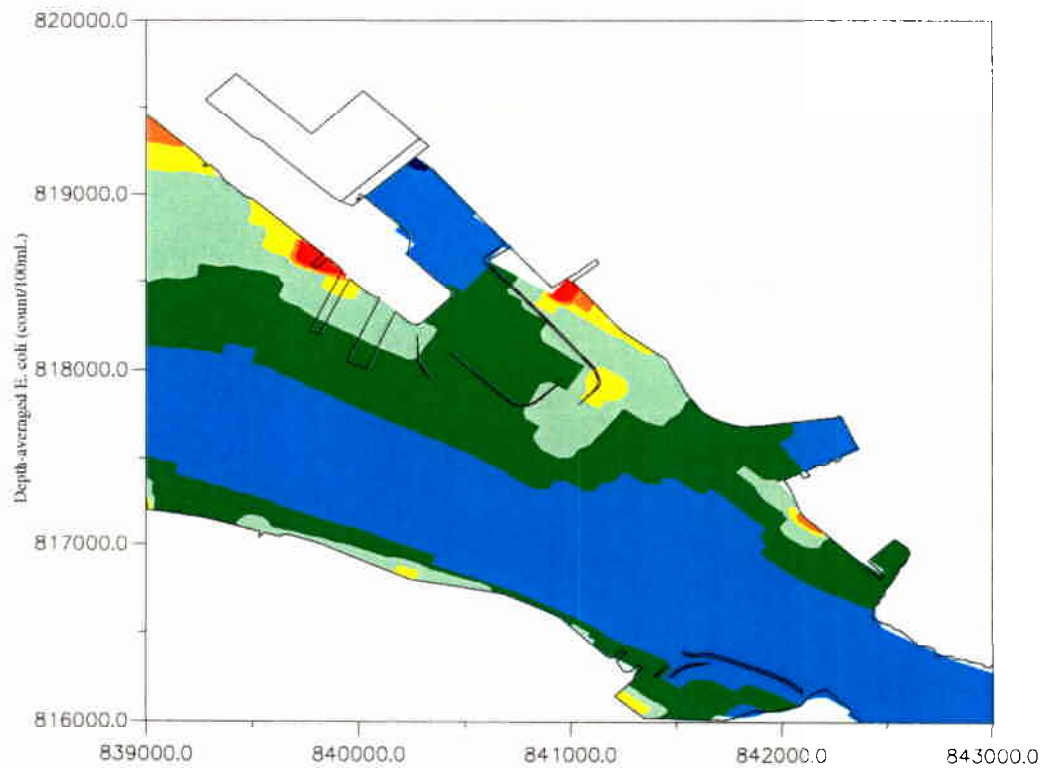


Comprehensive Feasibility Study for Revised Scheme of SEKD
 SS Concentrations (Wet Season) – Emergency Overflow
 Upper: Overflow from KTSTW; Lower: Overflow from TKWSIW

May 2001

Drawing No. 22936/EN/292

Ove Arup & Partners Hong Kong Ltd

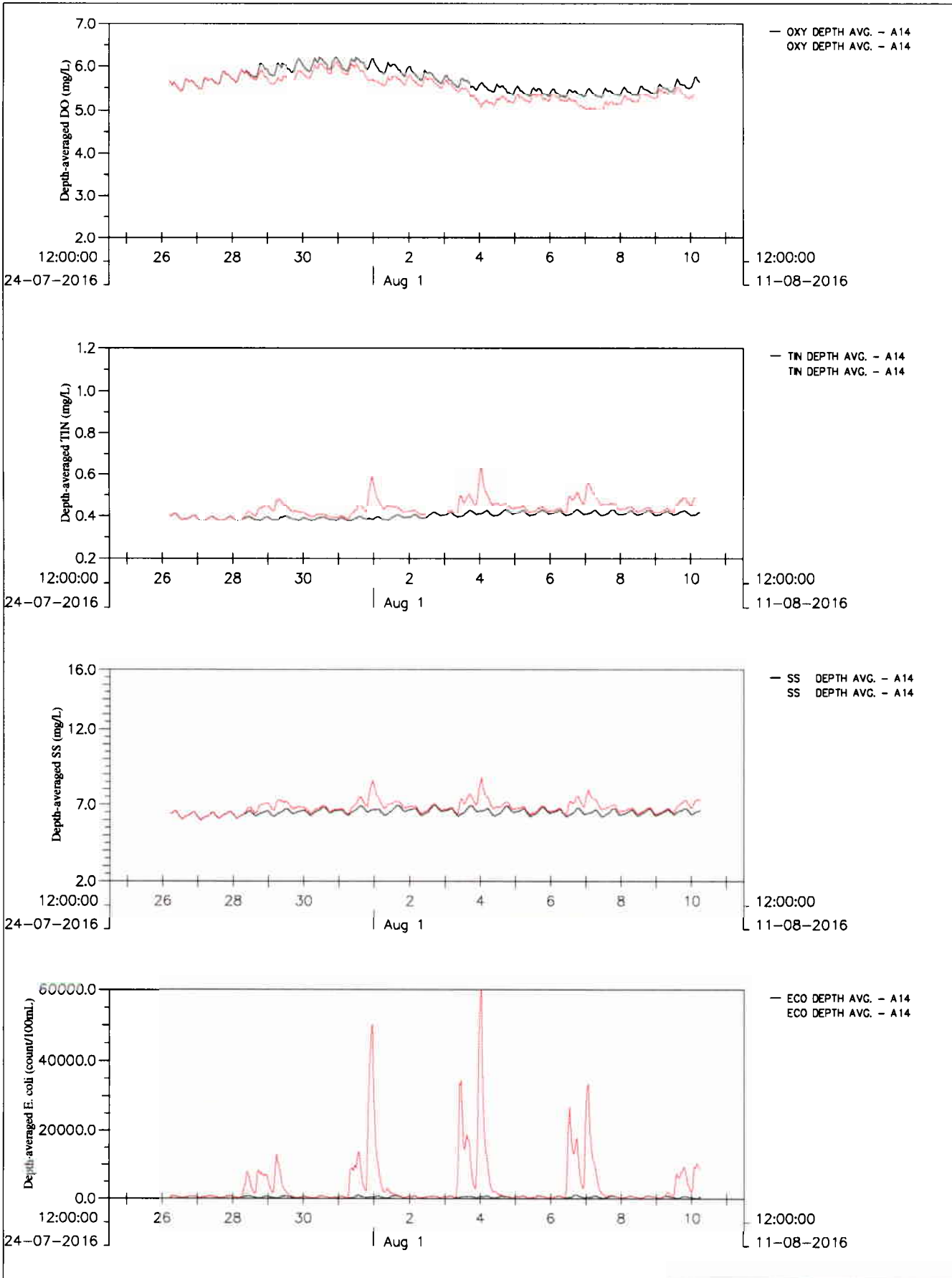


Comprehensive Feasibility Study for Revised Scheme of SEKD
 E. coli Concentrations (Wet Season) - Emergency Overflow
 Upper: Overflow from KTSTW; Lower: Overflow from TKWSIW

May 2001

Drawing No. 229.36/EN/293

Ove Arup & Partners Hong Kong Ltd



Comprehensive Feasibility Study for Revised Scheme of SEKD
 Water Quality at Cha Kwo Ling SI - Emergency Overflow from KTPTW
 Upper: DO; Middle: TIN; Lower: SS; Bottom: E. coli

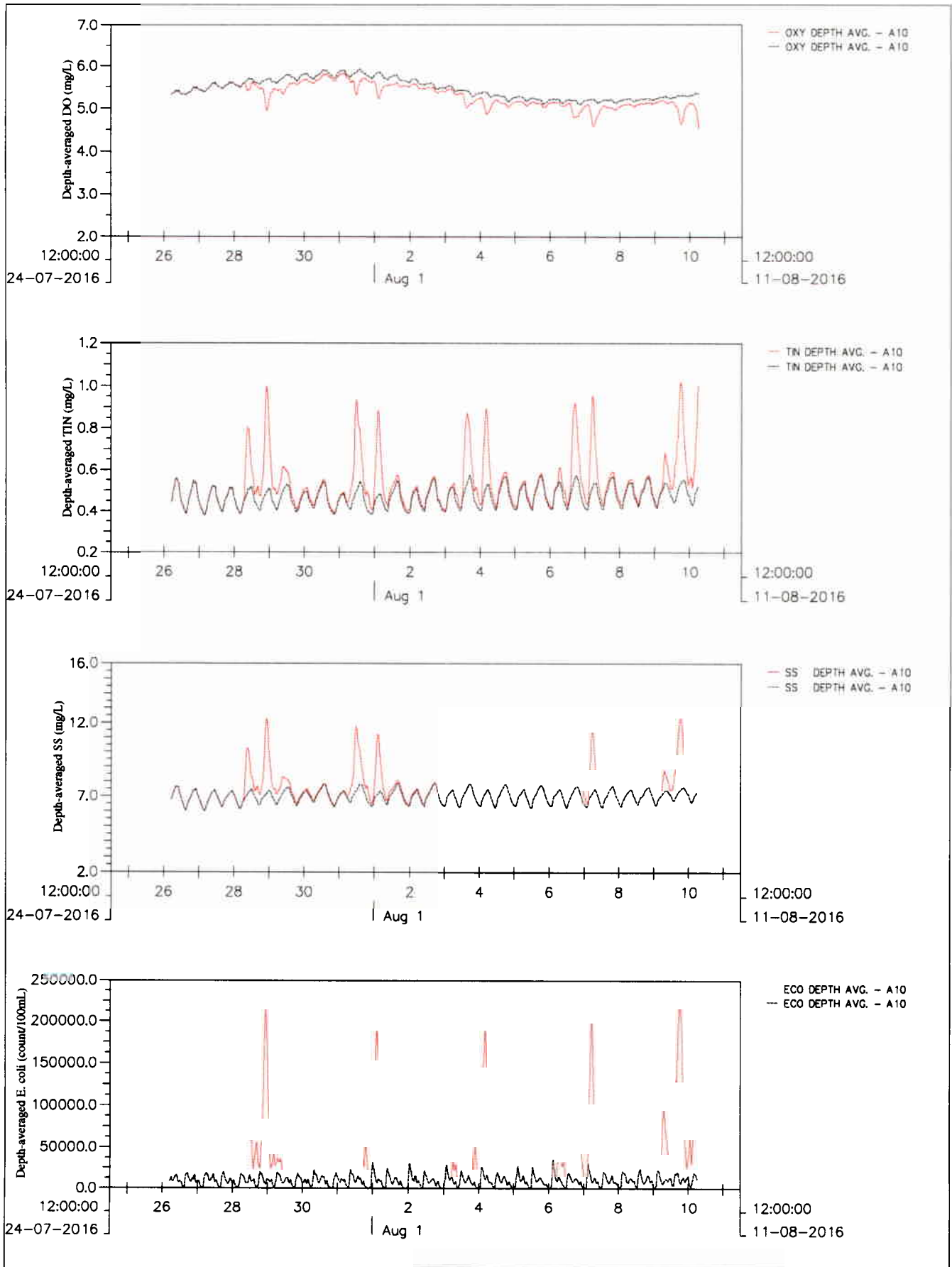
May 2001

Drawing No. 22936/EN/294

Ove Arup & Partners Hong Kong Ltd

Red-Emergency

Black-Normal



Comprehensive Feasibility Study for Revised Scheme of SEKD
 Water Quality at Tai Wan SI – Emergency Overflow from TKWPTW
 Upper: DO; Middle: TIN; Lower: SS; Bottom: E. coli

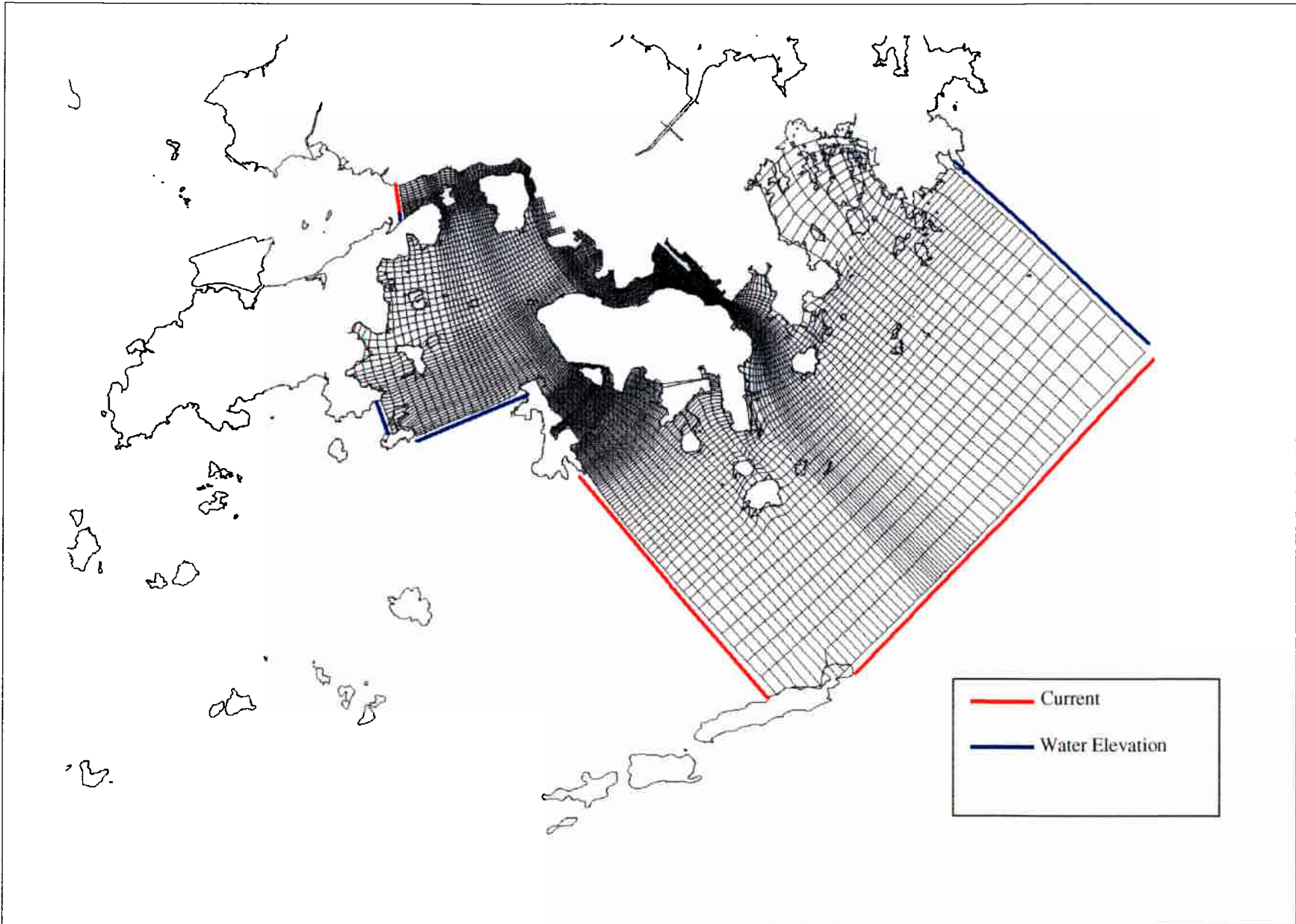
May 2001

Drawing No. 22936/EN/295

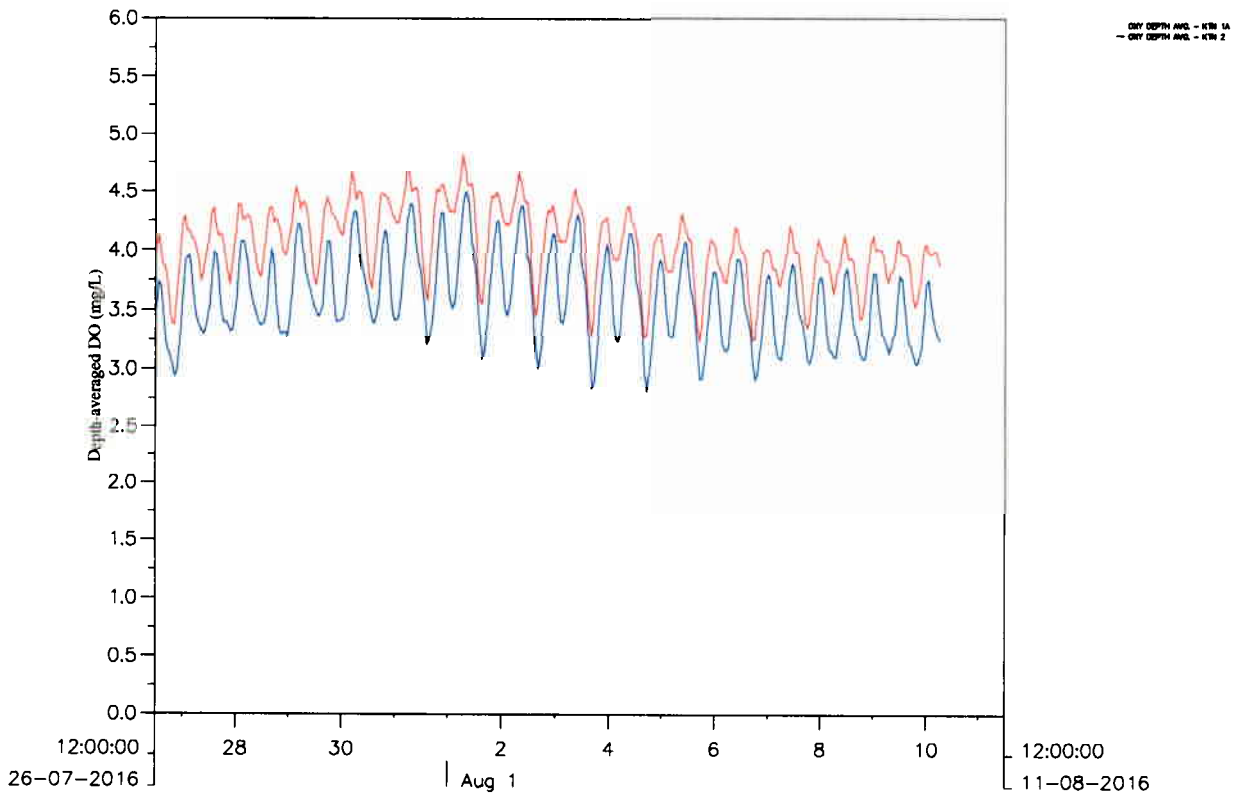
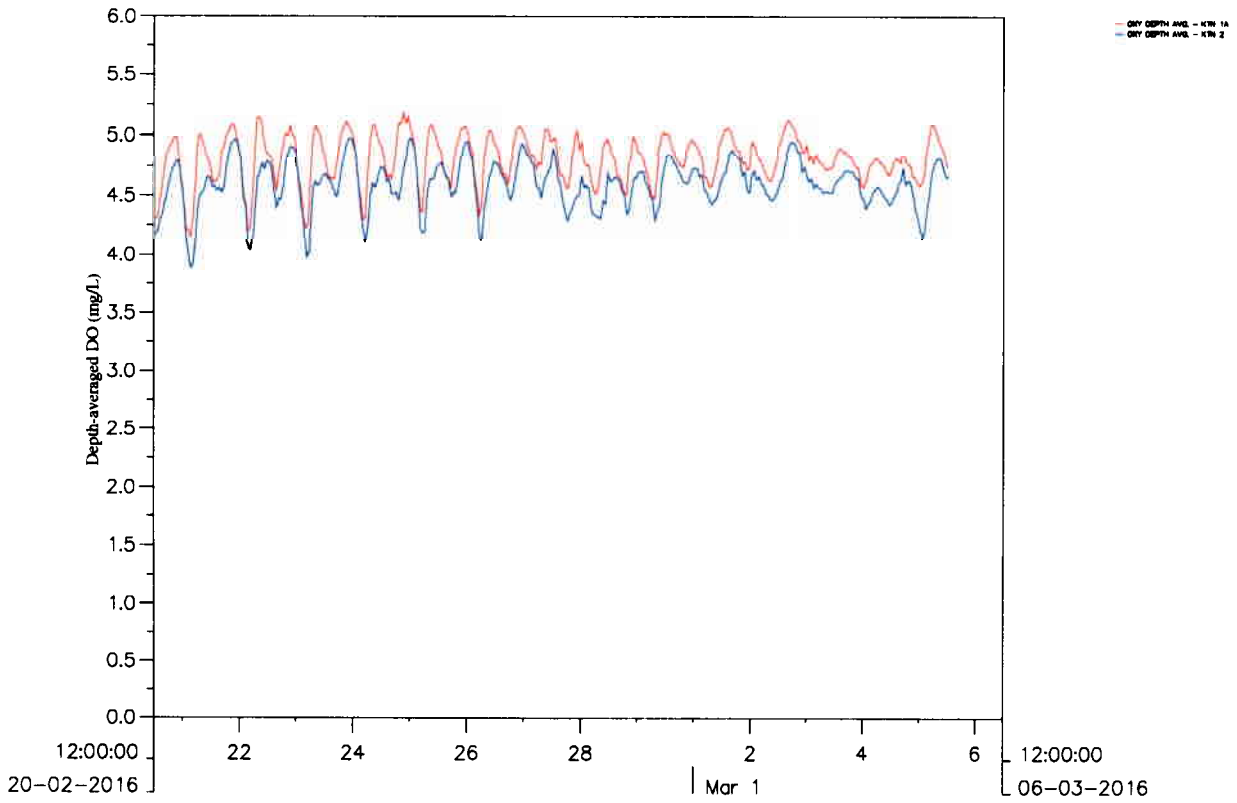
Ove Arup & Partners Hong Kong Ltd

Red–Emergency

Black–Normal



Comprehensive Feasibility Study for Revised Scheme of SEKD Open Boundary Definition	January 2001	
	Drawing No. 22966/EN/298	
Ove Arup & Partners Hong Kong Ltd.		



Time Series Plot of DO at KTN – Scenario 3

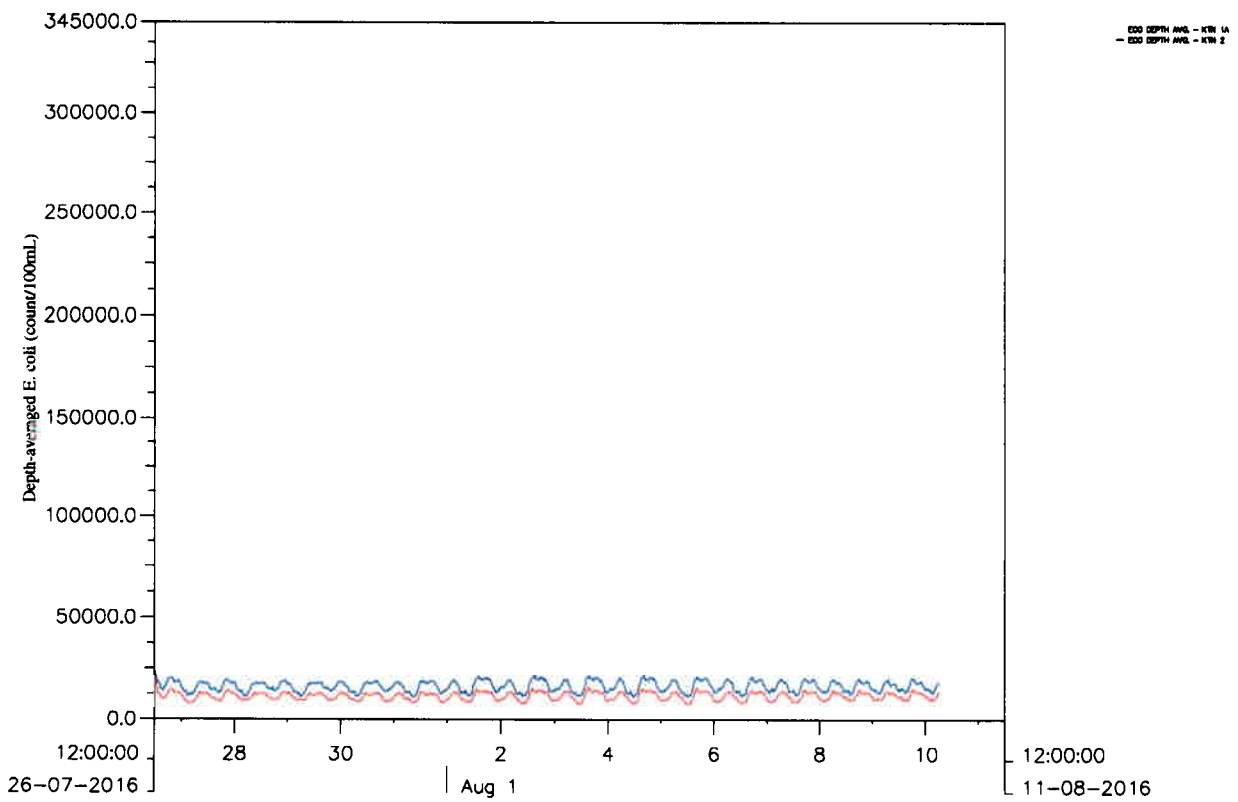
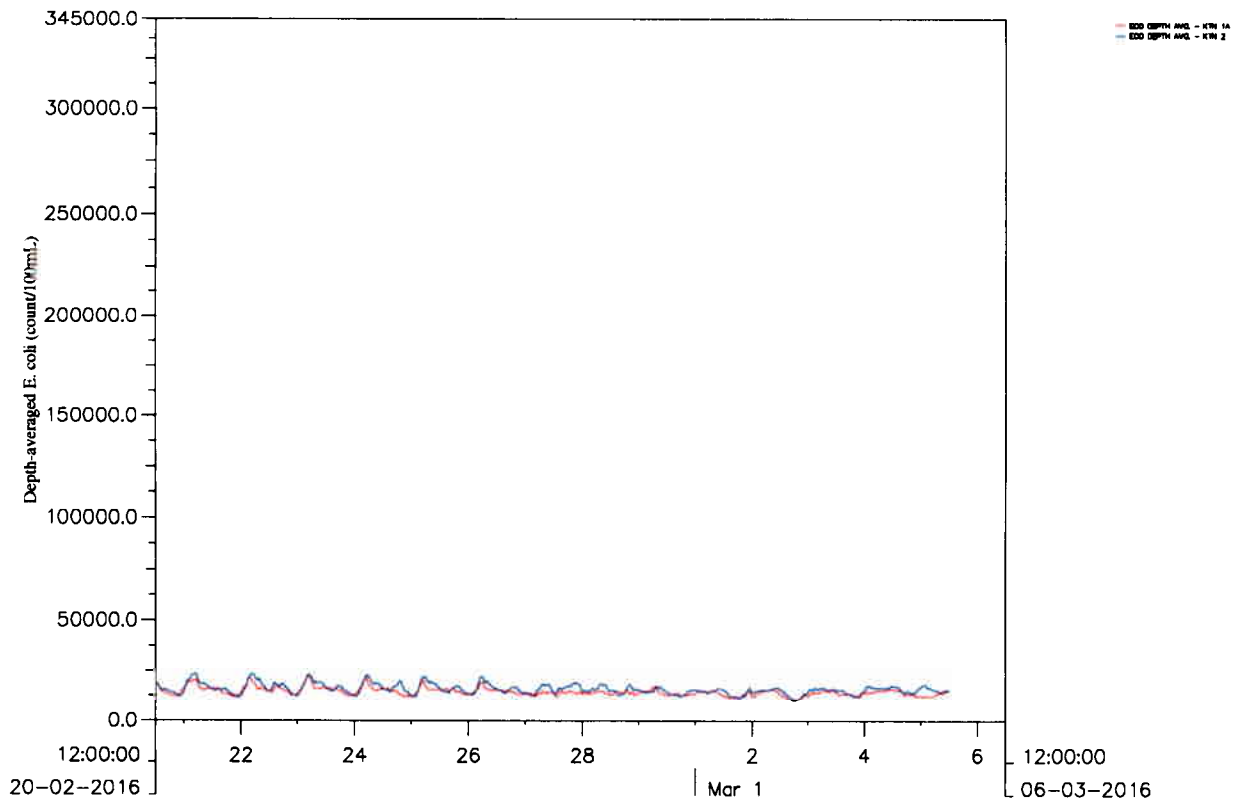
Dry Season (Upper); Wet Season (Lower)

Red: Section at SEKD; Blue: Section near KN1

May 2001

Drawing No. 22936/EN/300

Ove Arup & Partners Hong Kong Ltd



Time Series Plot fo E. Coli – Scenario 3

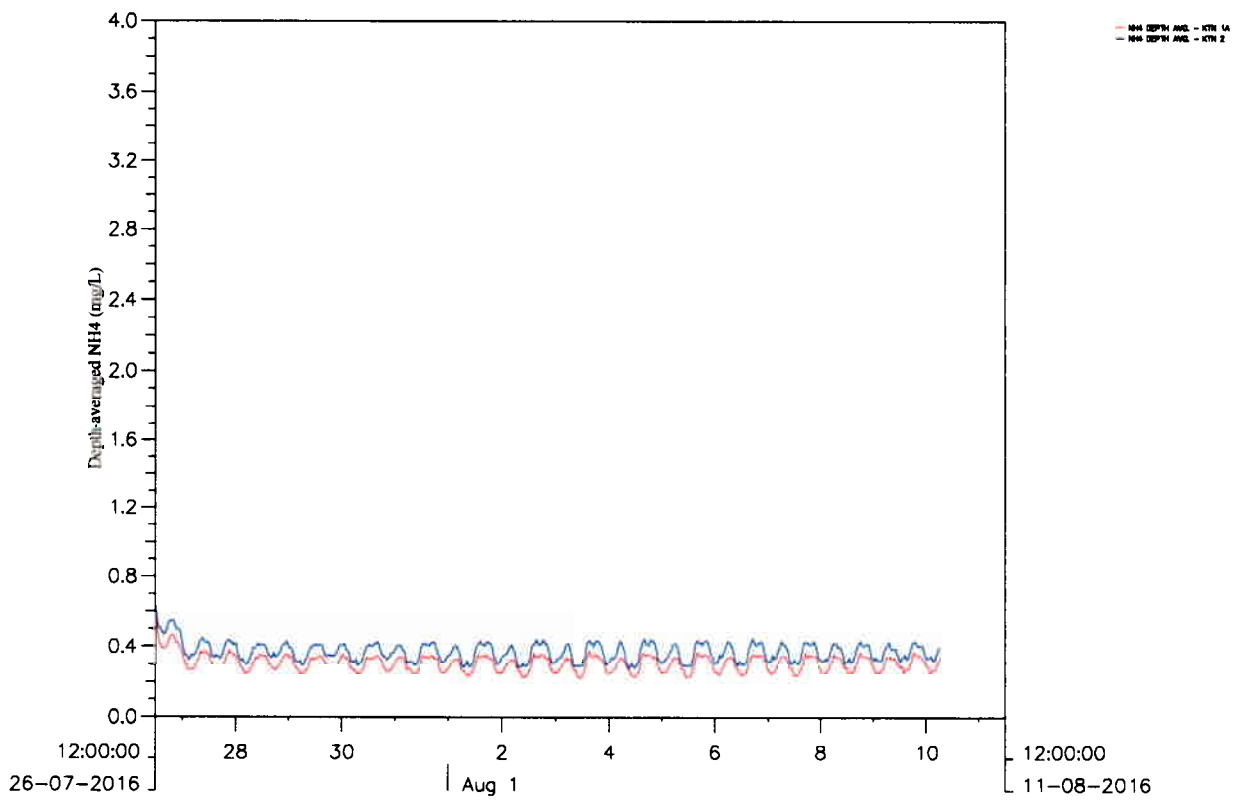
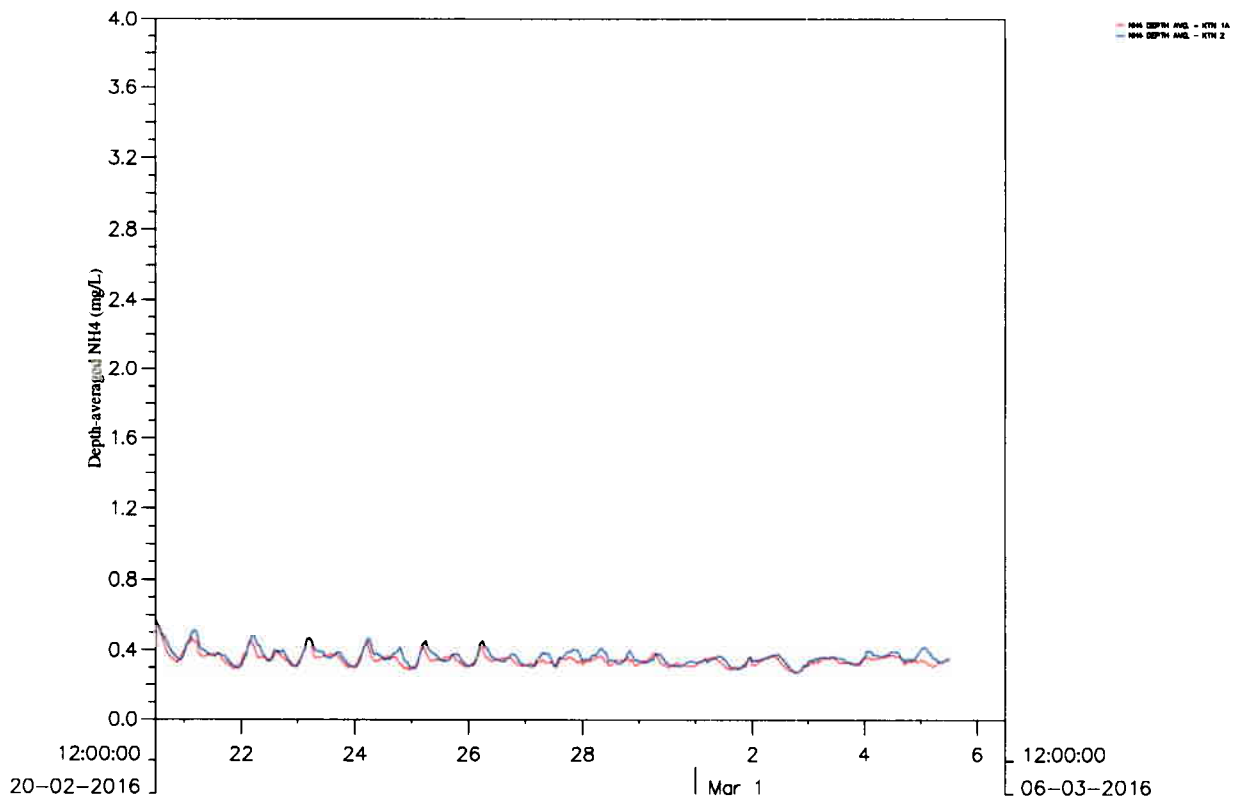
Dry Season (Upper); Wet Season (Lower)

Red: Section at SEKD; Blue: Section near KN1

May 2001

Drawing No. 22936/EN/301

Ove Arup & Partners Hong Kong Ltd



Time Series Plot of Ammonia Nitrogen at KTN – Scenario 3

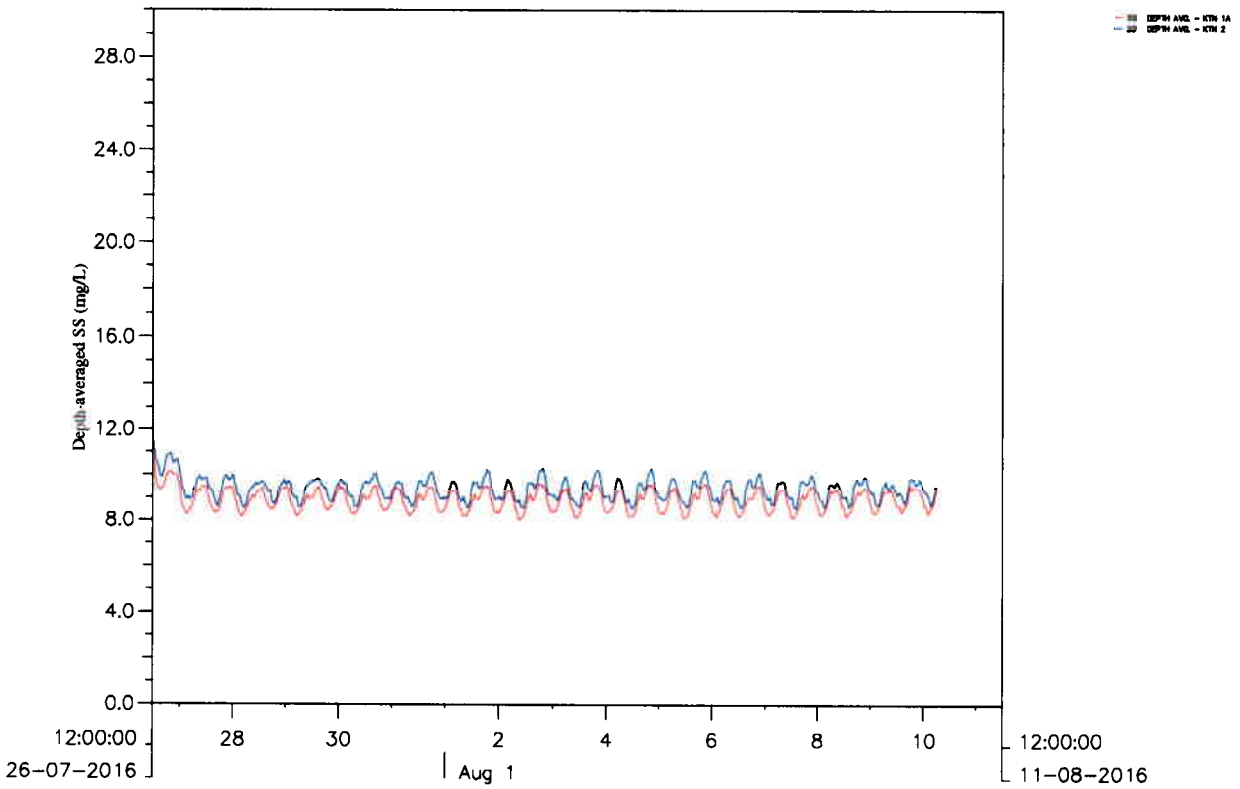
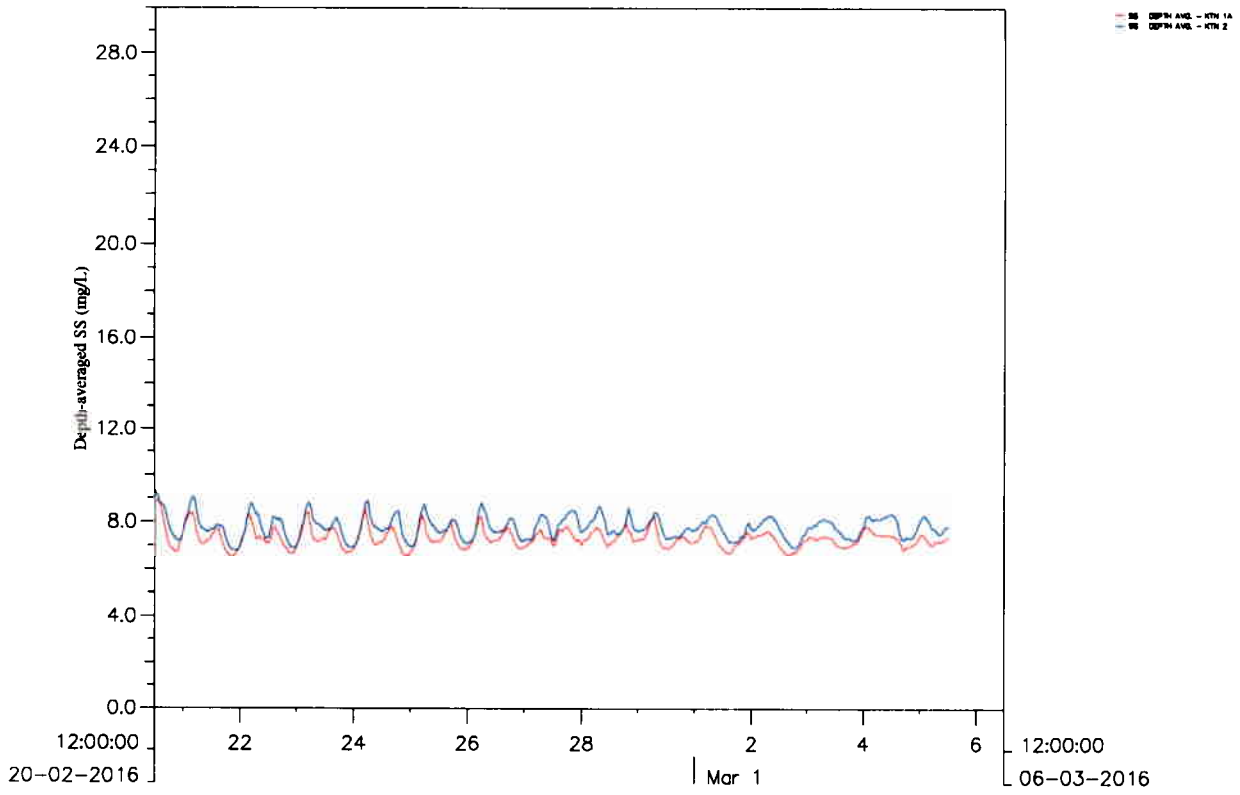
Dry Season: (Upper); Wet Season (Lower)

Red: Section at SEKD; Blue: Section at KN1

May 2001

Drawing No. 22936/EN/302

Ove Arup & Partners Hong Kong Ltd



Time Series Plot of SS at KTN – Scenario 3

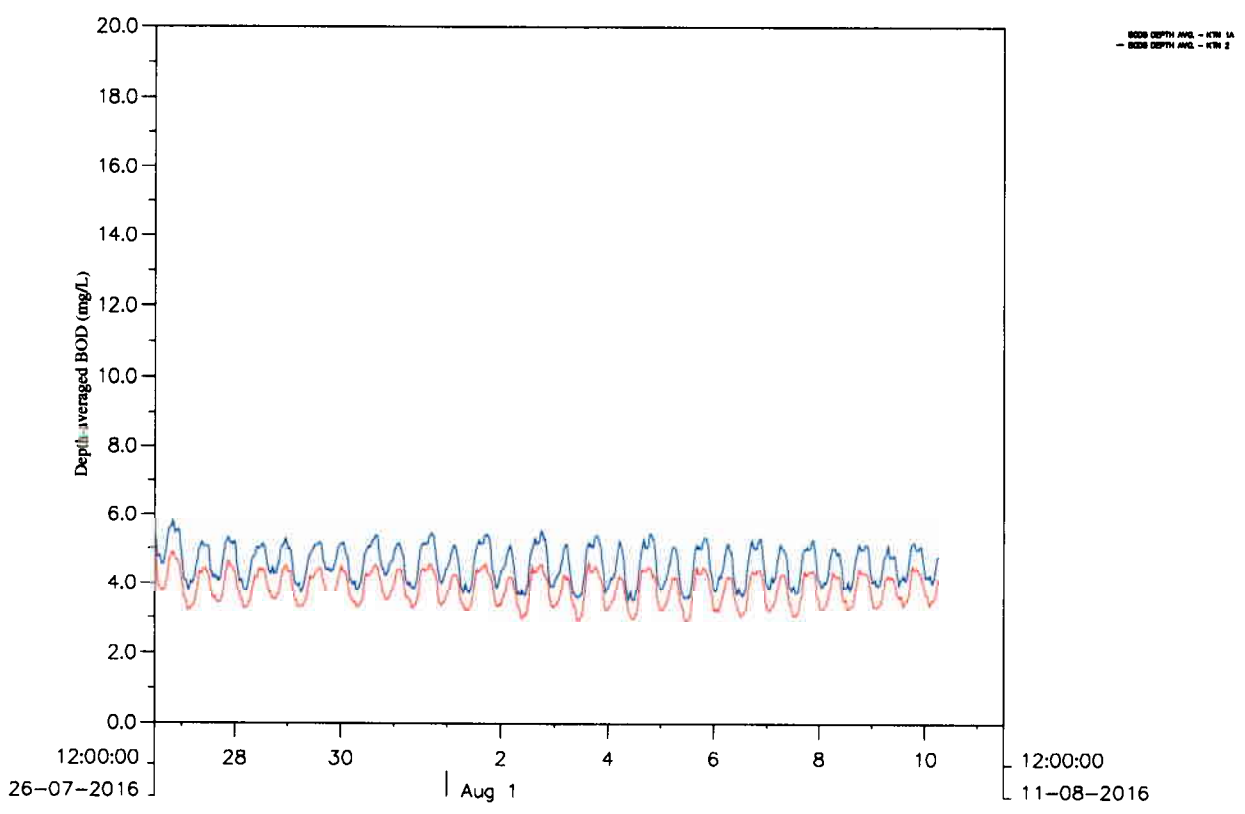
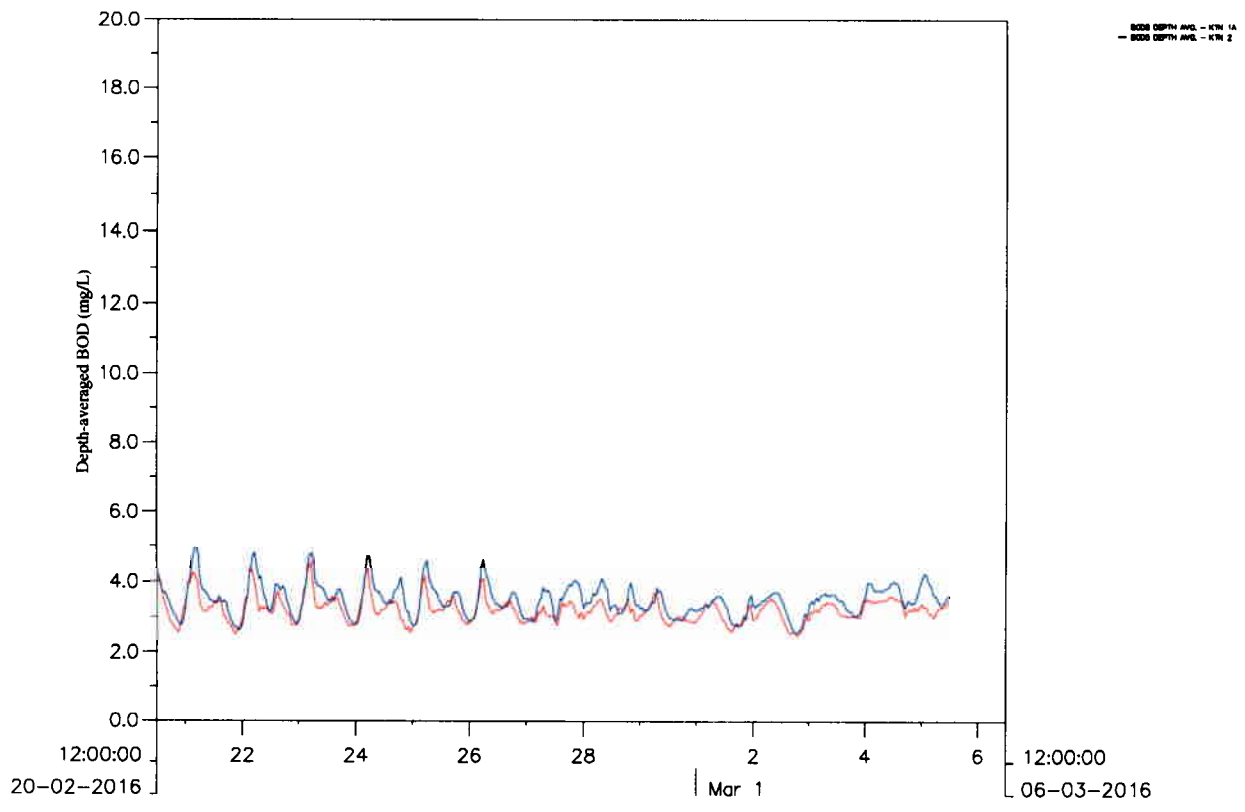
Dry Season (Upper); Wet Season (Lower)

Red: Section at SEK; Blue: Section at KN1

May 2001

Drawing No. 22936/EN/303

Ove ARup & Partners Hong Kong Ltd



Time Series Plot of BOD at KTN - Scenario 3

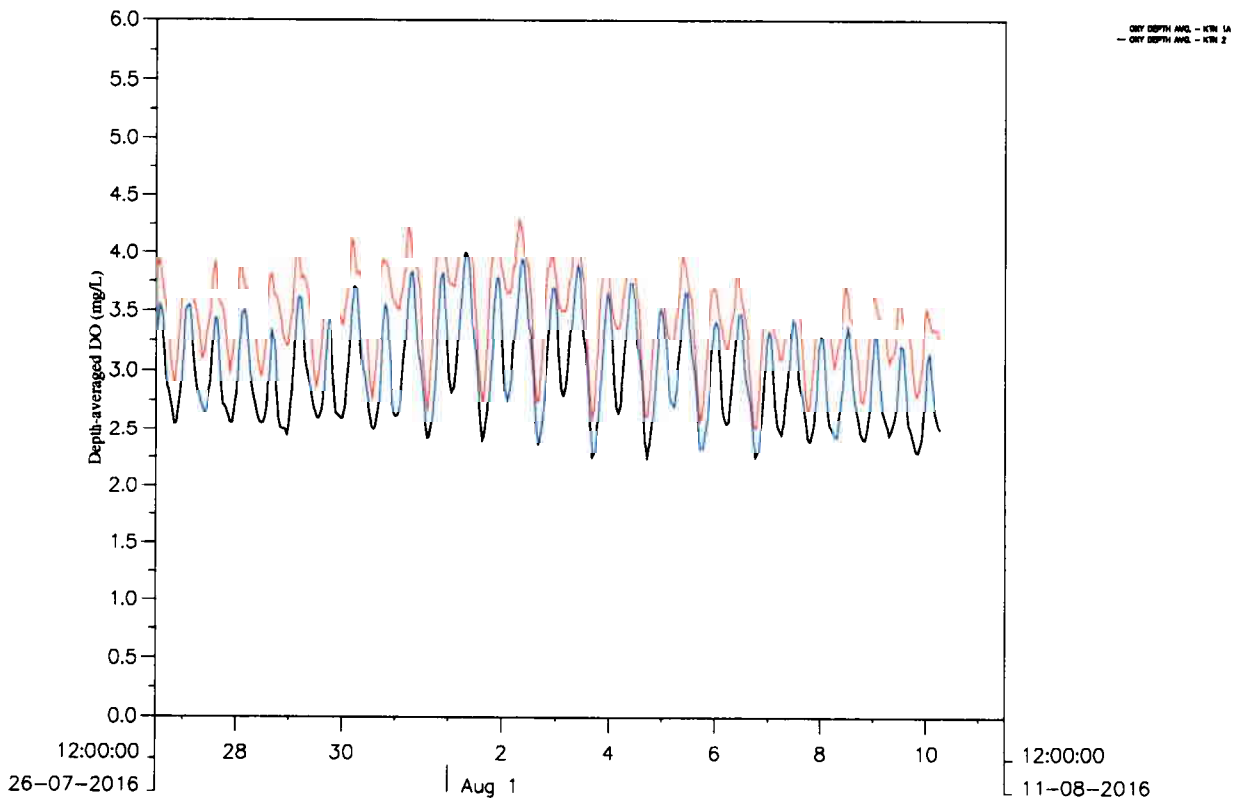
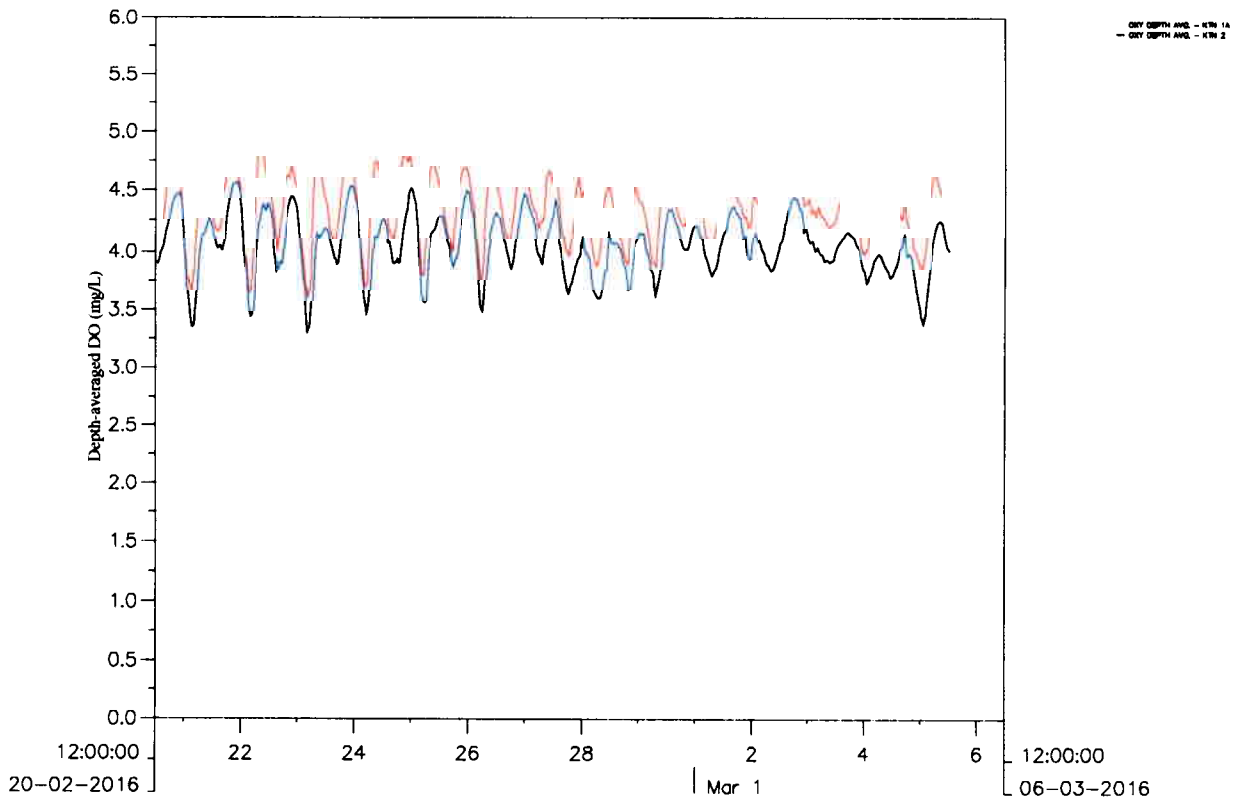
Dry Season (Upper); Wet Season (Lower)

Red: Section at SEKD; Blue: Section near KN1

May 2001

Drawing No. 22936/EN/304

Ove Arup & Partners Hong Kong Ltd

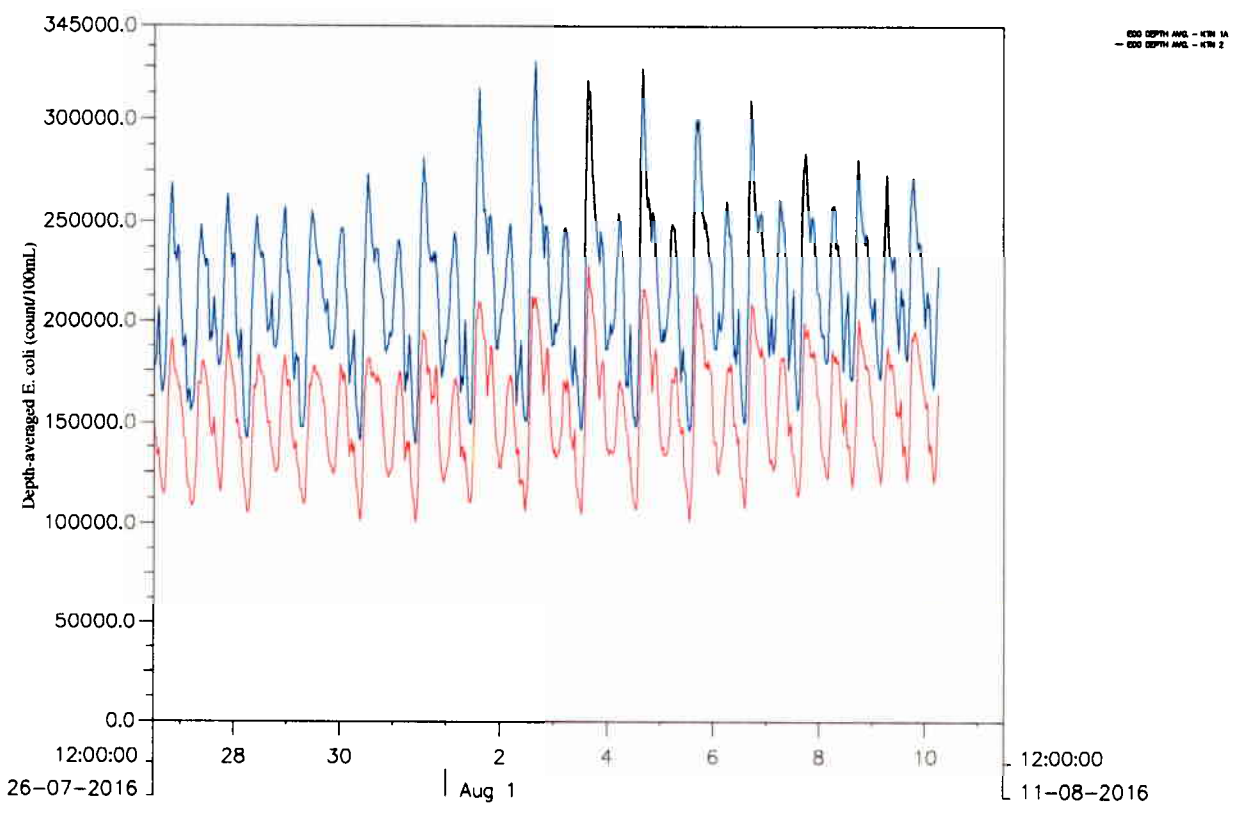
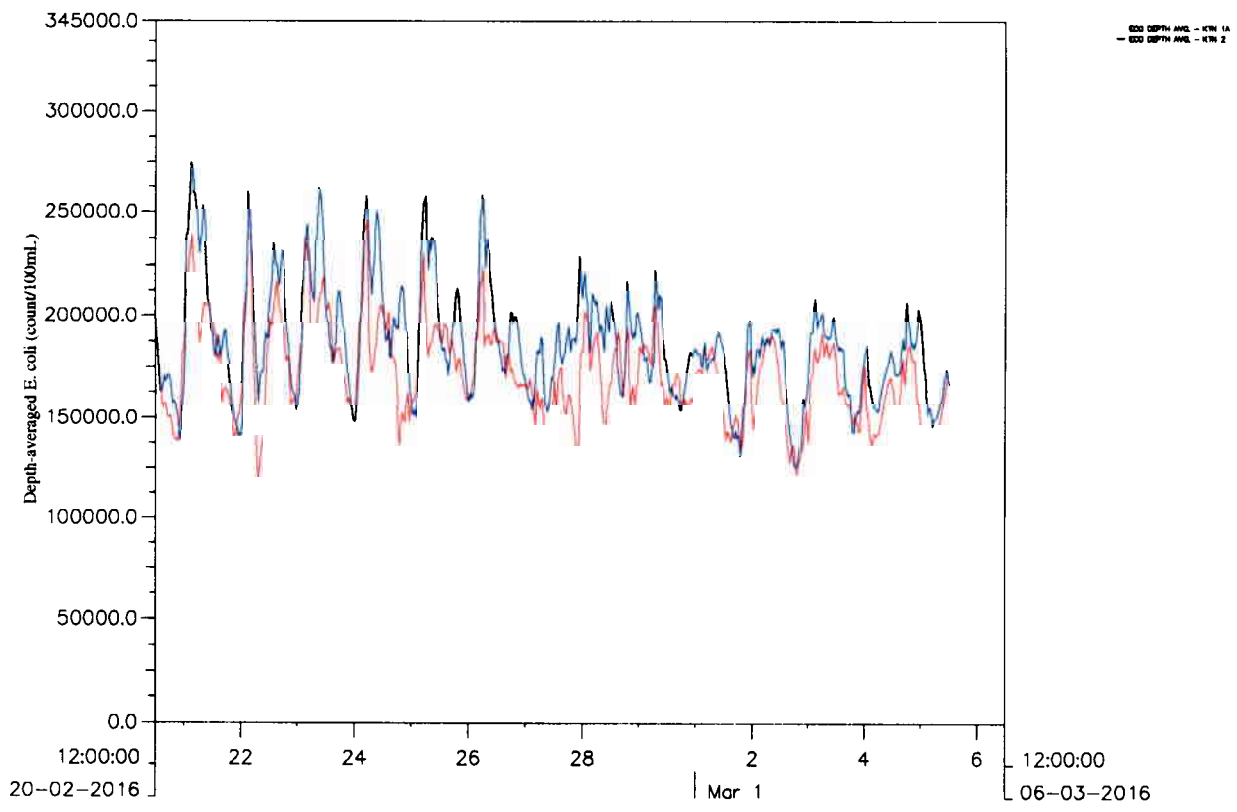


Time Series Plot of DO at KTN – Scenario 1
 Dry Season (Upper); Wet Season (Lower)
 Red: Section at SEKD; Blue: Section near KN1

May 2001

Drawing No. 22936/EN/305

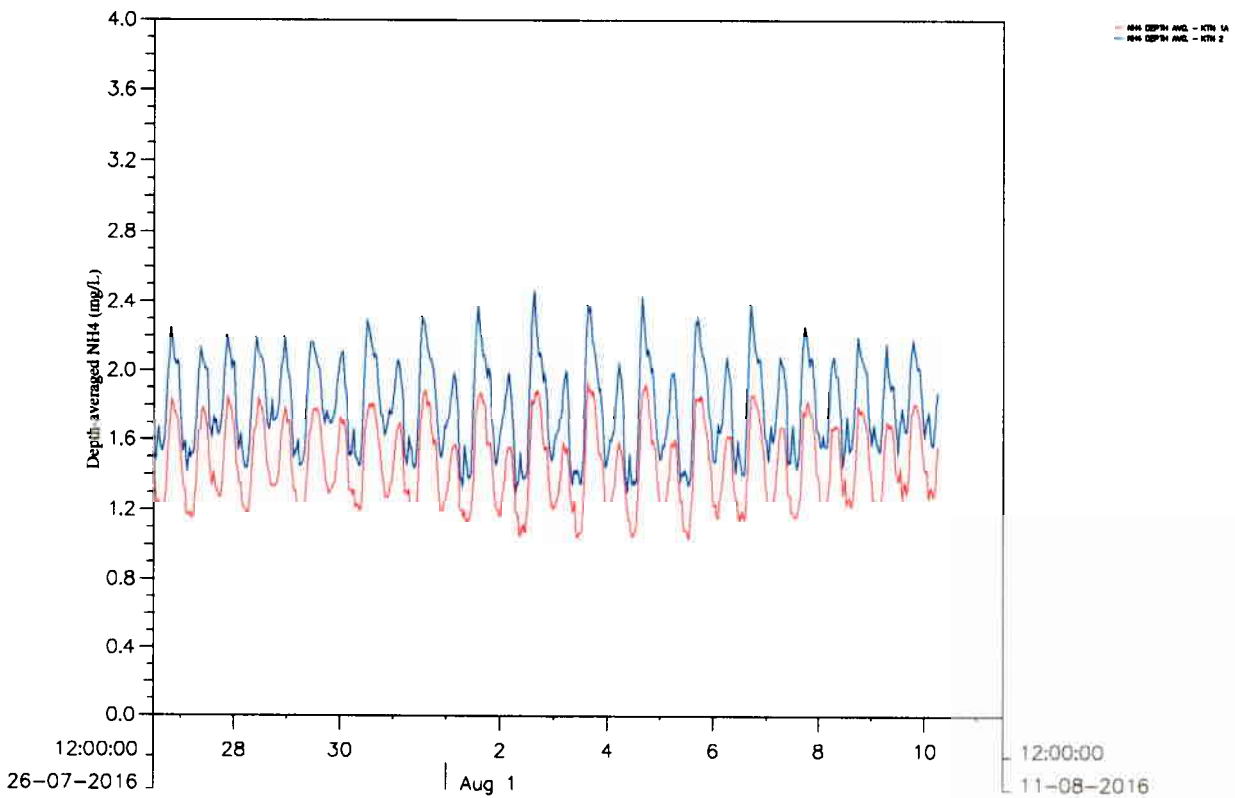
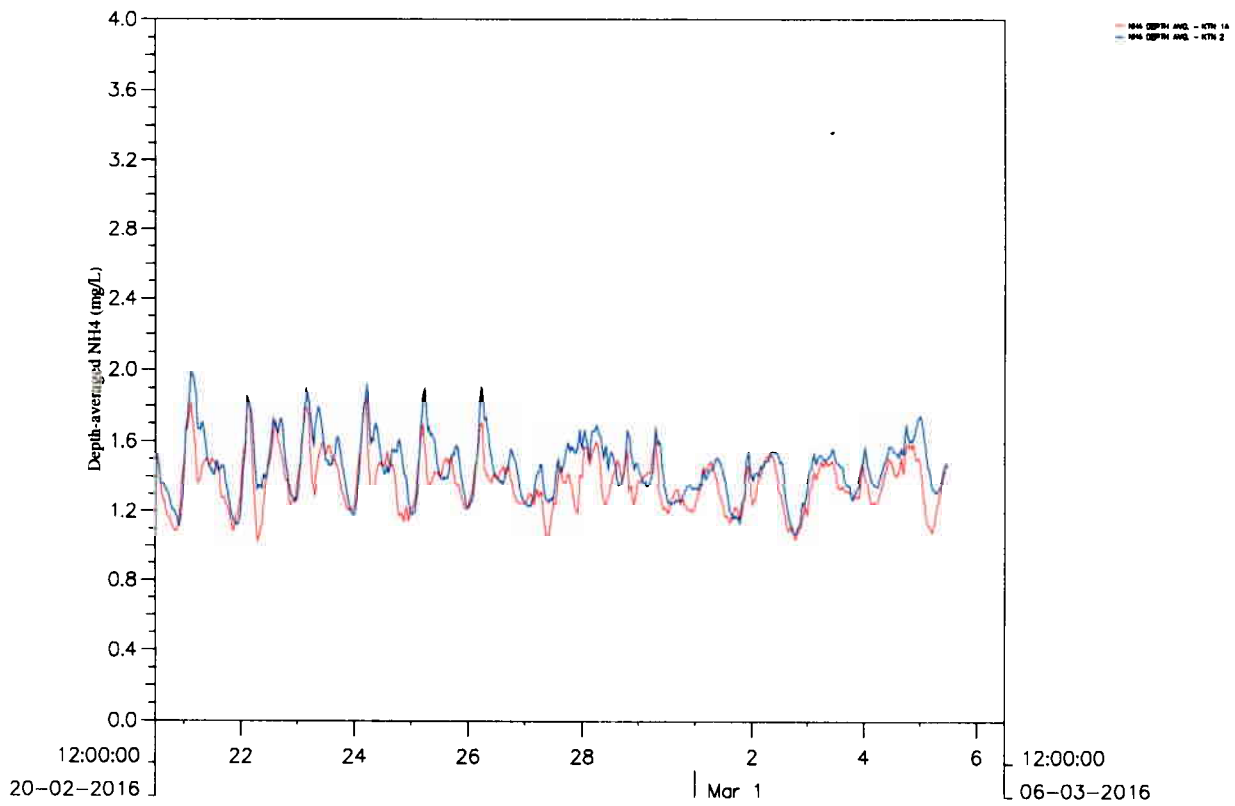
Ove Arup & Partners Hong Kong Ltd



Time Series Plot of E. coli at KTN – Scenario 1
 Dry Season (Upper); Wet Season (Lower)
 Red: Section at SEKD; Blue: Section near KN1

May 2001
 Drawing No. 22936/EN/306

Ove Arup & Partners Hong Kong Ltd



Time Series Plot of Ammonia Nitrogen at KTN – Scenario 1

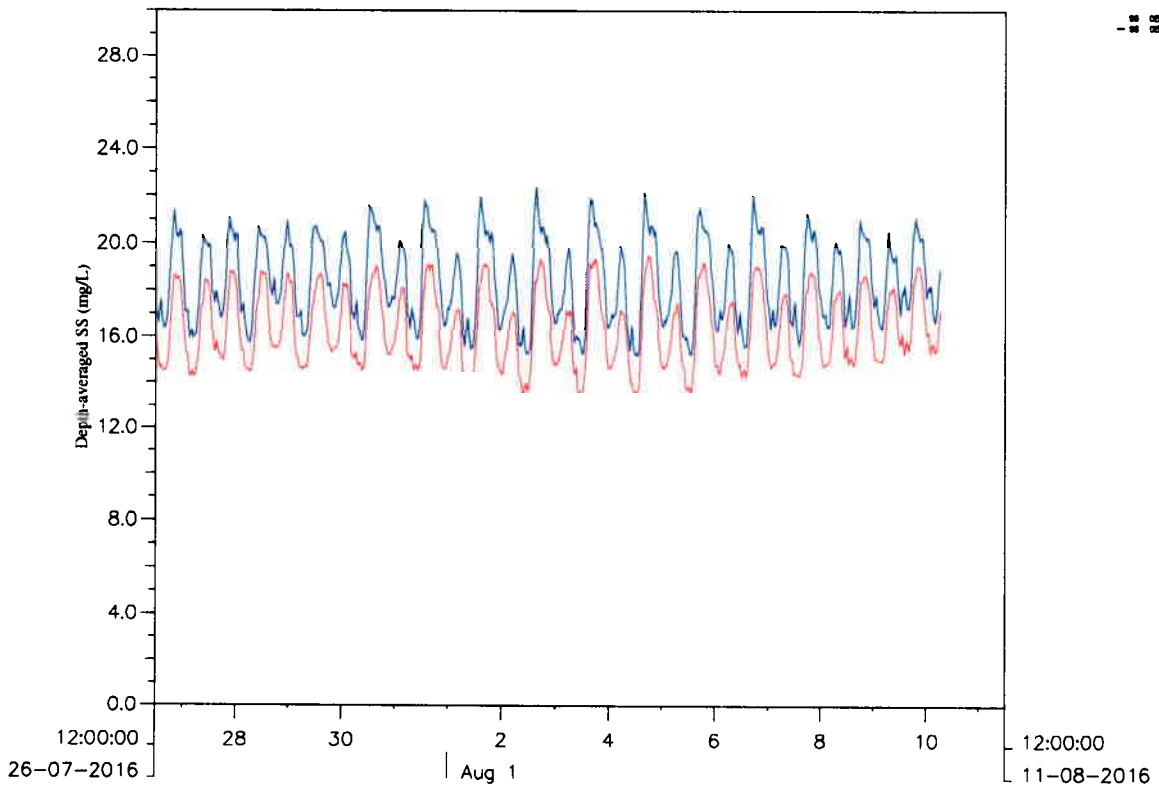
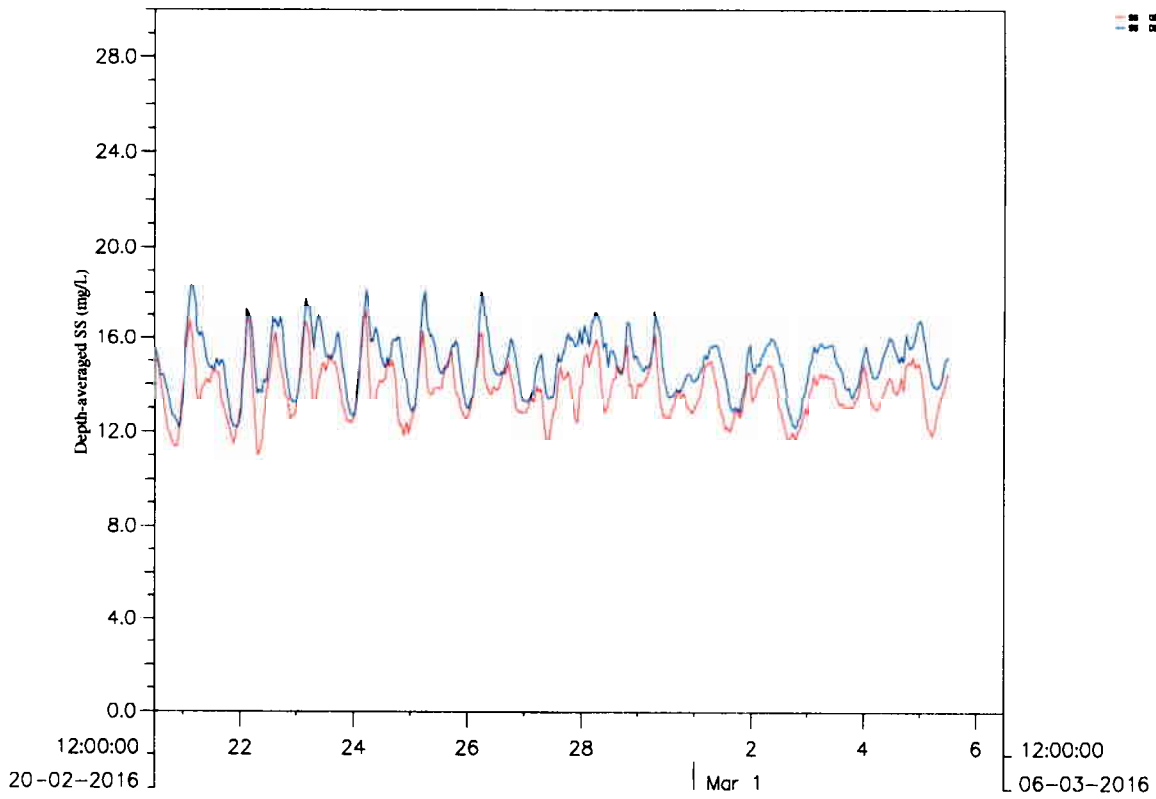
Dry Season (Upper); Wet Season (Lower)

Red: Section at SEKD; Blue: Section near KN1

May 2001

Drawing No. 22936/EN/307

Ove Arup & Partners Hong Kong Ltd

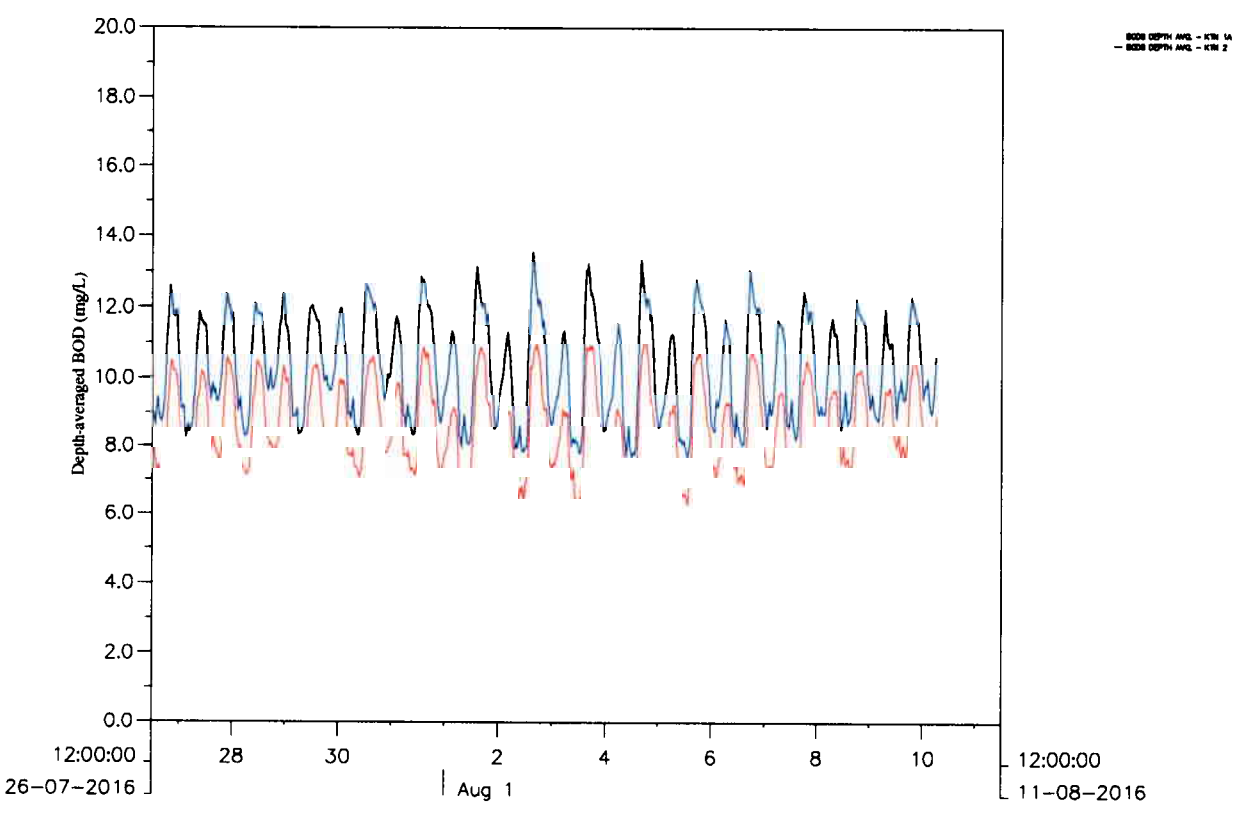
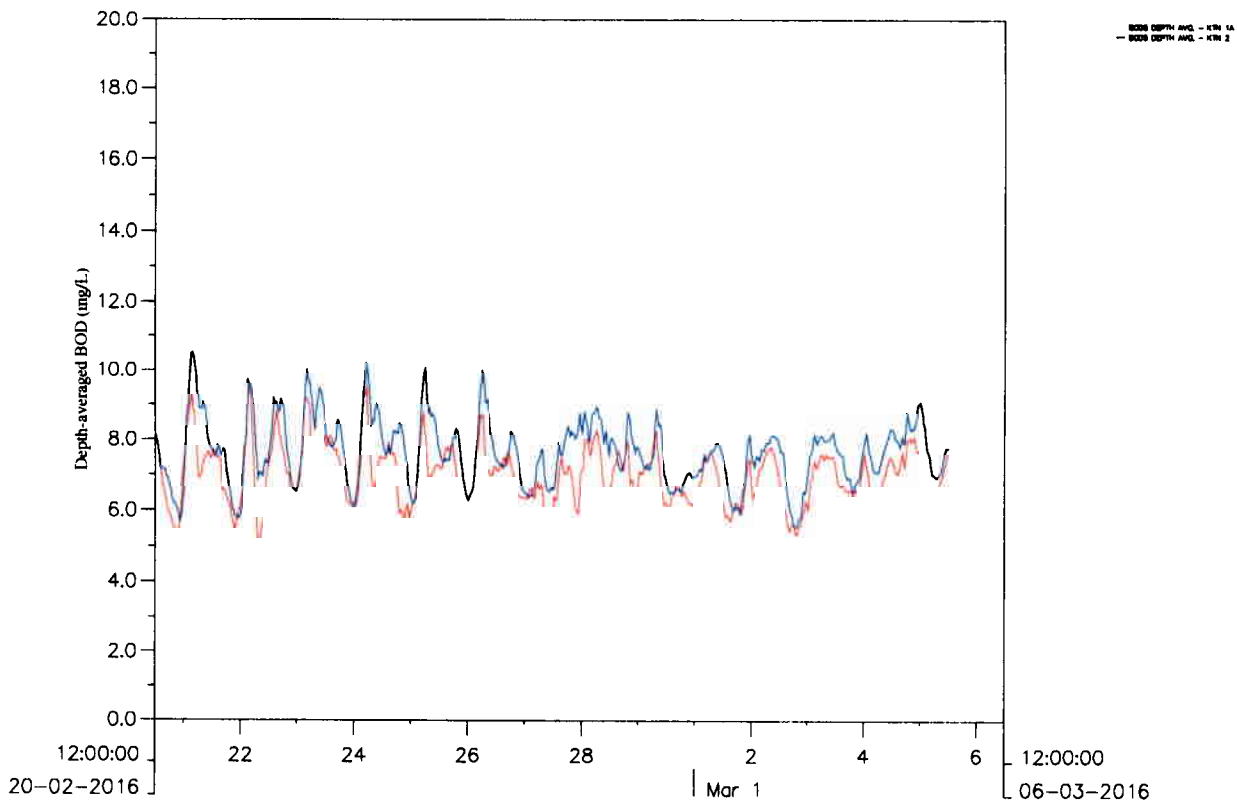


Time Series Plot of SS at KTN – Scenario 1
 Dry Season (Upper); Wet Season (Lower)
 Red: Section at SEKD; Blue: Section near KN1

May 2001

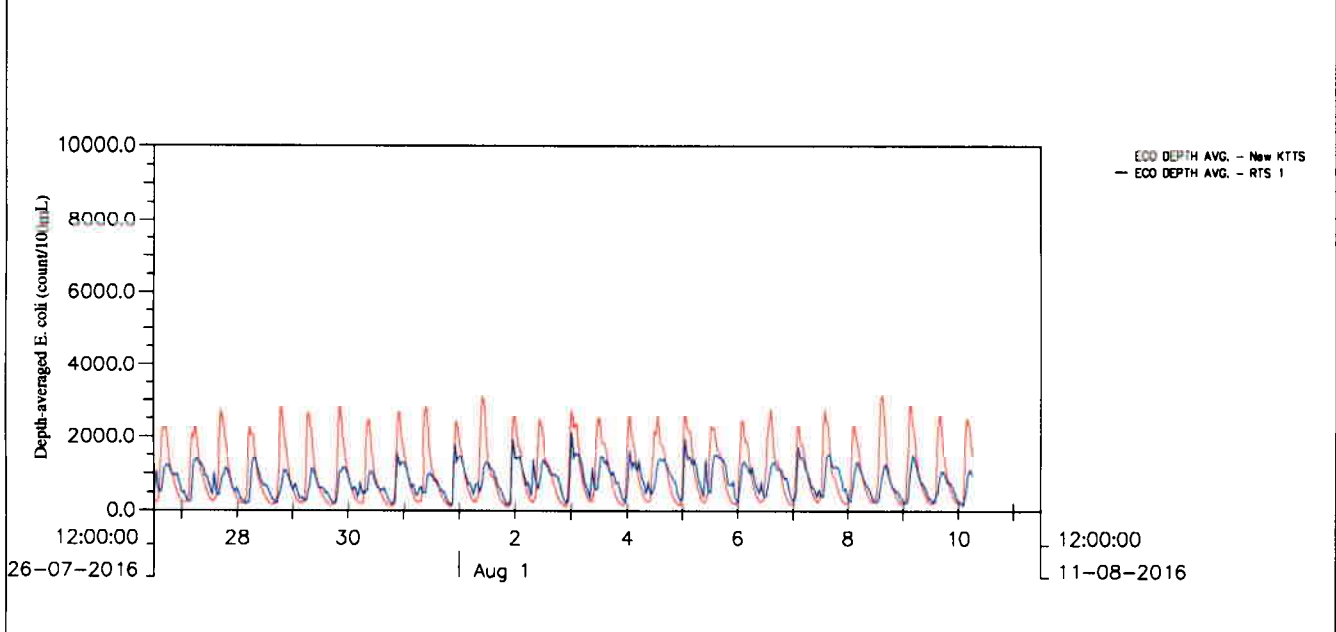
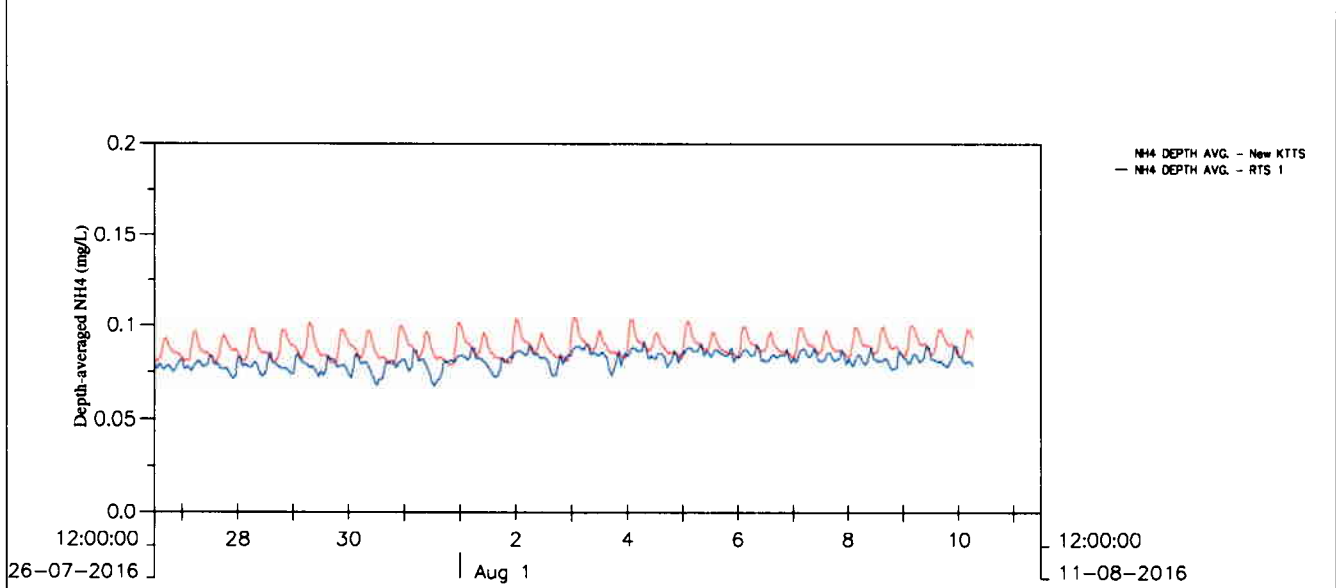
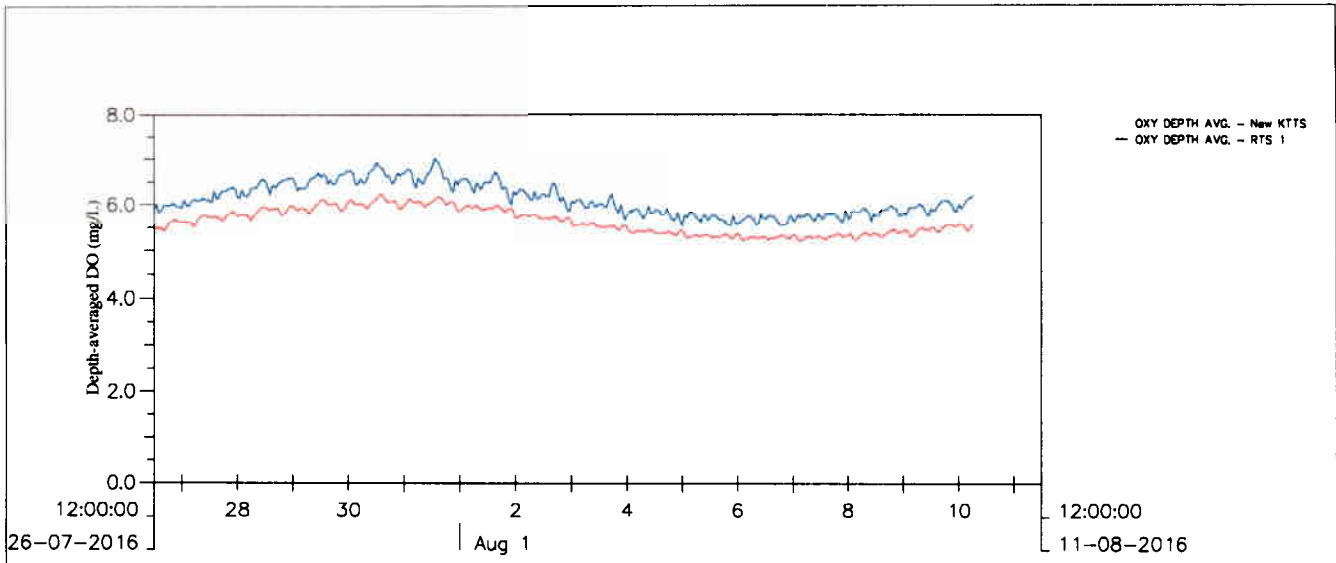
Drawing No. 22936/EN/308

Ove Arup & Partners Hong Kong Ltd

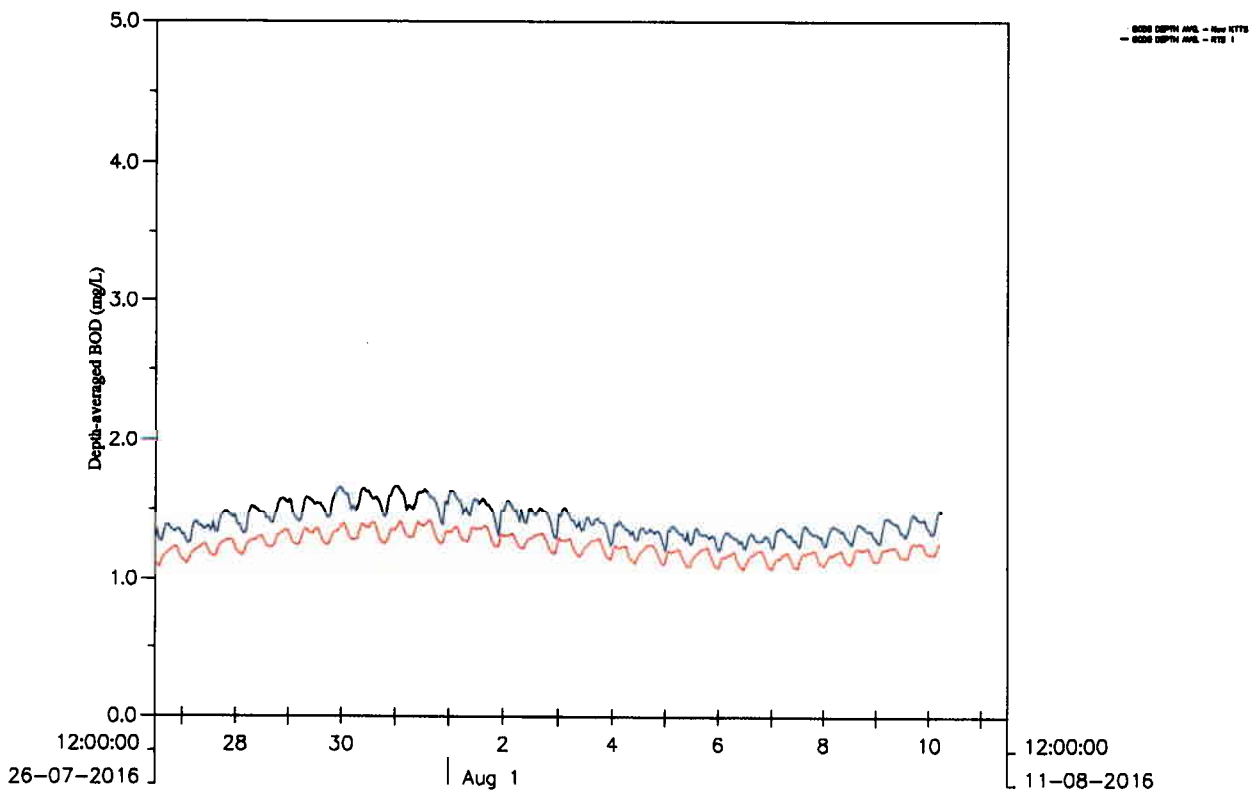
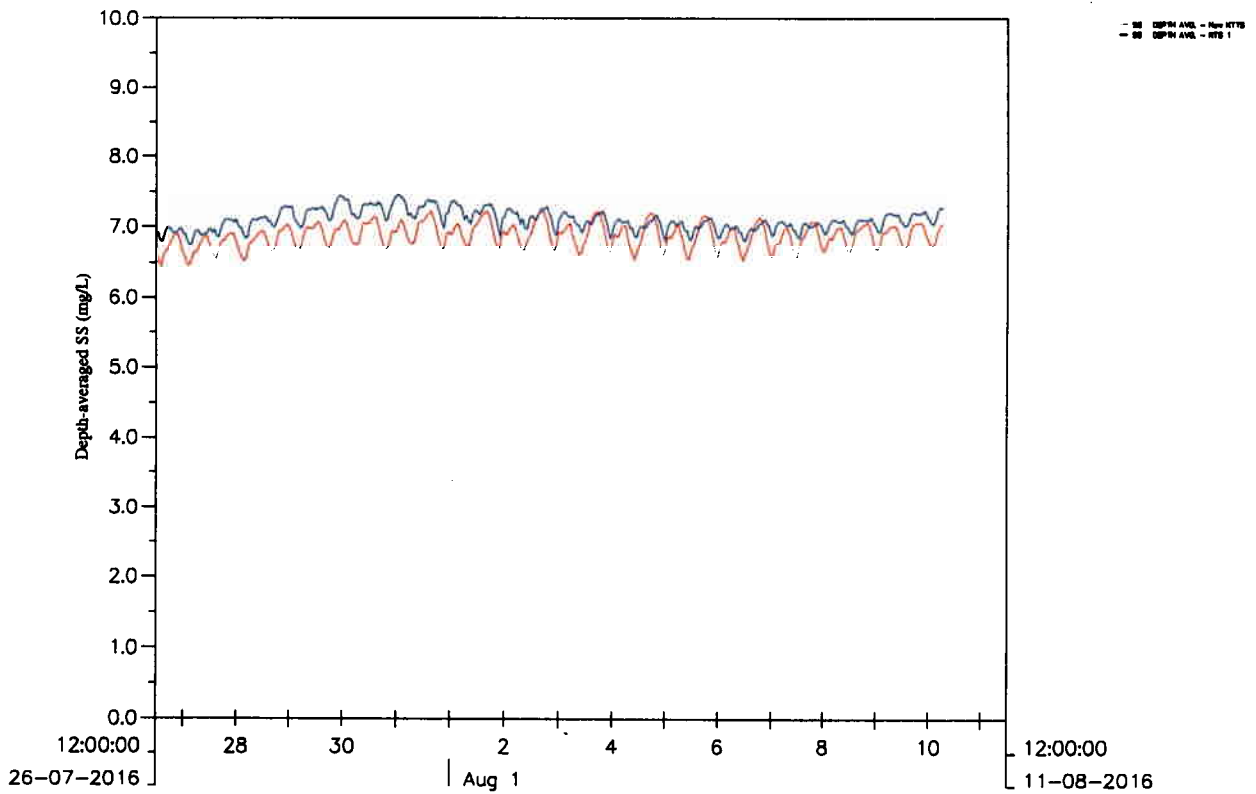


Time Series Plot of BOD at KTN – Scenario 1
 Dry Season (Upper); Wet Season (Lower)
 Red: Section at SEKD; Blue: Section near KN1

May 2001
 Drawing No. 22936/EN/309



Time Series Plots of DO, NH4 and E. coli in the water near Tsui Ping Nullah Wet Season - Blue: near RTS berthing area; Red: inside new KTTS DO (Upper); NH4 (Middle); E. coli (Lower)	May 2001	
	Drawing No. 22936/EN/310	
Ove Arup & Partners Hong Kong Ltd		

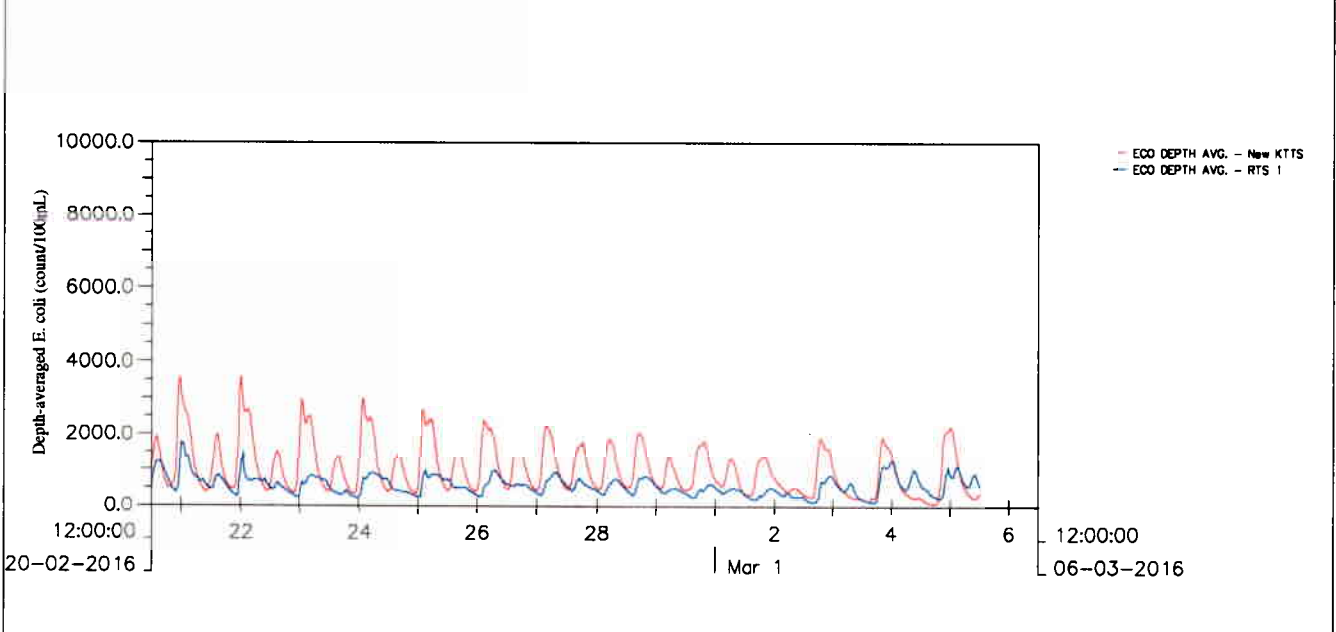
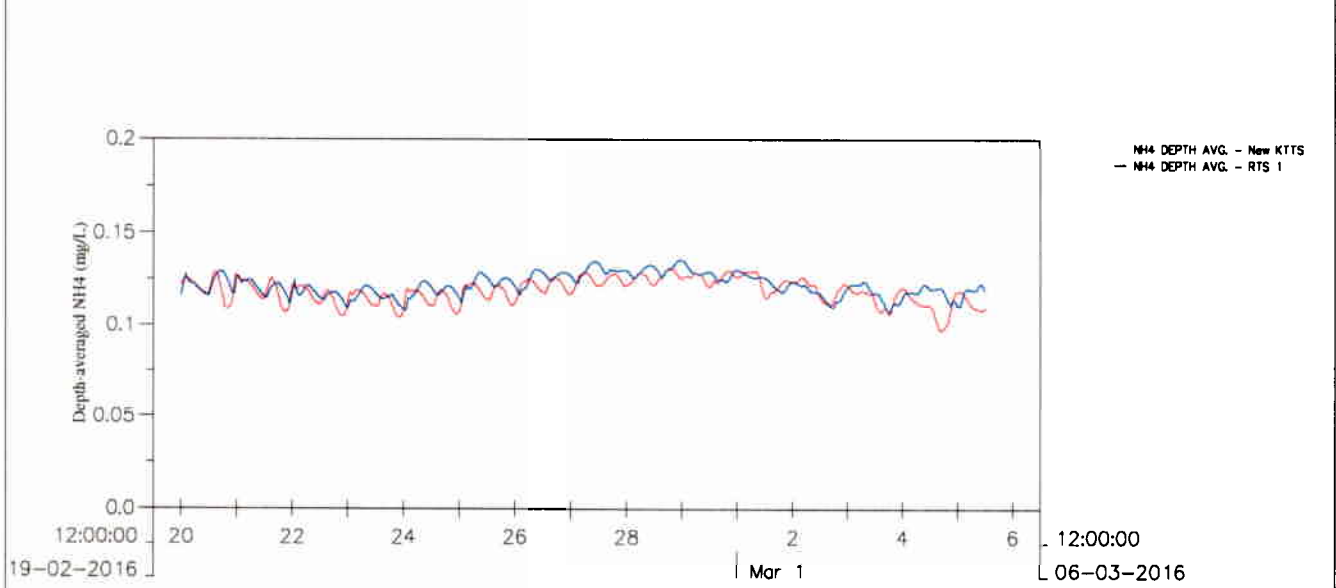
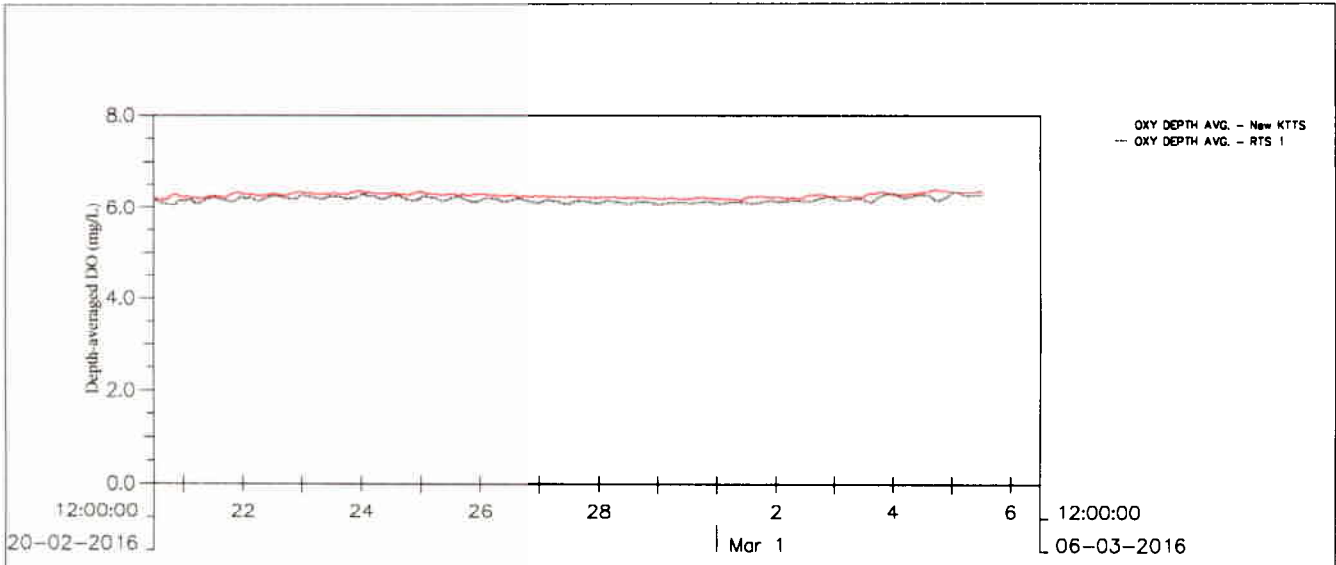


Time Series Plots of SS and BOD in the water near Tsui Ping Nullah
Wet Season - Blue: near RTS berthing area; Red: inside new KTTS
SS (Upper); BOD (Lower)

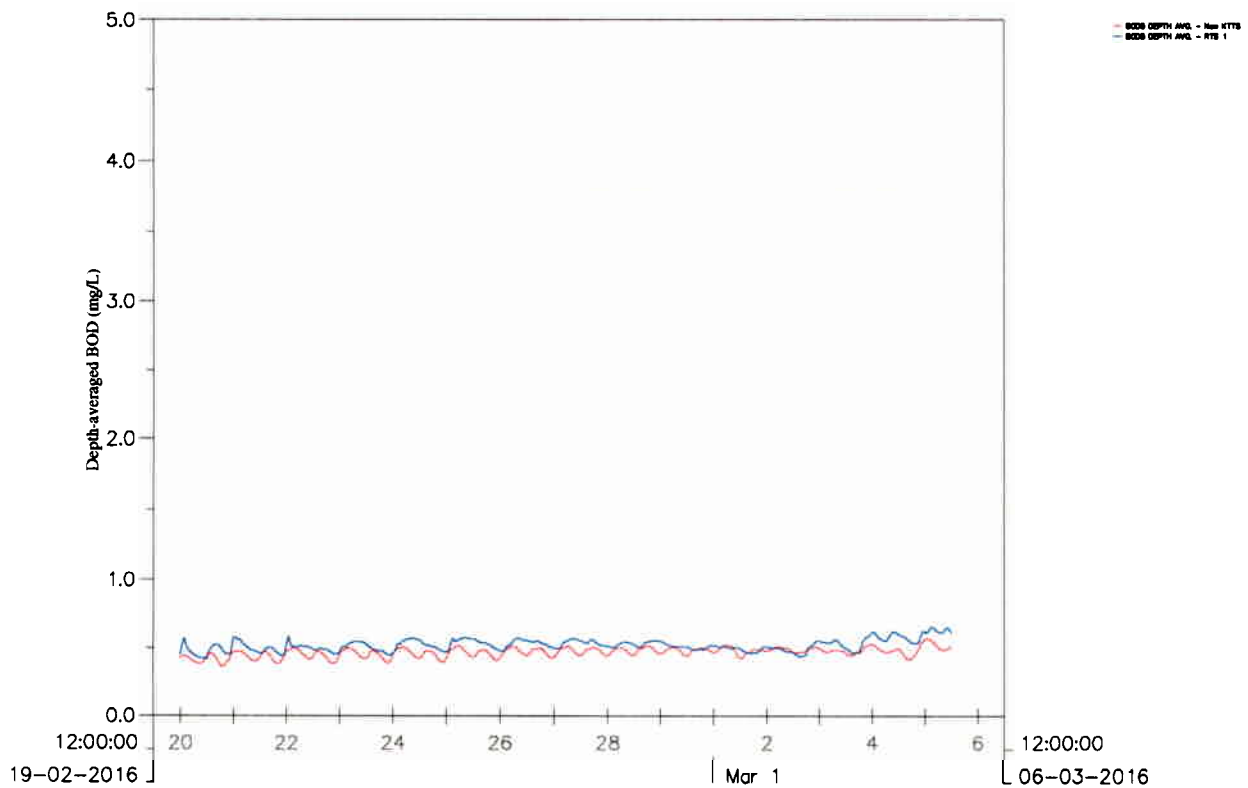
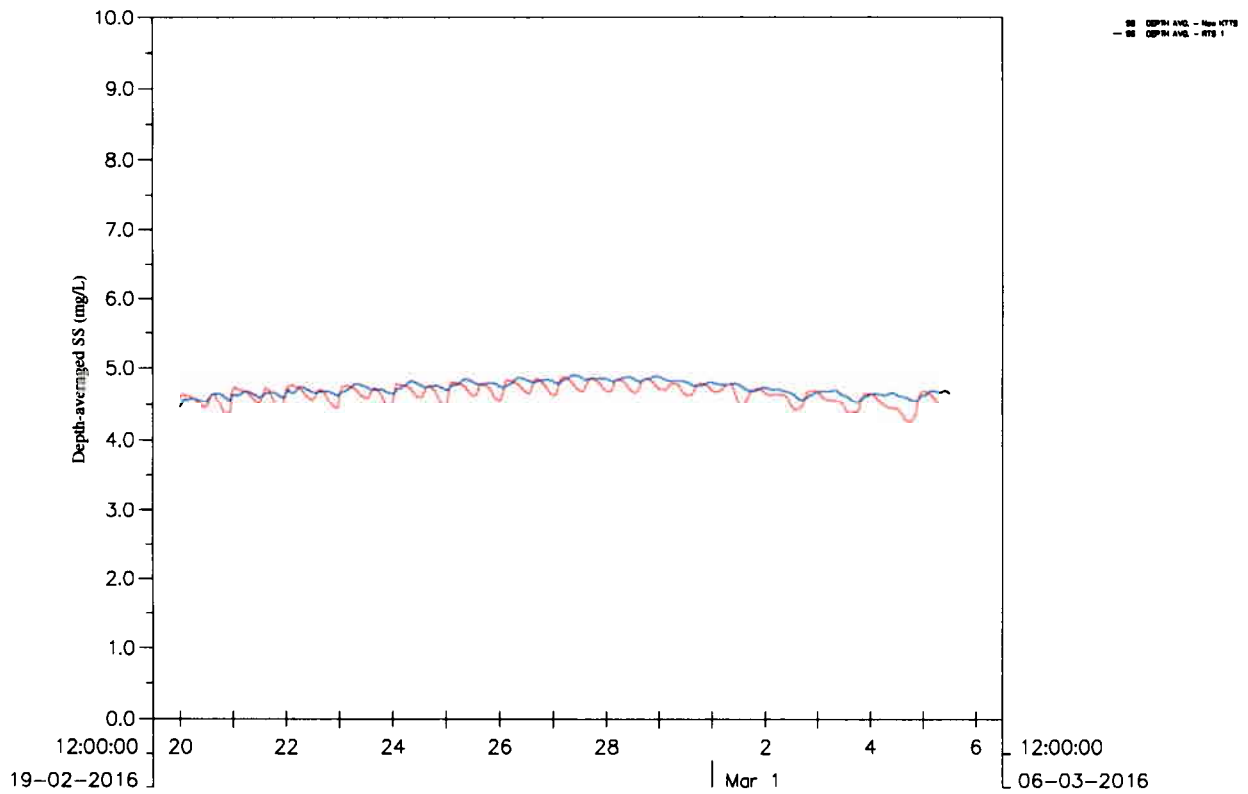
May 2001

Drawing No. 22936/EN/311

Ove Arup & Partners Hong Kong Ltd



Time Series Plots of DO, NH4, E. coli in the water near Tsui Ping Nullah Dry Season - Blue: near RTS berthing area; Red: inside new KTTS DO (Upper); NH4 (Middle); E. coli (Lower)	May 2001	
	Drawing No. 22936/EN/312	
Ove Arup & Partners Hong Kong Ltd		

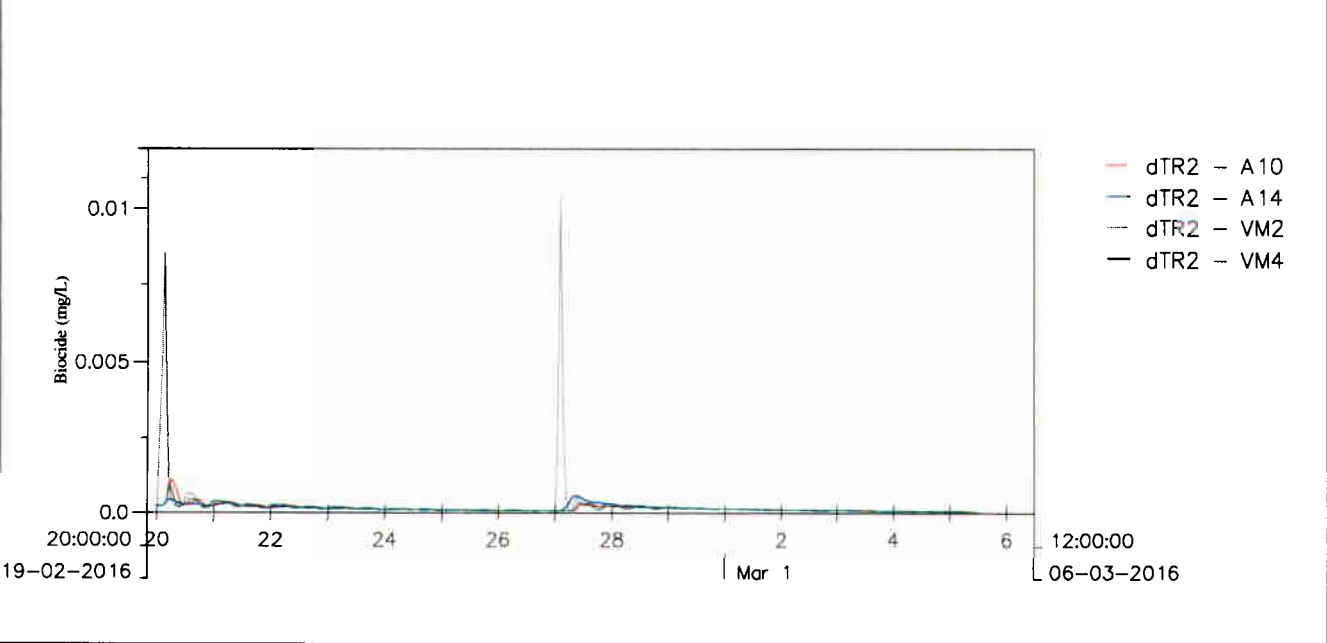
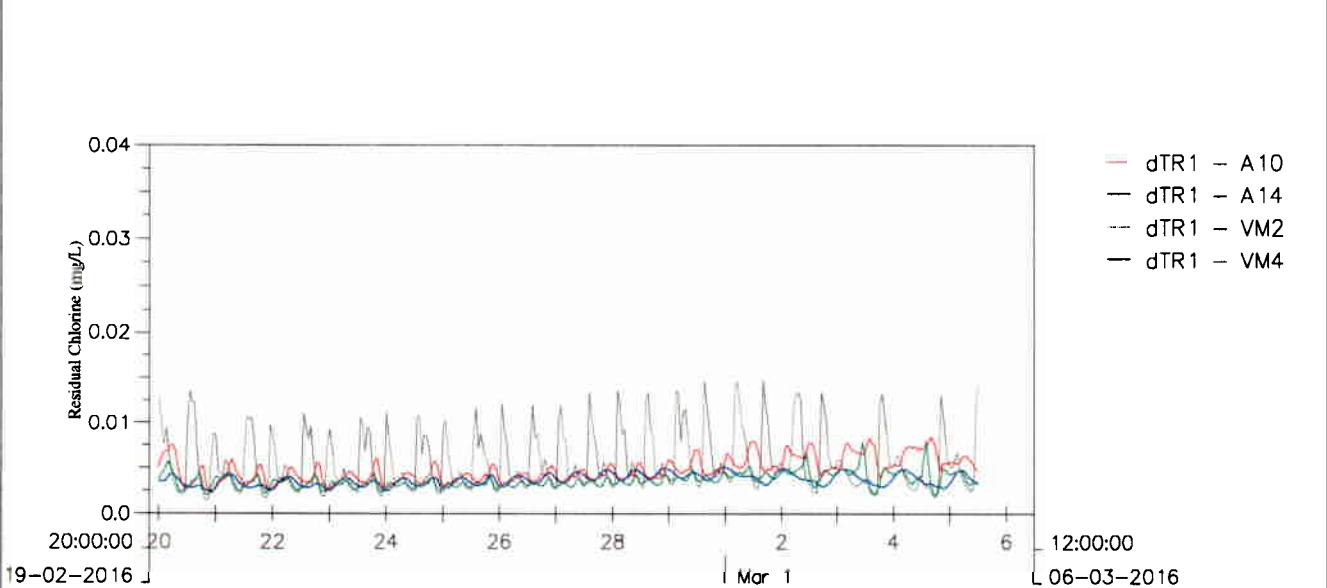
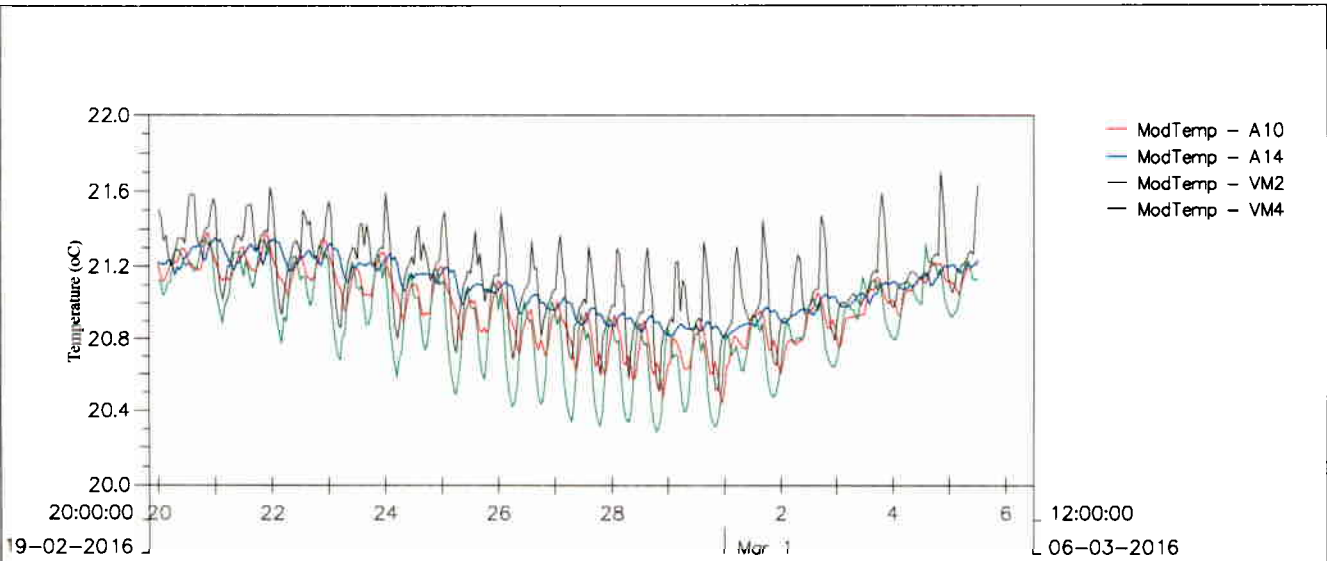


Time Series Plots of SS and BOD in the water near Tsui Ping Nullah
 Dry Season – Blue: near RTS berthing area; Red: inside new KTTS
 SS (Upper); BOD (Lower)

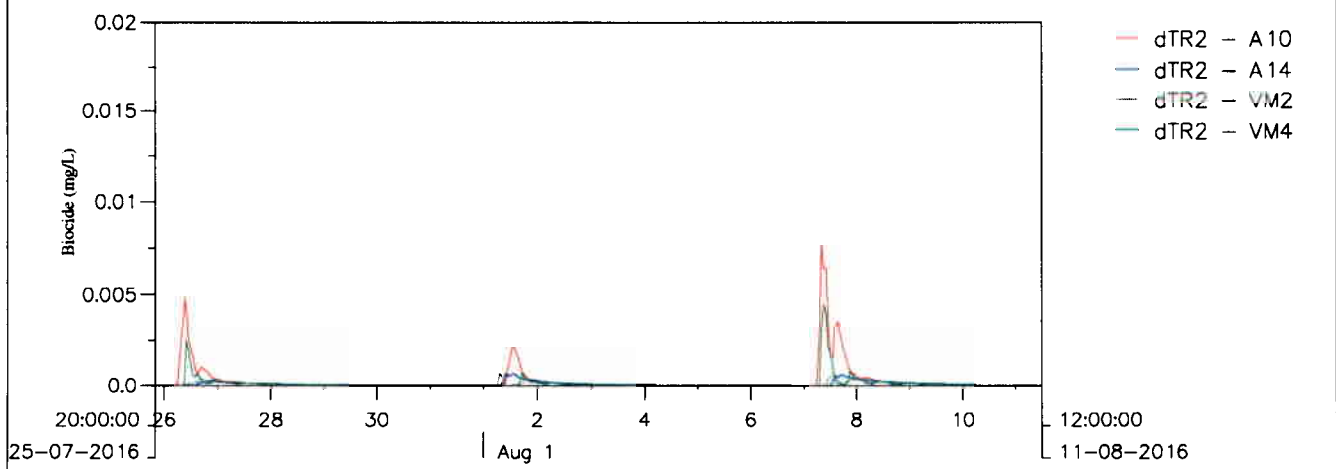
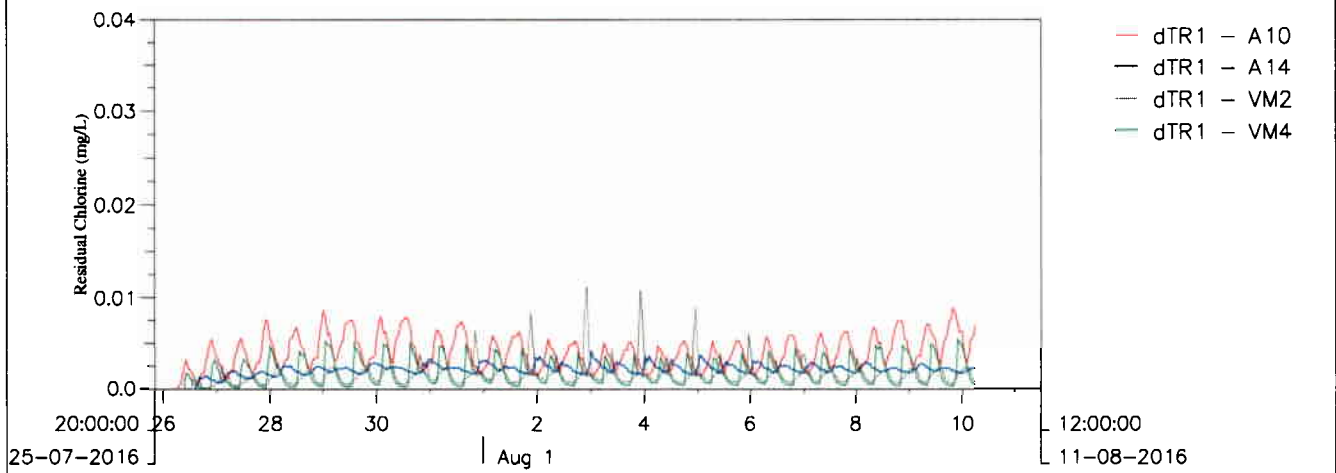
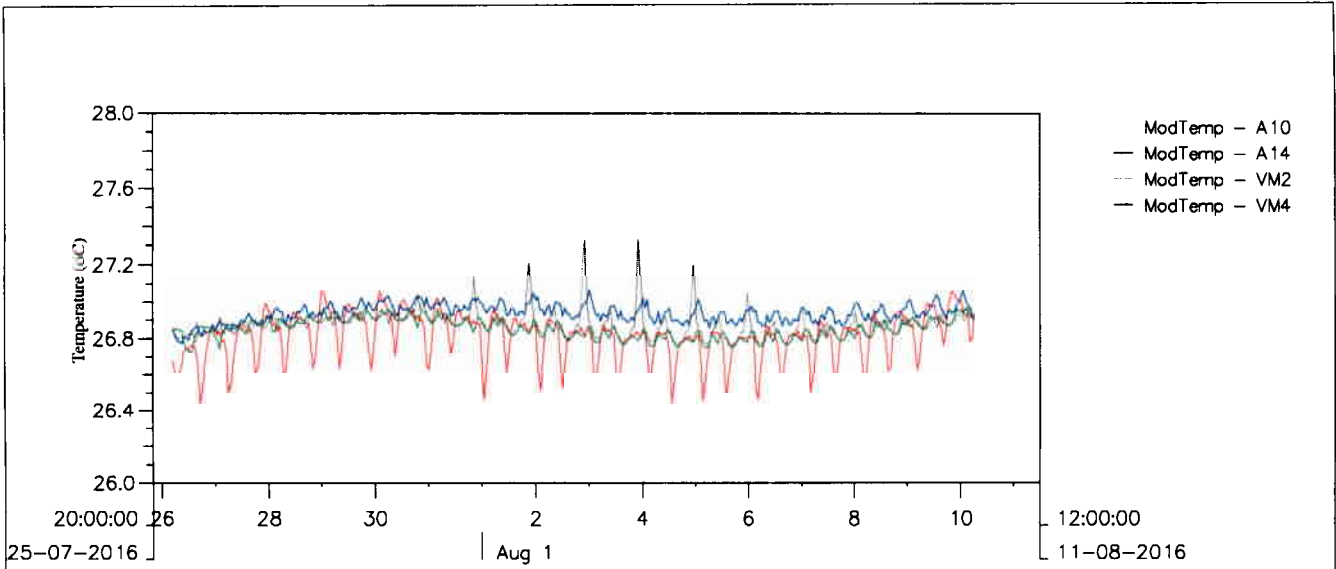
May 2001

Drawing No. 22936/EN/313

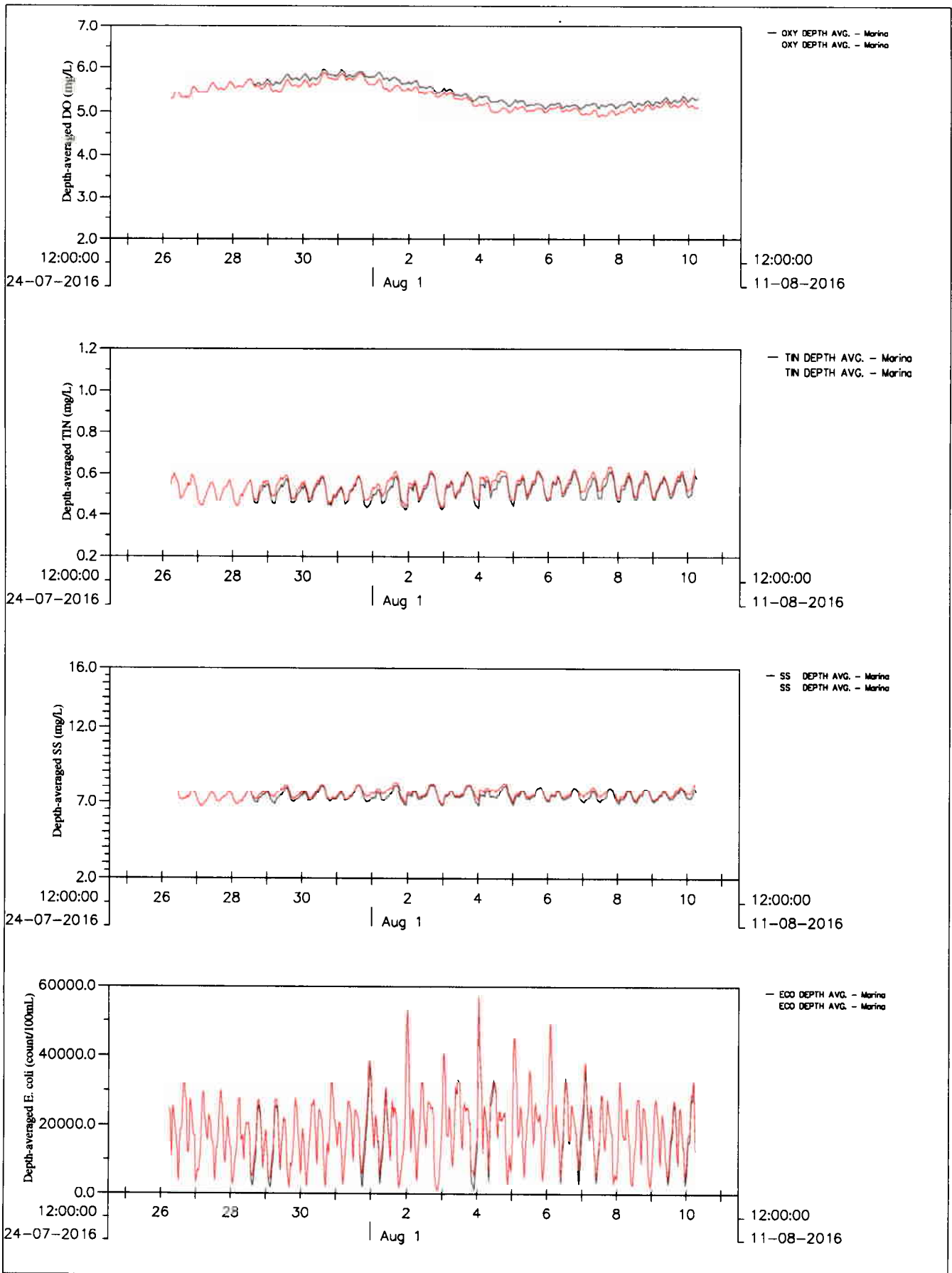
Ove Arup & Partners Hong Kong Ltd



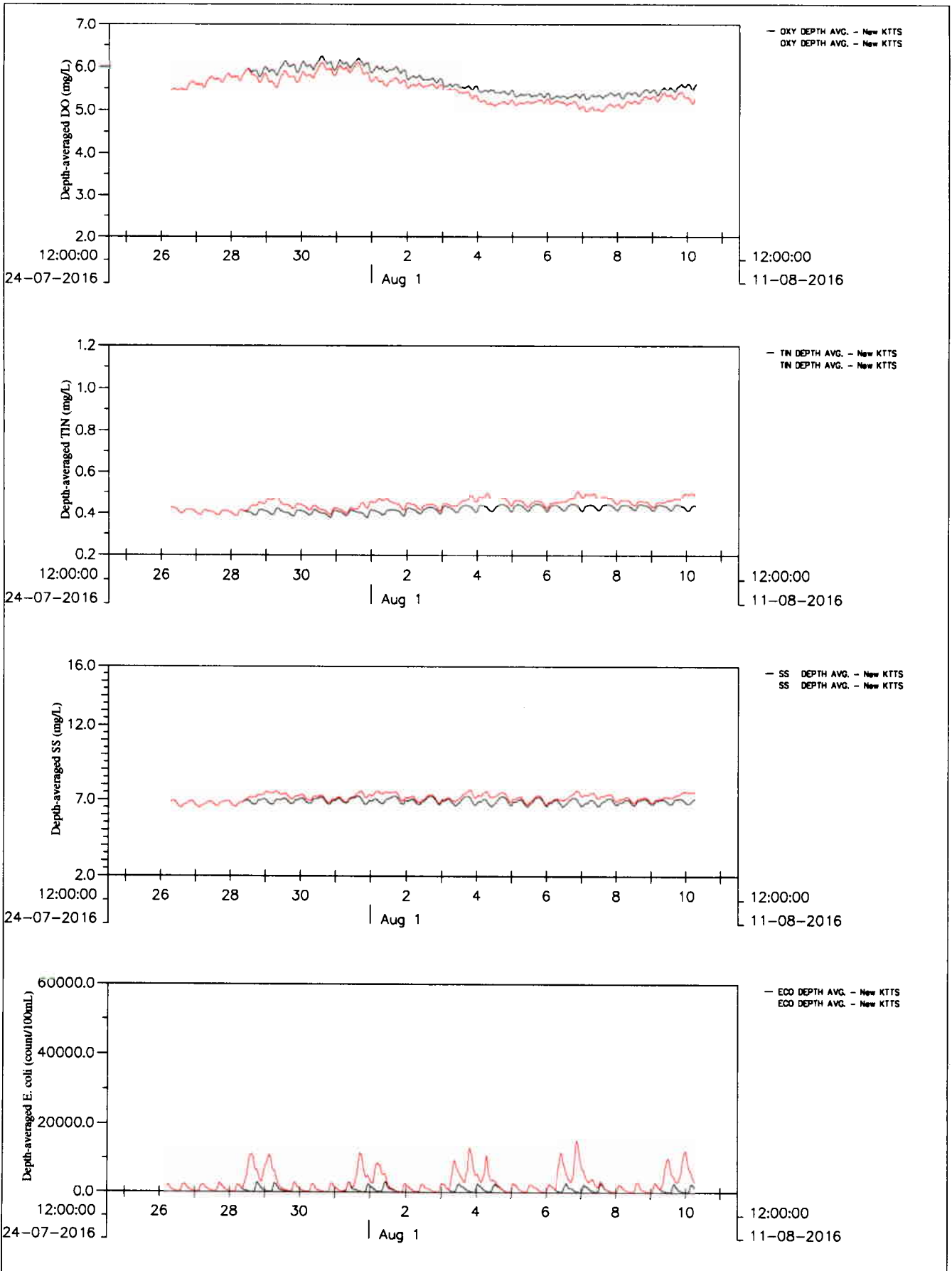
Time Series Plots for Cooling Discharges	May 2001	
Dry Season - Temperature (Upper); Residual Chlorine (Middle); Biocide (Lower)	Drawing No. 22936/EN/314	
Tai Wan=Red; Cha Kwo Ling=Blue; VM2=Dotted Line; VM4=Green		
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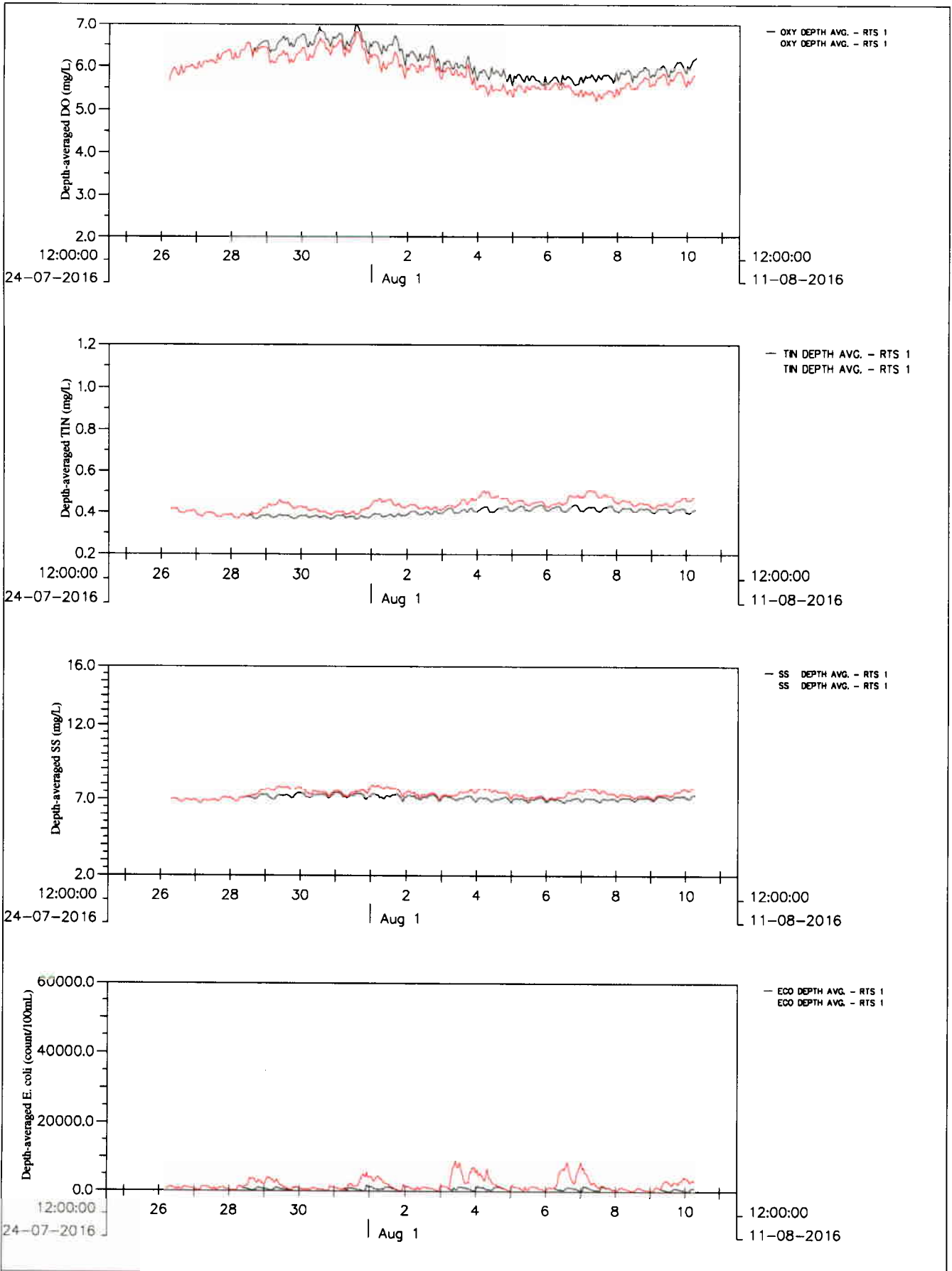
Time Series Plots for Cooling Discharges	May 2001	
Wet Season - Temperature (Upper); Residual Chlorine (Middle); Biocide (Lower)		
Tai Wan=Red; Cha Kwo Ling=Blue; VM2=Dotted; VM4=Green	Drawing No. 22936/EN/315	
Ove Arup & Partners Hong Kong Ltd		



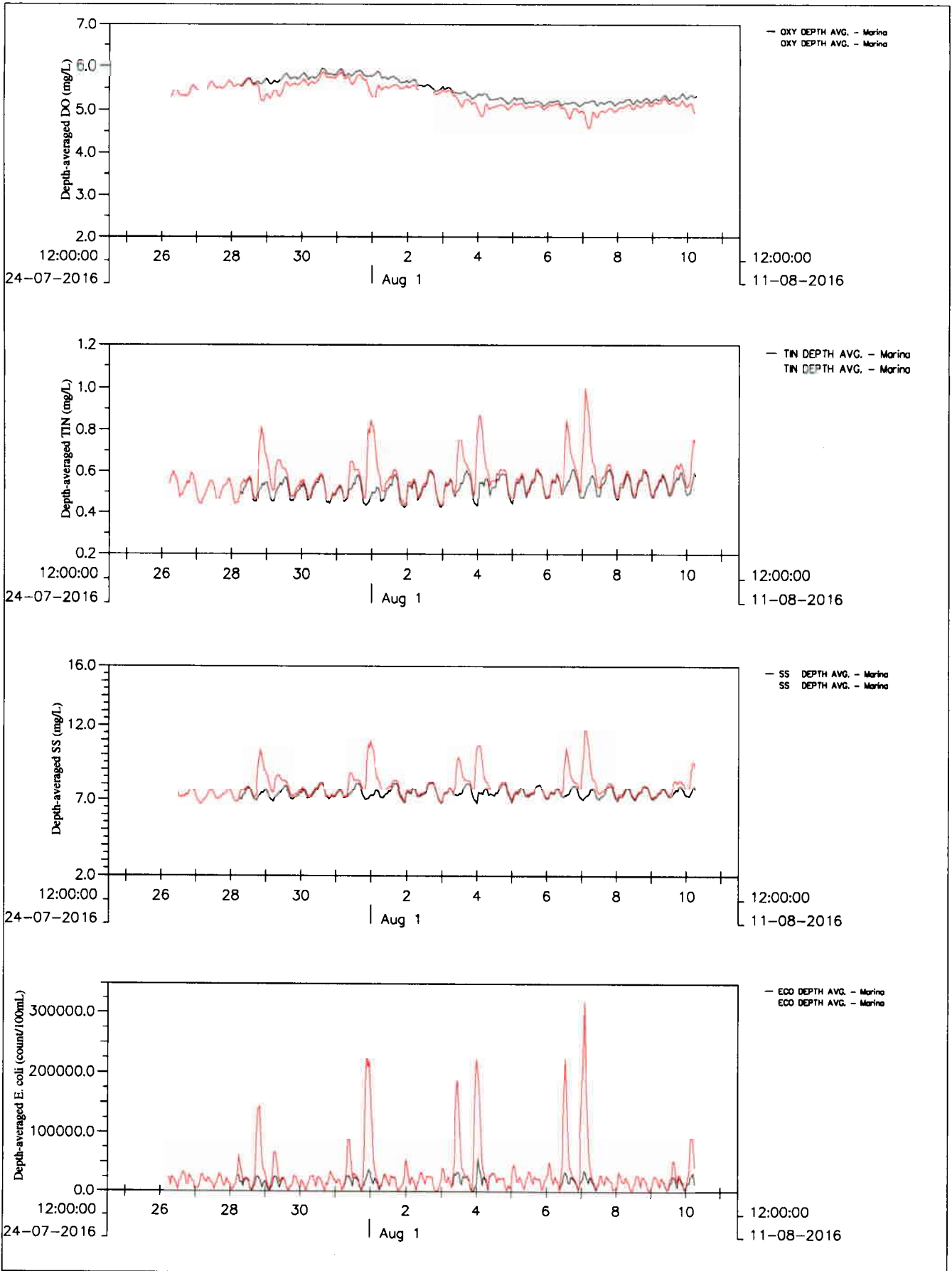
Comprehensive Feasibility Study for Revised Scheme of SEKD Water Quality at Marina - Emergency Overflow from KTPTW Upper: DO; Middle: TIN; Lower: SS; Bottom: E. coli	June 2001	
	Drawing No. 22936/EN/379	
Ove Arup & Partners Hong Kong Ltd		



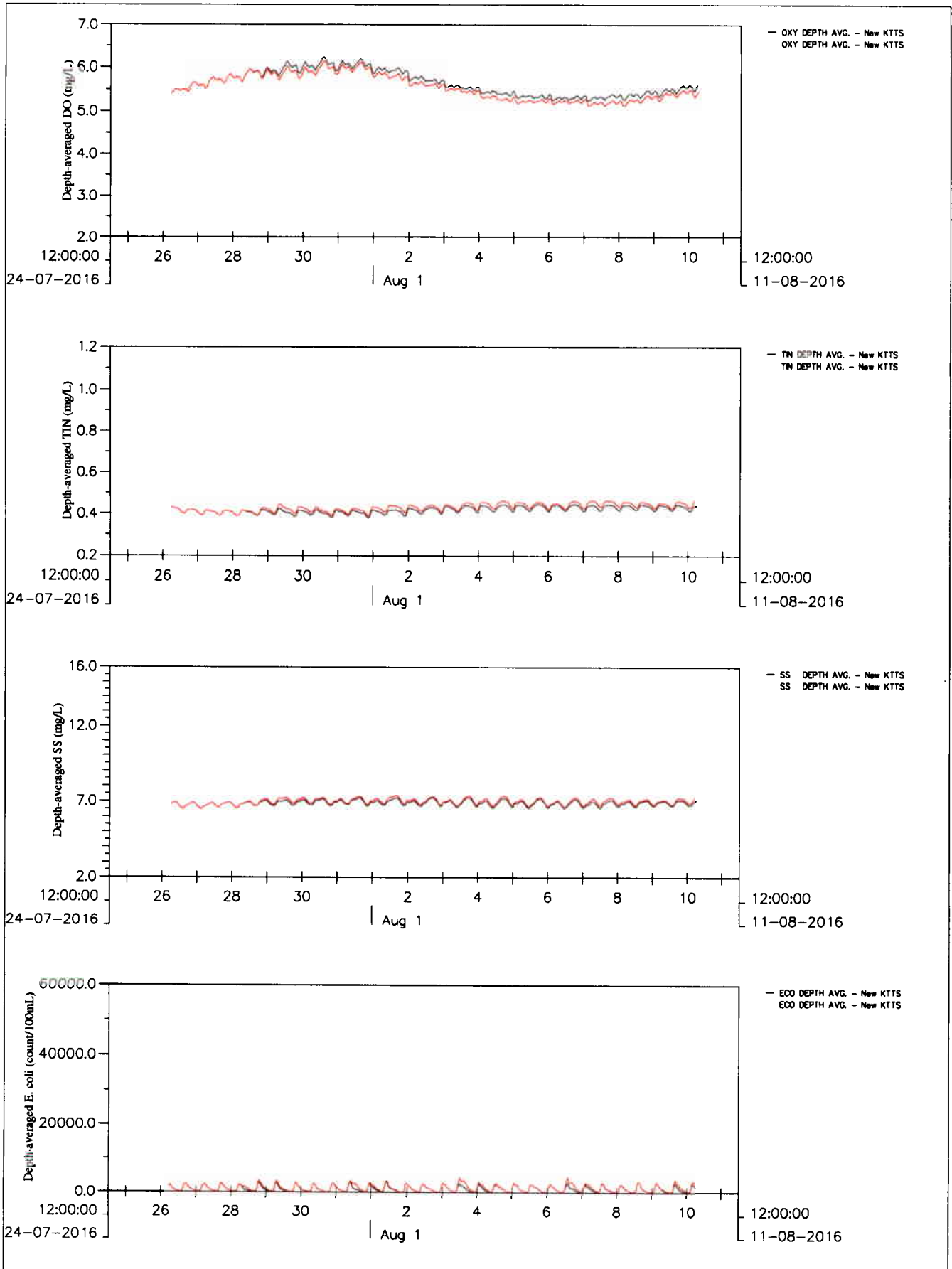
Comprehensive Feasibility Study for Revised Scheme of SEKD Water Quality at New KTTS – Emergency Overflow from KTPTW Upper: DO; Middle: TIN; Lower: SS; Bottom: E. coli	June 2001	
	Drawing No. 22936/EN/380	
Ove Arup & Partners Hong Kong Ltd	Red–Emergency	Black–Normal



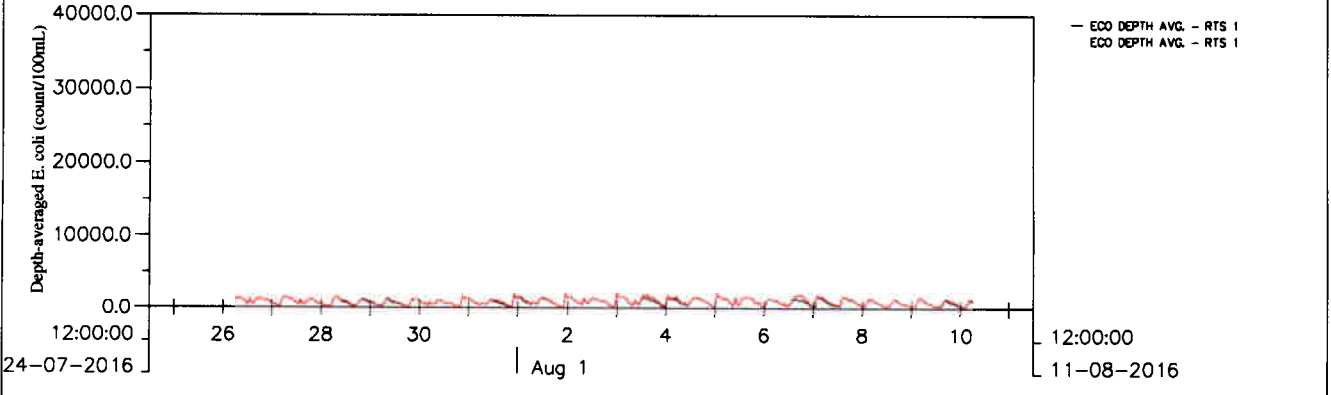
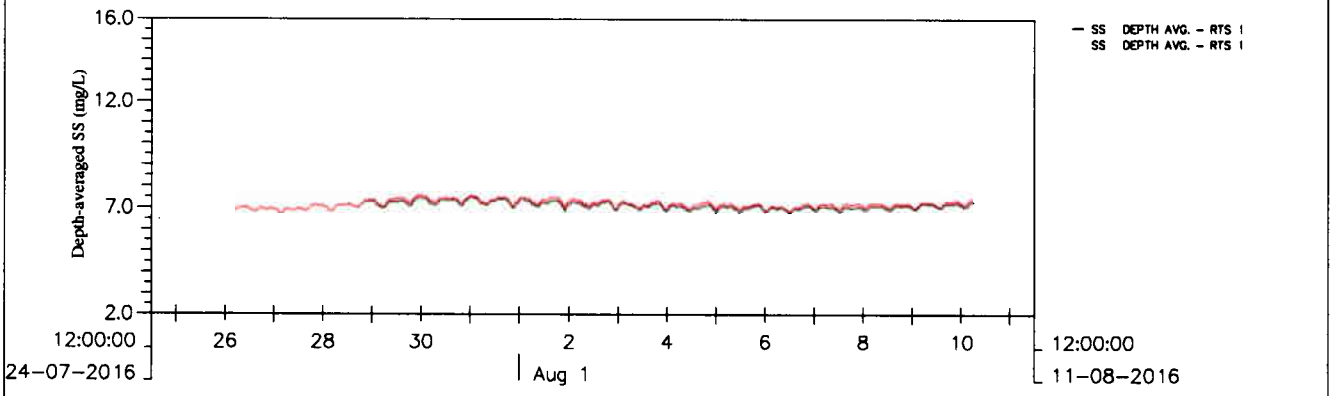
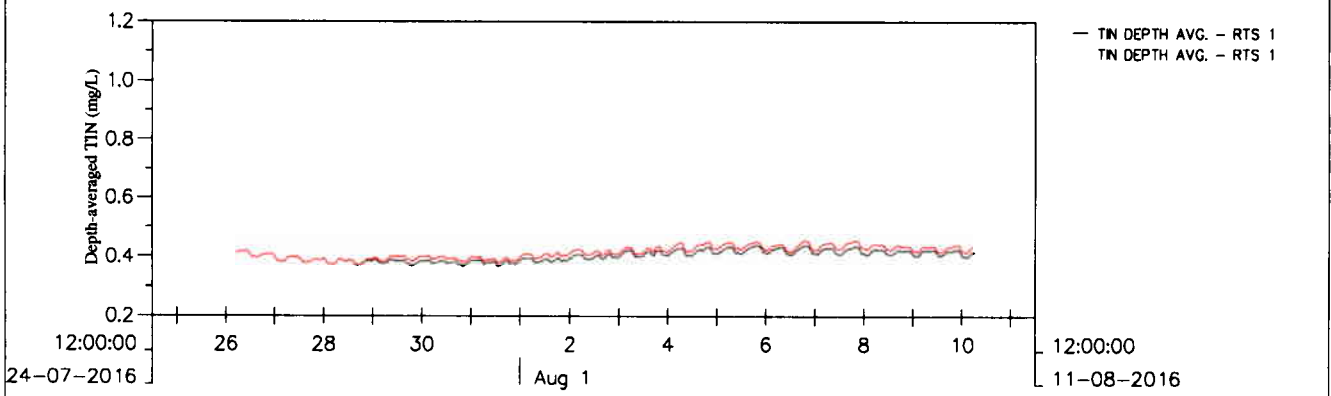
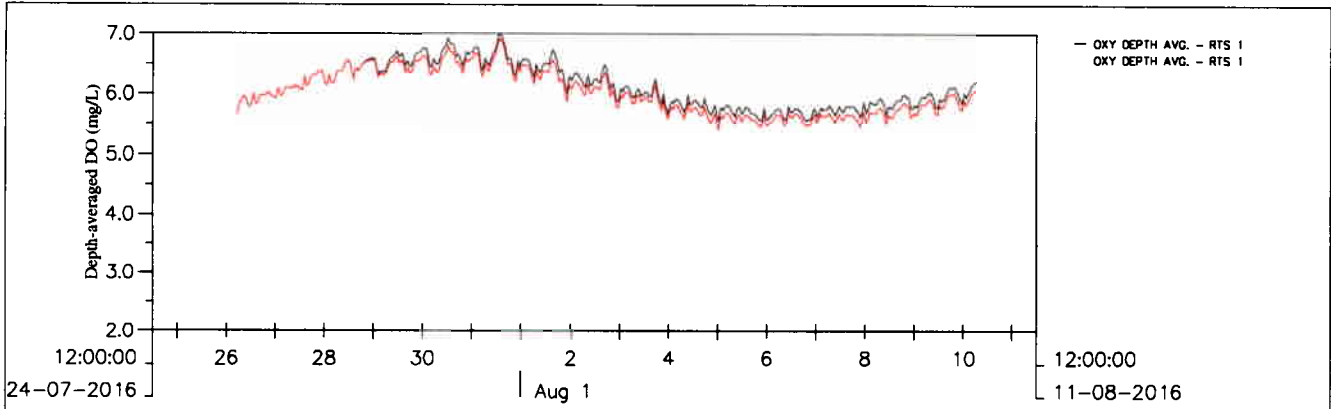
Comprehensive Feasibility Study for Revised Scheme of SEKD	June 2001	
Water Quality at Outlet of Tsing Ping Nullah – Emergency Overflow fr. KTPTW	Drawing No 22936/EN/381	
Upper: DO; Middle: TIN; Lower: SS; Bottom: E. coli	Ove Arup & Partners Hong Kong Ltd	



Comprehensive Feasibility Study for Revised Scheme of SEKD Water Quality at Marina – Emergency Overflow from TKWPTW Upper: DO; Middle: TIN; Lower: SS; Bottom: E. coli	June 2001	
	Drawing No. 22936/EN/382	
Ove Arup & Partners Hong Kong Ltd		



Comprehensive Feasibility Study for Revised Scheme of SEKD Water Quality at New KTTS – Emergency Overflow from TKWPTW Upper: DO; Middle: TIN; Lower: SS; Bottom: E. coli	June 2001	
	Drawing No. 22936/EN/383	
Ove Arup & Partners Hong Kong LTd		







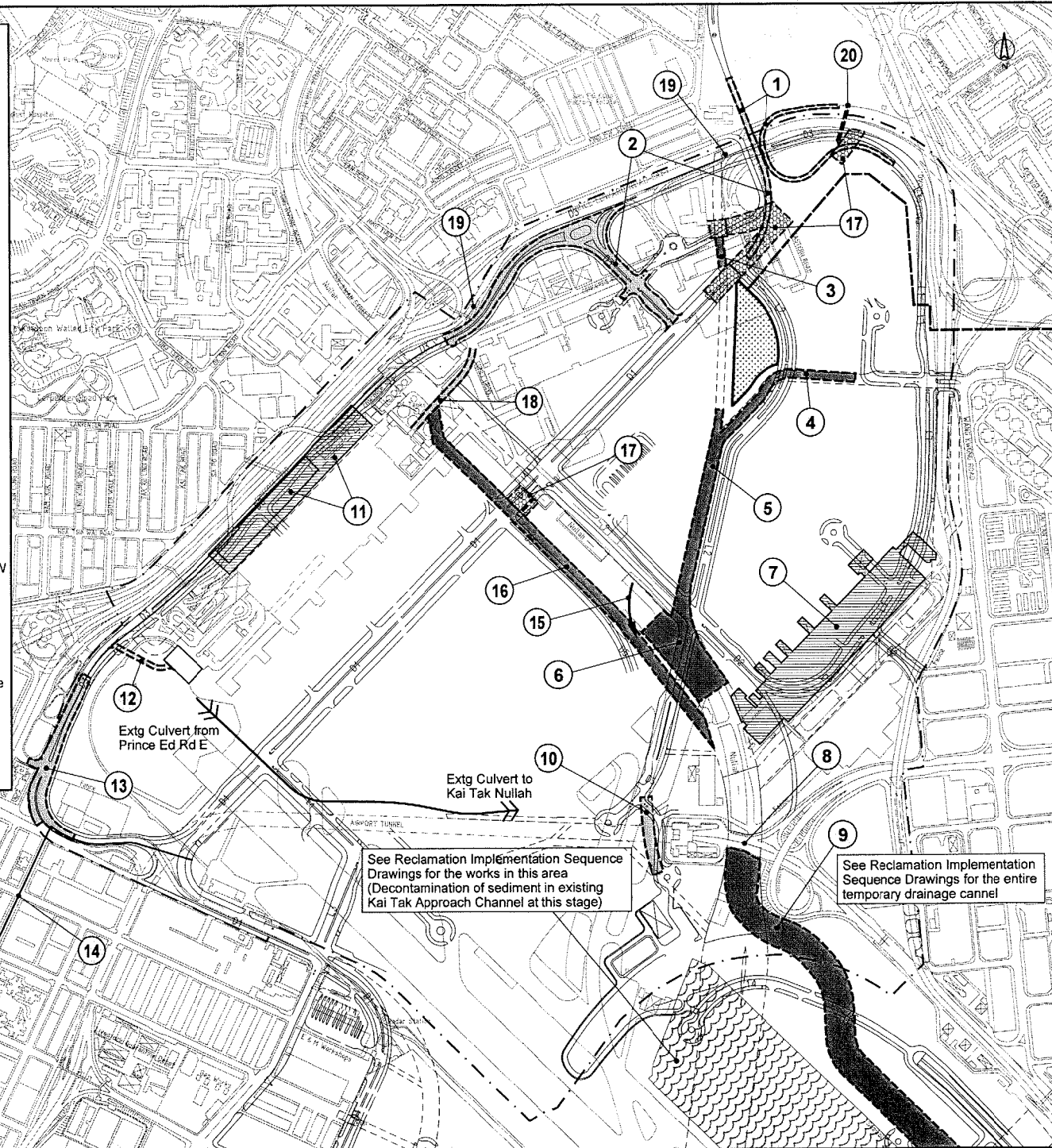
COMprehensive Feasibility Study for Revised Scheme of SEKD	June 2001	
Water Quality at outlet of Tsing Ping Nullah – Emergency Overflow fr. TKWPTW	Drawing No. 22936/EN/384	
Upper: DO; Middle: TIN; Lower: SS; Bottom: E. coli		
Ove Arup & Partners Hong Kong Ltd		

Works in Progress

- ① Bridges B1, B2;
- ② Infrastructural services in the roads around Areas 1F & 1G;
- ③ Culvert V2 at j/o Roads D1 & L2;
- ④ Culvert V1-V2 across Road L2;
- ⑤ Culvert V2 adjacent to Road L2;
- ⑥ Culvert R around j/o Roads D2 & L2;
- ⑦ Demolition of existing HACTL1 Building (By others);
- ⑧ Modification of existing bridge at Kai Tak Tunnel exit for nullah widening;
- ⑨ Temporary drainage channel;
- ⑩ Road D5 tunnel box underneath Kai Tak Tunnel;
- ⑪ Demolition of multi-storey car park and podium;
- ⑫ Temporary access to ground level carpark;
- ⑬ Infrastructural services in south-western portion of Road D3;
- ⑭ Sewer rising main and pumping stations outside North Apron to To Kwa Wan STW
- ⑮ Initial diversion for ⑥ ;
- ⑯ Construction of temporary open channel;
- ⑰ Advance works for Shatin Central Link
- ⑱ Temporary decking to maintain Concorde Road before upstream demolition;
- ⑲ Subway extension SW2 & SW3;
- ⑳ Footbridge FB7.

Legend :

-  Road Works In Progress
-  Road Works Completed
-  Drainage Works In Progress
-  Drainage Works Completed



See Reclamation Implementation Sequence Drawings for the works in this area (Decontamination of sediment in existing Kai Tak Approach Channel at this stage)

See Reclamation Implementation Sequence Drawings for the entire temporary drainage channel

Rev	Description	By	Date
B	3RD ISSUE	VY	07/01
A	2ND ISSUE	VY	03/01

Consultants	
ARUP	One Aup & Partners Hong Kong Limited
Murray Hanson Limited	ACLA Limited
Au Pookat Consultants Limited	Environmental Management Limited
Montgomery Watson Hong Kong Limited	Rozco Design Limited
Wetzel Limited	

Project title
**AGREEMENT NO. CE 32/99
 COMPREHENSIVE FEASIBILITY STUDY
 FOR THE REVISED SCHEME OF
 SOUTH EAST KOWLOON DEVELOPMENT**

Drawing title
**IMPLEMENTATION SEQUENCE
 (NAKTA)
 SEPTEMBER 2003 TO MID 2004**

Drawing no.	22936/IM/611	Rev.	B
Drawn	EW	Date	FEB 01
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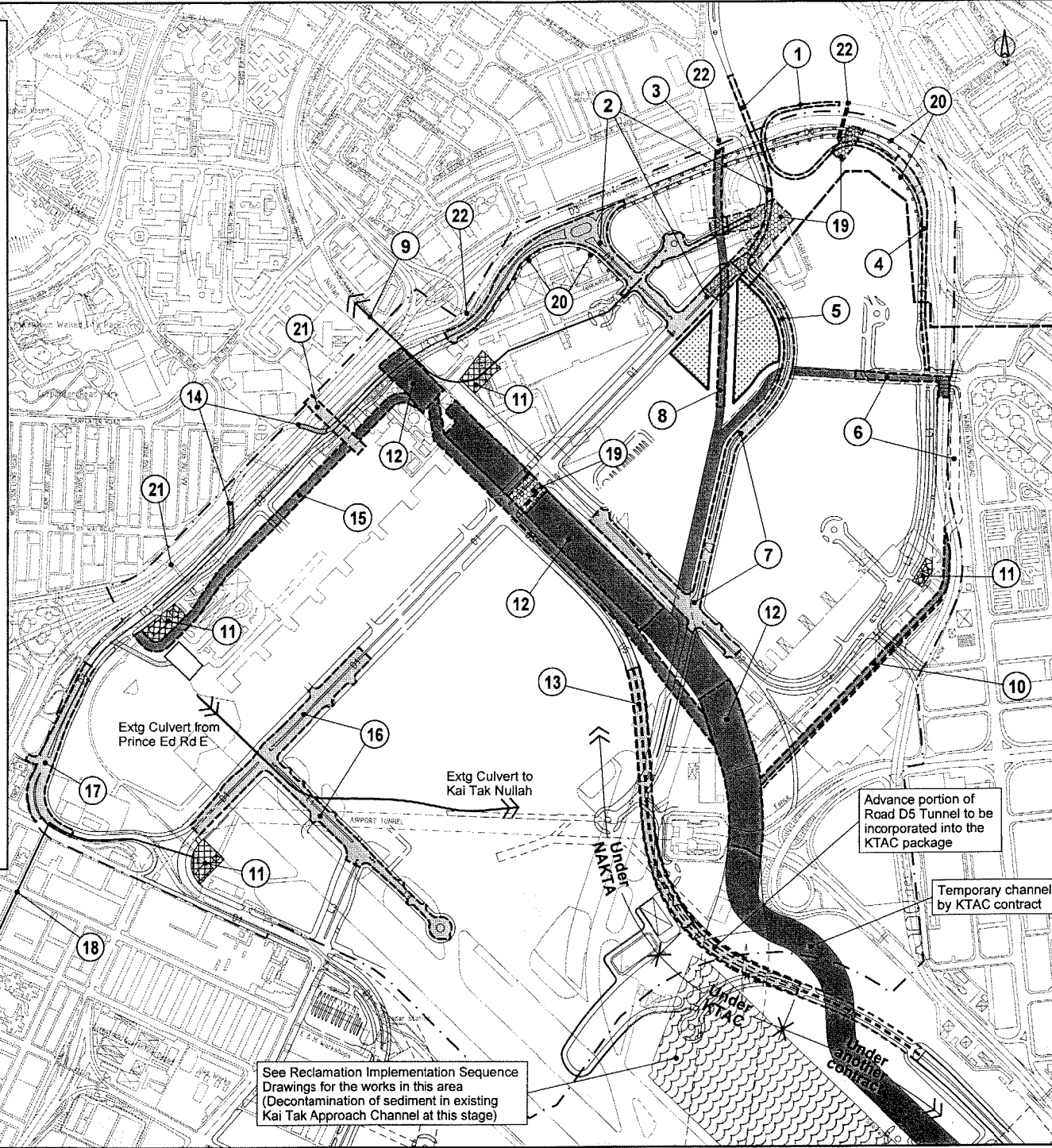
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 KOWLOON DEVELOPMENT OFFICE

Works in Progress

- ① Bridges B1, B2;
- ② Infrastructural services and roadwork for the roads around Areas 1F & 1G;
- ③ Upstream portion of Culvert V2 including connection to existing drain in Prince Edward Road East;
- ④ Infrastructural services in northern portion of Road L1;
- ⑤ Infrastructural services in Road L2;
- ⑥ Upstream portion of Culvert V1-V2 including connection to existing culvert underneath Kwun Tong Bypass;
- ⑦ Ditto for j/o Road D2 & L2;
- ⑧ Culvert V2 in Area 1H;
- ⑨ Sewerage connection to serve 1st population intake;
- ⑩ Downstream portion of Culvert V1 (Additional cells to extg culvert);
- ⑪ Sewage Pumping Stations;
- ⑫ Culvert R (partly Open Channel);
- ⑬ Road D5 tunnel box;
- ⑭ Bridge B3/E; B3/W;
- ⑮ Culvert V4;
- ⑯ Infrastructural services in Road L3, L4, D1 and D3;
- ⑰ Infrastructural services in D3;
- ⑱ Hinterland sewer rising main construction.
- ⑲ Advance works for Shatin Central Link
- ⑳ Noise barrier on Road D3;
- ㉑ Footbridge FB2 and subway extension SW1;
- ㉒ Footbridge FB7 and Subways SW2, SW3.

Legend :

-  Road Works In Progress
-  Road Works Completed
-  Drainage Works In Progress
-  Drainage Works Completed



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Rev	Description	By	Date

Consultants	
ARUP	Ove Arup & Partners Hong Kong Limited
Murray Harrison Limited	ACLA Limited
Au Pford Consultancy Limited	Environmental Management Limited
Montgomery Watson Hong Kong Limited	Rocco Design Limited
Wetzel Limited	

Project Site

AGREEMENT NO. CE 32/99
COMPREHENSIVE FEASIBILITY STUDY
FOR THE REVISED SCHEME OF
SOUTH EAST KOWLOON DEVELOPMENT

Drawing title

IMPLEMENTATION SEQUENCE (NAKTA)			
MID 2004 TO MARCH 2005			
Drawing no.	22936/IM/612	Rev.	B
Drawn by	EB	Date	FEB 01
Checked by	CC	Approved by	VY
Scale	1:7000	Status	PRELIMINARY

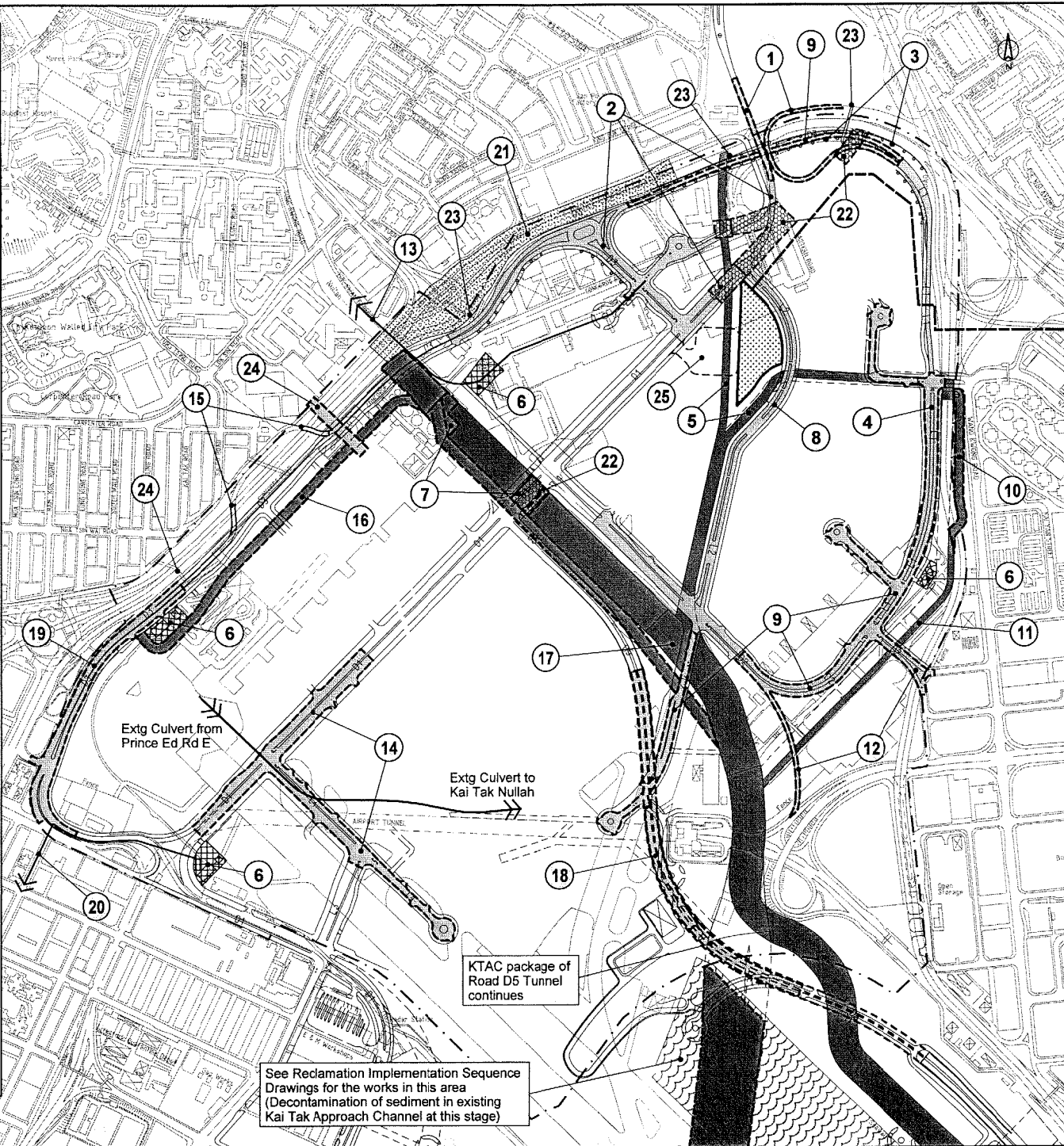
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Works in Progress

- ① Bridges B1, B2;
- ② Completion of Roadwork around Areas 1E, 1F & 1G;
- ③ Noise Barrier on D3;
- ④ Infrastructural services & Roadwork in Road L1;
- ⑤ Completion of Culverts V2 and V1-V2;
- ⑥ Sewage Pumping Stations;
- ⑦ Upstream portion of Culvert R;
- ⑧ Completion of Roadwork in Road L2;
- ⑨ Infrastructural Services & Roadwork in southern portion of Roads D2, D3, L2 and L1;
- ⑩ Culvert V1 adjacent to Wong Kwang Road (additional cells to existing culvert);
- ⑪ Completion of Culvert V1 adjacent to HACTL 2 Building (additional cells to existing culvert);
- ⑫ Infrastructural Services & Roadwork in Road connection to Kai Cheung Road and Kai Shing Street;
- ⑬ Sewerage connection for 1st population intake;
- ⑭ Infrastructural services & road works in Roads D1, L3 & L4;
- ⑮ Bridge B3/E, B3/W;
- ⑯ Culvert V4;
- ⑰ Completion of Culvert R (partly Open Channel), together with DSD Maintenance Depot;
- ⑱ Road D5 in NAKTA including tunnel box;
- ⑲ Infrastructural services & road works in Roads D3;
- ⑳ Hinterland sewer rising main construction.
- ㉑ Low noise road surfacing to existing road;
- ㉒ Advanced works for Shatin Central Link;
- ㉓ Completion of footbridge FB7 subway SW2 and SW3 extension;
- ㉔ Footbridge FB2 and subway SW1 construction;
- ㉕ PTI commission at Mid 2005.



See Reclamation Implementation Sequence Drawings for the works in this area (Decontamination of sediment in existing Kai Tak Approach Channel at this stage)

Legend :

- Road Works In Progress
- Road Works Completed
- Drainage Works In Progress
- Drainage Works Completed

Rev	Description	By	Date
B	3RD ISSUE	YY	07/01
A	2ND ISSUE	VY	03/01

Consultants	
ARUP	Ove Arup & Partners Hong Kong Limited
Murray Harbour Limited	ACLA Limited
Au Pookford Consultants Limited	Environmental Management Limited
Montgomery Watson Hong Kong Limited	Rozco Design Limited
Widnell Limited	

Project title
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 COMPREHENSIVE FEASIBILITY STUDY
 FOR THE REVISED SCHEME OF
 SOUTH EAST KOWLOON DEVELOPMENT**

Drawing title
**IMPLEMENTATION SEQUENCE
 (NAKTA)
 APRIL 2005 TO SEPTEMBER 2005**

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Works in Progress

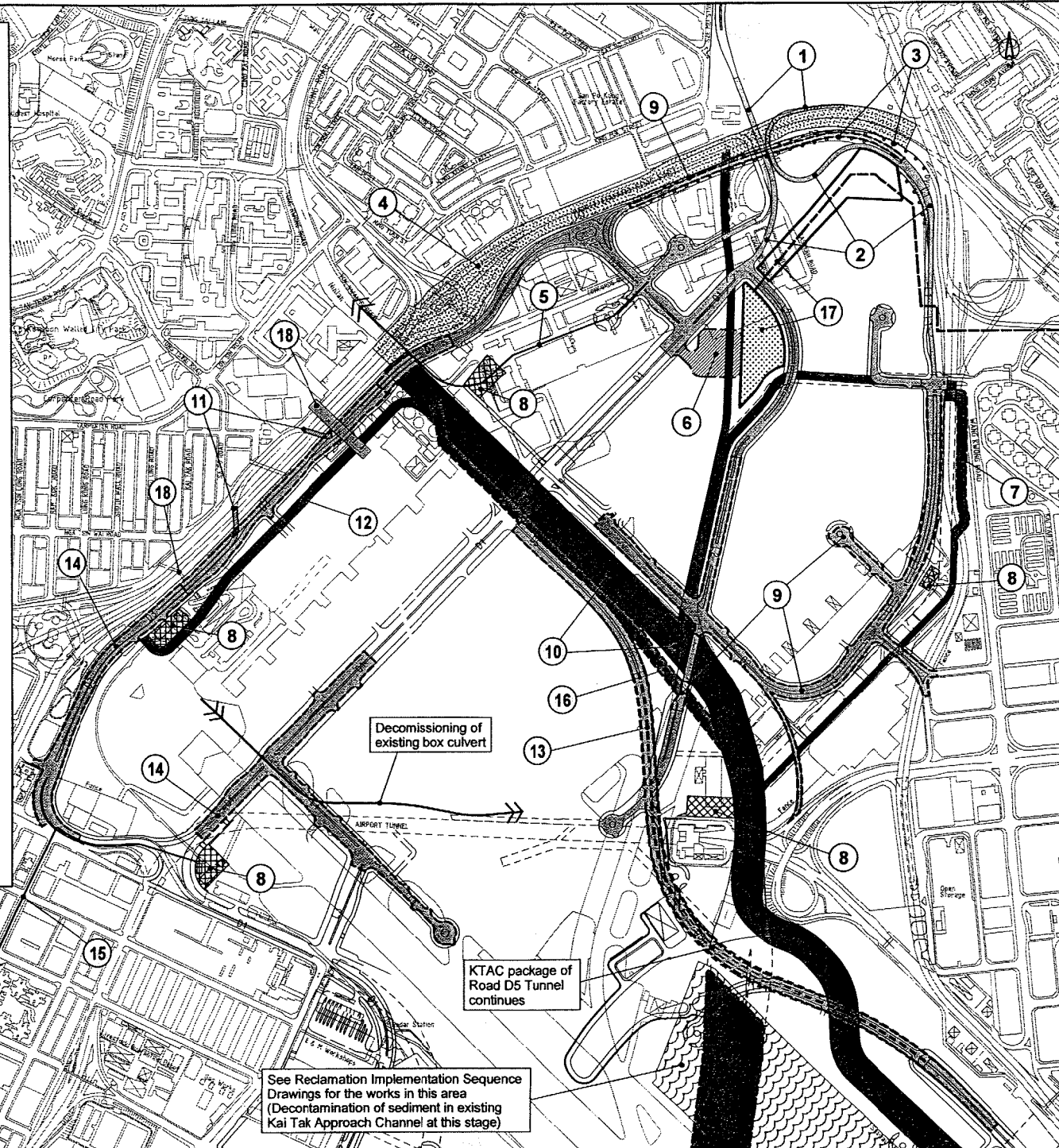
- ① Completion of Bridges B1, B2;
- ② Completion of Roadwork around Areas 1A and 1E to 1H;
- ③ Noise Barrier on D3;
- ④ Low noise surfacing on existing road;
- ⑤ Sewerage connection for 1st population intake;
- ⑥ Temporary PTI commence at end 2004 after partial relocation of CED's receptor site;
- ⑦ Culvert V1 adjacent to Wang Kwong Road;
- ⑧ Sewage Pumping Stations;
- ⑨ Infrastructural services and Roadwork for roads around Areas 1B & 1C and Road D3;
- ⑩ Completion of Culvert R (partly open channel), together with DSD Maintenance Depot;
- ⑪ Bridge B3/E; B3/W;
- ⑫ Completion of Culvert V4;
- ⑬ Road D5 Tunnel;
- ⑭ Infrastructural services and Roadwork D3, D1;
- ⑮ Hinterland sewer rising main construction;
- ⑯ Backfill to temporary channel;
- ⑰ Receptor Site for CED Housing site project to be partially relocated to adjacent District Open Space(DO) excluding area of roadway reserve and laid water mains reserve to compensate the loss area. Water mains within the DO have to be completed by end 2004;
- ⑱ Completion of subway extension SW1 and footbridge FB2.

Legend :

-  Road Works In Progress
-  Road Works Completed
-  Drainage Works In Progress
-  Drainage Works Completed

Note :


Area in DO to be occupied by the relocated receptor site shall be not more than the area to be relocated. Only major noise barrier are shown. Detail layout of noise barrier shall refer to relevant drawing in EIA report.



Decommissioning of existing box culvert

KTAC package of Road D5 Tunnel continues

See Reclamation Implementation Sequence Drawings for the works in this area (Decontamination of sediment in existing Kai Tak Approach Channel at this stage)

A	2ND ISSUE	VY	03/01
Rev	Description	By	Date
Consultants			
ARUP One Arup & Partners Hong Kong Limited			
Mansy Harrison Limited	ACIA Limited		
Au Pabford Consultants Limited	Environmental Management Limited		
Montgomery Watson Hong Kong Limited	Pacco Design Limited		
Widell Limited			
Project Title			
AGREEMENT NO.CE 32/99 COMPREHENSIVE FEASIBILITY STUDY FOR THE REVISED SCHEME OF SOUTH EAST KOWLOON DEVELOPMENT			
Drawing Title			
IMPLEMENTATION SEQUENCE (NAKTA) OCTOBER 2004 TO MID 2005			
Drawing no.		Rev.	
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Works in Progress

- ① Sewer rising main (completion 31/3/2006);
- ② Road D5 including tunnel box (completion end 2007);
- ③ Temporary road lining D1-East and D1-West can be completed after 3/2006 if preferred;
- ④ Road work and infrastructural services for the portion of Road D1 adjacent to Sung Wong Toi Road (completion 31/3/2006);
- ⑤ Sewage Pumping Stations;
- ⑥ Complete remaining works on Road L2;
- ⑦ Footbridge FB3 commence after decommissioning of conveyor belt at End 2005 and complete around End 2007;
- ⑧ Decommissioning and demolition of receptor site and conveyor commence after End 2005.

Road D3 at least completed up to this point with connection to Concorde Road





Construction of SCL Works may commence at this stage (Earliest completion date 2008)

Landbridge to area 2A will start after completion of SCL and complete before completion of area 2A development

Junction of Roads L3 & L4 to be reinstated after completion of this portion of SCL

Road L3 to be constructed after completion of this portion of SCL

Legend :

-  Road Works In Progress
-  Road Works Completed
-  Drainage Works In Progress
-  Drainage Works Completed

B	3RD ISSUE	VY	07/01
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Rev	Description	By	Date

Consultants
ARUP One Arup & Partners Hong Kong Limited
 Murrey Harrison Limited ACIA Limited
 Au Poon & Associates Limited Environmental Management Limited
 Montgomery Watson Hong Kong Limited Rocco Design Limited
 WSP Limited

Project Title
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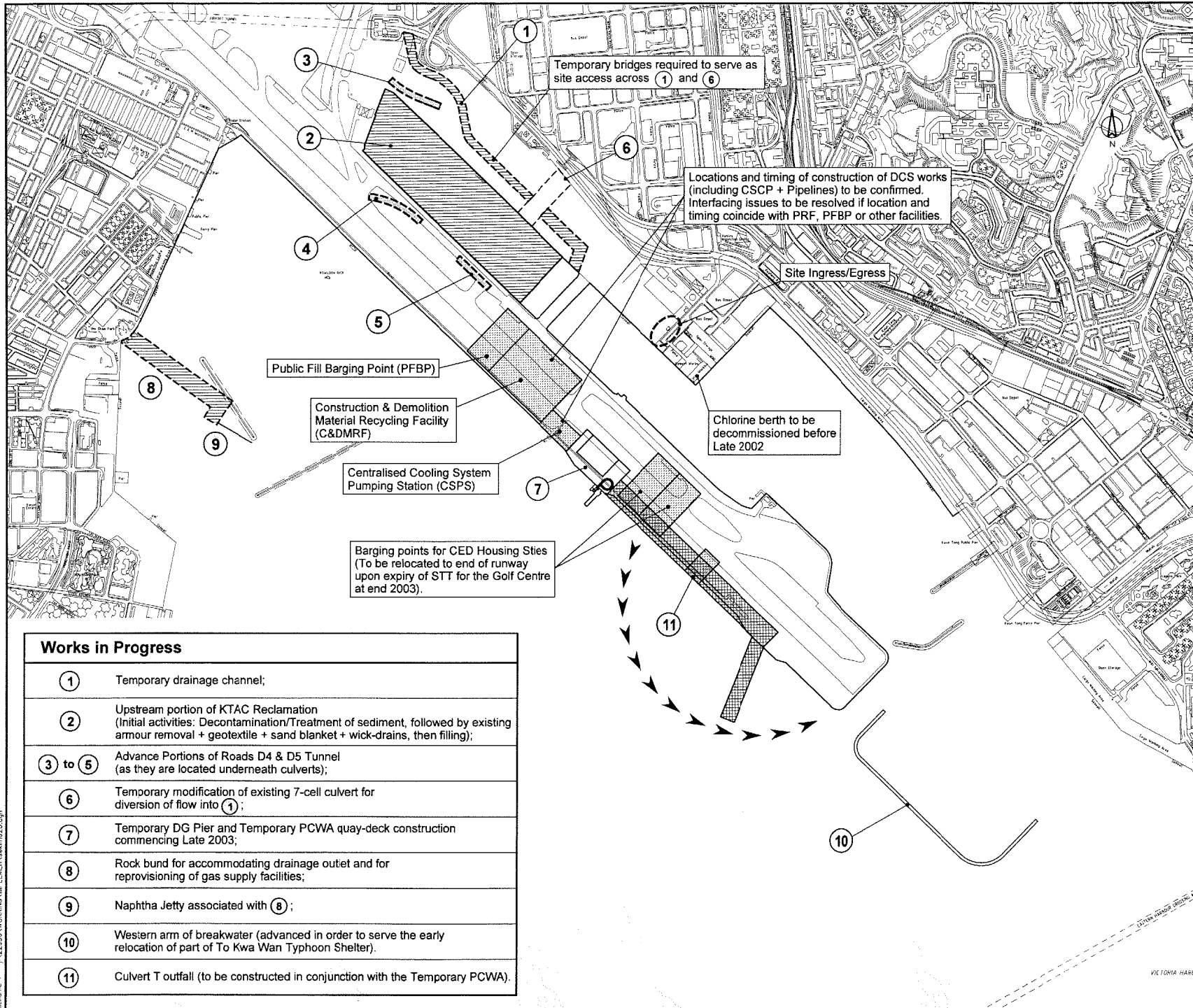
Drawing Title
**IMPLEMENTATION SEQUENCE
 (NAKTA)
 SEPTEMBER 2005 TO MARCH 2006**

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Works in Progress

①	Temporary drainage channel;
②	Upstream portion of KTAC Reclamation (Initial activities: Decontamination/Treatment of sediment, followed by existing armour removal + geotextile + sand blanket + wick-drains, then filling);
③ to ⑤	Advance Portions of Roads D4 & D5 Tunnel (as they are located underneath culverts);
⑥	Temporary modification of existing 7-cell culvert for diversion of flow into ①;
⑦	Temporary DG Pier and Temporary PCWA quay-deck construction commencing Late 2003;
⑧	Rock bund for accommodating drainage outlet and for reprovisioning of gas supply facilities;
⑨	Naphtha Jetty associated with ⑧;
⑩	Western arm of breakwater (advanced in order to serve the early relocation of part of To Kwa Wan Typhoon Shelter).
⑪	Culvert T outfall (to be constructed in conjunction with the Temporary PCWA).

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Rev	Description	By	Date

Consultants

ARUP One Axis & Partners Hong Kong Limited

Munsey Harbour Limited ACLA Limited
 Au Poon & Partners Limited Environmental Management Limited
 Monge & Watson Hong Kong Limited Rocco Design Limited
 Wilmott Limited

Project title

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 FOR THE REVISED SCHEME OF
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Drawing title

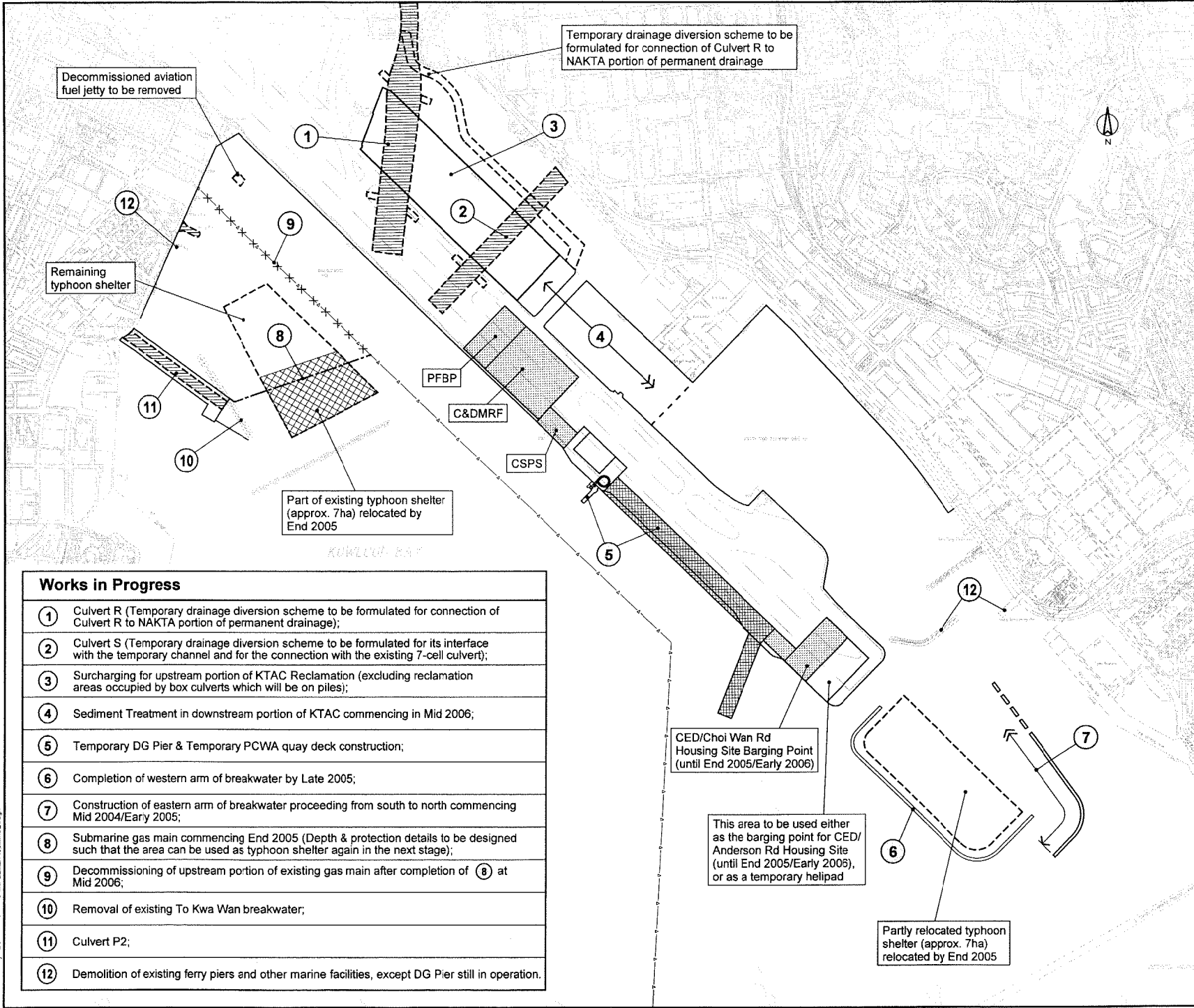
**IMPLEMENTATION SEQUENCE
 (RECLAMATION-RELATED ACTI/ITIES)
 LATE 2003 TO MID 2005**

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Works in Progress	
①	Culvert R (Temporary drainage diversion scheme to be formulated for connection of Culvert R to NAKTA portion of permanent drainage);
②	Culvert S (Temporary drainage diversion scheme to be formulated for its interface with the temporary channel and for the connection with the existing 7-cell culvert);
③	Surcharging for upstream portion of KTAC Reclamation (excluding reclamation areas occupied by box culverts which will be on piles);
④	Sediment Treatment in downstream portion of KTAC commencing in Mid 2006;
⑤	Temporary DG Pier & Temporary PCWA quay deck construction;
⑥	Completion of western arm of breakwater by Late 2005;
⑦	Construction of eastern arm of breakwater proceeding from south to north commencing Mid 2004/Early 2005;
⑧	Submarine gas main commencing End 2005 (Depth & protection details to be designed such that the area can be used as typhoon shelter again in the next stage);
⑨	Decommissioning of upstream portion of existing gas main after completion of ⑧ at Mid 2006;
⑩	Removal of existing To Kwa Wan breakwater;
⑪	Culvert P2;
⑫	Demolition of existing ferry piers and other marine facilities, except DG Pier still in operation.

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A	2ND ISSUE	CL	03/01
Rev	Description	By	Date

Consultants
ARUP One Arup & Partners Hong Kong Limited
 Mott MacDonald Limited
 Au Poon Consultants Limited
 Montgomery Watson Hong Kong Limited
 WSPAR Limited
 ACLA Limited
 Environmental Management Limited
 Rozco Design Limited

Project title
AGREEMENT NO. CE 32/99
COMPREHENSIVE FEASIBILITY STUDY
FOR THE REVISED SCHEME OF
SOUTH EAST KOWLOON DEVELOPMENT

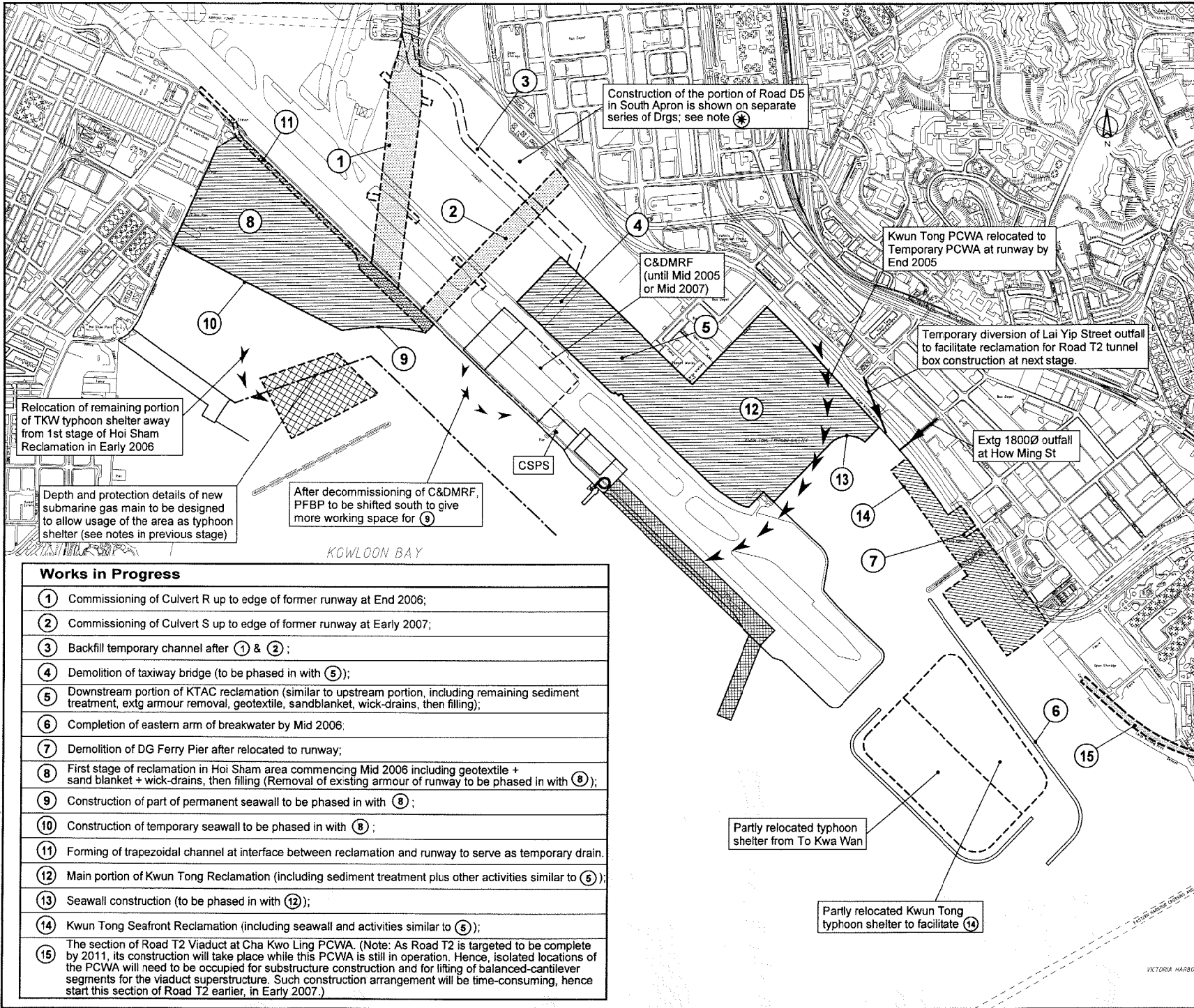
Drawing title
IMPLEMENTATION SEQUENCE
(RECLAMATION-RELATED ACTIVITIES)
MID 2005 TO MID 2006

Drawing no.	22936/IM/621		Rev.	B
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Scale	1:1200	Status	PRELIMINARY	

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See separate series of construction sequence drawings for land works in Hoi Sham & Runway Areas



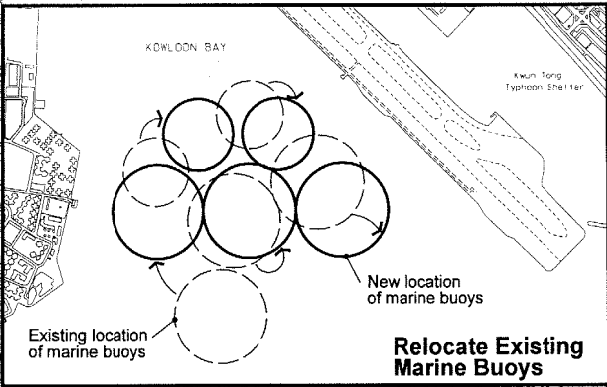
Works in Progress	
①	Commissioning of Culvert R up to edge of former runway at End 2006;
②	Commissioning of Culvert S up to edge of former runway at Early 2007;
③	Backfill temporary channel after ① & ②;
④	Demolition of taxiway bridge (to be phased in with ⑤);
⑤	Downstream portion of KTAC reclamation (similar to upstream portion, including remaining sediment treatment, extg armour removal, geotextile, sandblanket, wick-drains, then filling);
⑥	Completion of eastern arm of breakwater by Mid 2006.
⑦	Demolition of DG Ferry Pier after relocated to runway;
⑧	First stage of reclamation in Hoi Sham area commencing Mid 2006 including geotextile + sand blanket + wick-drains, then filling (Removal of existing armour of runway to be phased in with ⑧);
⑨	Construction of part of permanent seawall to be phased in with ⑧;
⑩	Construction of temporary seawall to be phased in with ⑧;
⑪	Forming of trapezoidal channel at interface between reclamation and runway to serve as temporary drain.
⑫	Main portion of Kwun Tong Reclamation (including sediment treatment plus other activities similar to ⑤);
⑬	Seawall construction (to be phased in with ⑫);
⑭	Kwun Tong Seafront Reclamation (including seawall and activities similar to ⑤);
⑮	The section of Road T2 Viaduct at Cha Kwo Ling PCWA. (Note: As Road T2 is targeted to be complete by 2011, its construction will take place while this PCWA is still in operation. Hence, isolated locations of the PCWA will need to be occupied for substructure construction and for lifting of balanced-cantilever segments for the viaduct superstructure. Such construction arrangement will be time-consuming, hence start this section of Road T2 earlier, in Early 2007.)

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Consultants			
ARUP One Anap & Partners Hong Kong Limited			
Murray Herman Limited	ACIA Limited		
Ay Poonford Consultants Limited	Environmental Management Limited		
Montgomery Watson Hong Kong Limited	Rocco Design Limited		
Wabtec Limited			
Project Title			
AGREEMENT NO. CE 32/99 COMPREHENSIVE FEASIBILITY STUDY FOR THE REVISED SCHEME OF SOUTH EAST KOWLOON DEVELOPMENT			
Drawing Title			
IMPLEMENTATION SEQUENCE (RECLAMATION-RELATED ACTIVITIES) MID 2006 TO END 2007			
Drawing no.		Rev.	
22936/IM/622		B	
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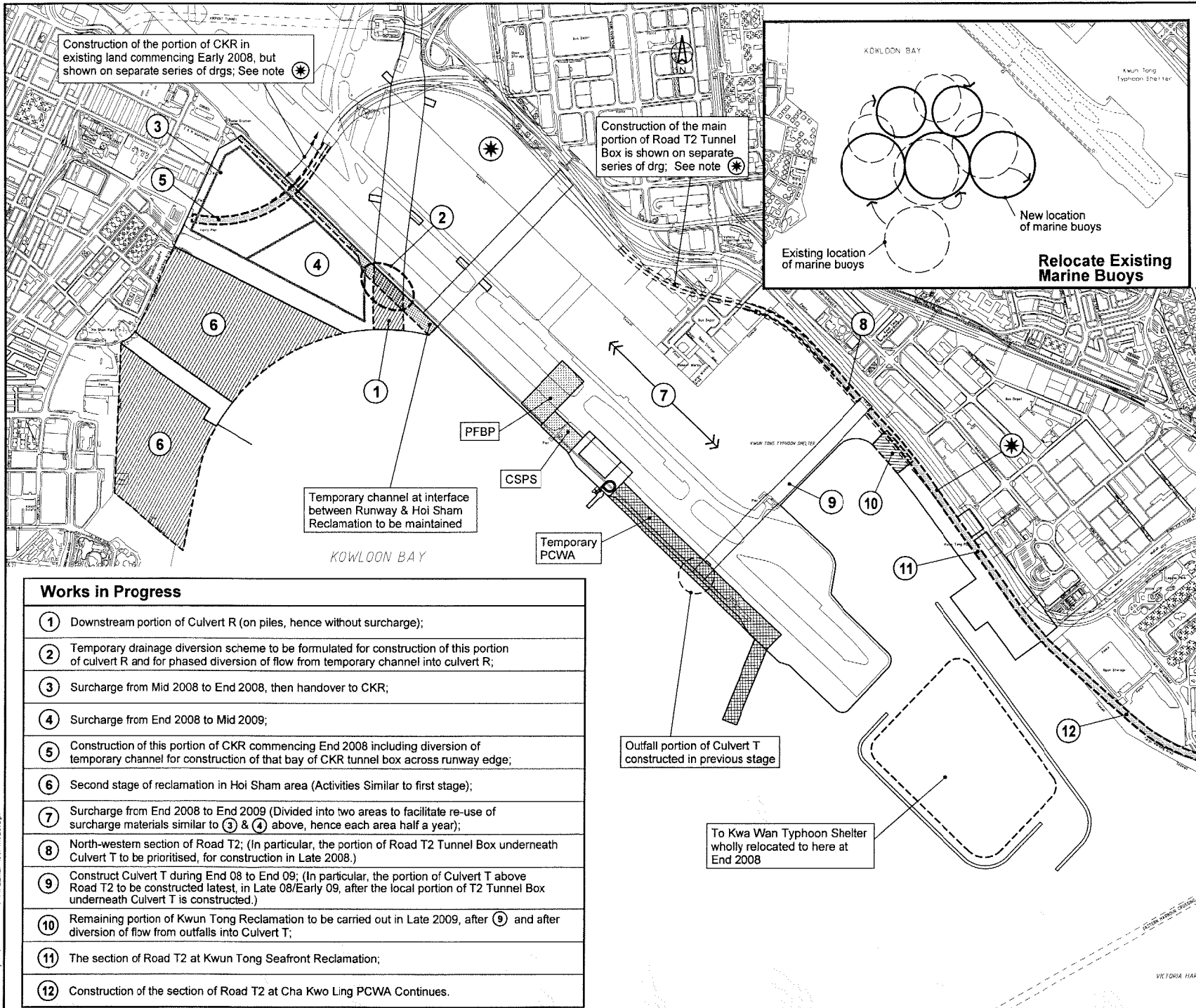
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Construction of the portion of CKR in existing land commencing Early 2008, but shown on separate series of drgs; See note *

Construction of the main portion of Road T2 Tunnel Box is shown on separate series of drg; See note *



* See separate series of construction sequence drawings for land works in Hoi Sham & Runway Areas



Temporary channel at interface between Runway & Hoi Sham Reclamation to be maintained

Outfall portion of Culvert T constructed in previous stage

To Kwa Wan Typhoon Shelter wholly relocated to here at End 2008

Works in Progress

- ① Downstream portion of Culvert R (on piles, hence without surcharge);
- ② Temporary drainage diversion scheme to be formulated for construction of this portion of culvert R and for phased diversion of flow from temporary channel into culvert R;
- ③ Surcharge from Mid 2008 to End 2008, then handover to CKR;
- ④ Surcharge from End 2008 to Mid 2009;
- ⑤ Construction of this portion of CKR commencing End 2008 including diversion of temporary channel for construction of that bay of CKR tunnel box across runway edge;
- ⑥ Second stage of reclamation in Hoi Sham area (Activities Similar to first stage);
- ⑦ Surcharge from End 2008 to End 2009 (Divided into two areas to facilitate re-use of surcharge materials similar to ③ & ④ above, hence each area half a year);
- ⑧ North-western section of Road T2; (In particular, the portion of Road T2 Tunnel Box underneath Culvert T to be prioritised, for construction in Late 2008.)
- ⑨ Construct Culvert T during End 08 to End 09; (In particular, the portion of Culvert T above Road T2 to be constructed latest, in Late 08/Early 09, after the local portion of T2 Tunnel Box underneath Culvert T is constructed.)
- ⑩ Remaining portion of Kwun Tong Reclamation to be carried out in Late 2009, after ⑨ and after diversion of flow from outfalls into Culvert T;
- ⑪ The section of Road T2 at Kwun Tong Seafront Reclamation;
- ⑫ Construction of the section of Road T2 at Cha Kwo Ling PCWA Continues.

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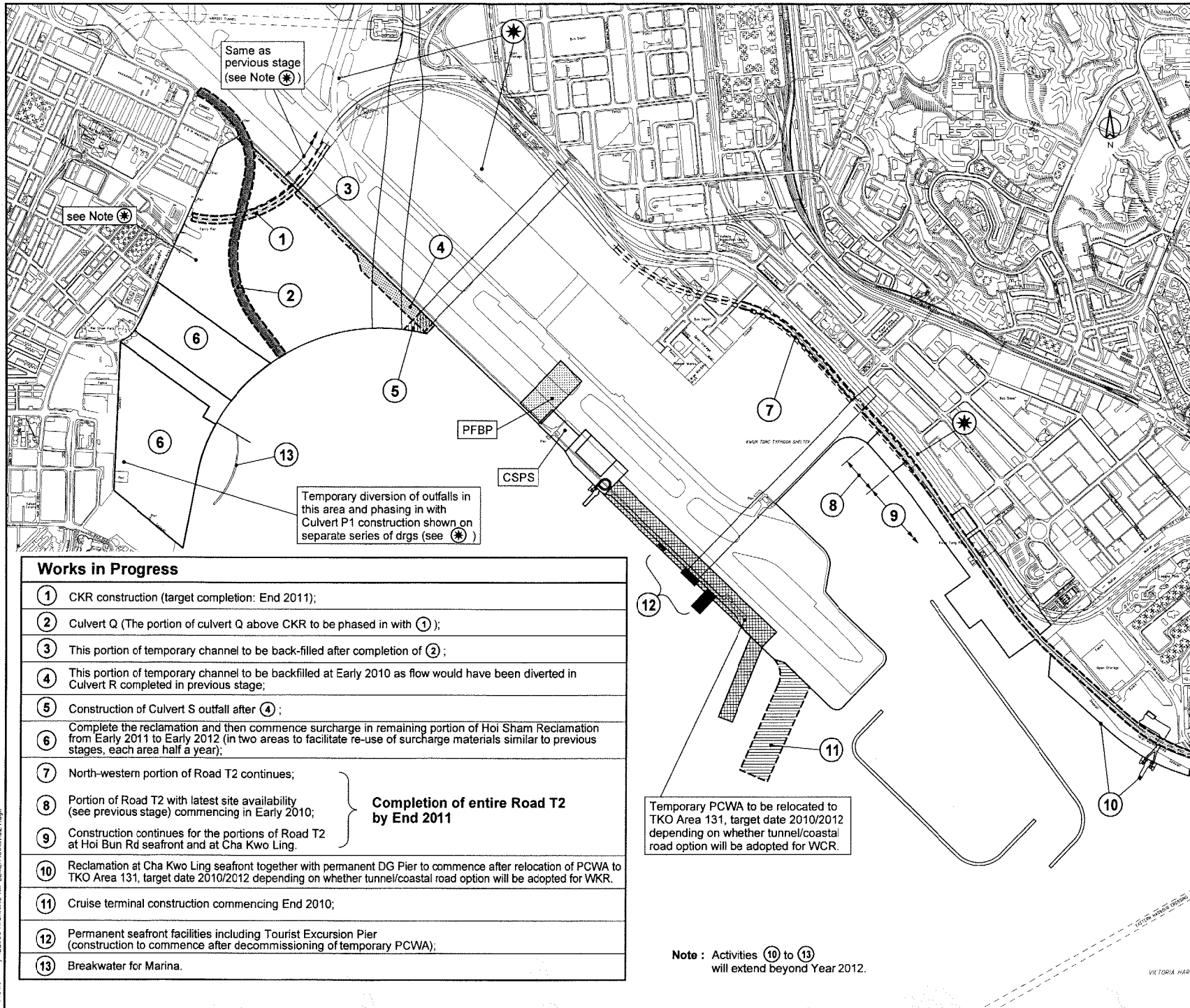
Consultants
ARUP Ove Arup & Partners Hong Kong Limited
 Murray Hanson Limited
 Au Pacific Consultants Limited
 Montgomery Watson Hong Kong Limited
 Hochtief Limited
 ACJA Limited
 Environmental Management Limited
 Rocco Design Limited

Project title
**AGREEMENT NO. CE 32/99
 COMPREHENSIVE FEASIBILITY STUDY
 FOR THE REVISED SCHEME OF
 SOUTH EAST KOWLOON DEVELOPMENT**

Drawing title
**IMPLEMENTATION SEQUENCE
 (RECLAMATION-RELATED ACTIVITIES)
 EARLY 2008 TO END 2009**

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See separate series of construction sequence drawings for land works in Hoi Sham & Runway Areas

Works in Progress

1	CKR construction (target completion: End 2011);
2	Culvert Q (The portion of culvert Q above CKR to be phased in with 1);
3	This portion of temporary channel to be back-filled after completion of 2;
4	This portion of temporary channel to be backfilled at Early 2010 as flow would have been diverted in Culvert R completed in previous stage;
5	Construction of Culvert S outfall after 4;
6	Complete the reclamation and then commence surcharge in remaining portion of Hoi Sham Reclamation from Early 2011 to Early 2012 (in two areas to facilitate re-use of surcharge materials similar to previous stages, each area half a year);
7	North-western portion of Road T2 continues;
8	Portion of Road T2 with latest site availability (see previous stage) commencing in Early 2010;
9	Construction continues for the portions of Road T2 at Hoi Bun Rd seafront and at Cha Kwo Ling.
10	Reclamation at Cha Kwo Ling seafront together with permanent DG Pier to commence after relocation of PCWA to TKO Area 131, target date 2010/2012 depending on whether tunnel/coastal road option will be adopted for WKR.
11	Cruise terminal construction commencing End 2010;
12	Permanent seafront facilities including Tourist Excursion Pier (construction to commence after decommissioning of temporary PCWA);
13	Breakwater for Marina.

Completion of entire Road T2 by End 2011

Temporary PCWA to be relocated to TKO Area 131, target date 2010/2012 depending on whether tunnel/coastal road option will be adopted for WCR.

Note : Activities 10 to 13 will extend beyond Year 2012.

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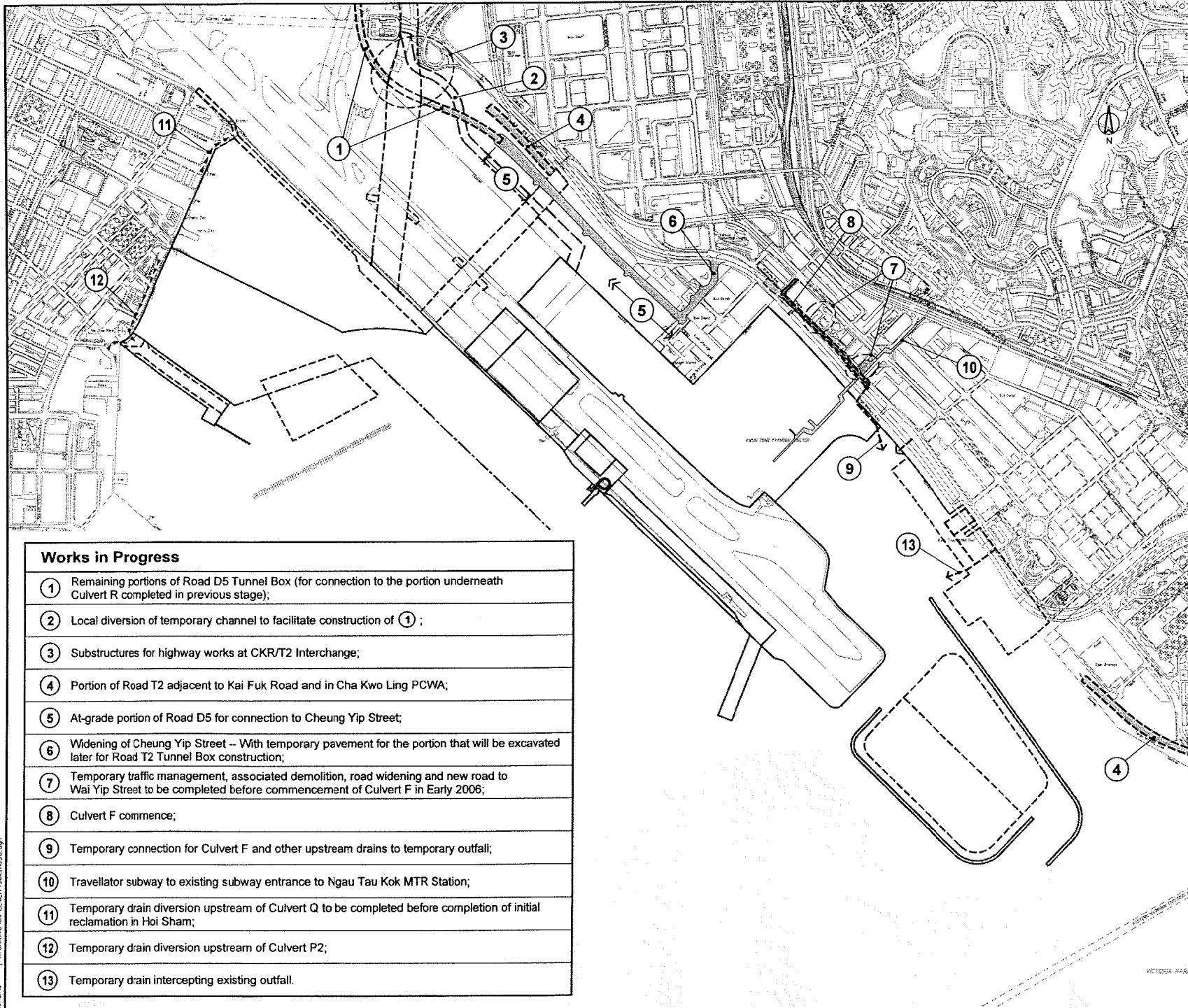
Consultants
ARUP One Arup & Partners Hong Kong Limited
 Murray Harmon Limited ACLA Limited
 Au Pong Chiu Consultants Limited Environmental Management Limited
 Montgomery Watson Hong Kong Limited Pooze Design Limited
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Drawing title
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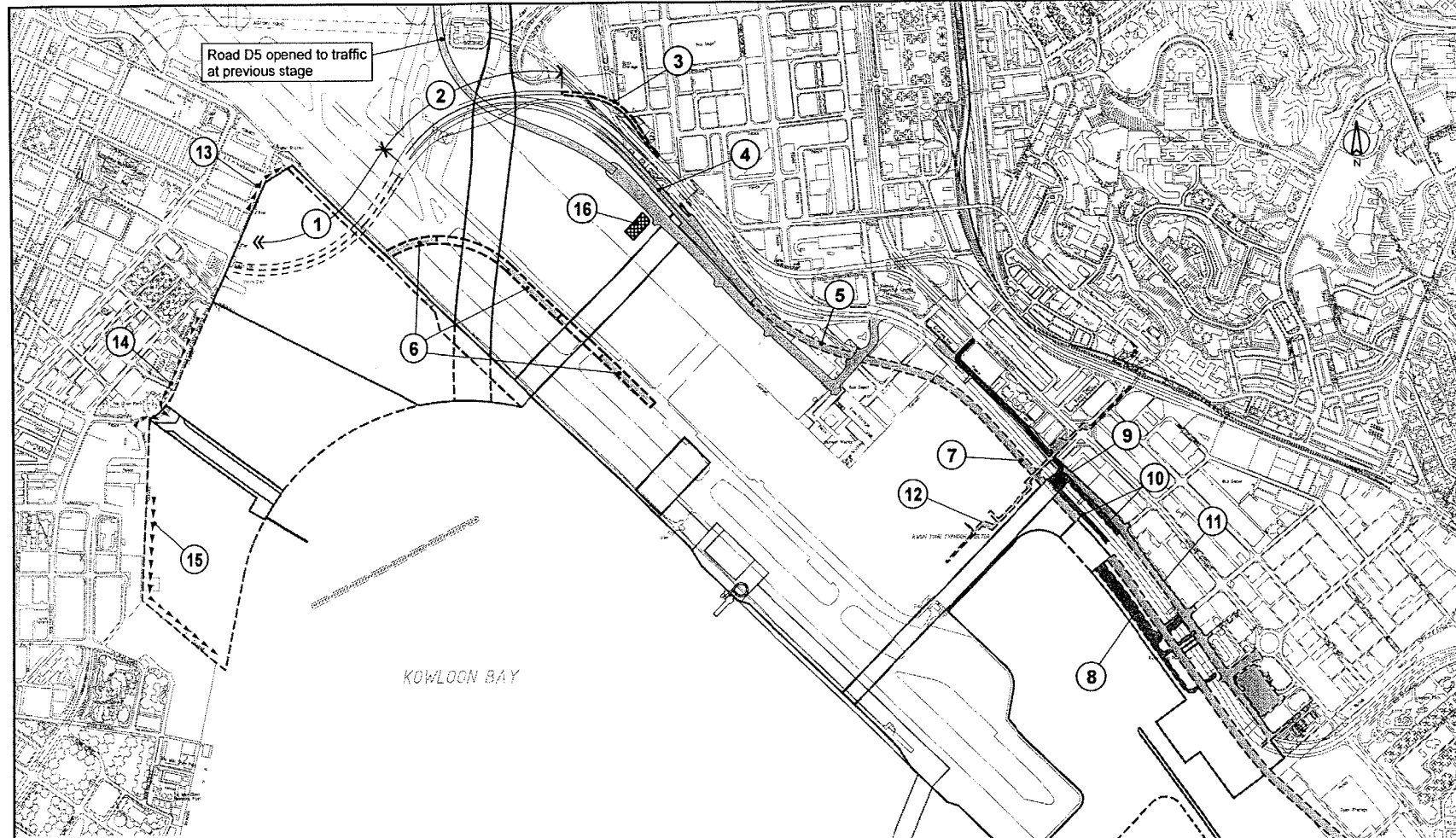
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Works in Progress

- ① Remaining portions of Road D5 Tunnel Box (for connection to the portion underneath Culvert R completed in previous stage);
- ② Local diversion of temporary channel to facilitate construction of ① ;
- ③ Substructures for highway works at CKR/T2 Interchange;
- ④ Portion of Road T2 adjacent to Kai Fuk Road and in Cha Kwo Ling PCWA;
- ⑤ At-grade portion of Road D5 for connection to Cheung Yip Street;
- ⑥ Widening of Cheung Yip Street -- With temporary pavement for the portion that will be excavated later for Road T2 Tunnel Box construction;
- ⑦ Temporary traffic management, associated demolition, road widening and new road to Wai Yip Street to be completed before commencement of Culvert F in Early 2006;
- ⑧ Culvert F commence;
- ⑨ Temporary connection for Culvert F and other upstream drains to temporary outfall;
- ⑩ Travellator subway to existing subway entrance to Ngau Tau Kok MTR Station;
- ⑪ Temporary drain diversion upstream of Culvert Q to be completed before completion of initial reclamation in Hoi Sham;
- ⑫ Temporary drain diversion upstream of Culvert P2;
- ⑬ Temporary drain intercepting existing outfall.

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Consultants				
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Au Poon & Partners Limited		Environmental Management Limited		
Mongkorn Waiwan Hong Kong Limited		Rocco Design Limited		
Wehrli Limited				
Project title				
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Drawing title				
IMPLEMENTATION SEQUENCE (POST-RECLAMATION WORKS IN HOI SHAM & RUNWAY AREAS) EARLY 2006 TO END 2007				
Drawing no.				Rev.
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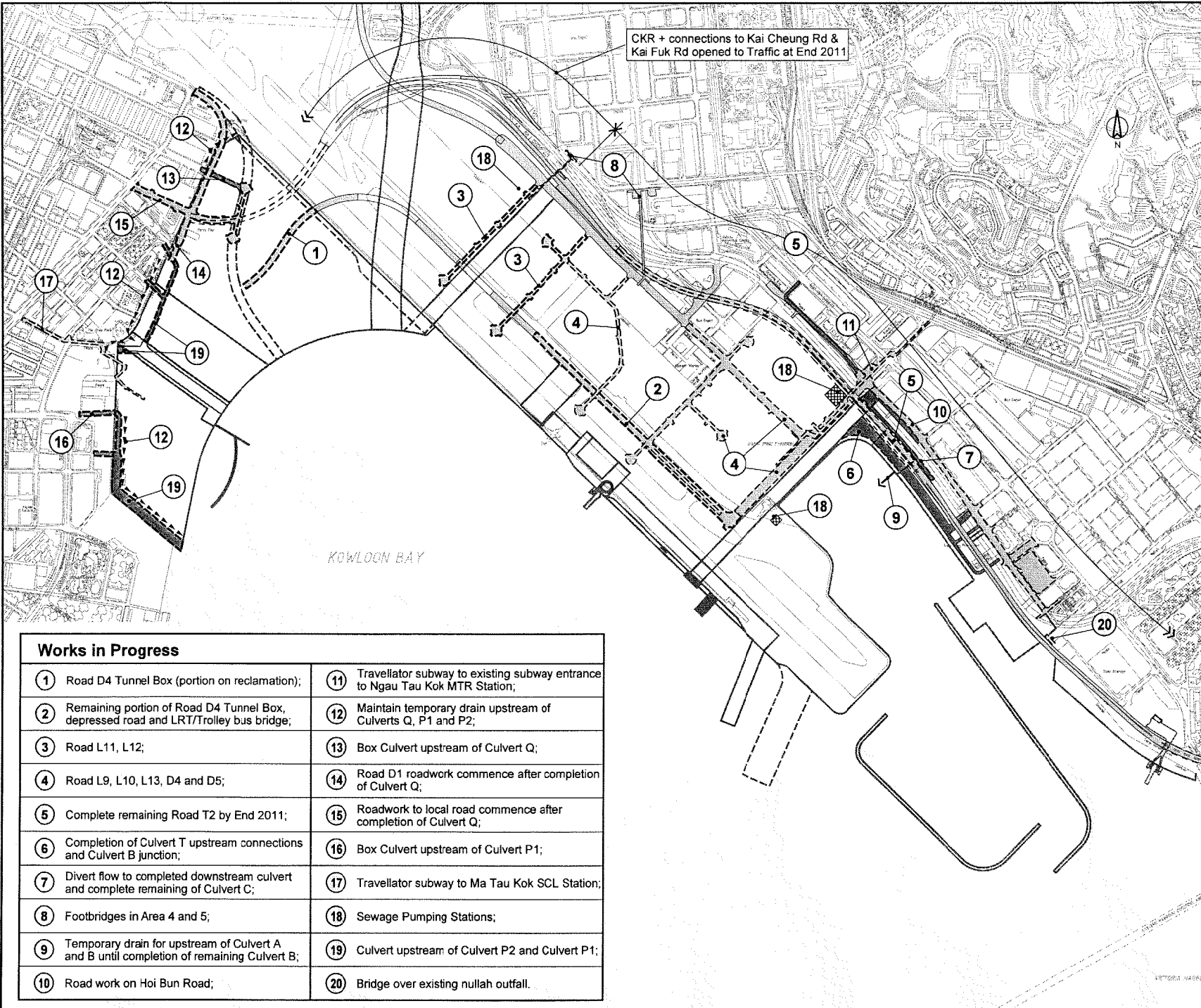
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Works in Progress

① Main Portion of CKR;	⑨ Complete Culvert F connection
② Superstructure for highway works at CKR/T2 Interchange;	⑩ Culverts C and D commence;
③ Ramp B underpass;	⑪ Road work on Hoi Bun Road;
④ At grade portion of Road T2 continues;	⑫ Travellator subway to existing subway entrance to Nga Tau Kok MTR Station;
⑤ Road T2 construction proceed in entirety except the portion under reclamation;	⑬ Maintain temporary diversion upstream of Culvert Q;
⑥ Road D4 Tunnel Box for connection to the two advance portions (constructed underneath Culvert R & Culvert S in earlier stages);	⑭ Maintain temporary diversion upstream of Culvert P2;
⑦ T2 tunnel box under Culvert T & Travellator Subway;	⑮ Temporary diversion upstream of Culvert P1 by forming temporary channel during reclamation;
⑧ Upstream portion of Culvert B and part of Culvert A;	⑯ Sewage Pumping Station.

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CKR + connections to Kai Cheung Rd & Kai Fuk Rd opened to Traffic at End 2011



KOWLOON BAY

VICTORIA HARBOUR

Works in Progress

① Road D4 Tunnel Box (portion on reclamation);	⑪ Travellator subway to existing subway entrance to Ngau Tau Kok MTR Station;
② Remaining portion of Road D4 Tunnel Box, depressed road and LRT/Trolley bus bridge;	⑫ Maintain temporary drain upstream of Culverts Q, P1 and P2;
③ Road L11, L12;	⑬ Box Culvert upstream of Culvert Q;
④ Road L9, L10, L13, D4 and D5;	⑭ Road D1 roadwork commence after completion of Culvert Q;
⑤ Complete remaining Road T2 by End 2011;	⑮ Roadwork to local road commence after completion of Culvert Q;
⑥ Completion of Culvert T upstream connections and Culvert B junction;	⑯ Box Culvert upstream of Culvert P1;
⑦ Divert flow to completed downstream culvert and complete remaining of Culvert C;	⑰ Travellator subway to Ma Tau Kok SCL Station;
⑧ Footbridges in Area 4 and 5;	⑱ Sewage Pumping Stations;
⑨ Temporary drain for upstream of Culvert A and B until completion of remaining Culvert B;	⑲ Culvert upstream of Culvert P2 and Culvert P1;
⑩ Road work on Hoi Bun Road;	⑳ Bridge over existing nullah outfall.

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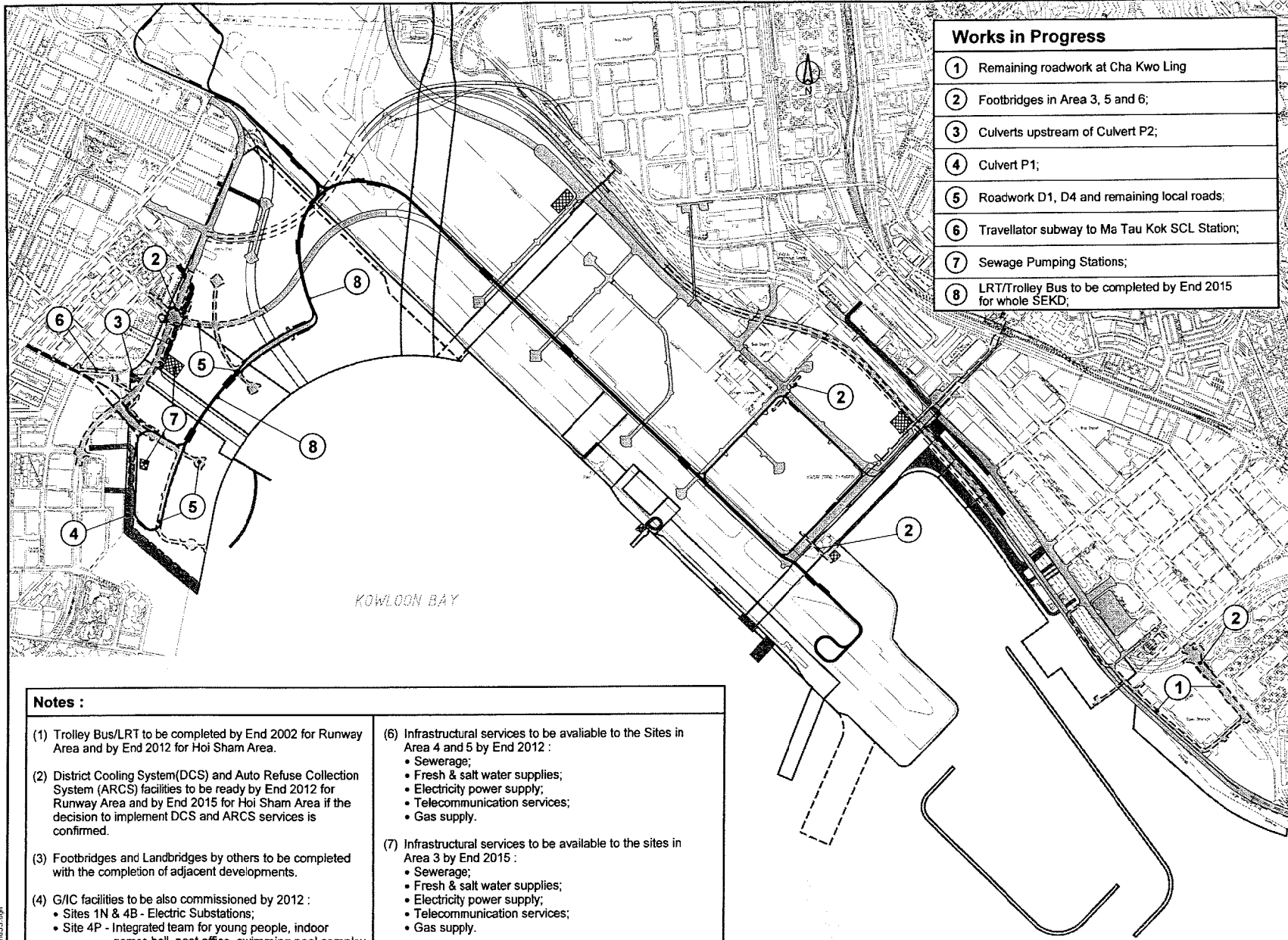
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Works in Progress

- ① Remaining roadwork at Cha Kwo Ling
- ② Footbridges in Area 3, 5 and 6;
- ③ Culverts upstream of Culvert P2;
- ④ Culvert P1;
- ⑤ Roadwork D1, D4 and remaining local roads;
- ⑥ Travellator subway to Ma Tau Kok SCL Station;
- ⑦ Sewage Pumping Stations;
- ⑧ LRT/Trolley Bus to be completed by End 2015 for whole SEKD;



Notes :

- | | |
|--|--|
| <p>(1) Trolley Bus/LRT to be completed by End 2002 for Runway Area and by End 2012 for Hoi Sham Area.</p> <p>(2) District Cooling System(DCS) and Auto Refuse Collection System (ARCS) facilities to be ready by End 2012 for Runway Area and by End 2015 for Hoi Sham Area if the decision to implement DCS and ARCS services is confirmed.</p> <p>(3) Footbridges and Landbridges by others to be completed with the completion of adjacent developments.</p> <p>(4) G/IC facilities to be also commissioned by 2012 :
 <ul style="list-style-type: none"> • Sites 1N & 4B - Electric Substations; • Site 4P - Integrated team for young people, indoor games hall, post office, swimming pool complex, general clinic, poly clinic, market and refuse collection point. </p> <p>(5) G/IC facilities to be also commissioned by End 2015:
 <ul style="list-style-type: none"> • Site 3N - Indoor recreation centre, general clinic, integrated team for young people, post office, market and refuse collection point. • Site 3X - Electric substation. </p> | <p>(6) Infrastructural services to be available to the Sites in Area 4 and 5 by End 2012 :
 <ul style="list-style-type: none"> • Sewerage; • Fresh & salt water supplies; • Electricity power supply; • Telecommunication services; • Gas supply. </p> <p>(7) Infrastructural services to be available to the sites in Area 3 by End 2015 :
 <ul style="list-style-type: none"> • Sewerage; • Fresh & salt water supplies; • Electricity power supply; • Telecommunication services; • Gas supply. </p> <p>(8) Pedestrian linkage from Runway Area to hinterland areas :
 <ul style="list-style-type: none"> • Footbridges FB17 & 18; • Travellator Subway to Ngau Tau Kok MTR Station; • At-grade pedestrian crossings. </p> <p>(9) Pedestrian linkage from Hoi Sham to hinterland areas :
 <ul style="list-style-type: none"> • Travellator subway to Ma Tau Wai Station; • Landscaped elevated walkway; • At-grade pedestrian crossings. </p> |
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Consultants	
ARUP	Ove Arup & Partners Hong Kong Limited
Murray/Herron Limited	AGLA Limited
Au Pottford Consultants Limited	Environmental Management Limited
Montgomery Watson Hong Kong Limited	Rocco Design Limited
Wahad Limited	

Project Title
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