

Based on CED Port Works Division
Drawing No. P 20206-1A

Dimensions in metres



GENERAL LAYOUT OF PROPOSED WORKS

AGREEMENT No. CE 41/98
ENVIRONMENTAL AND DRAINAGE
IMPACT ASSESSMENT FOR
TAI O SHELTERED BOAT ANCHORAGE

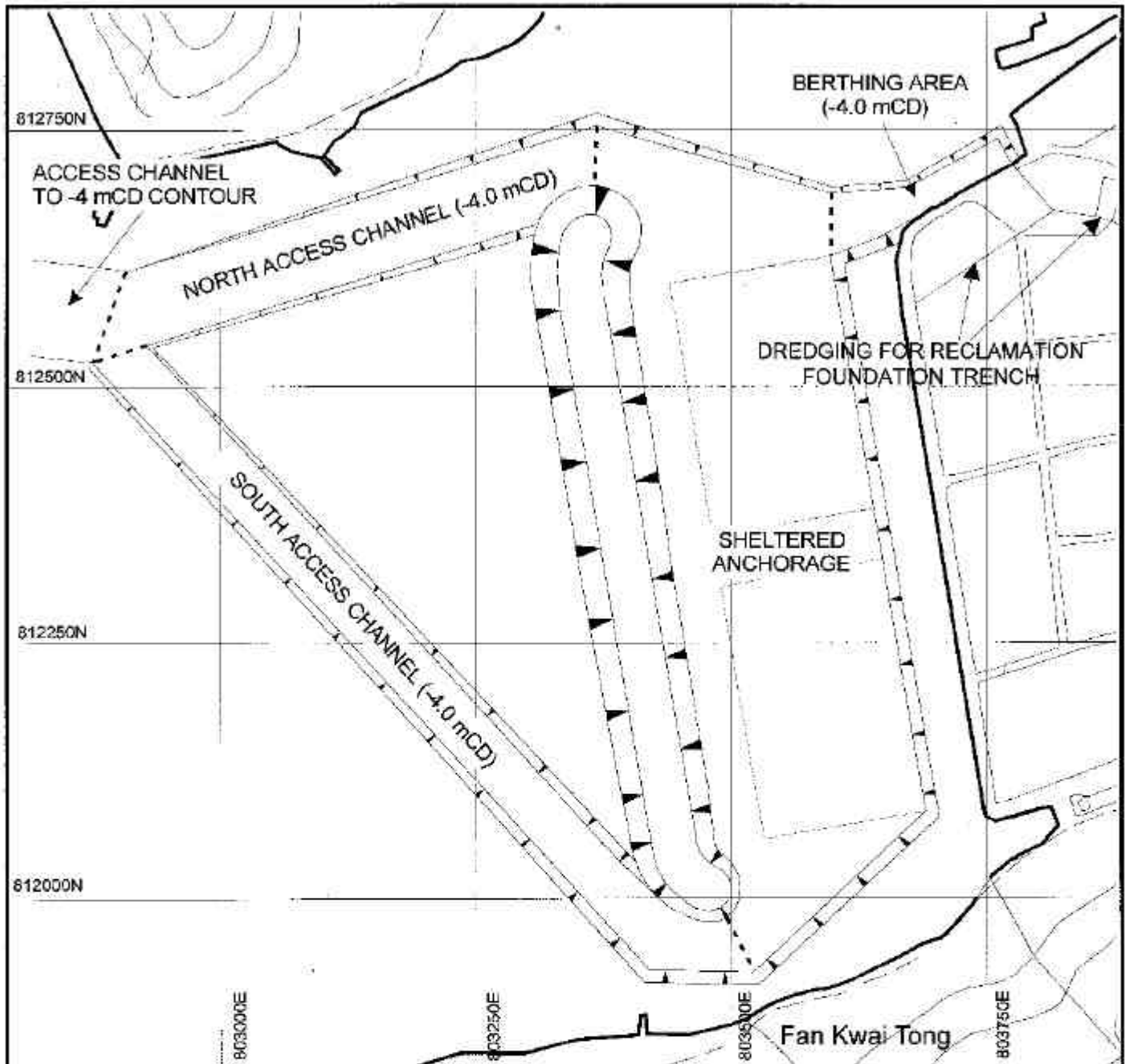
Figure No.	2.1	
Scale	N.T.S.	
Drawn JML	Approved	Revised
Checked JML	Date	Date



**RECOMMENDED MANGROVE
LAYOUT PLAN**

AGREEMENT No. CE 41/98
ENVIRONMENTAL AND DRAINAGE
IMPACT ASSESSMENT FOR
TAI O SHELTERED BOAT ANCHORAGE

Figure No.	2.2	
Scale	N.T.S.	
Drawn JML	Approved	Revised
Checked JML	Date	Date



ESTIMATED DREDGING VOLUMES (CUBIC METRES):

- NORTHERN ACCESS CHANNEL: 65,000
- SOUTHERN ACCESS CHANNEL: 156,000
- SEAWARD EXTENSION OF COMBINED ACCESS CHANNELS TO -4mCD: 25,000
- ANCHORAGE AREA: 666,000
- BERTHING AREA ADJACENT TO RECLAMATION: 33,000
- BREAKWATER TRENCH: 850,000
- FOUNDATION TRENCH FOR RECLAMATION AREAS: 250,000

Volumes derived from analysis of digital data contained in EGS (Asia) Ltd report on geophysical survey undertaken for Geotechnical Engineering Office under Contract No. GE/97/12, Works Order No. GE97.12.27




PRELIMINARY DREDGING LAYOUT

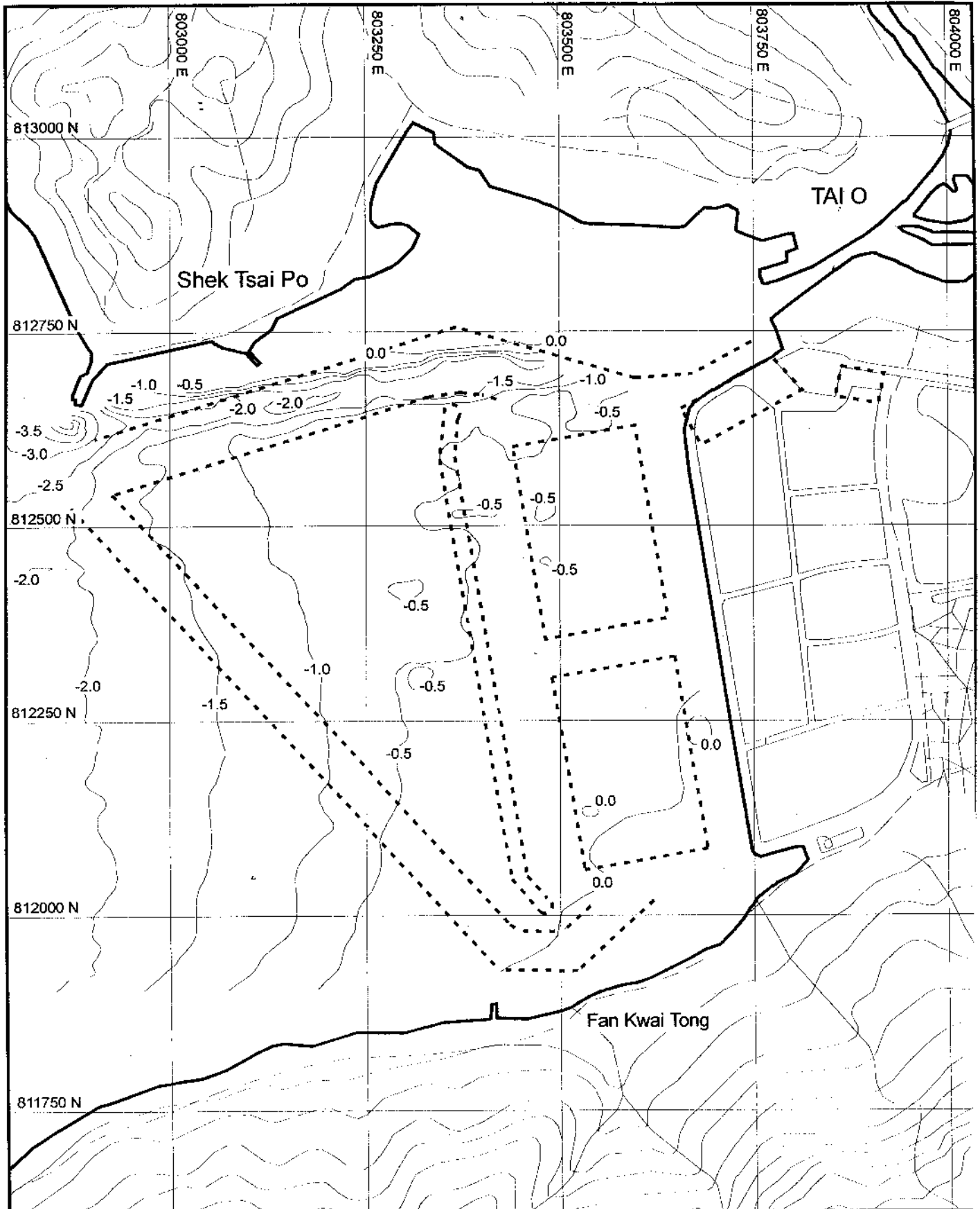
AGREEMENT No. CE 41/98
 ENVIRONMENTAL AND DRAINAGE
 IMPACT ASSESSMENT FOR
 TAI O SHELTERED BOAT ANCHORAGE

Figure No. 2.3

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Drawn	Approved	Revised
JML		
Checked	Date	Date
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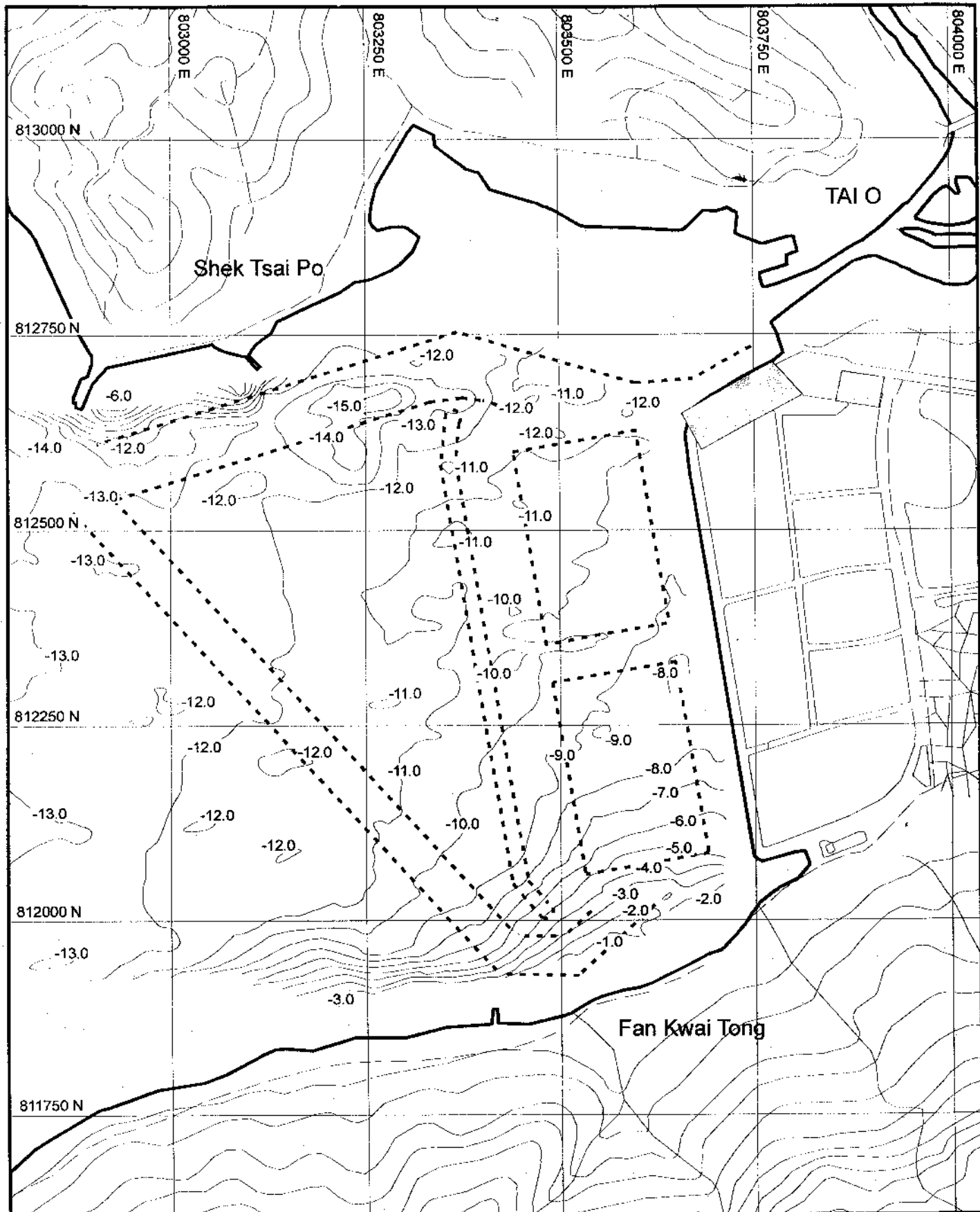
	EXISTING LEVELS IN SALT PANS		Figure No.	2.4	
	AGREEMENT No. CE 41/98 ENVIRONMENTAL AND DRAINAGE IMPACT ASSESSMENT FOR TAI O SHELTERED BOAT ANCHORAGE		Scale	N.T.S.	
			Drawn	Approved	Revised
			JML		
			Checked	Date	Date
			JML		



SITE BATHYMETRY

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 ENVIRONMENTAL AND DRAINAGE
 IMPACT ASSESSMENT FOR
 TAI O SHELTERED BOAT ANCHORAGE

Figure No.	2.5		
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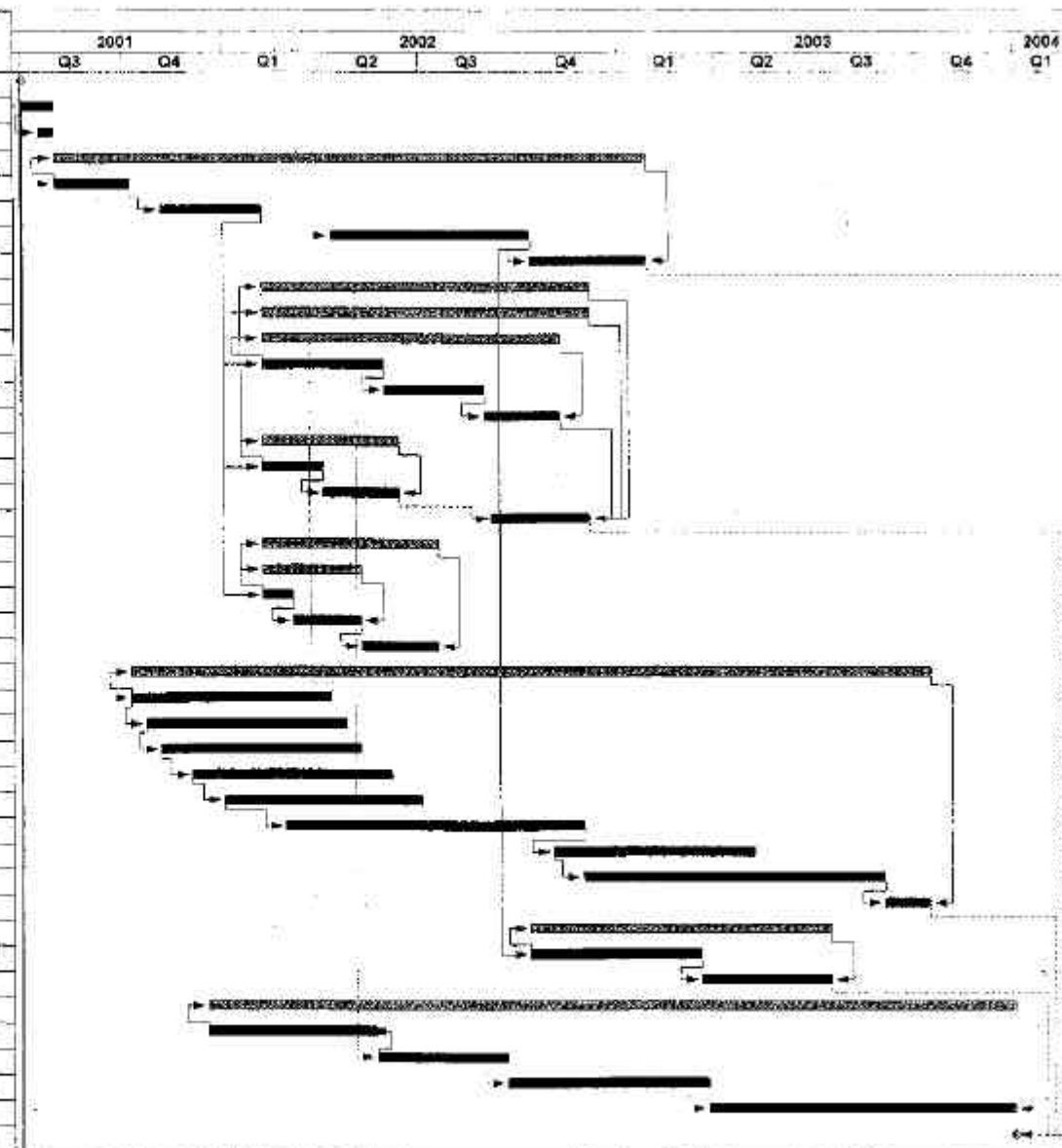


**LEVEL OF BASE OF
MARINE DEPOSITS**

AGREEMENT No. CE 41/98
ENVIRONMENTAL AND DRAINAGE
IMPACT ASSESSMENT FOR
TAI O SHELTERED BOAT ANCHORAGE

Figure No.	2.6	
Scale	N.T.S.	
Drawn JML	Approved	Revised
Checked JML	Date	Date

Act ID	Description	Original Duration	Early Start	Early Finish
1000	Commencement of Construction	0	02JUL01	
1010	Mobilization of Plant	4w	02JUL01	30JUL01
1020	General Site Clearance	2w	17JUL01	30JUL01
2000	Dredging Works	77w *	31JUL01	27JAN03
2010	Dredging for North Channel	10w	31JUL01	09OCT01
2020	Dredging for Berthing Area	13w	06NOV01	06FEB02
2030	Dredging for Sheltered Anchorage	29w	11APR02	10OCT02
2040	Dredging for South Channel	15w	11OCT02	27JAN03
3000	Reclamation Works	43w *	07FEB02	05DEC02
3100	Western Area (Larger One)	43w *	07FEB02	05DEC02
3110	Vertical Seawall for Berthing	39w *	07FEB02	07NOV02
3111	Piling/Other Works for Seawall Foundation	16w	07FEB02	29MAY02
3112	Place Rockfill and Concrete Blocks	13w	30MAY02	29AUG02
3113	Install Fendering System	10w	30AUG02	07NOV02
3120	Pitched Slope Seawall	18w *	07FEB02	12JUN02
3121	Dredge Seawall Trench	8w	07FEB02	03APR02
3122	Place Rockfill	10w	04APR02	12JUN02
3130	Sand Filling and Other Associated Servicing	13w	06SEP02	05DEC02
3200	Eastern Area (Smaller One)	23w *	07FEB02	16JUL02
3210	Pitched Slope Seawall	13w *	07FEB02	08MAY02
3211	Dredge Seawall Trench	4w	07FEB02	06MAR02
3212	Place Rockfill	9w	07MAR02	08MAY02
3220	Sand Filling and Other Associated Servicing	10w	09MAY02	19JUL02
4000	Breakwater Construction (Drained Option)	104w *	06OCT01	14OCT03
4010	Dredge Foundation Trench	26w	06OCT01	10APR02
4020	Place Geotextile	26w	23OCT01	24APR02
4030	Place Sand Blanket	26w	06NOV01	08MAY02
4040	Install Prefabricated Band Drain	26w	04DEC01	06JUN02
4050	Form Surcharge (by Rockfill)	26w	03JAN02	03JUL02
4060	Consolidation Period	39w	28FEB02	28NOV02
4070	Remove Surcharge	26w	01NOV02	05MAY03
4090	Place Rockfill and Armour Rock	39w	29NOV02	02SEP03
4090	Install Navigation Lights	6w	03SEP03	14OCT03
5000	Marker Dolphins (4 Nos.)	39w *	11OCT02	15JUL03
6010	Piling Works	22w	11OCT02	17MAR03
6020	Concrete Works	17w	18MAR03	15JUL03
6000	Engineering Works in Mangrove Planting Area	105w *	18DEC01	31DEC03
6010	Stabilization Works of Existing Dykes	22w	18DEC01	22MAY02
6020	Place Dredged Mud/Sand Mixture	17w	23MAY02	19SEP02
6030	Consolidation Period of Mud/Sand Mixture	26w	20SEP02	24MAR03
6040	Other Associated Engineering Works	40w	25MAR03	31DEC03
7000	Completion of Construction	0		31DEC03

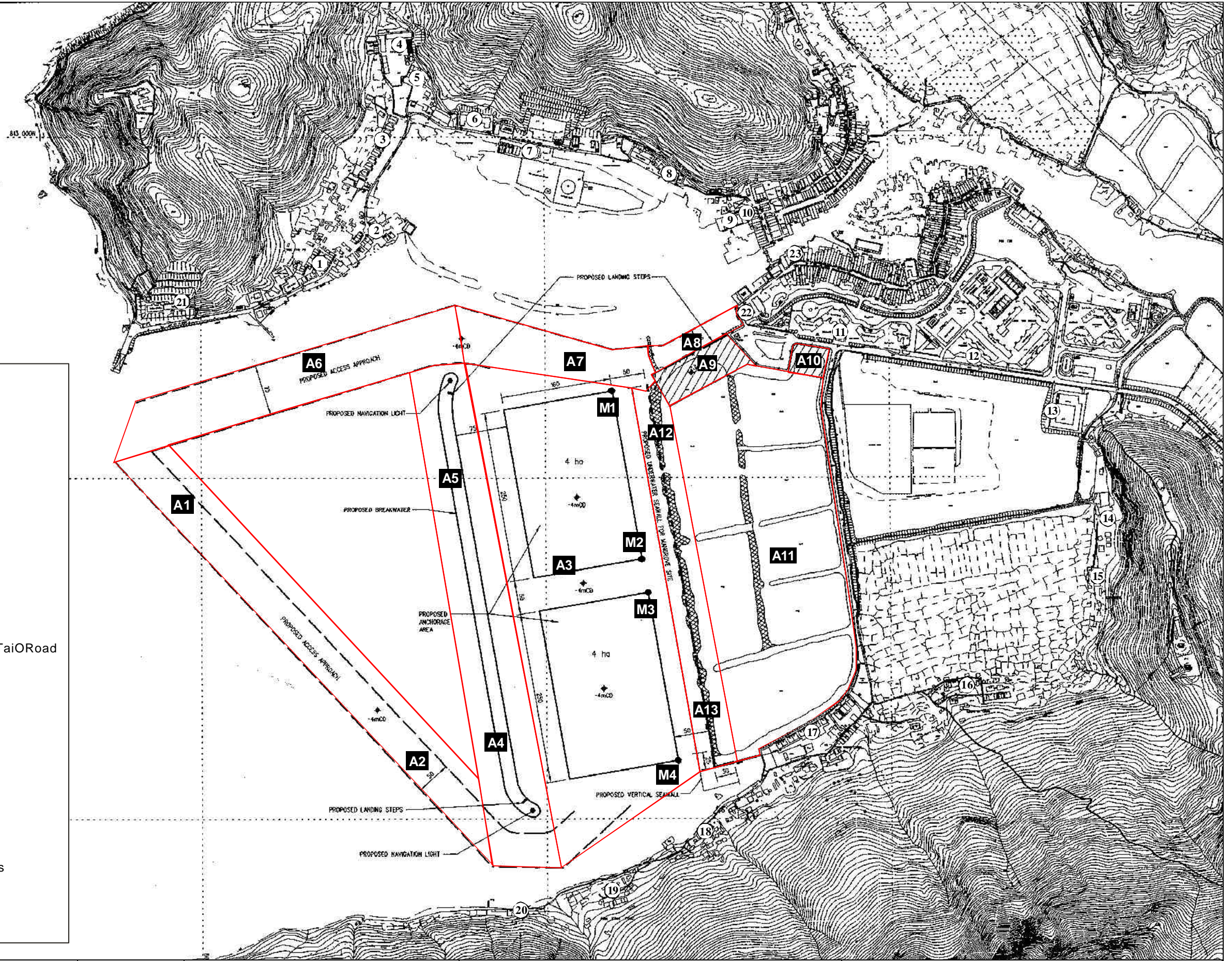


Start date 01JUL01
Finish date 31DEC03
Data date 01JUL01
Run date 23MAR03
Page number 1A
Primavera Systems, Inc.

PWP Item No. 236CL
Tai O Development Package 4 Stage II
Sheltered Boat Anchorage - Construction Programme

Figure 2.7

- Early bar
- Progress bar
- Critical bar
- Summary bar
- Start milestone point
- Finish milestone point



Noise Sensitive Receivers

- * ① Village House in Shek Tsai Po
- ② Village House in Shek Tsai Po
- ③ Village House along Shek Tsai Po Street
- ④ School near Shek Tsai Po
- ⑤ Temple in Shek Tsai Po
- ⑥ Clinic
- ⑦ Community Centre
- ⑧ Village House
- * ⑨ School
- ⑩ Church
- * ⑪ Lung Tin Estate Phase 2 Area B
- ⑫ Lung Tin Estate Phase 1
- ⑬ Buddhist Fat Ho Members College near Tai O Road
- ⑭ Temple in San Tsuen
- ⑮ Chung Uk / San Tsuen
- ⑯ Leung Uk Tsuen
- * ⑰ Nam Chung Tsuen
- ⑱ Nam Chung
- ⑲ Fan Kwai Tong
- * ⑳ Village House
- ㉑ Police Quarters
- ㉒ Village House
- ㉓ Village Housing

* Proposed Baseline Noise Monitoring Locations

- A1** Proposed Work Sites
- M1** Marker Dolphins



土木工程署
Civil Engineering
Department
AGREEMENT NO. CE41/98
ENVIRONMENTAL AND DRAINAGE IMPACT
ASSESSMENT FOR A TAI O SHELTERED
BOAT ANCHORAGE

Figure No.
圖號

3.1

Drawn
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比例尺

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Checked
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Date
日期

Status
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Approved
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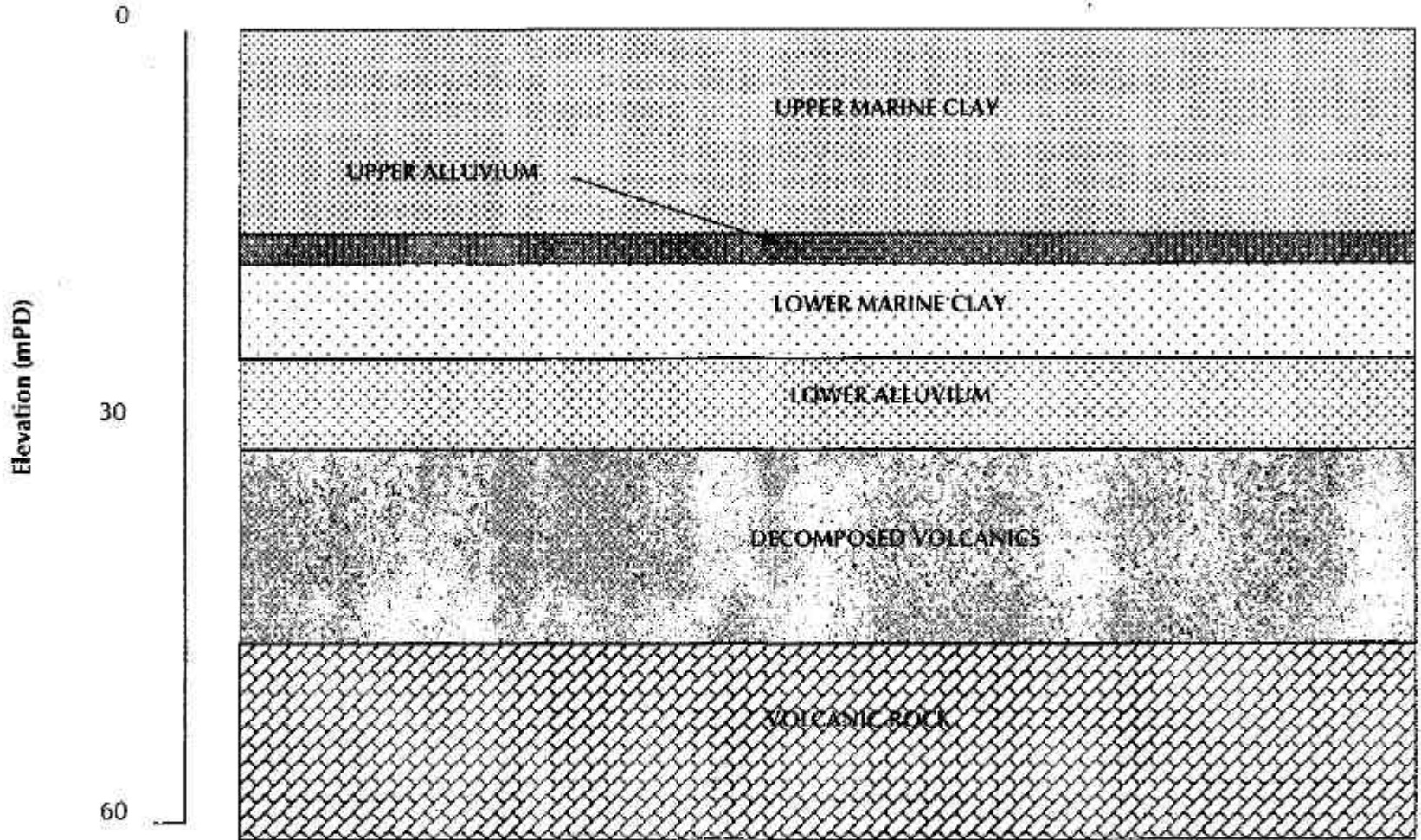
Date
日期

May 99

**Locations of
Noise Sensitive Receivers
and Proposed Work Sites**

Scott Wilson (Hong Kong) Ltd
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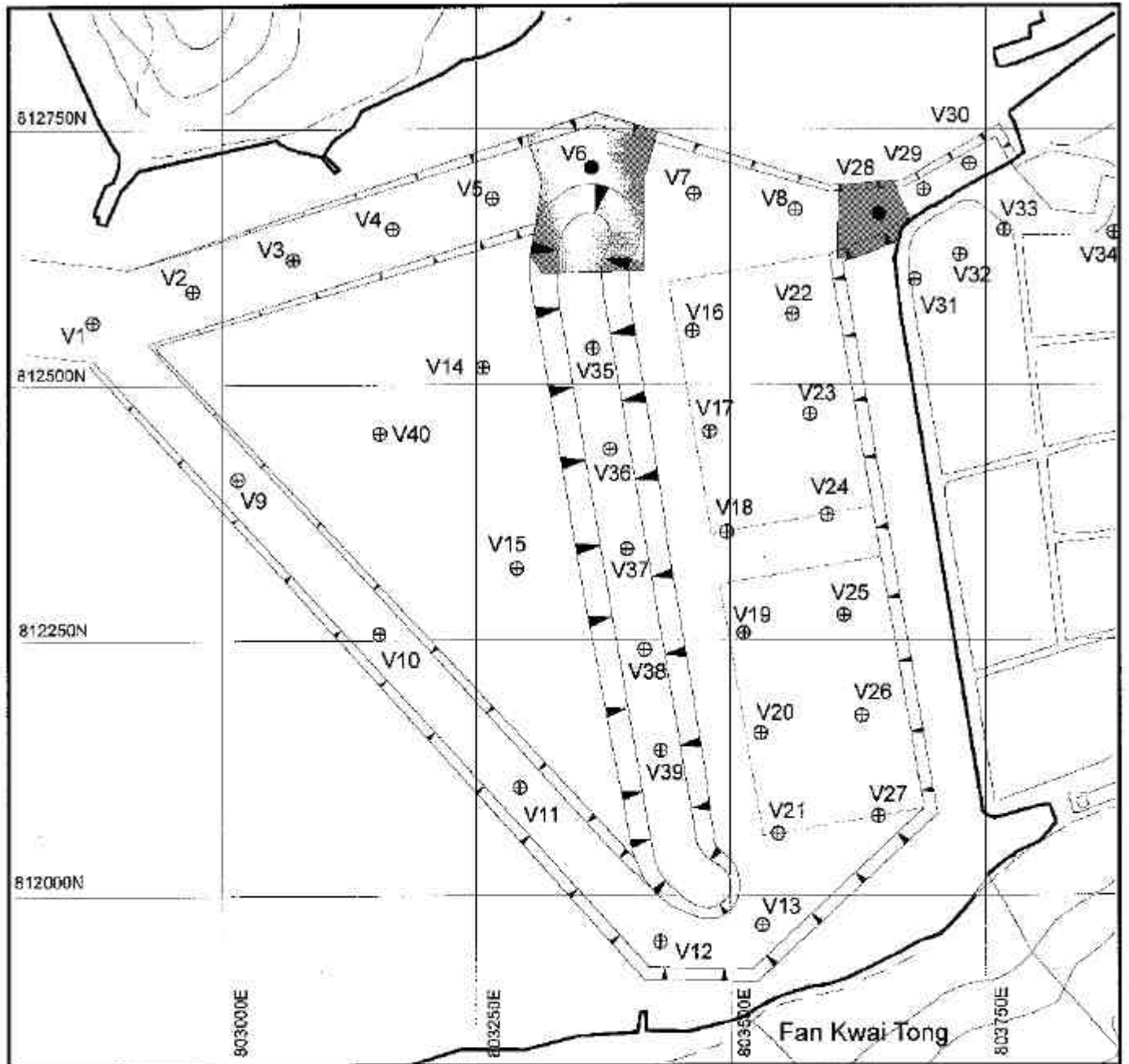


Typical Geological Profile in Tai O Bay

Figure	4.1		
Drawn	SRW	Checked	RJF
Scale	NTS	Date	11/98


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 偉信顧問(香港)有限公司





⊕ Vibrocore locations with no contaminated mud

● Vibrocore locations with contaminated mud

 Interpreted extent of contaminated mud in areas to be dredged



LOCATIONS OF CONTAMINATED SEDIMENTS

AGREEMENT No. CE 41/98
 ENVIRONMENTAL AND DRAINAGE
 IMPACT ASSESSMENT FOR
 TAI O SHELTERED BOAT ANCHORAGE

Figure No.

4.2

Scale

N.T.S.

Drawn

Approved Revised

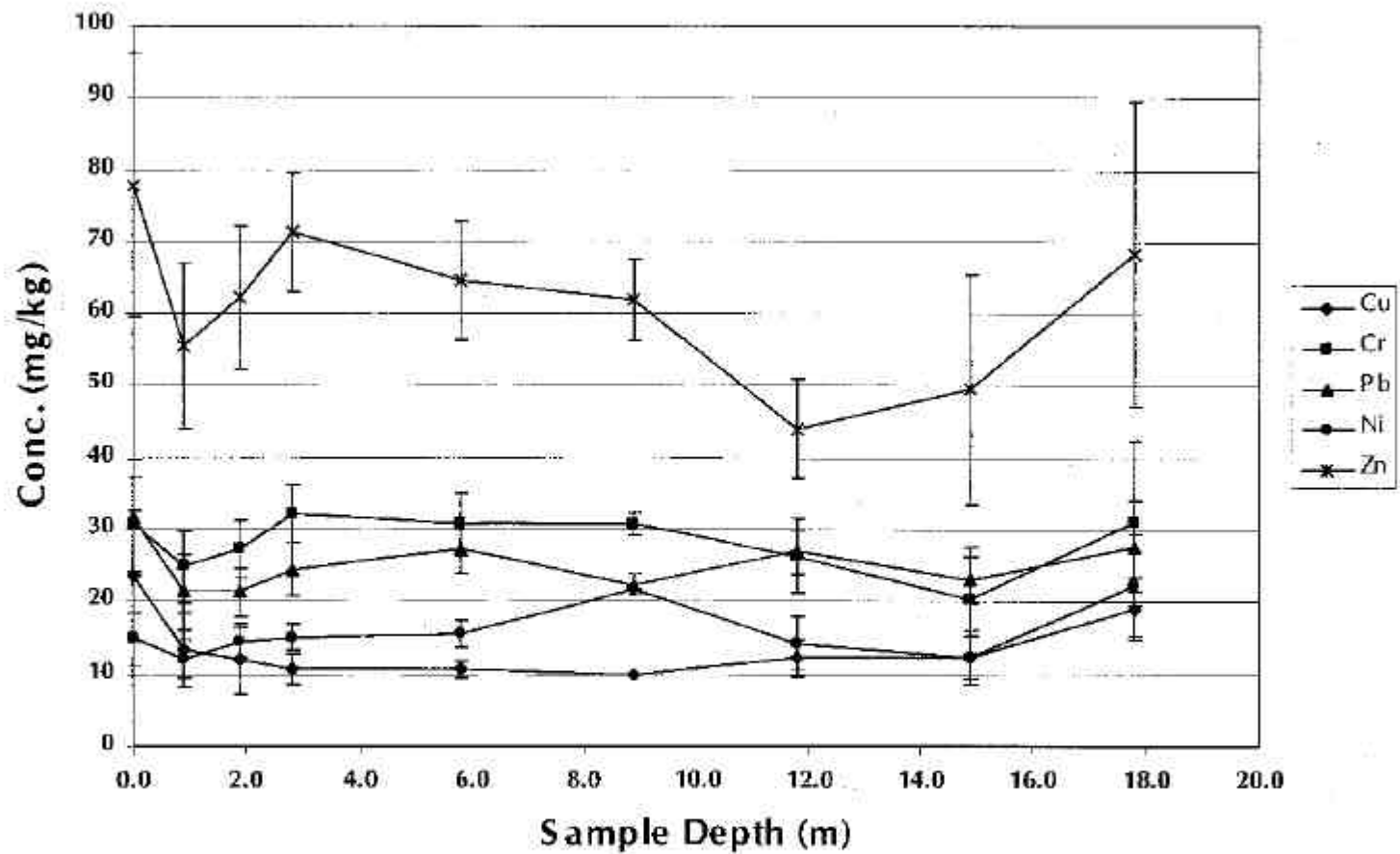
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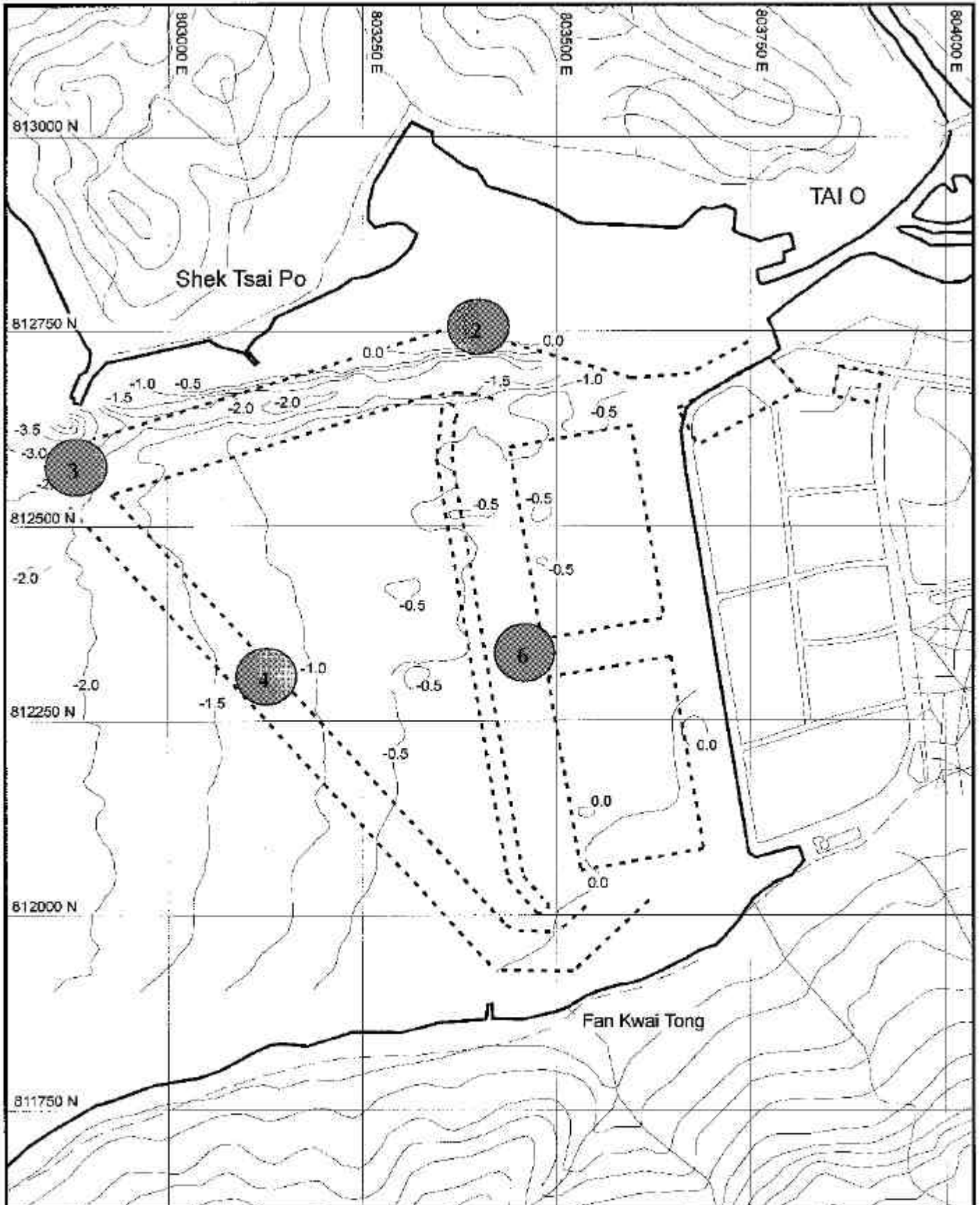


Average Metal Concentrations in Tai O Vibrocore Sediment Samples (mg/kg).

Figure	4.3		
Drawn	SRW	Checked	RJF
Scale	NTS	Status	Date
			11/98

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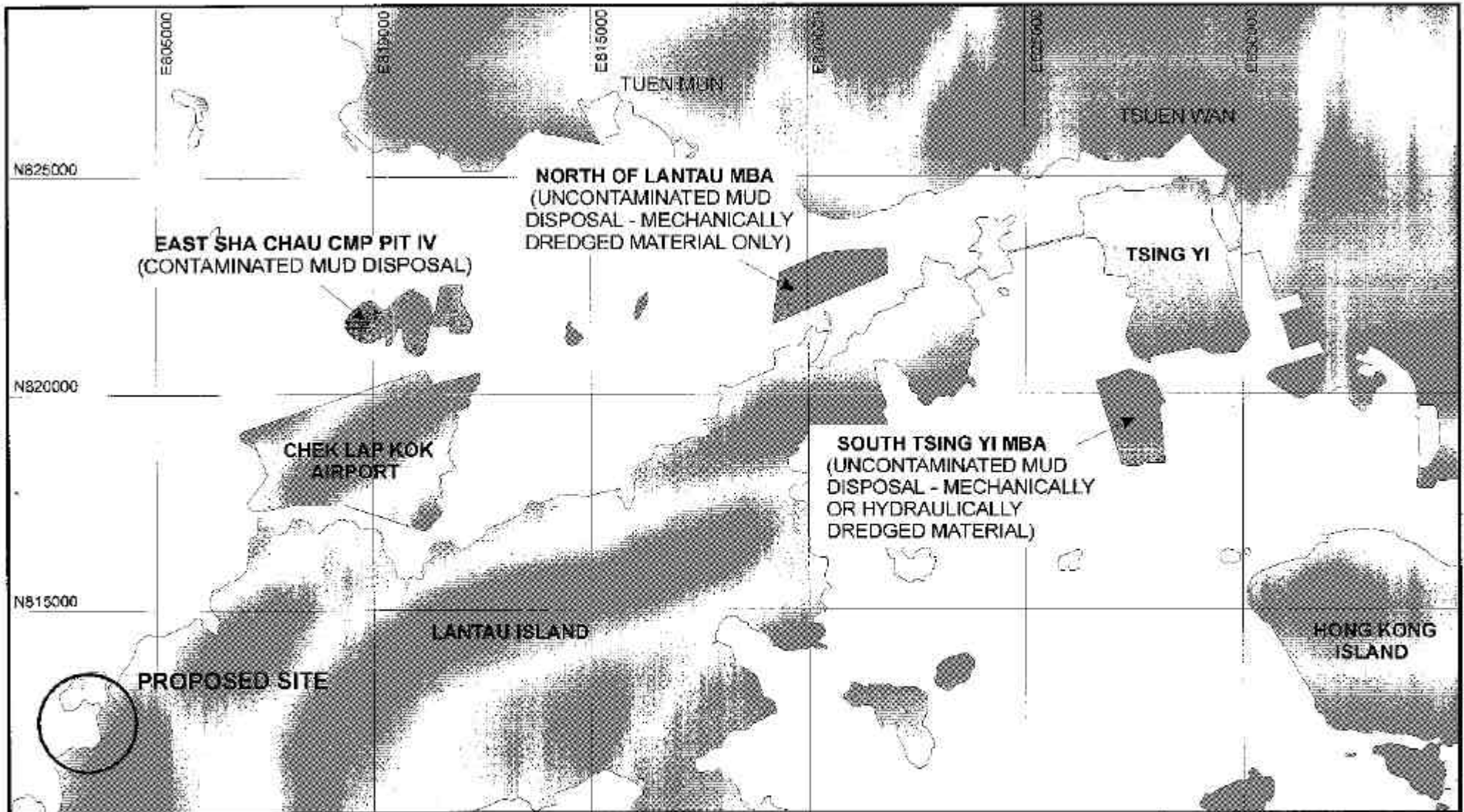




SEDIMENT MONITORING STATIONS

AGREEMENT No. CE 41/98
 ENVIRONMENTAL AND DRAINAGE
 IMPACT ASSESSMENT FOR
 TAI O SHELTERED BOAT ANCHORAGE

Figure No.	4.4	
Scale	N.T.S.	
Drawn SRW	Approved 4.1.99	Revised
Checked SRW	Date 4.1.99	Date



POTENTIAL DREDGED MATERIAL DISPOSAL SITES

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 ENVIRONMENTAL AND DRAINAGE
 IMPACT ASSESSMENT FOR
 TAI O SHELTERED BOAT ANCHORAGE

Figure No.

4.5

Scale

N.T.S.

Drawn

JML

Approved

Revised

Checked

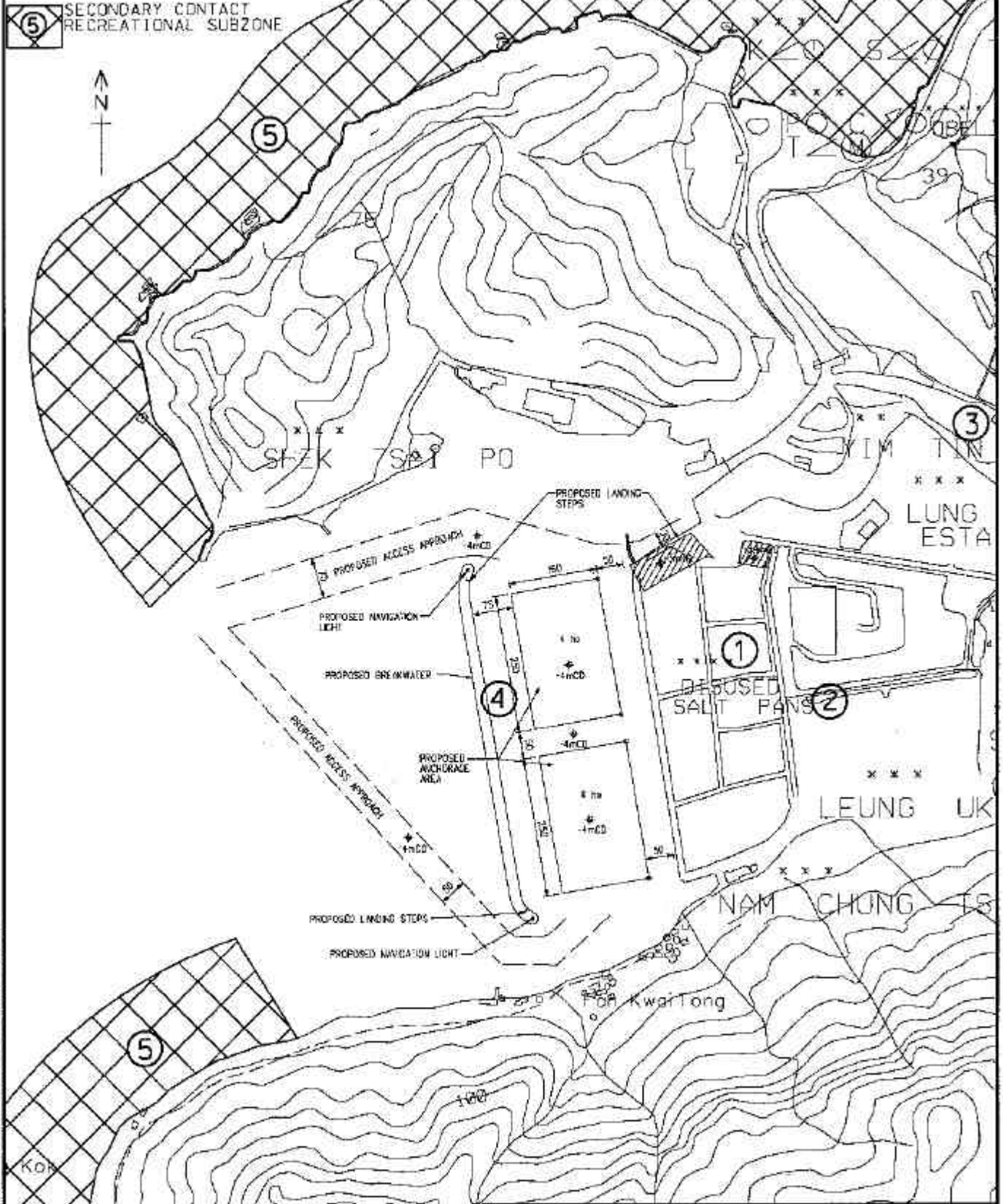
JML

Date

Date


WATER SENSITIVE RECEIVERS

- ① EXISTING AND FUTURE MANGROVE STANDS IN THE PLANTING AREA
- ② MARSH AREA
- ③ EXISTING MANGROVE
- ④ FUTURE SHELTERED BOAT ANCHORAGE
- ⑤ SECONDARY CONTACT RECREATIONAL SUBZONE



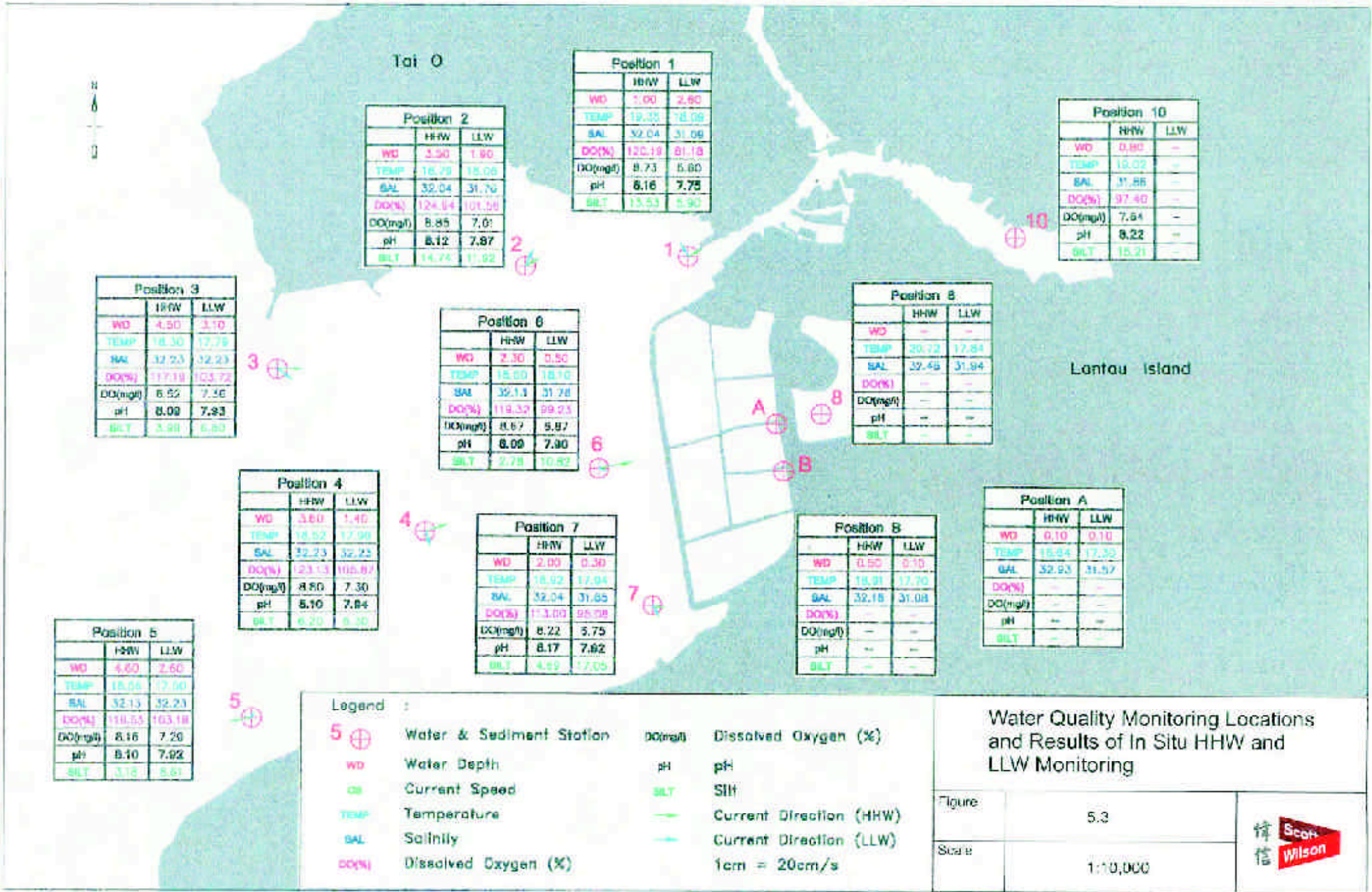
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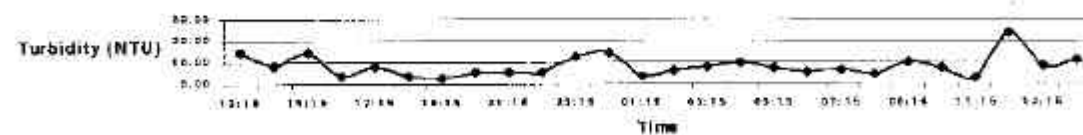
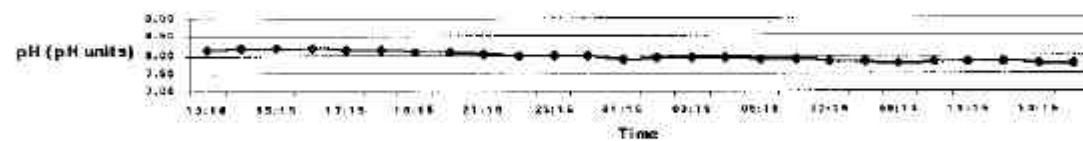
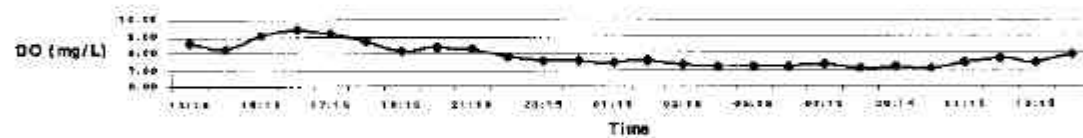
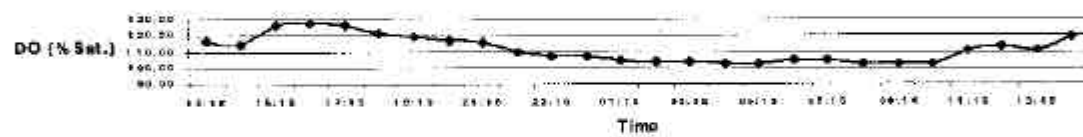
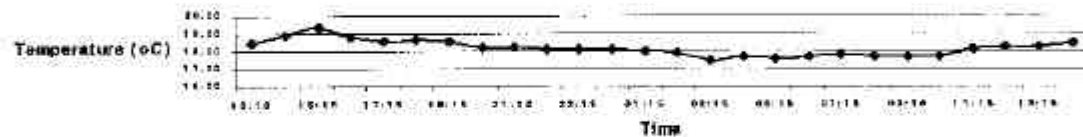
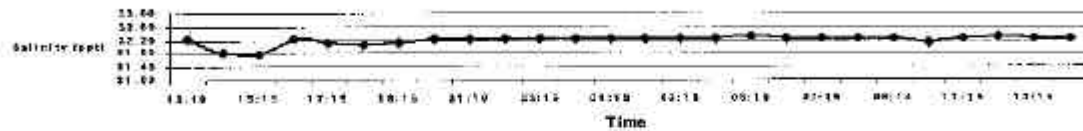
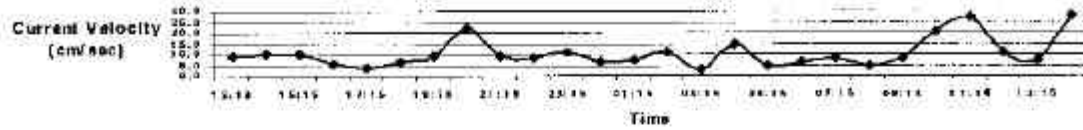
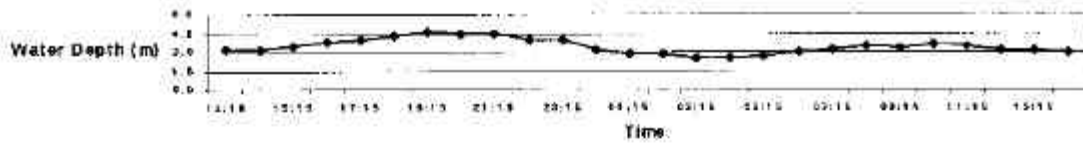
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Title EXISTING AND FUTURE WATER SENSITIVE RECEIVERS		Figure No. 圖則編號 5.1		
Drawn 設計 NYH	Checked 核核 R.J.F	Date 日期 5/99		
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TAI O SHELTERED
 BOAT ANCHORAGE
 (AGREEMENT CE 41/98)





**In Situ Water Quality Data
for Station 5 (EGS 1999)**

AGREEMENT No. CE 41/98
ENVIRONMENTAL AND DRAINAGE
IMPACT ASSESSMENT FOR
TAI O SHELTERED BOAT ANCHORAGE

Figure No.

5.4a

Scale

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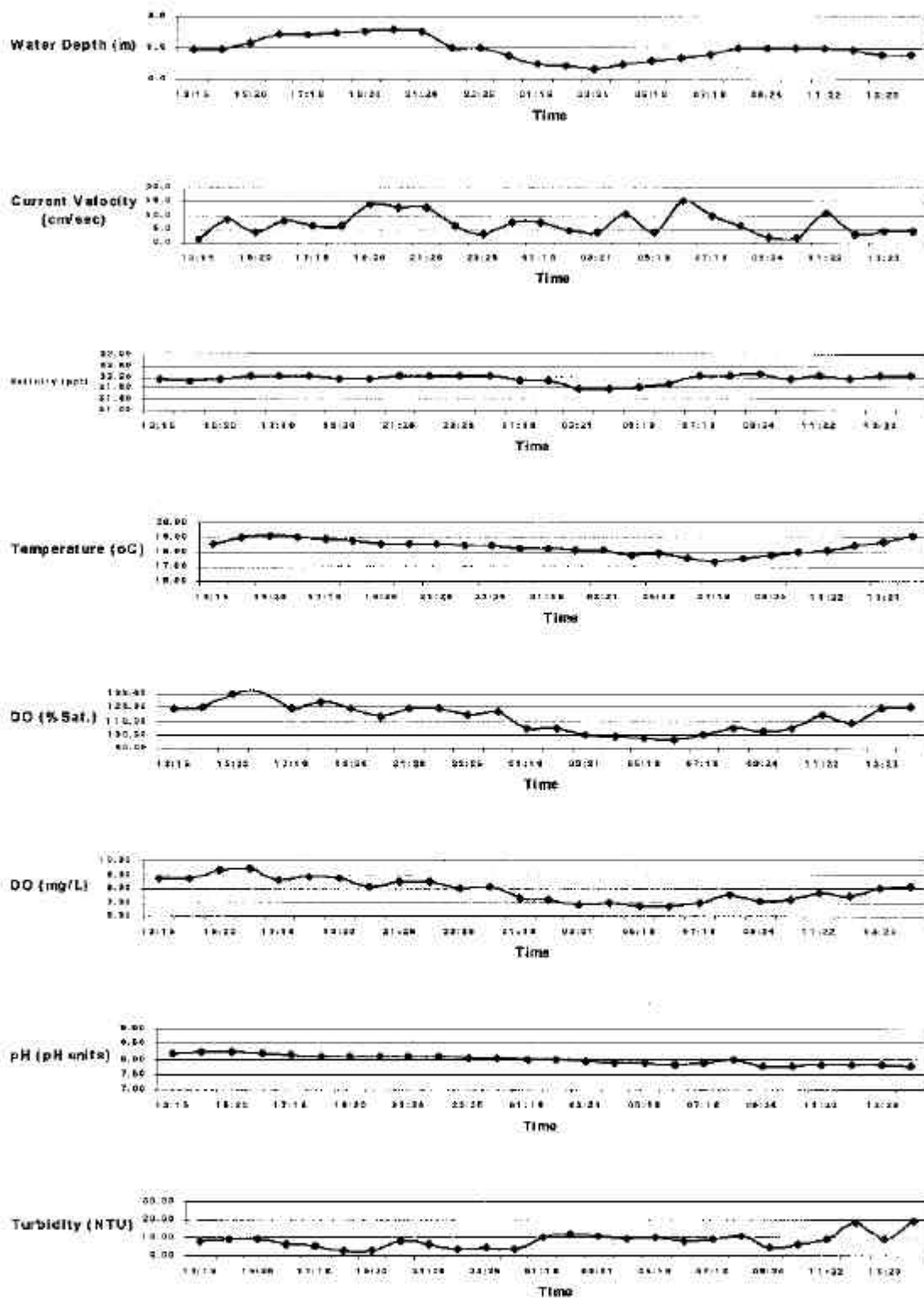
Approved

Revised

Checked
SRW

Date

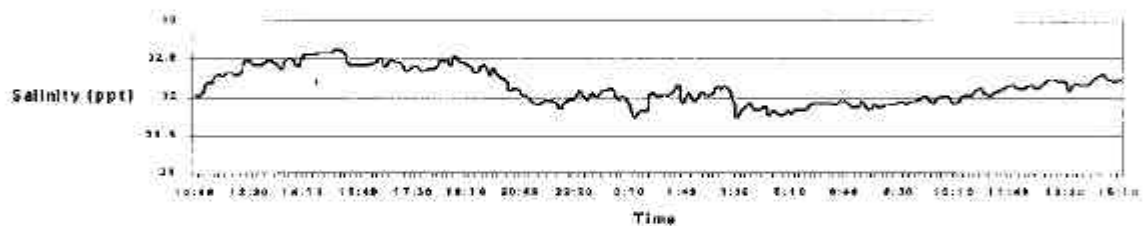
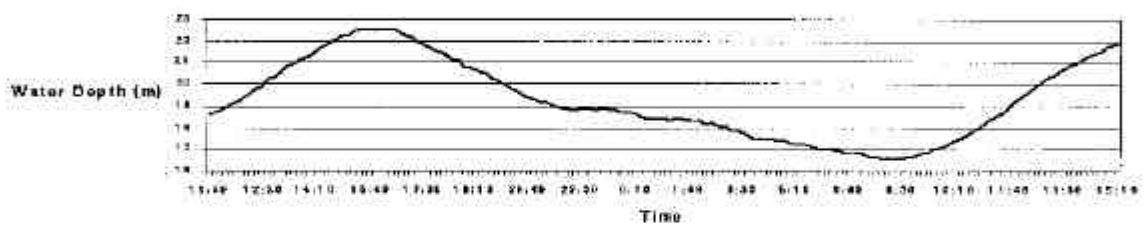
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**In Situ Water Quality Data
for Station 6 (EGS 1999)**

AGREEMENT No. CE 41/98
ENVIRONMENTAL AND DRAINAGE
IMPACT ASSESSMENT FOR
TAI O SHELTERED BOAT ANCHORAGE

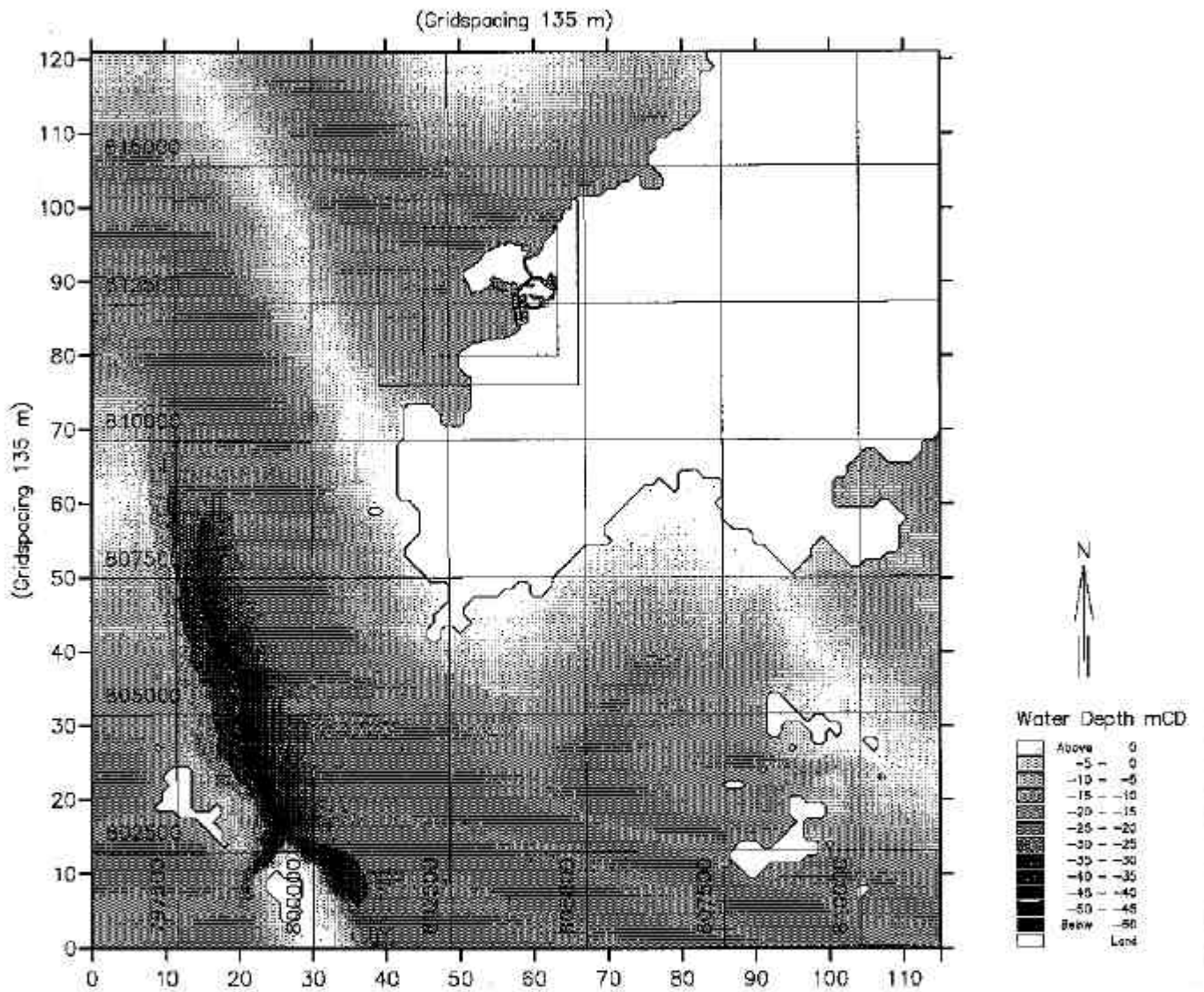
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Drawn	Approved	Revised
SRW		
Checked	Date	Date
SRW		



**IN SITU WATER QUALITY DATA
FOR STATION 8 (EGS 1999)**

AGREEMENT No. CE 41/98
ENVIRONMENTAL AND DRAINAGE
IMPACT ASSESSMENT FOR
TAI O SHELTERED BOAT ANCHORAGE

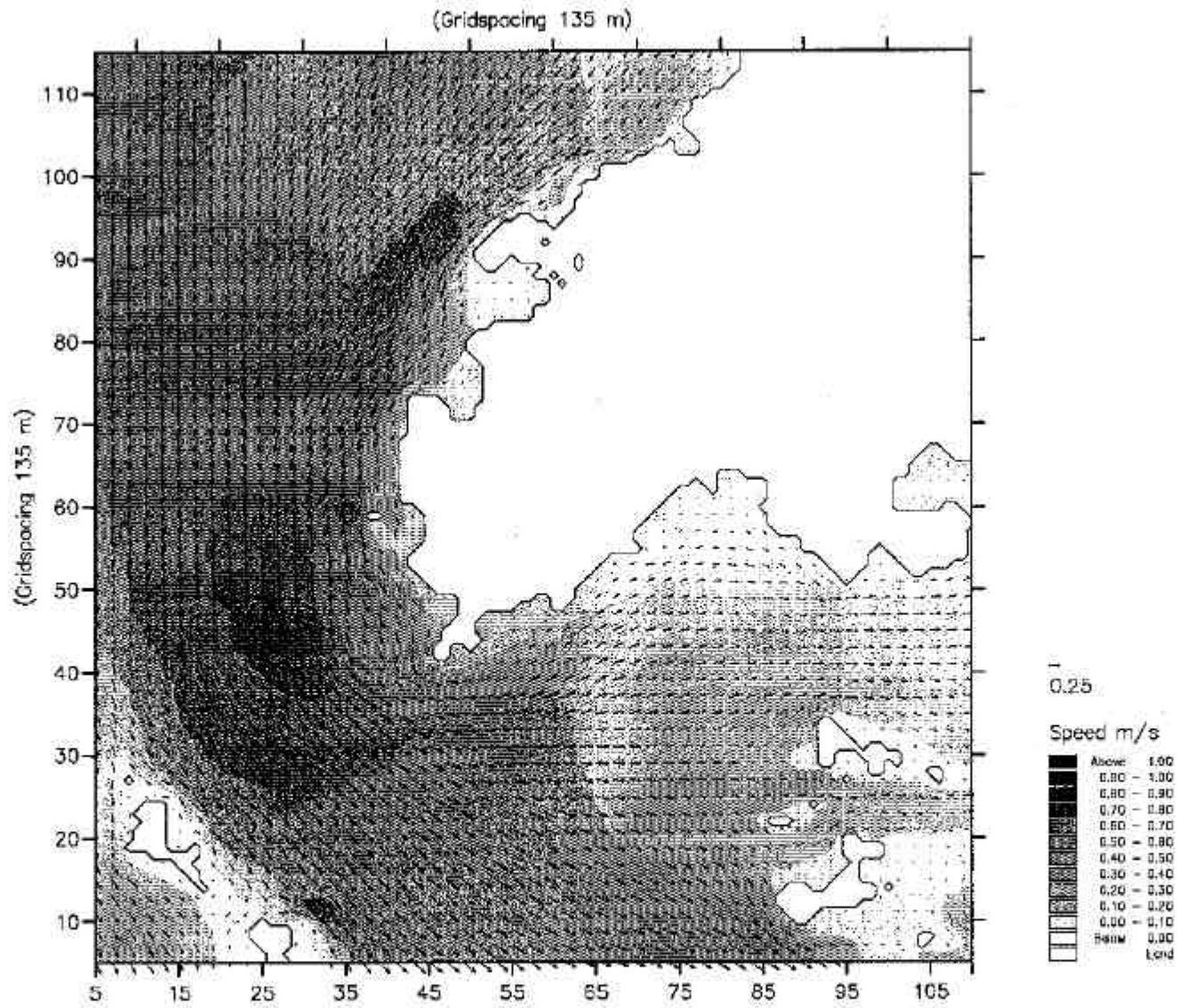
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Nested Model Bathymetry

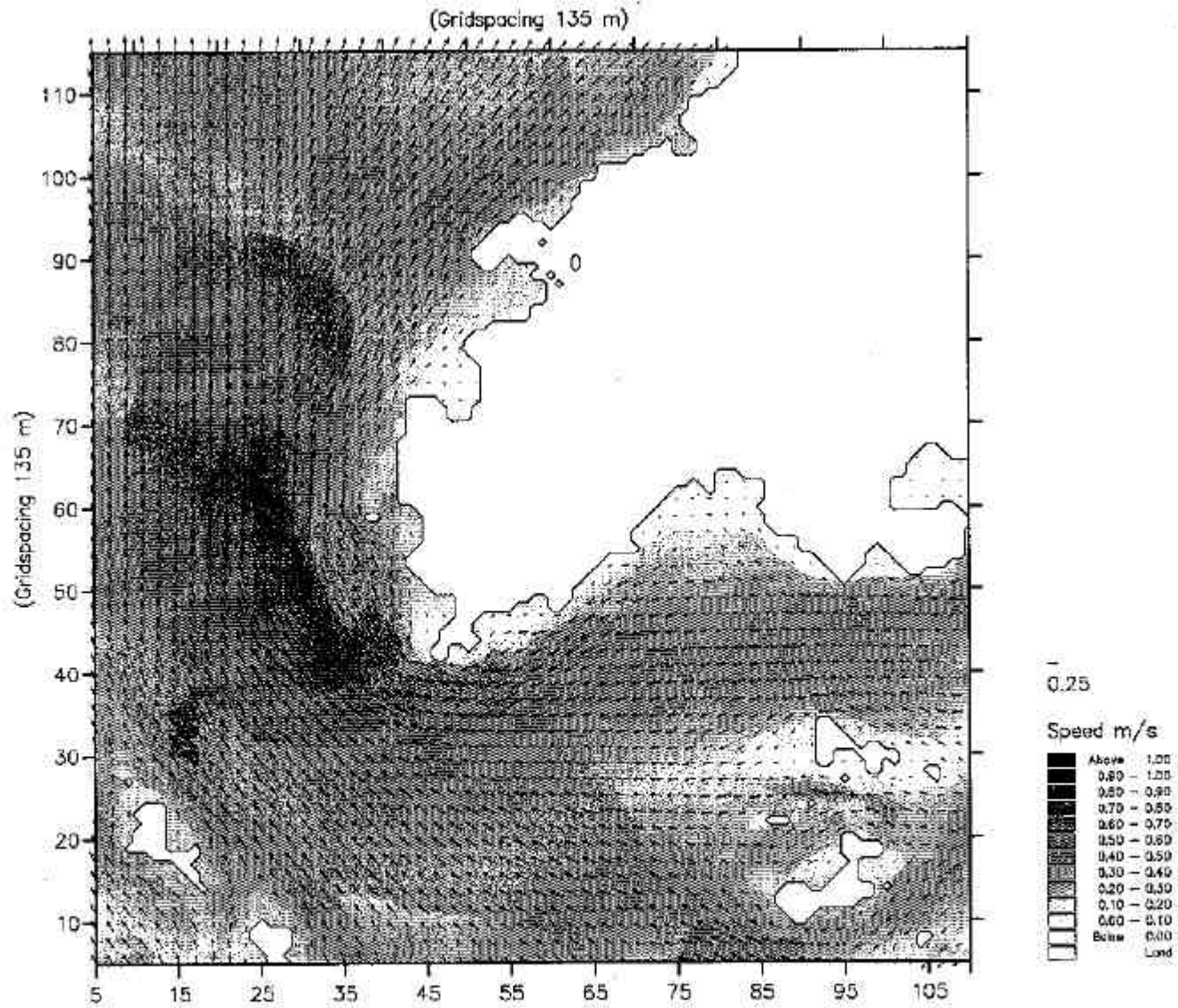
AGREEMENT No. CE 41/98
 ENVIRONMENTAL AND DRAINAGE
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 TAI O SHELTERED BOAT ANCHORAGE


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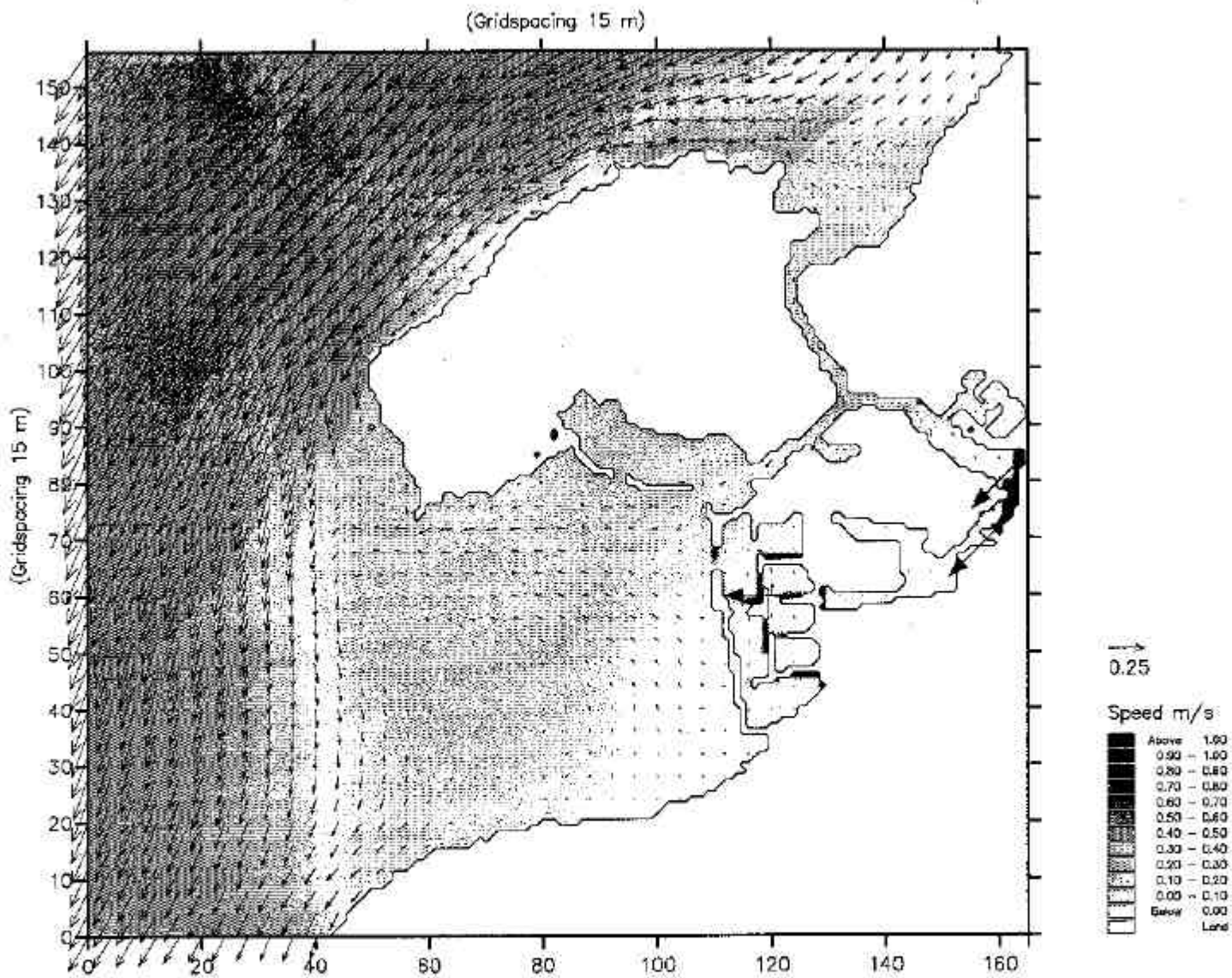



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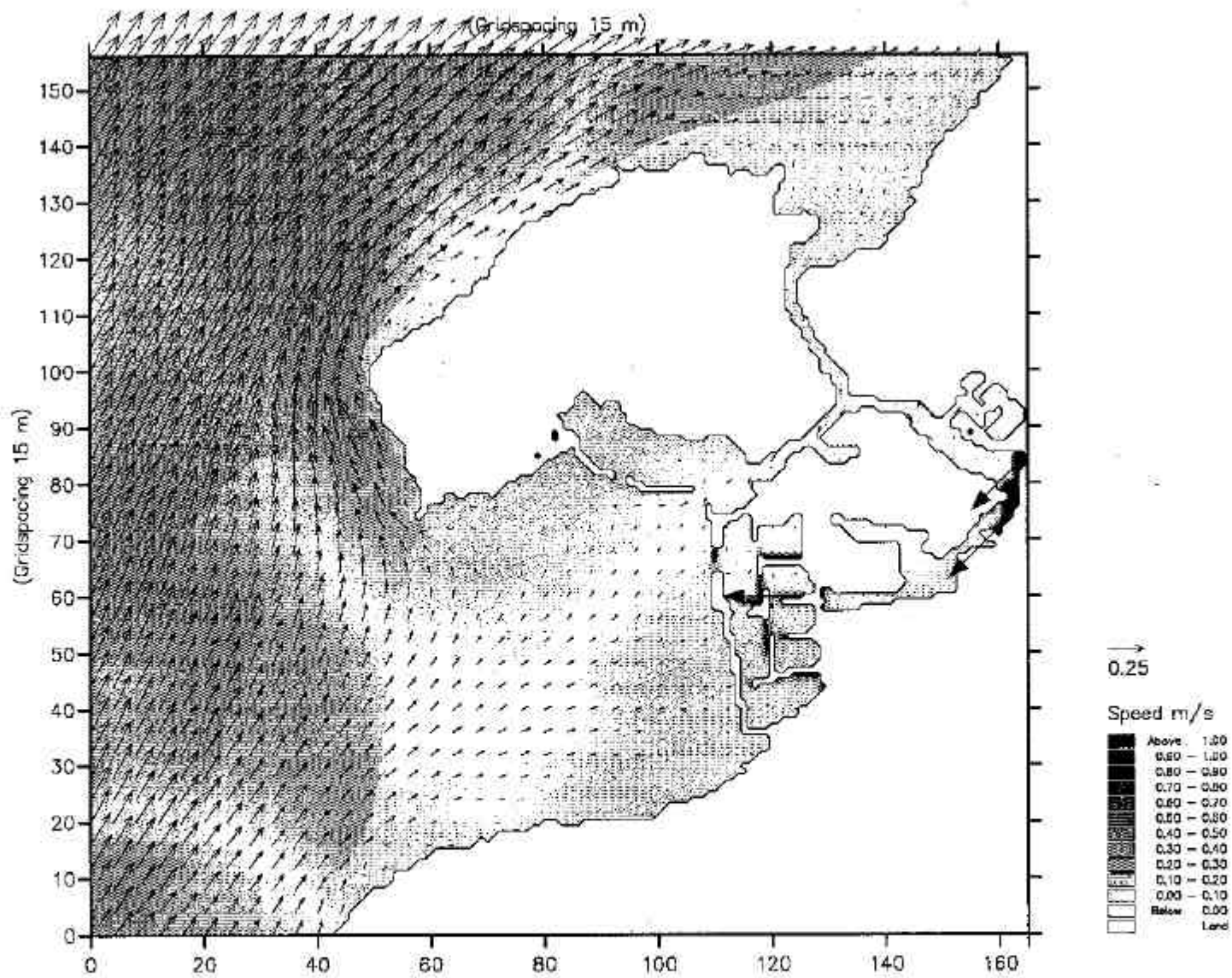
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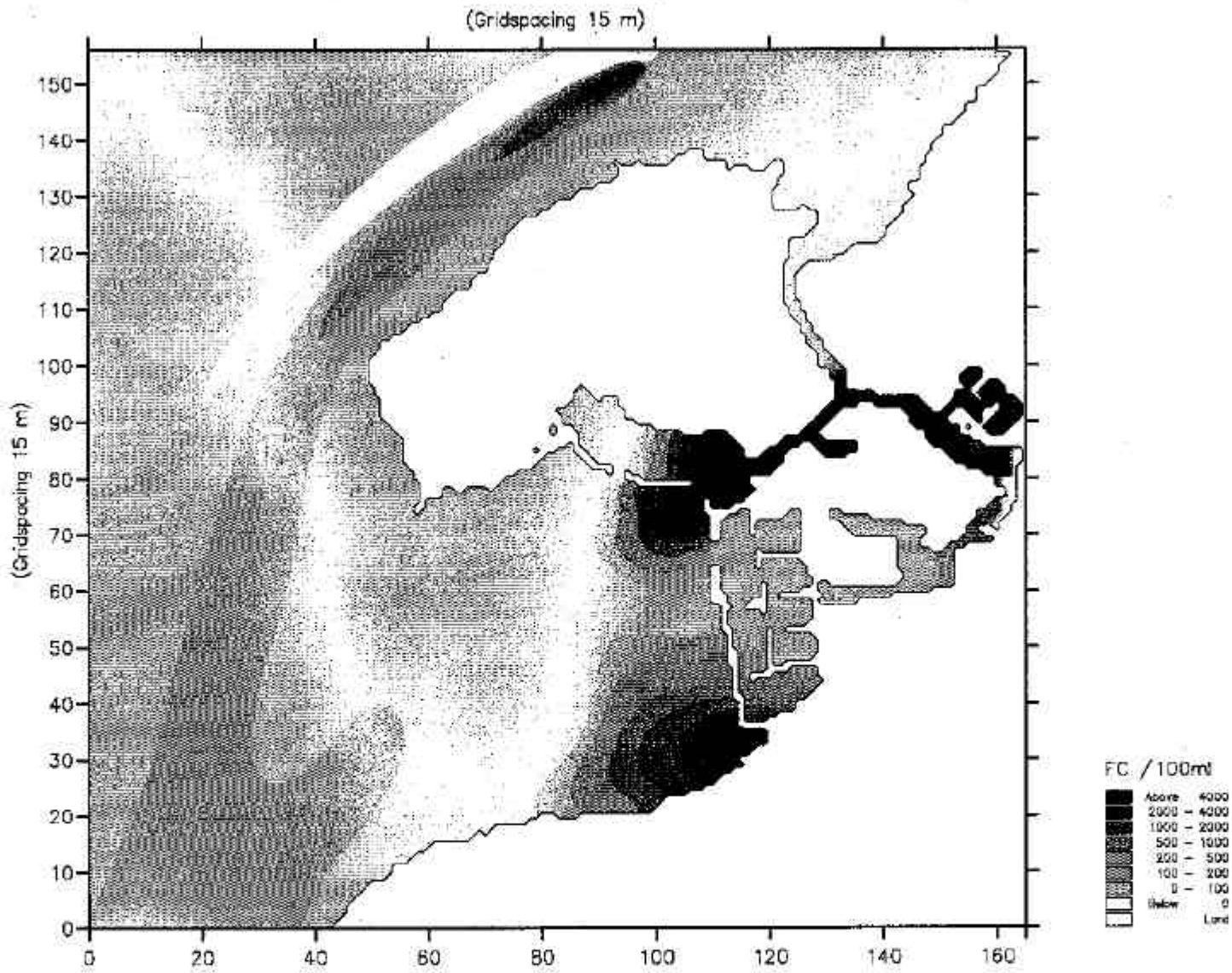
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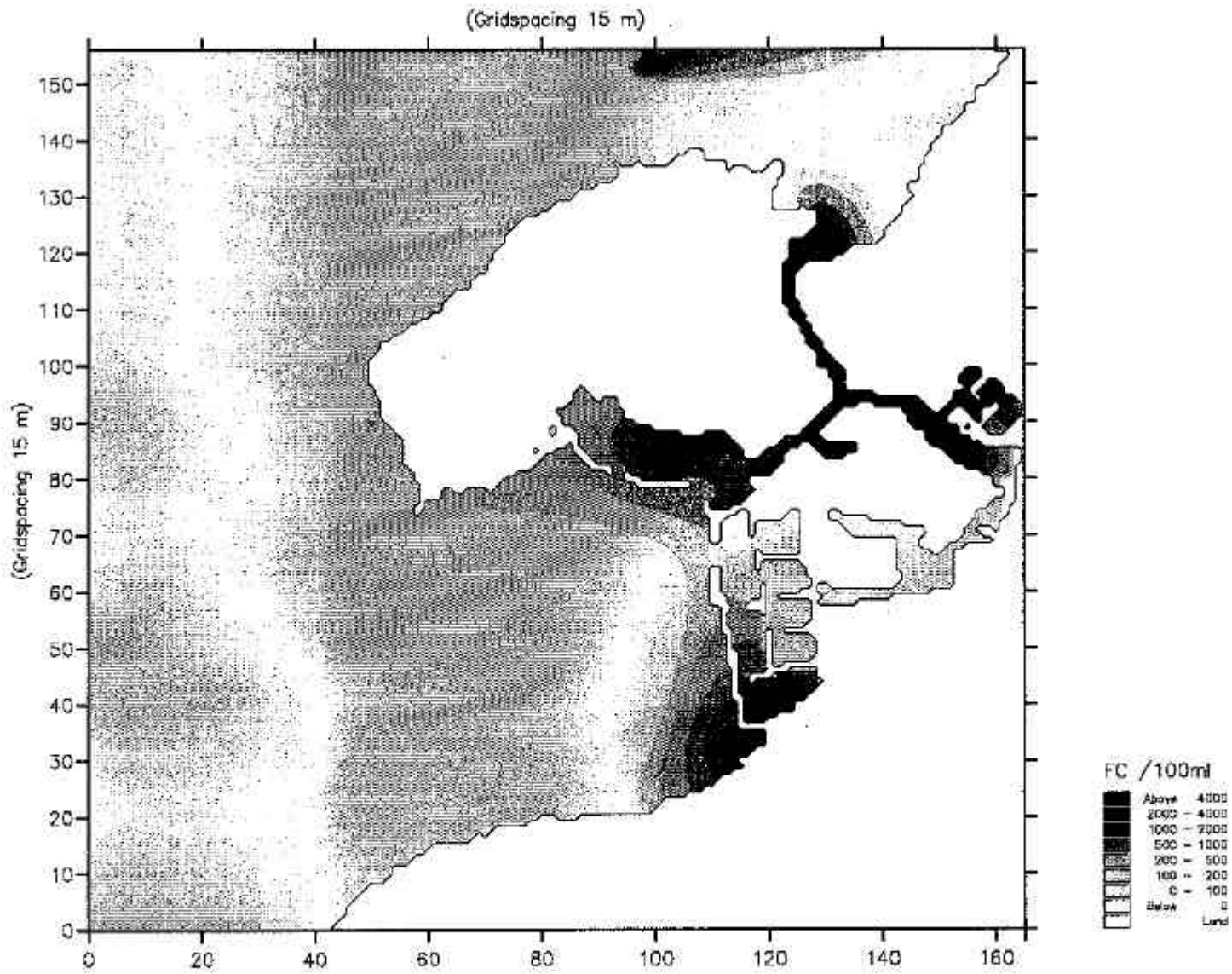
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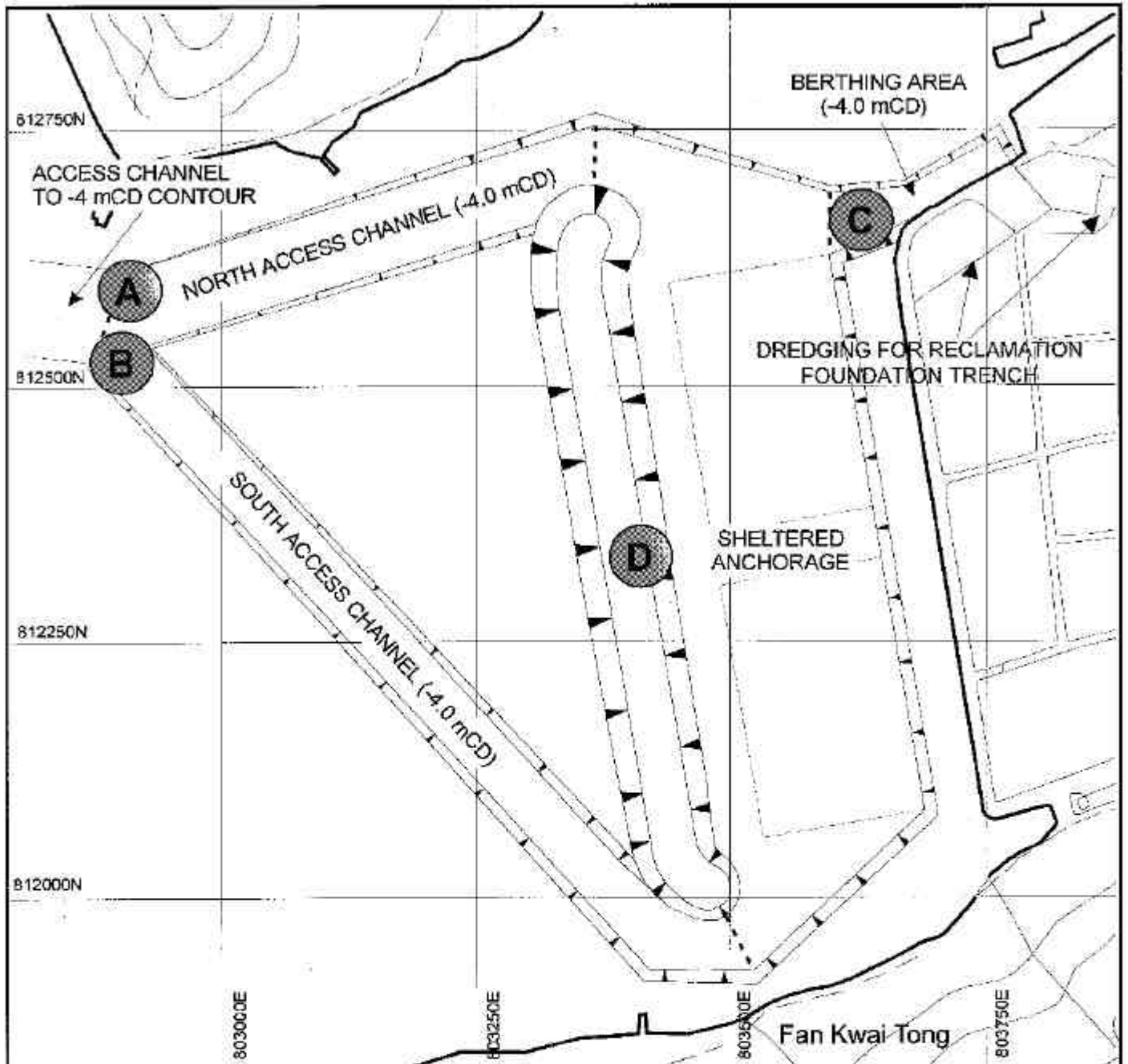
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Scale: 1:17100	Init: mwb		



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File:	Date: Tue Jun 22 1999	FC Concentrations Flood, Neap Tide, Dry Season	
Scale: 1:17100	Init: mwb		



ESTIMATED DREDGING VOLUMES (CUBIC METRES):

- NORTHERN ACCESS CHANNEL: 65,000
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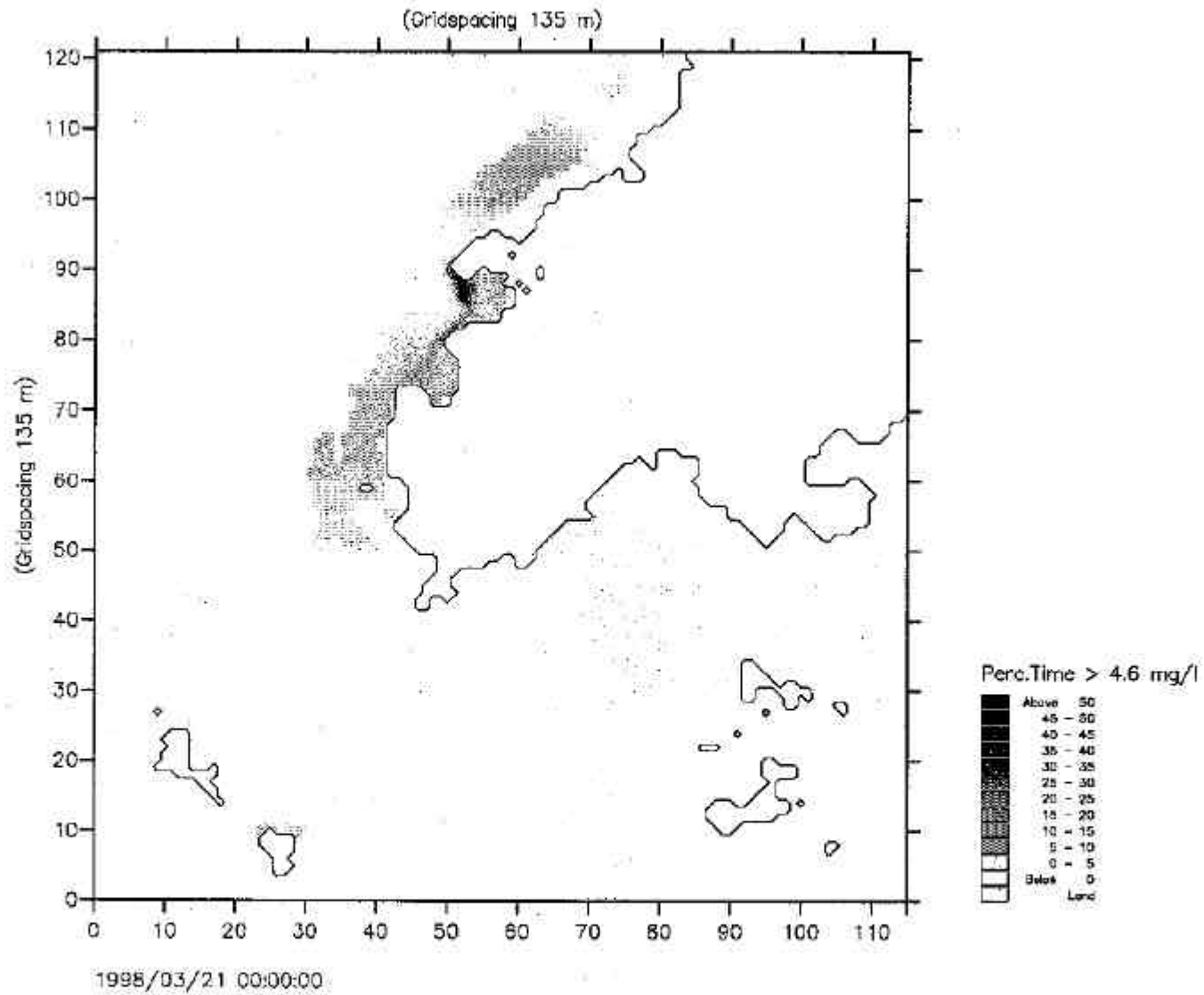
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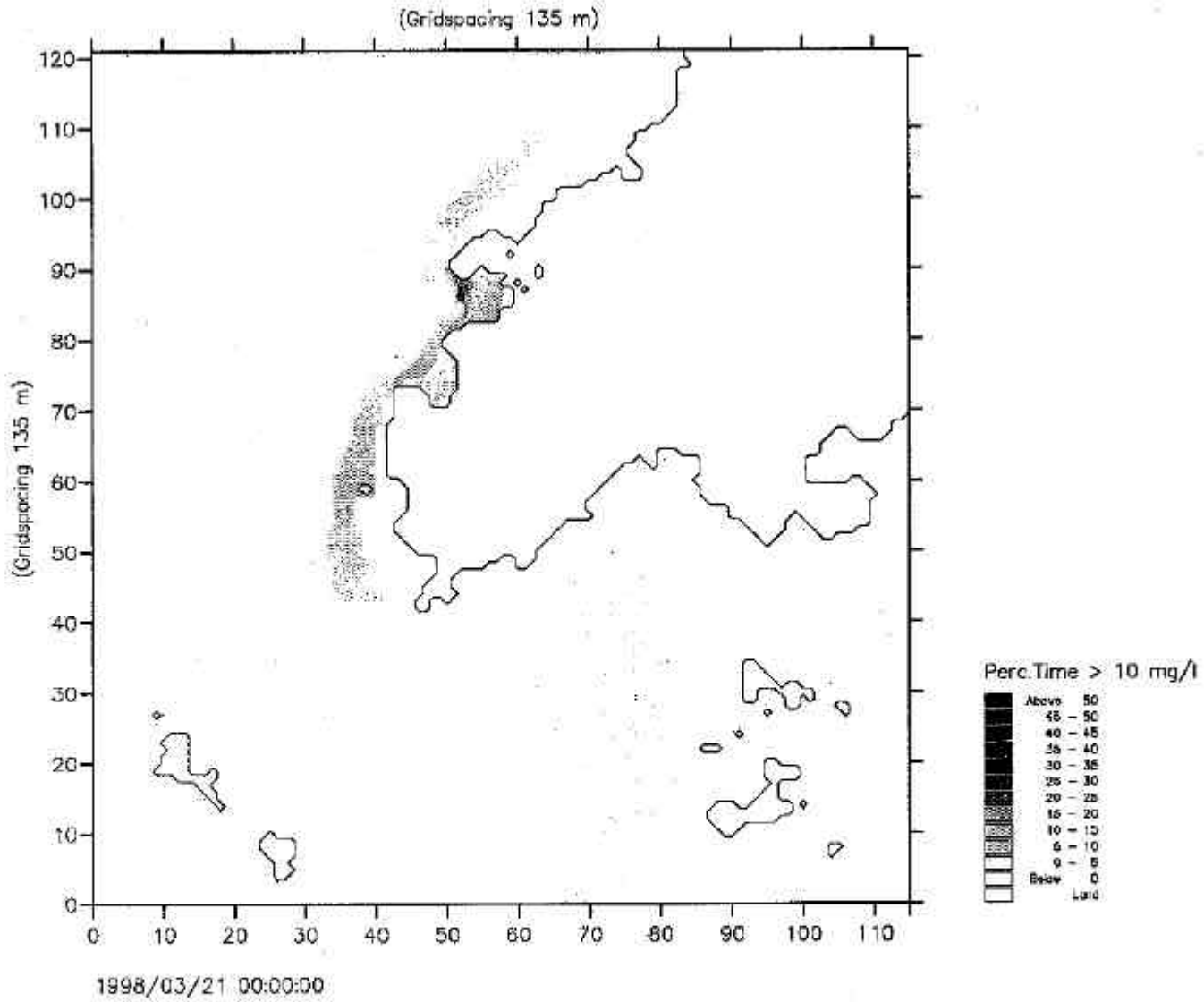
LOCATION OF DREDGERS FOR WATER QUALITY MODELLING EXERCISE


AGREEMENT No. CE 41/98
 ENVIRONMENTAL AND DRAINAGE
 IMPACT ASSESSMENT FOR
 TAI O SHELTERED BOAT ANCHORAGE

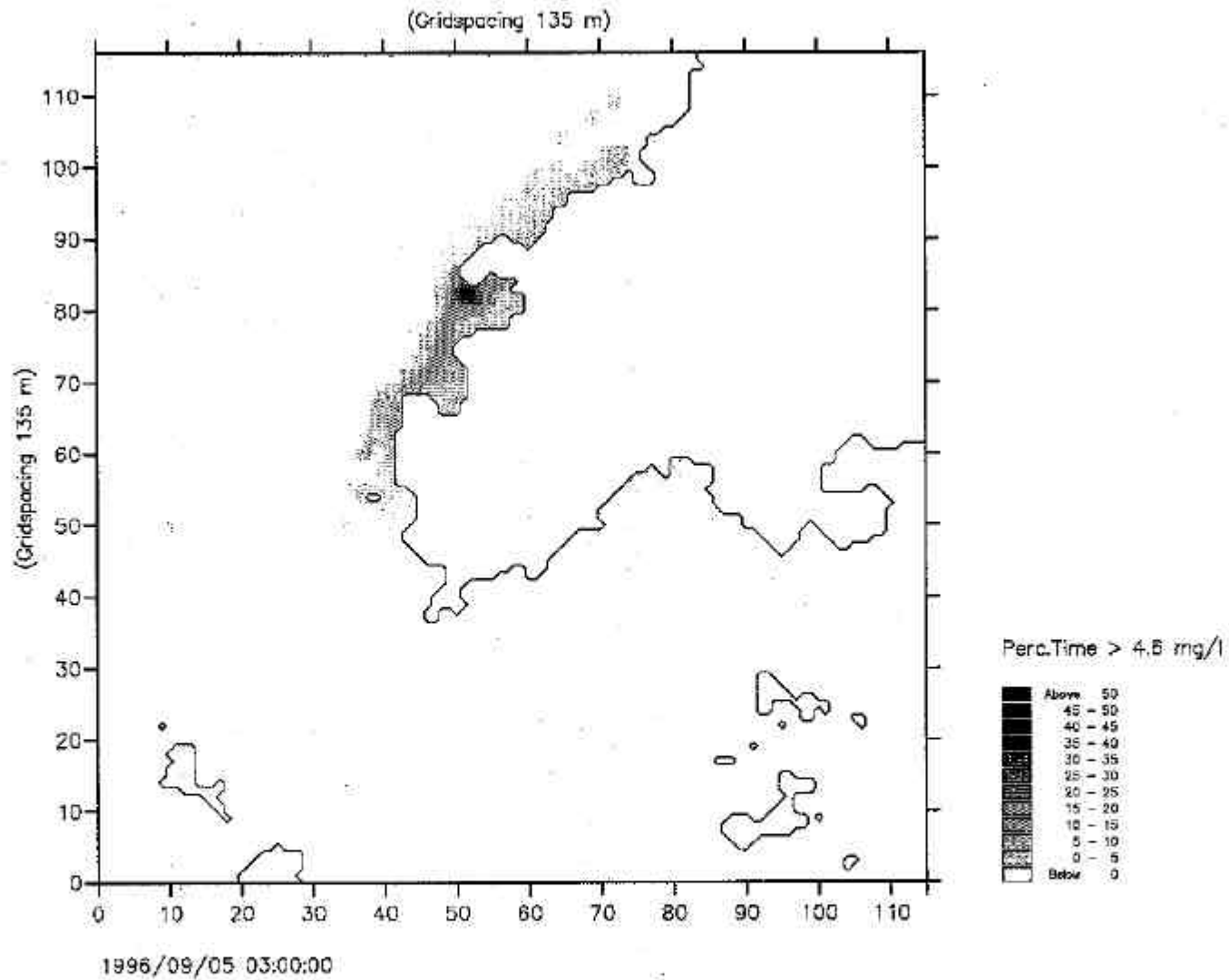
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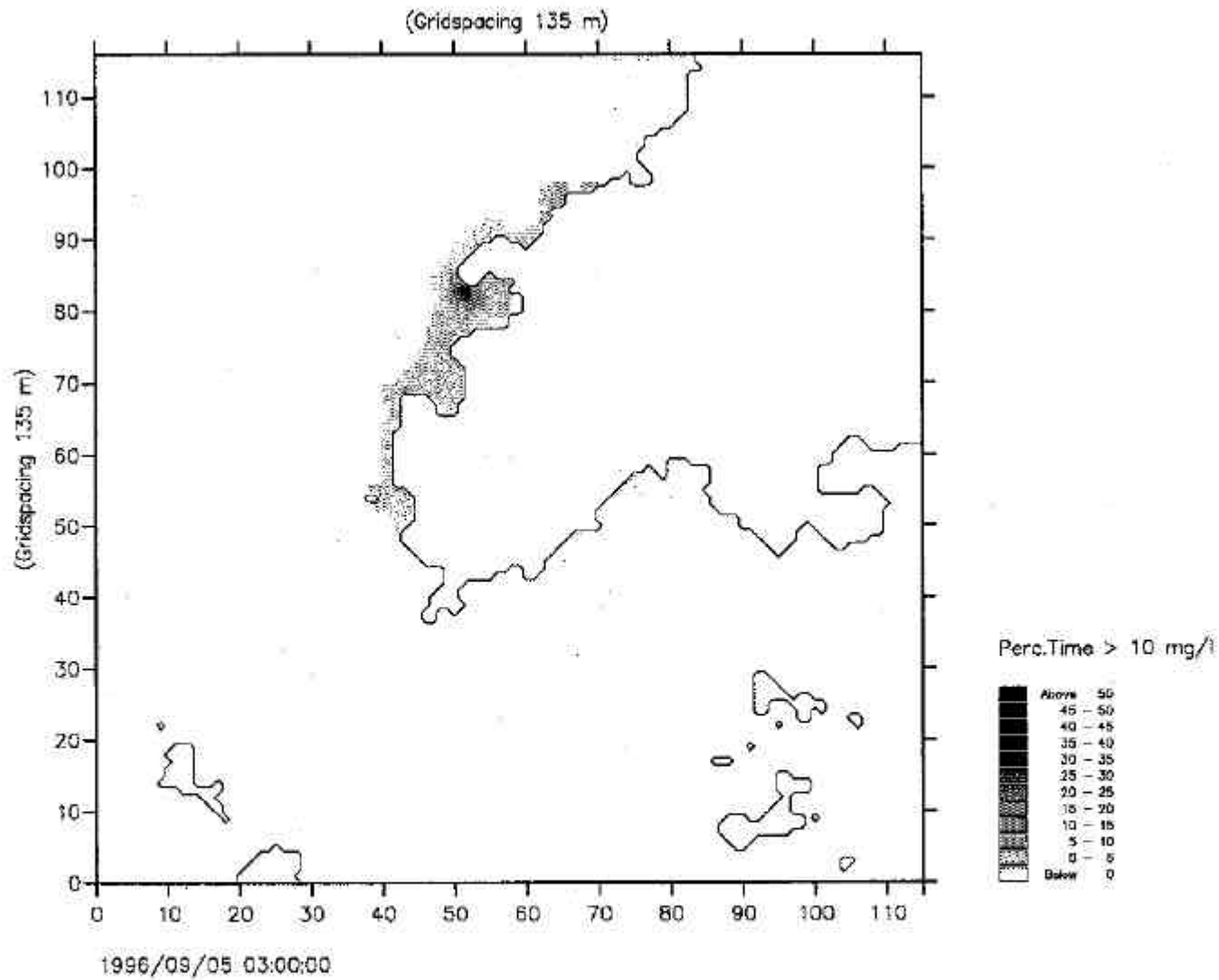
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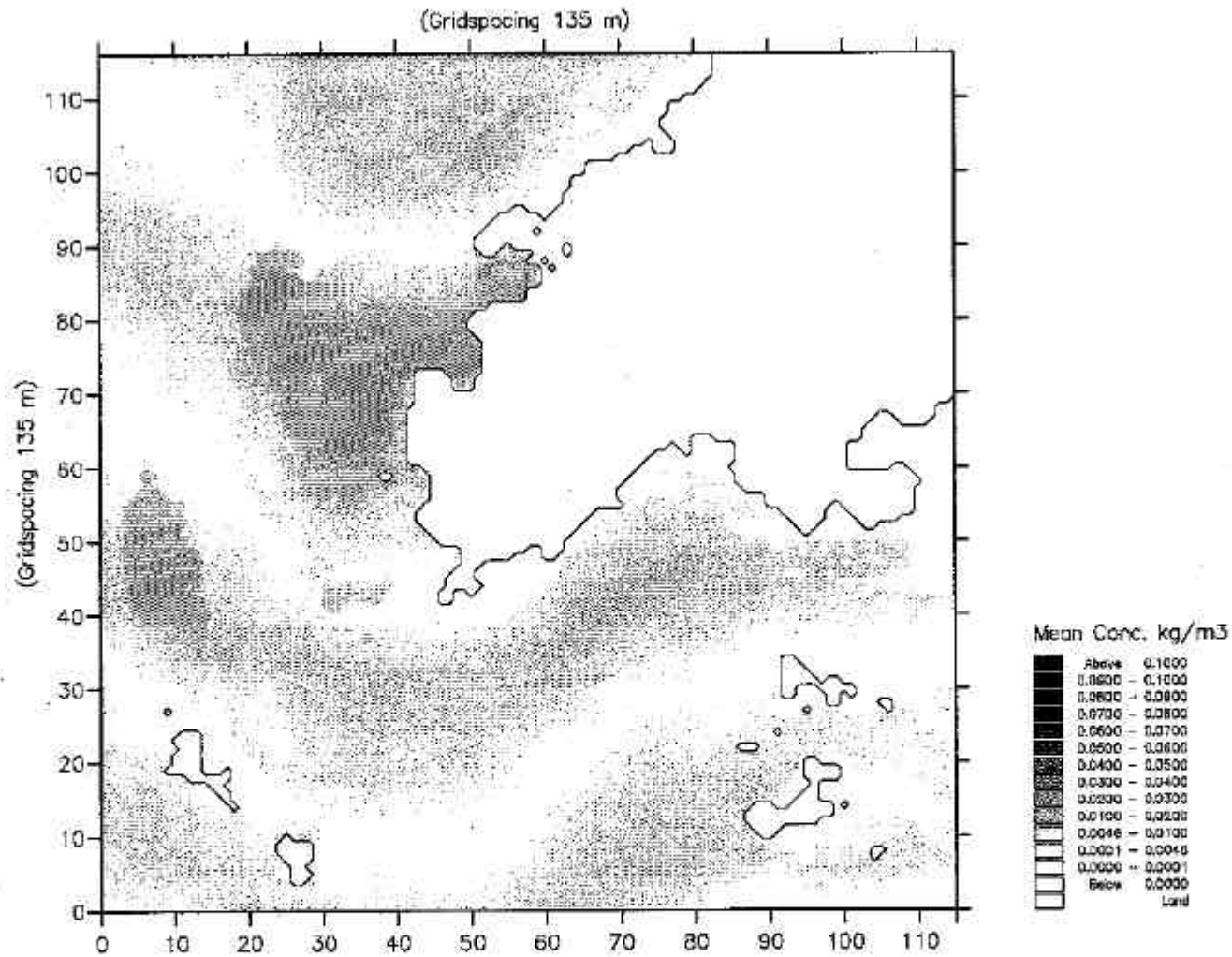
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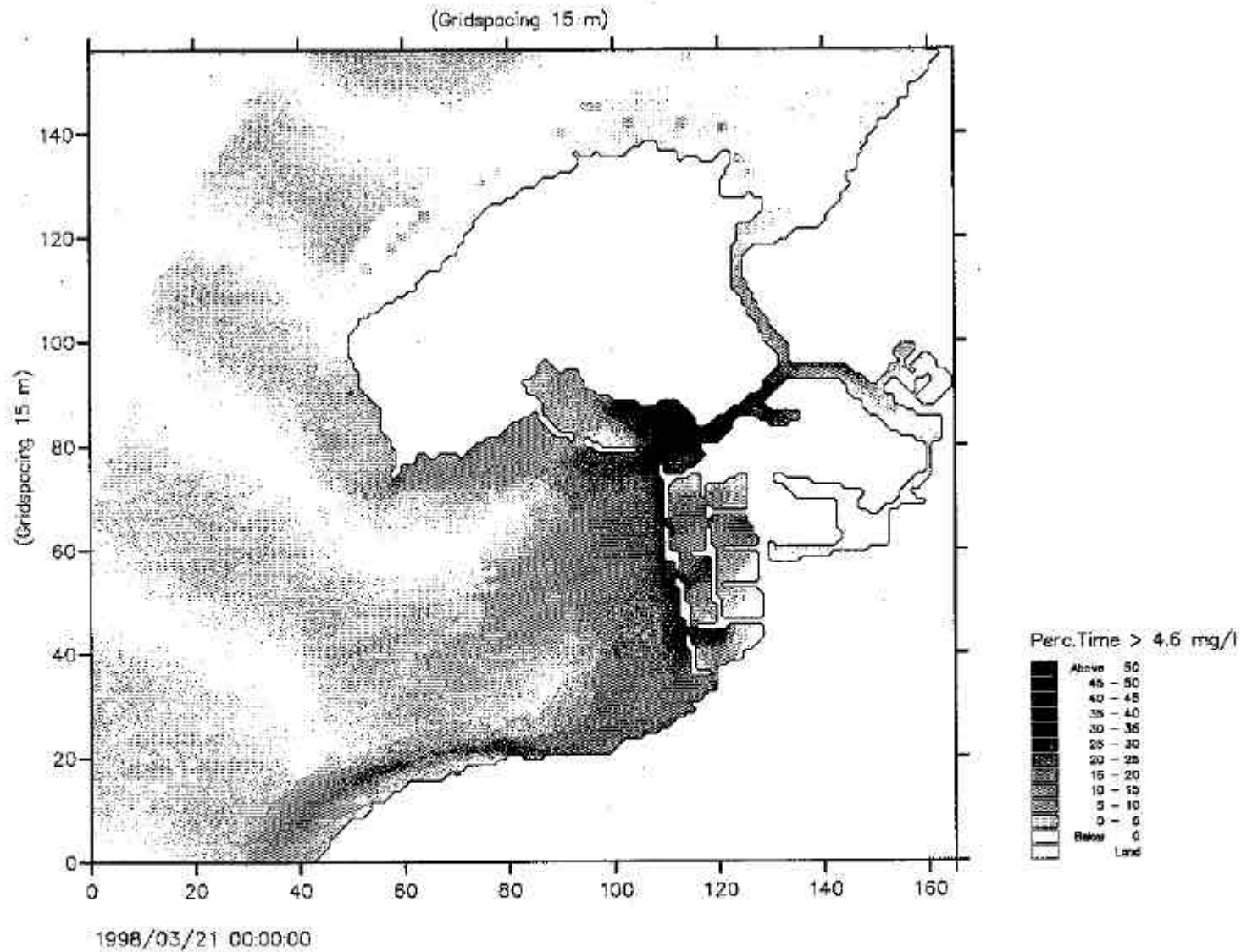
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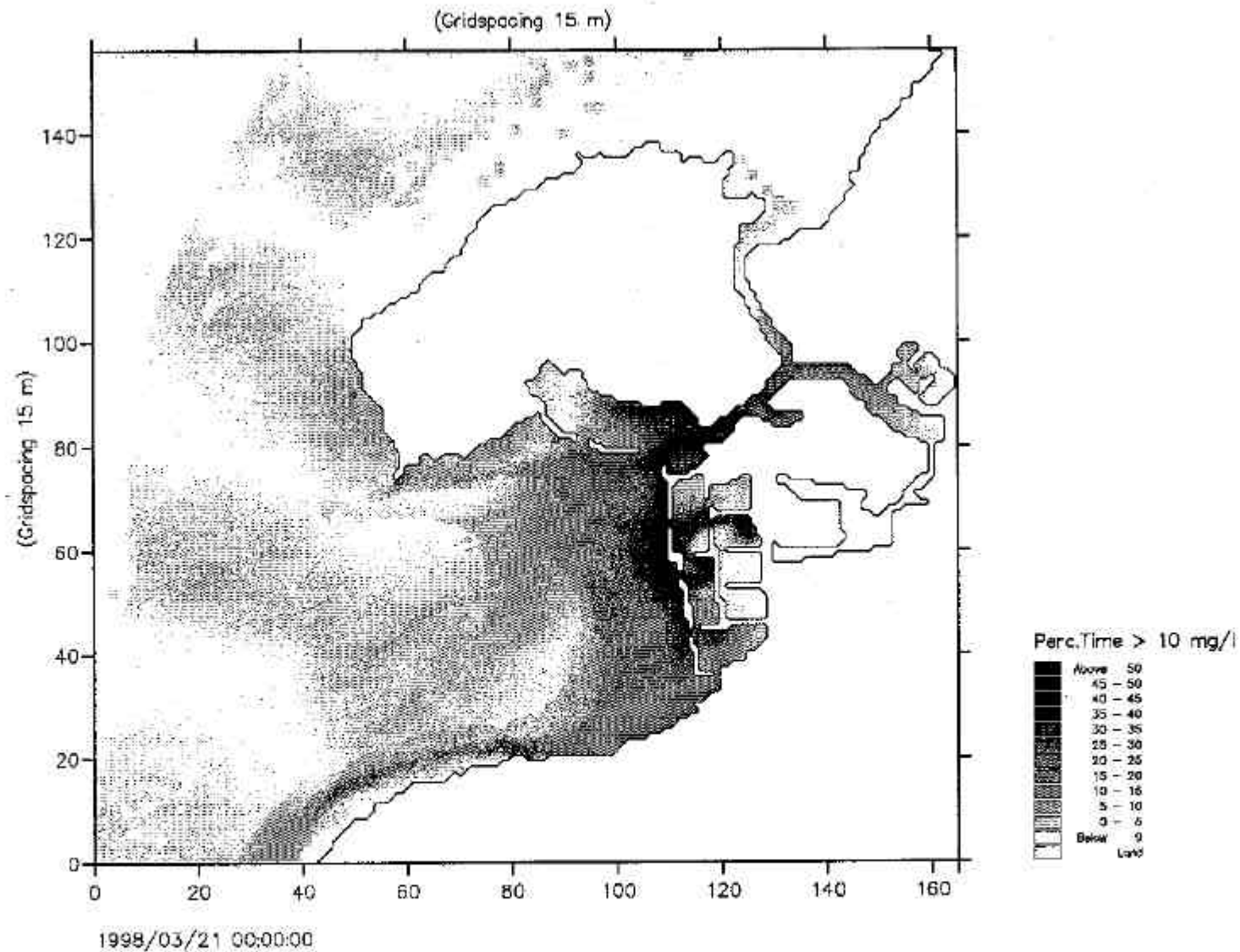
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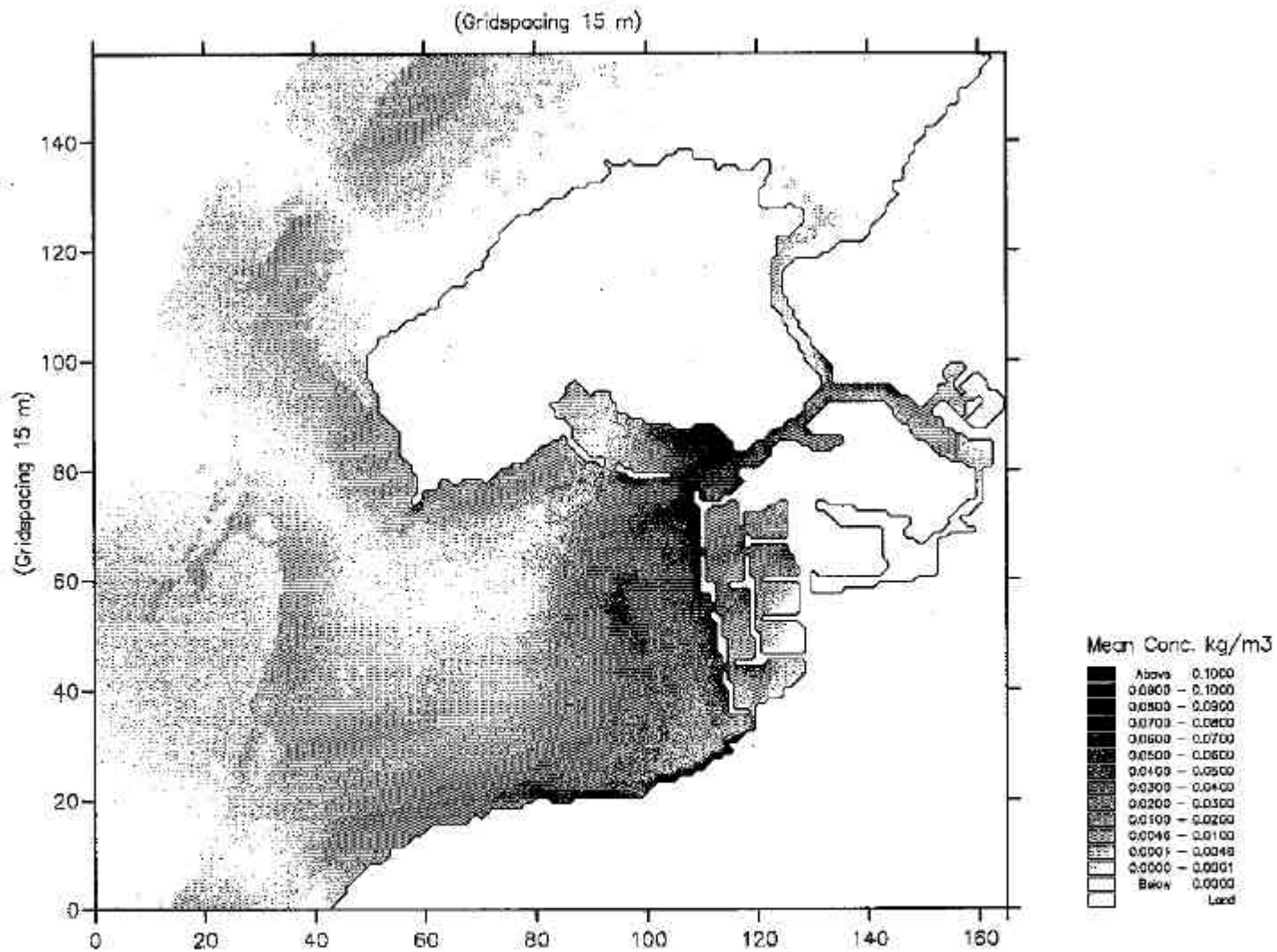
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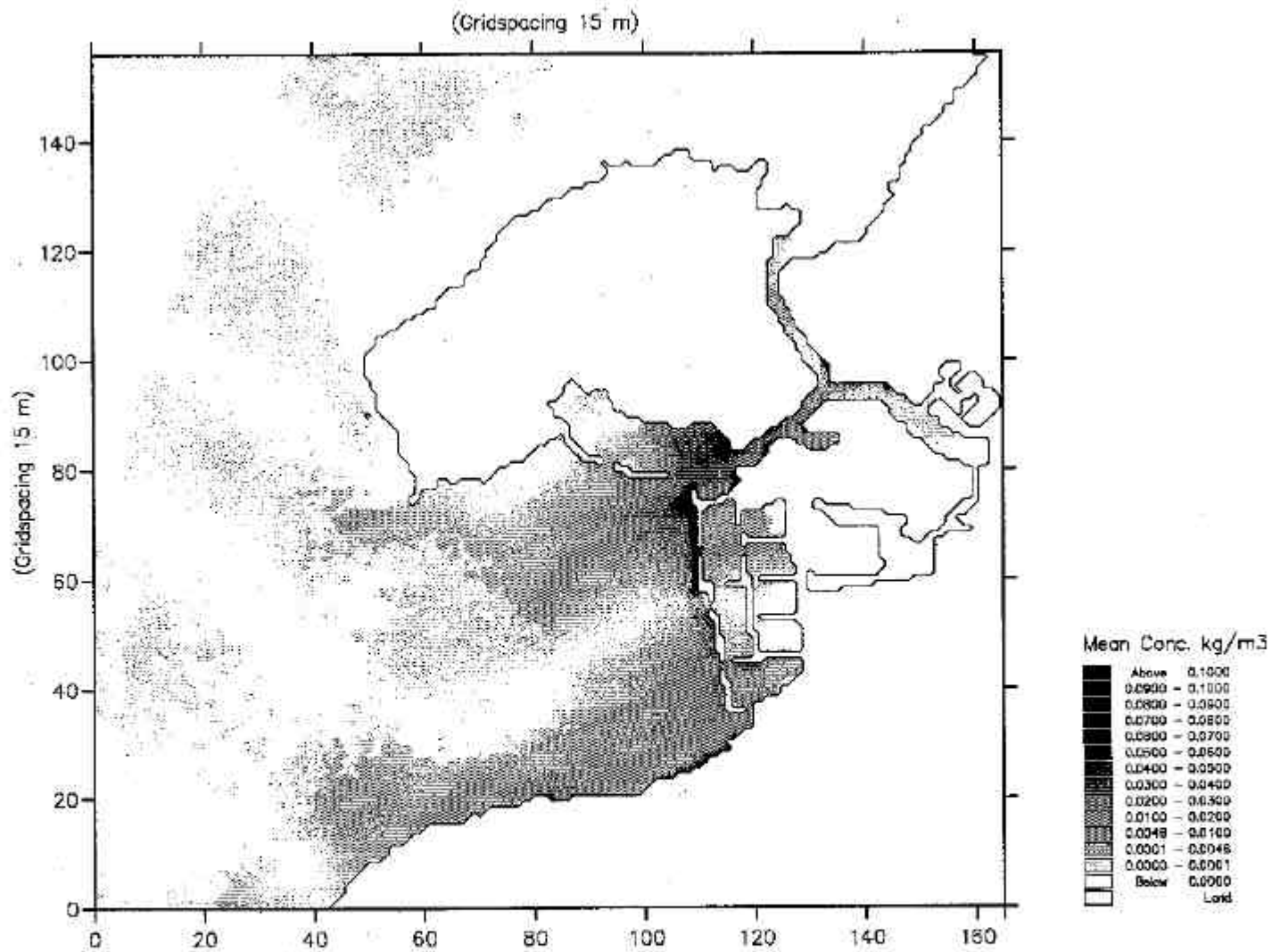
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File:	Date: Fri Sep 24 1999	Figure D2 Percent Time Exceedance of 4.6mg/l SS Elevation, Dry Season	
Scale: 1:8400	Int: mwb		



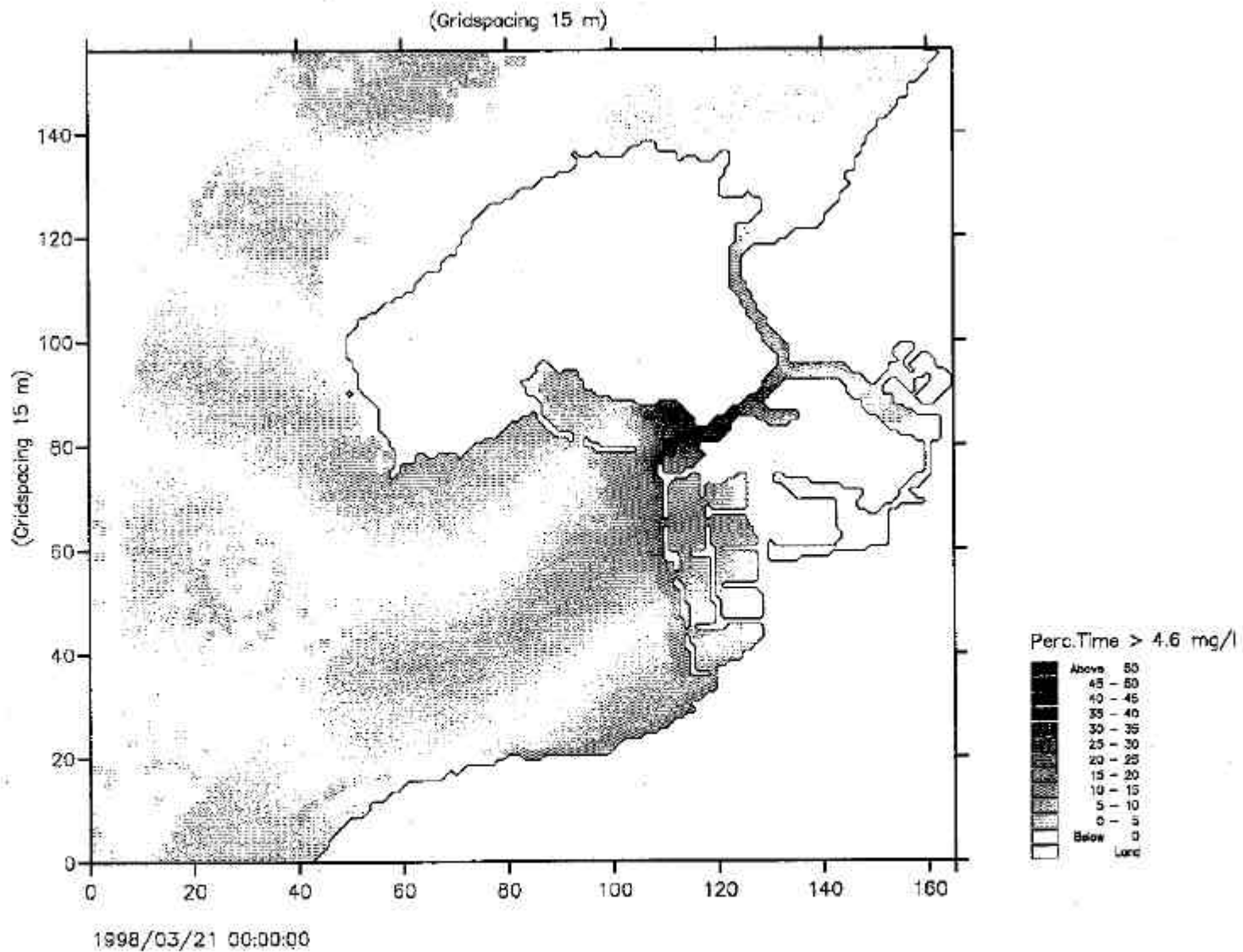
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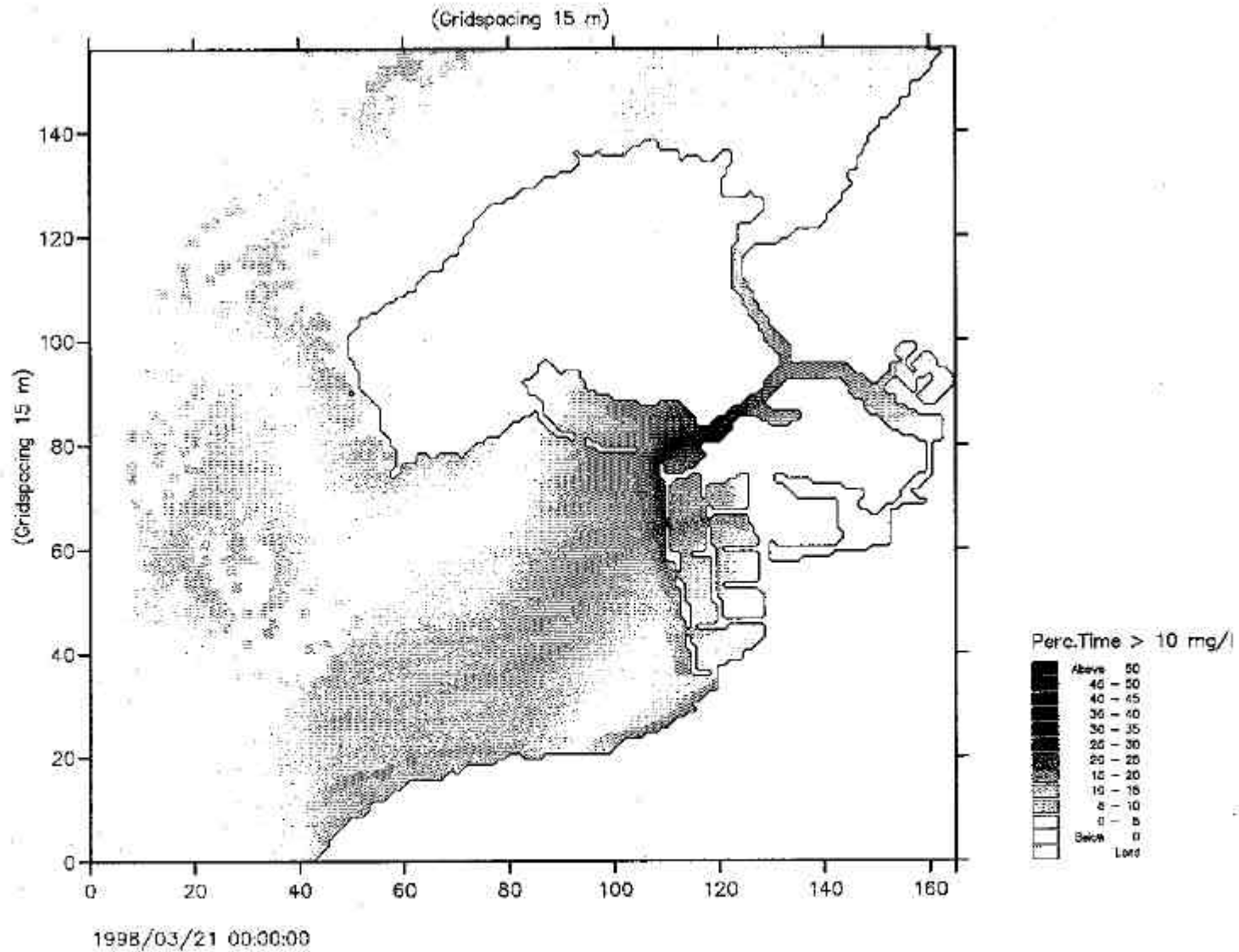
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Scale: 1:15400	By: mwb		




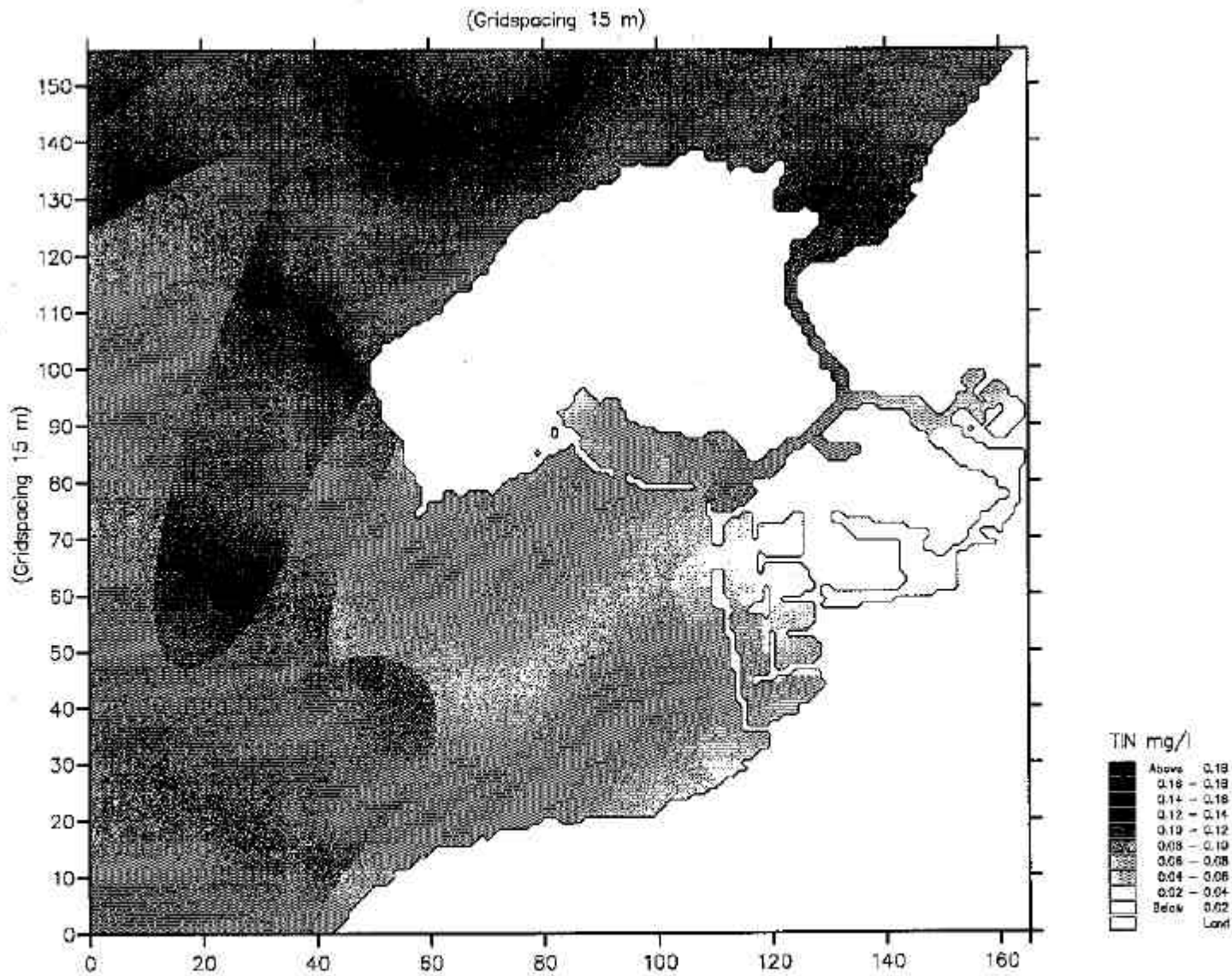
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Scale: 1:8400	Init: mwb	Percent Time Exceedance of 4.6mg/l SS Elevation, Dry Season	
			Drawing no. 5.22

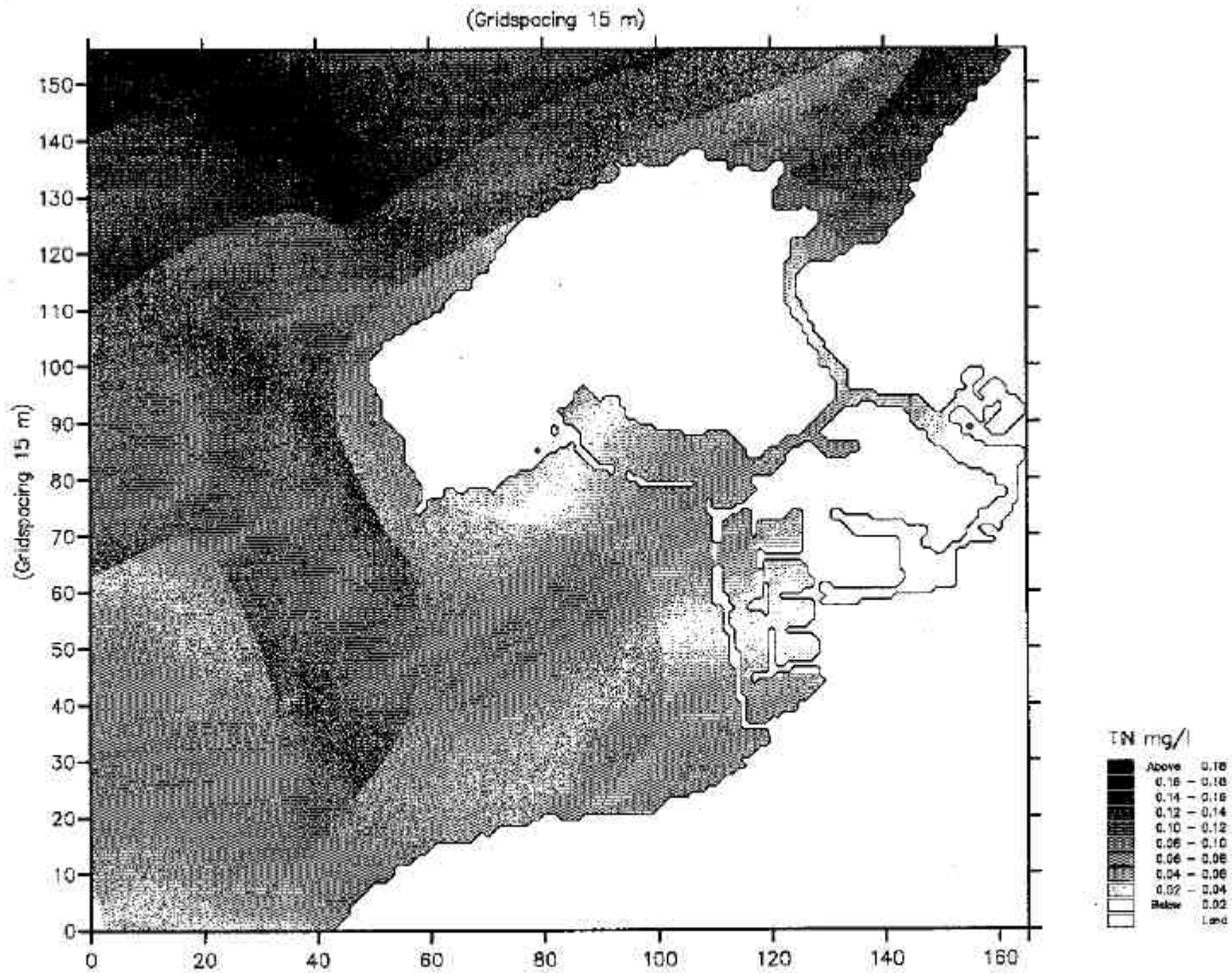



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File:	Date: Fri Sep 24 1999	Figure E3 Percent Time Exceedance of 10mg/l SS Elevation, Dry Season	
Scale: 1:18400	Init: mwb		

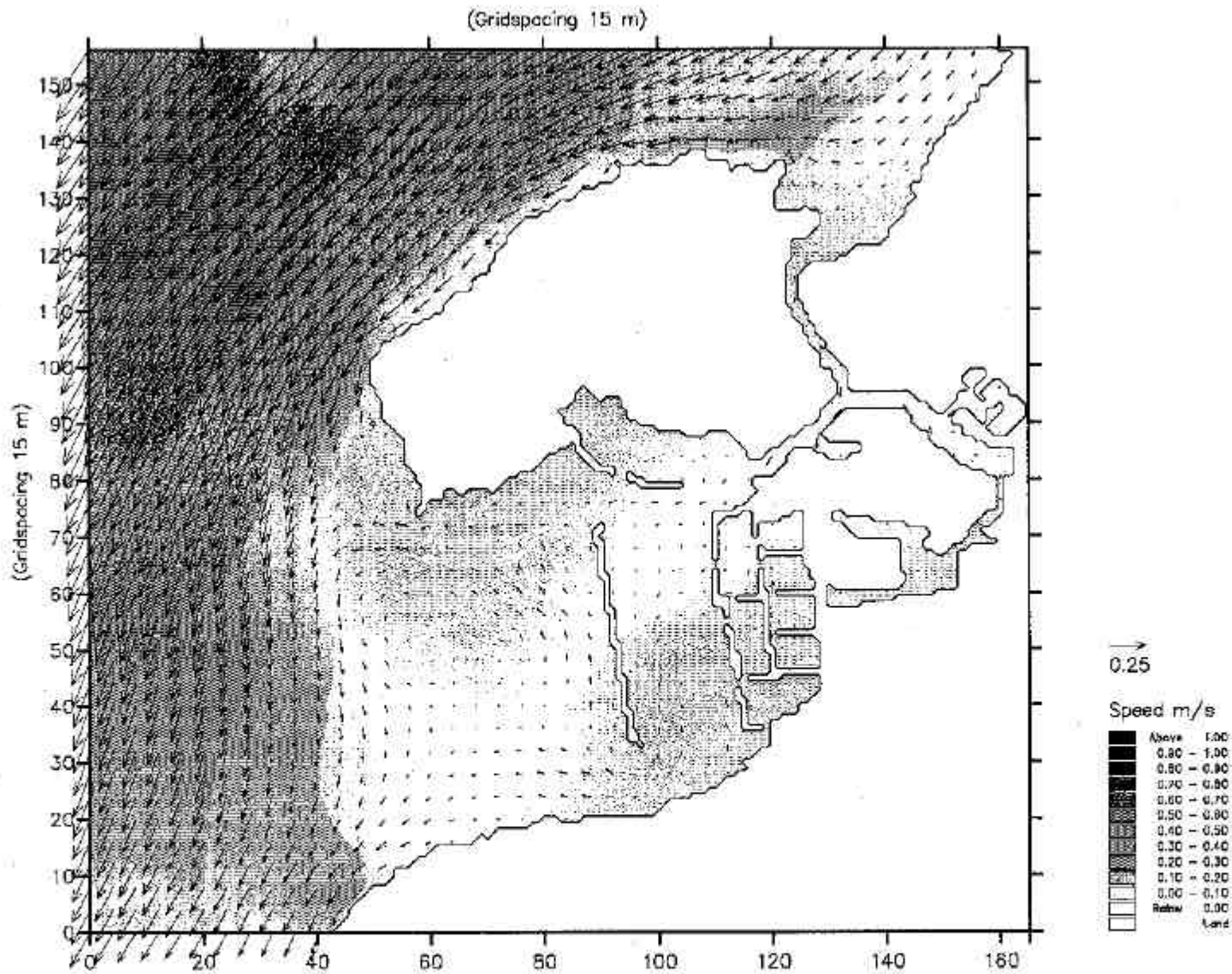



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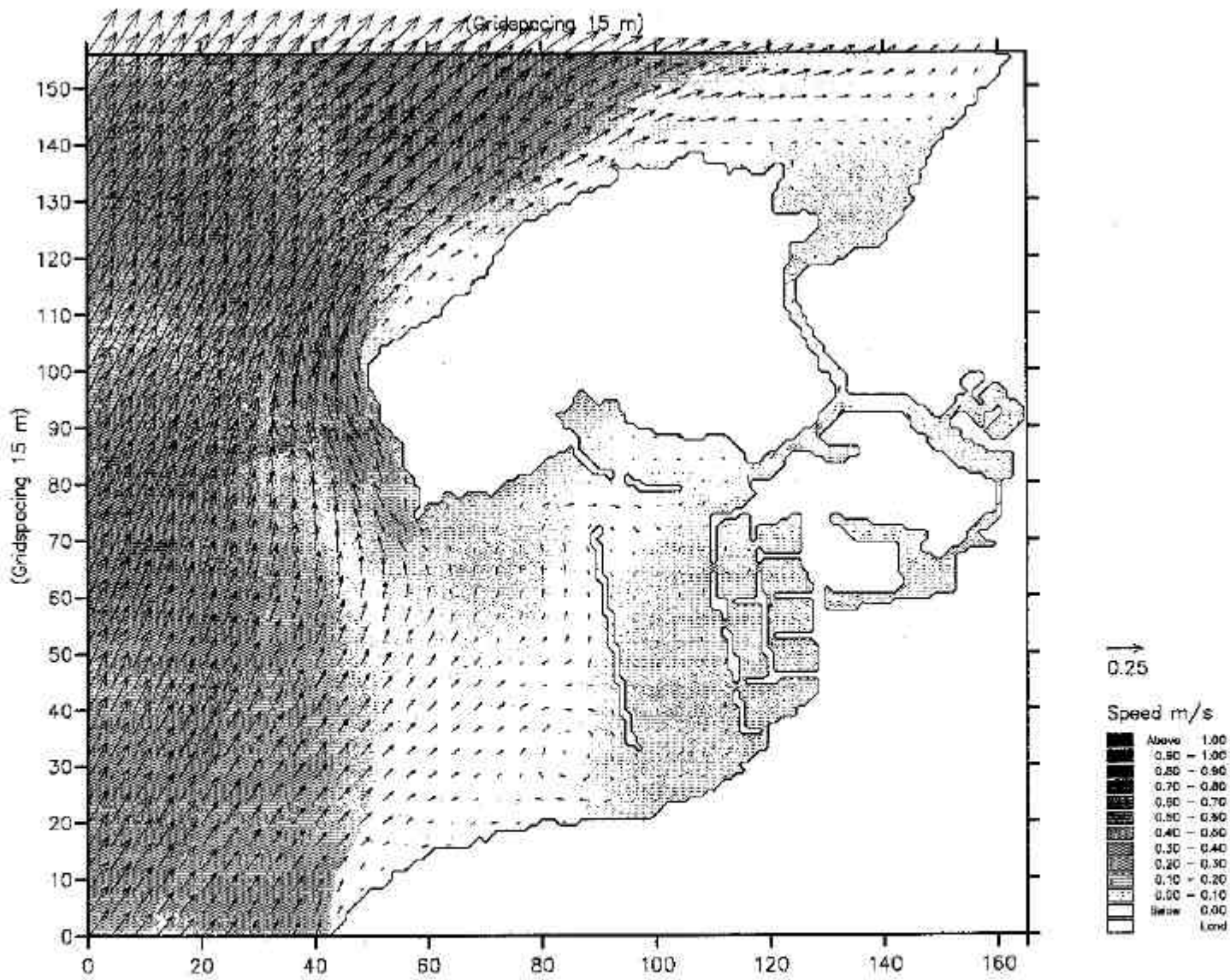
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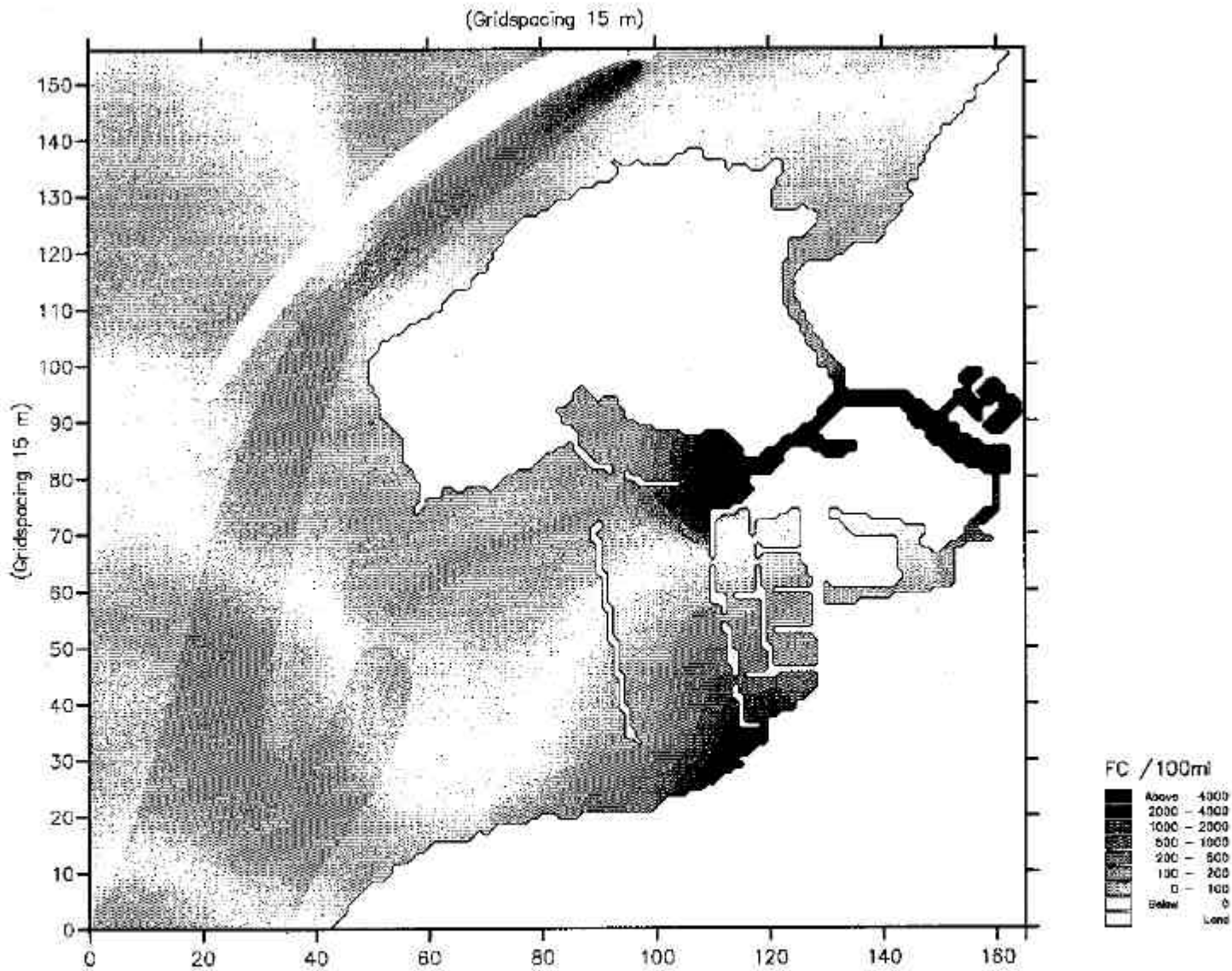
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Code: E17100	int: mwb		




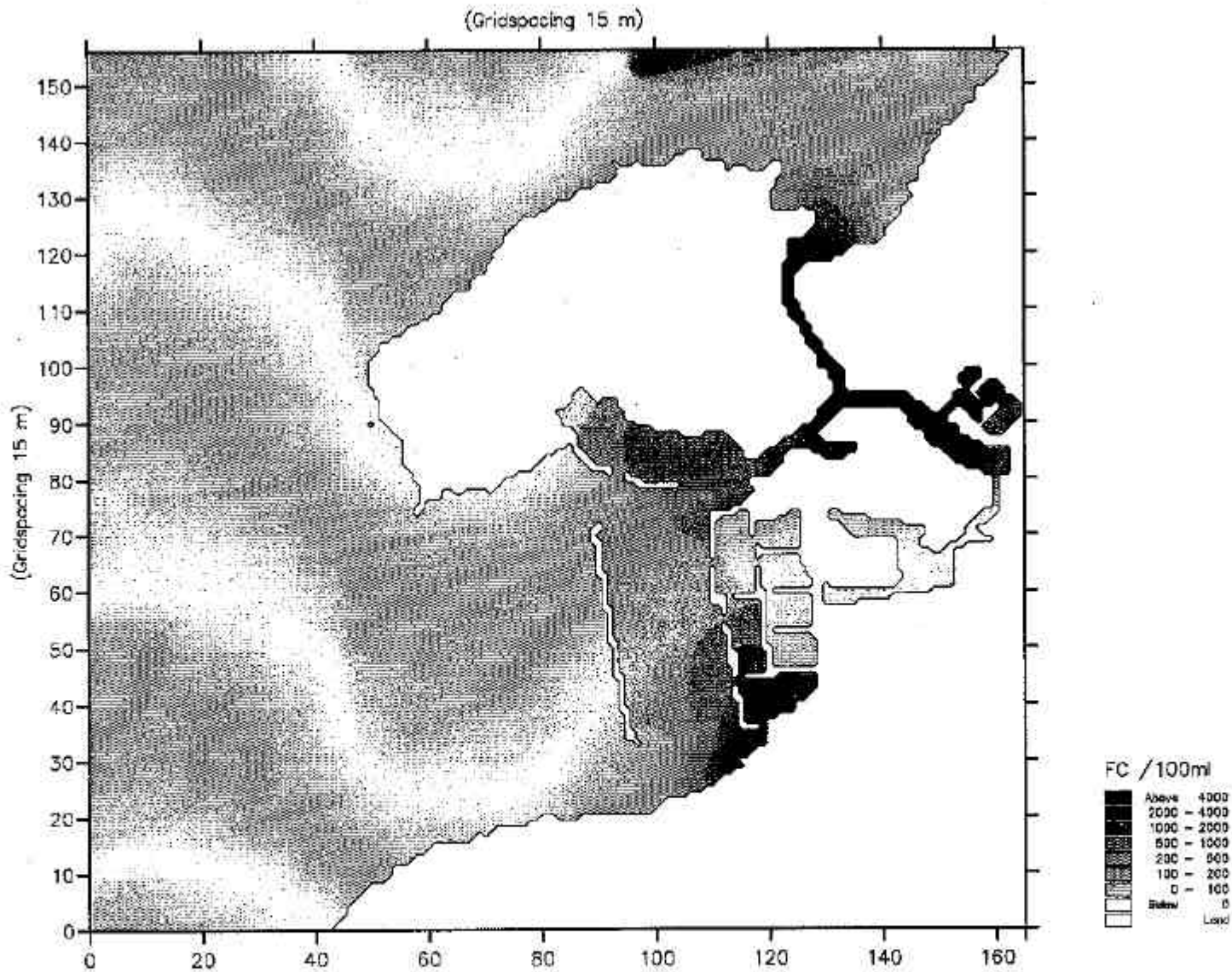
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File:	Date: Wed Jun 23 1999	Hydrodynamics of Tai O Ebb, Neap Tide, Dry Season, Operational	
Scale: 1:17100	hit: mwb		




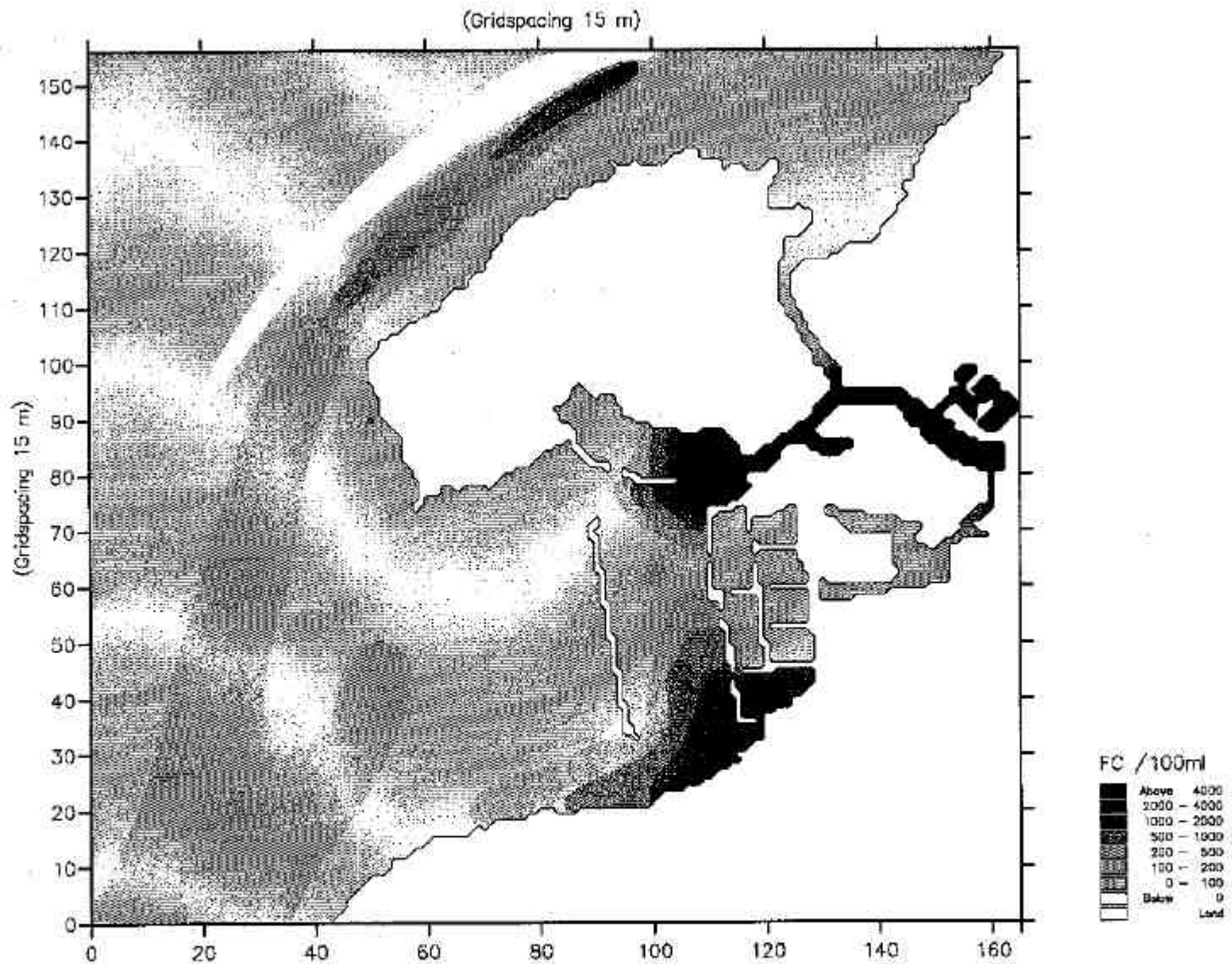
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File:	Date: Tue Aug 31 1999	Hydrodynamics of Tai O Flood Neap Tide, Dry Season Operational	
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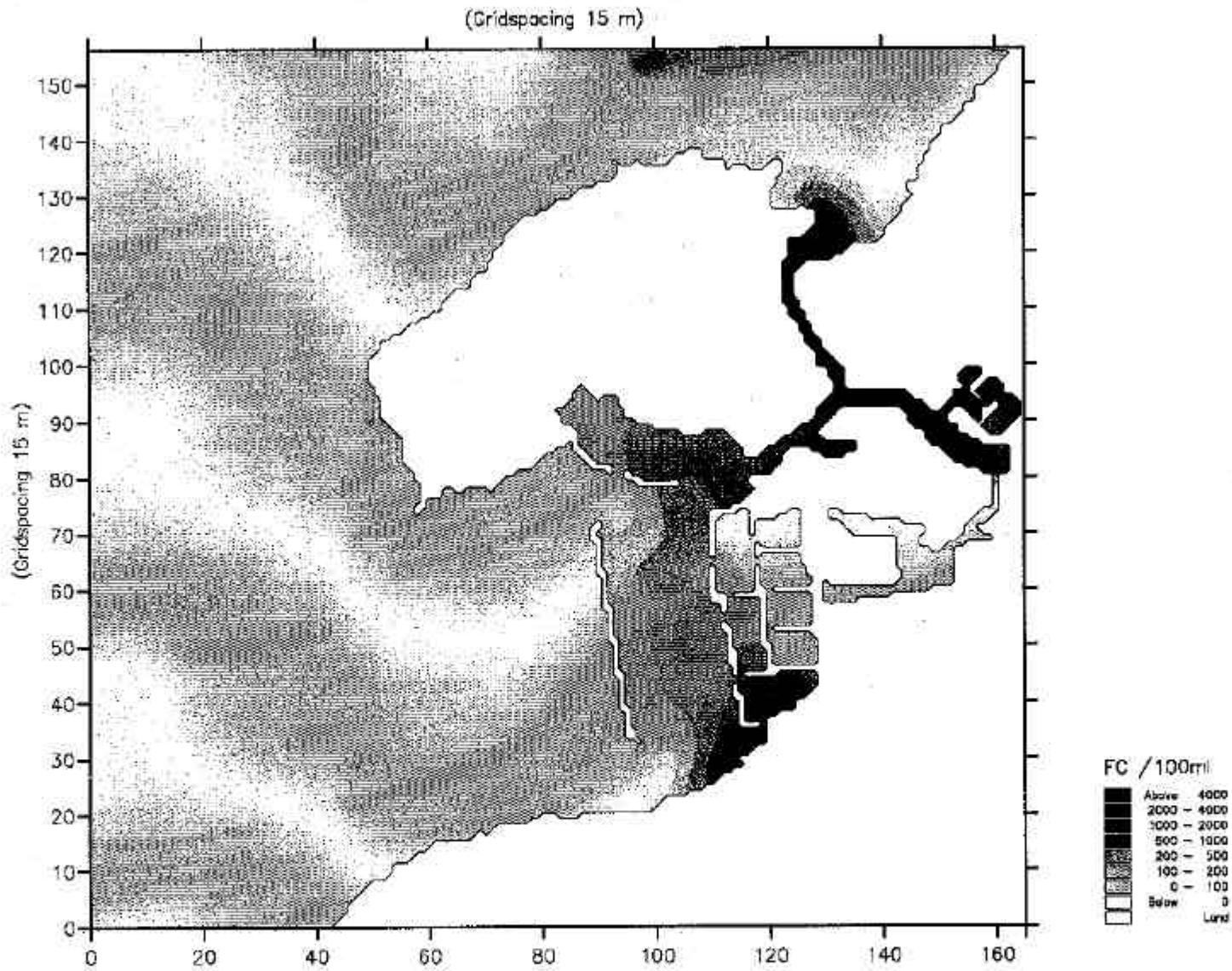
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Scale: 1:7100	Int: mwb		




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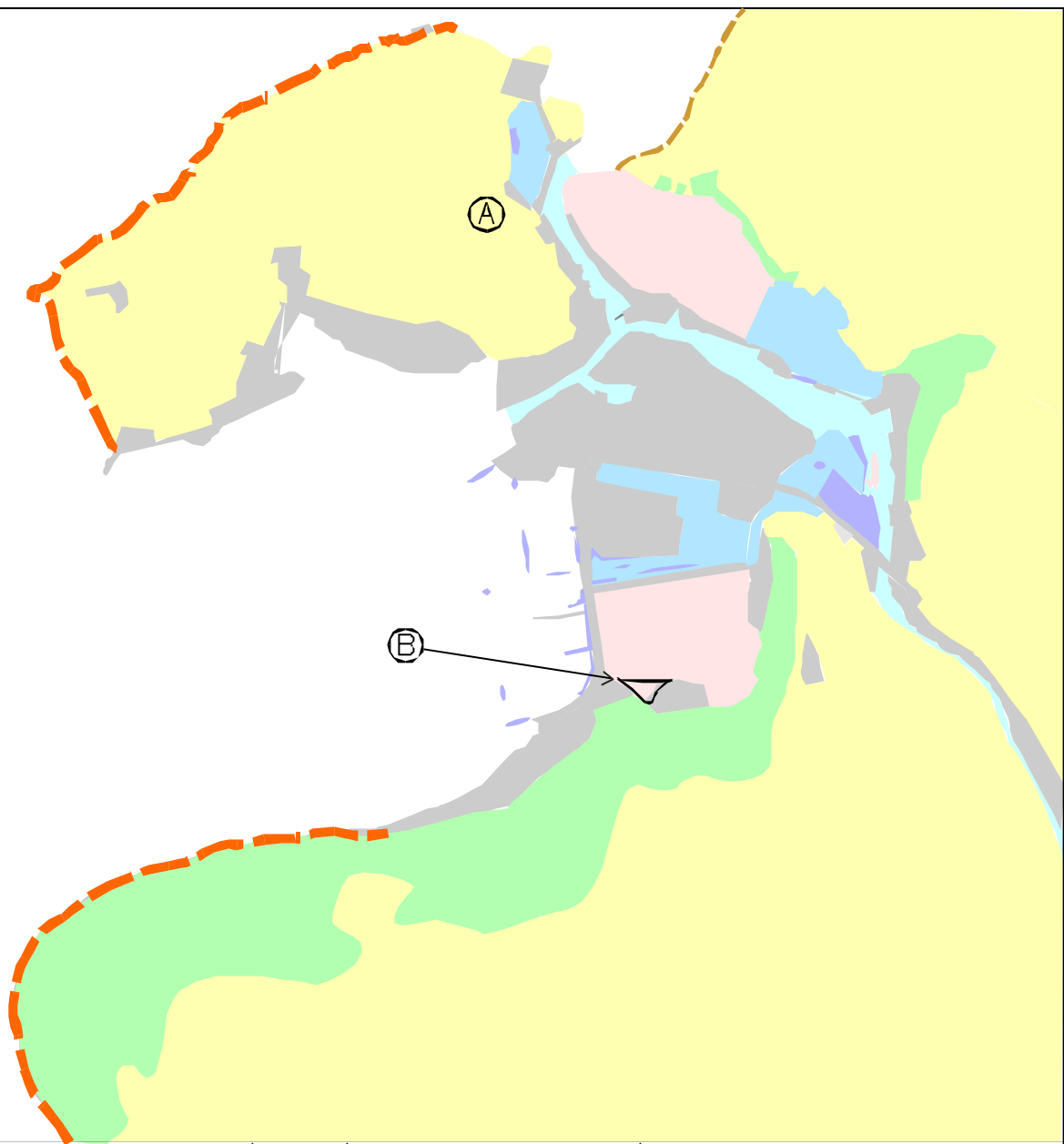


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Scale: 1:17100	Int: mwb		



		Client:	
		Project:	
File:	Date: Tue Jun 22 1999	FC Concentrations Flood, Neap Tide, Dry Season	
Scale: 1:17100	Int: mwb		

- Woodland
- Shrubland/Grassland
- Developed
- Mangrove
- Marsh/Reedbed
- Fish Ponds
- Stream
- A Tai O Egrety
- B Leung Uk Marsh
- Natural Coastline

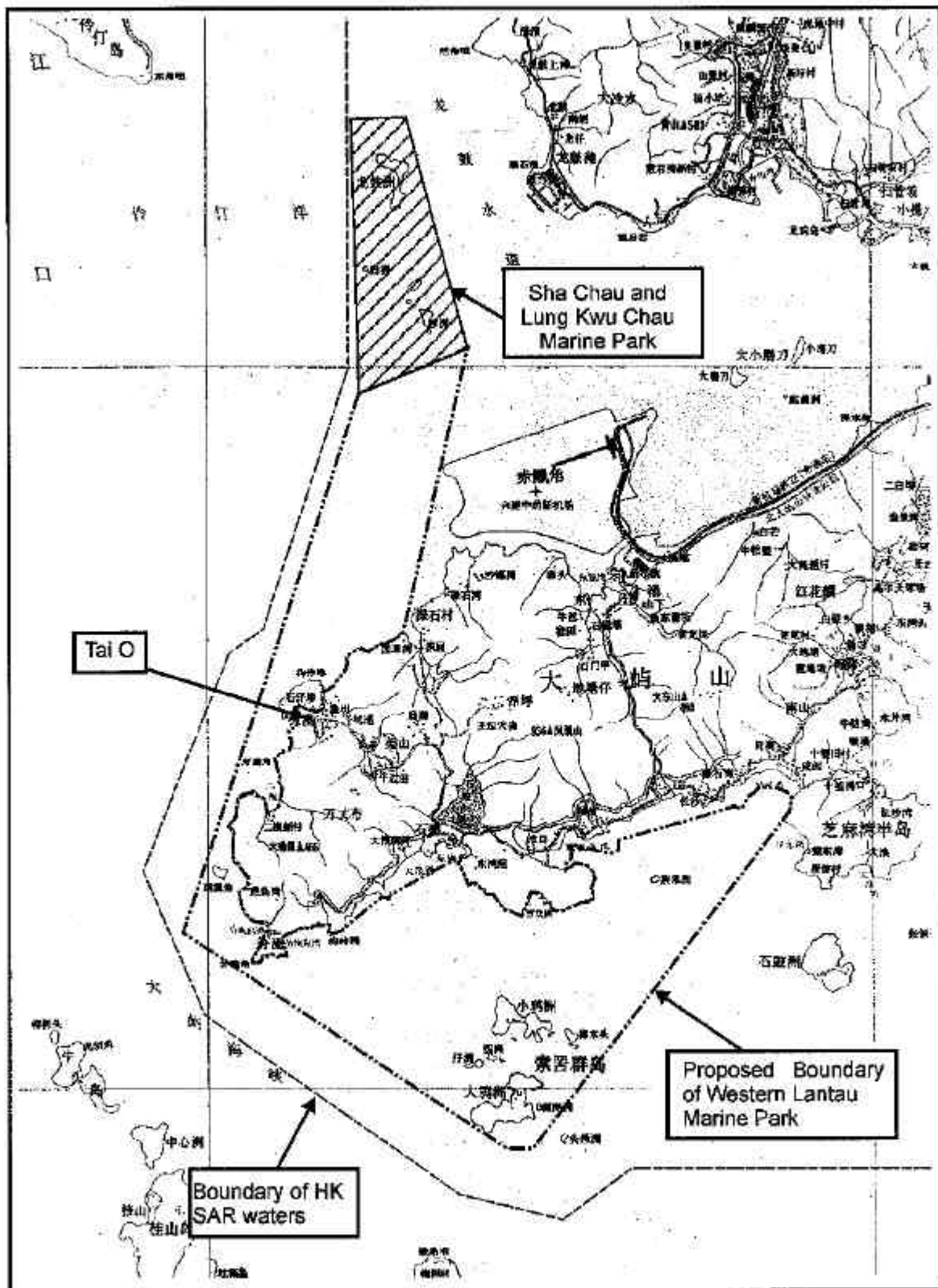


Habitat Map of Tai O Study Area and the Vicinity.

Figure	0.1	
Drawn Mee-ling	Checked RJF	Date 11/98
Scale NTS	Client	

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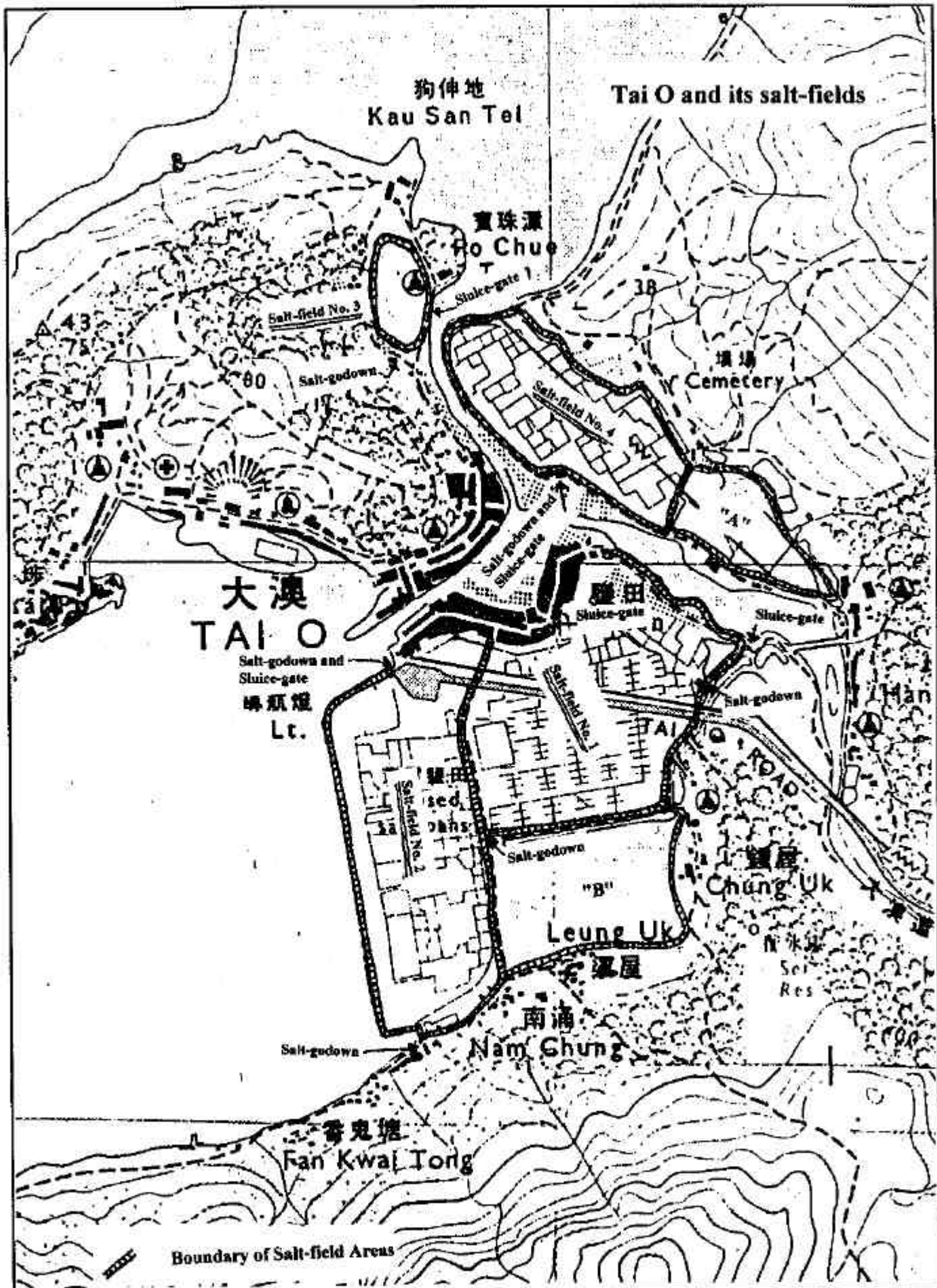


Location of Lung Kwu Chau and Sha Chau Marine Park and the proposed boundary of Western Lantau Marine Park in relation to Tai O.

Figure	6.2		
Drawn	Mee-ling	Checked	RJF
Scale	NTS		
Date	11/88		
Status			

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Title
GENERAL ARRANGEMENT
OF SALT FIELDS AT TAI O

Figure No.
圖別編號 8.1

Drawn
設計

Checked
校核

Date
日期

Scale
比例

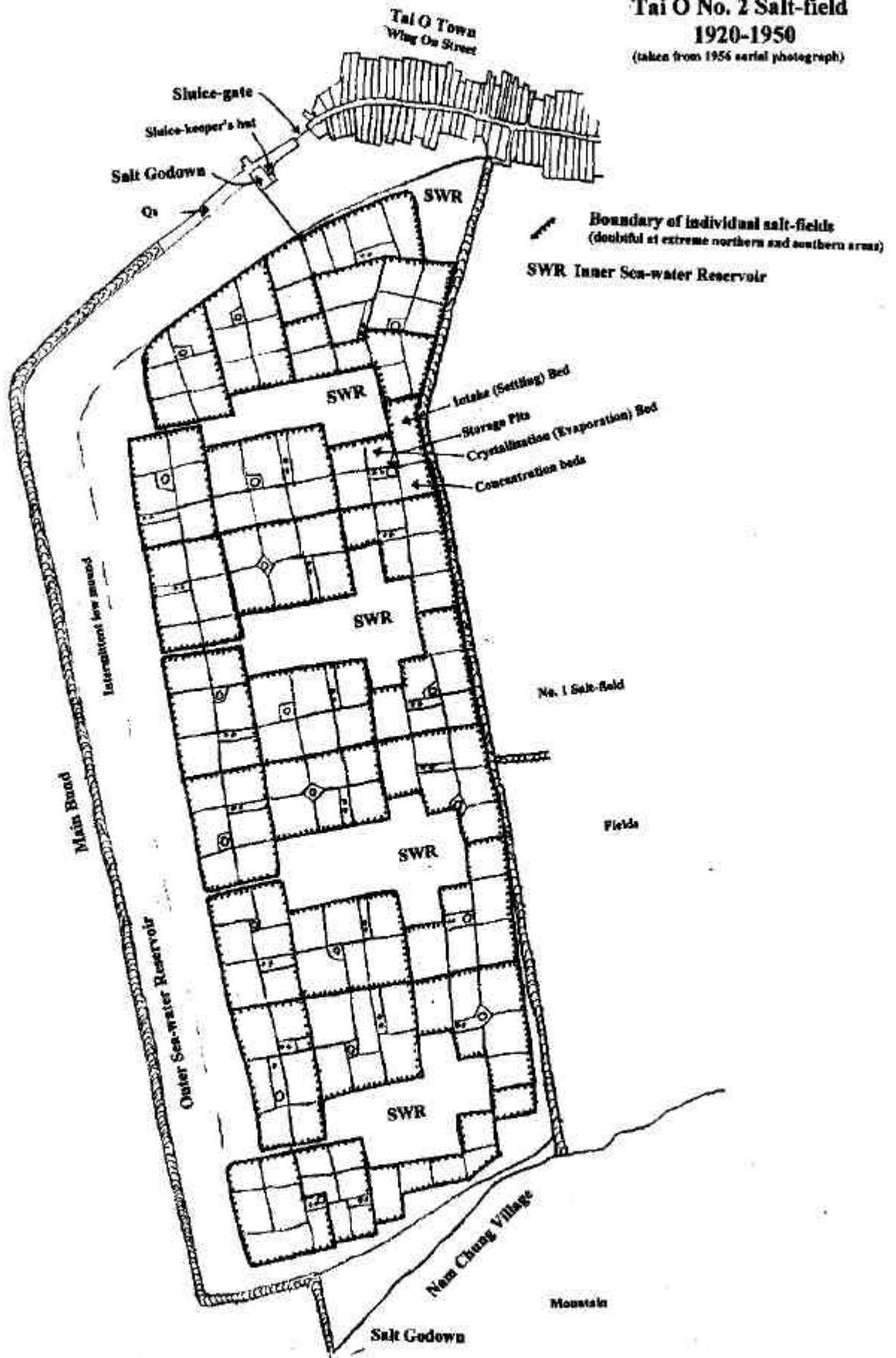
Status
現況



TAI O SHELTERED
BOAT ANCHORAGE
(AGREEMENT CE 4/98)

偉信
Scot +
Wilson

Tai O No. 2 Salt-field
1920-1950
 (taken from 1956 aerial photograph)



Title ARRANGEMENT OF SALT FIELD
 NO.2 (PROPOSED MANGROVE
 PLANTING AREA) 1920-1950

Figure No. 8.2
 圖則編號

Drawn
 設計

Checked
 覆核

Date
 日期

Scale
 比例

Status
 現況



TAIO SHELTERED
 BOAT ANCHORAGE
 (AGREEMENT CE 4198)



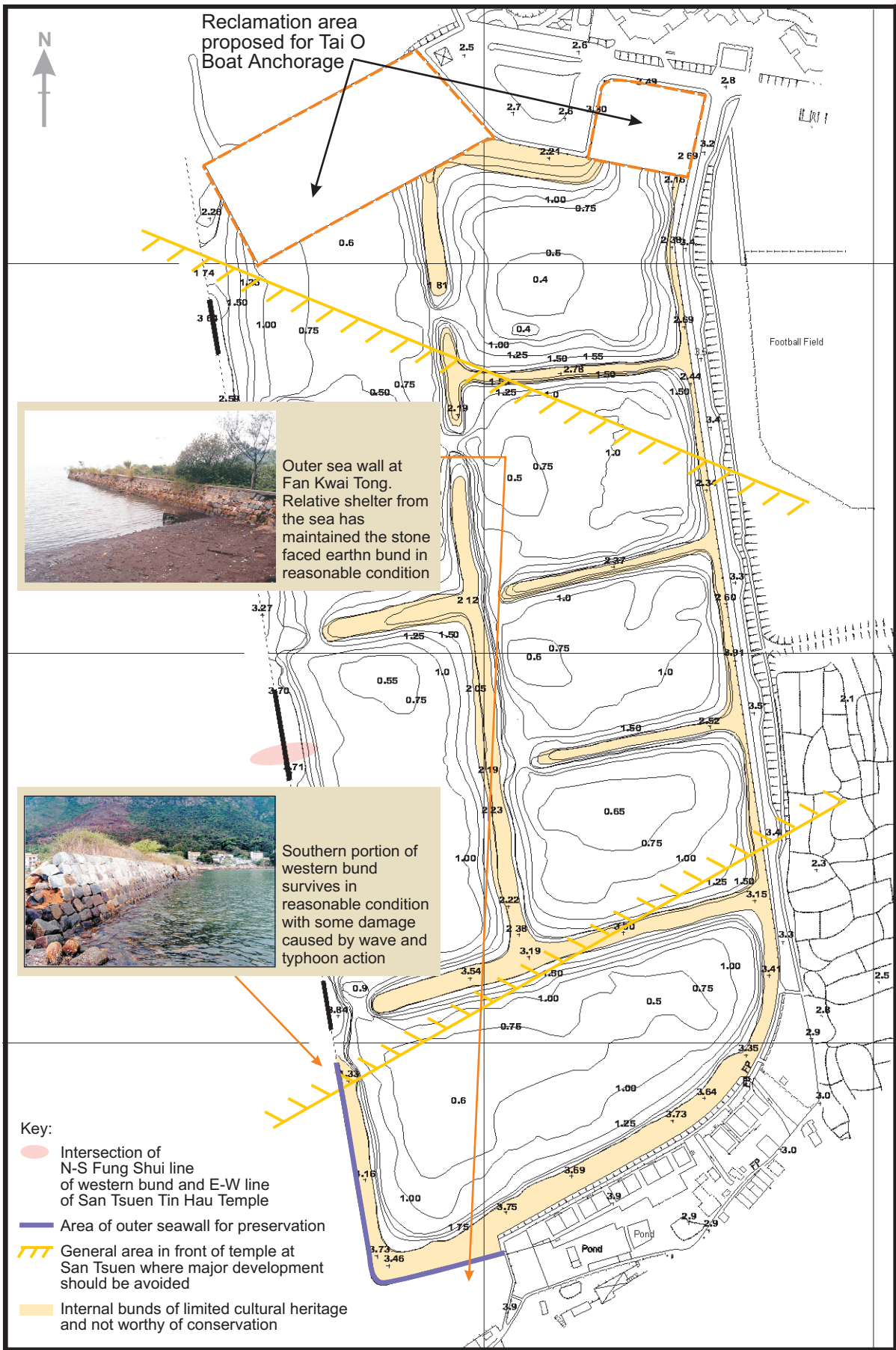
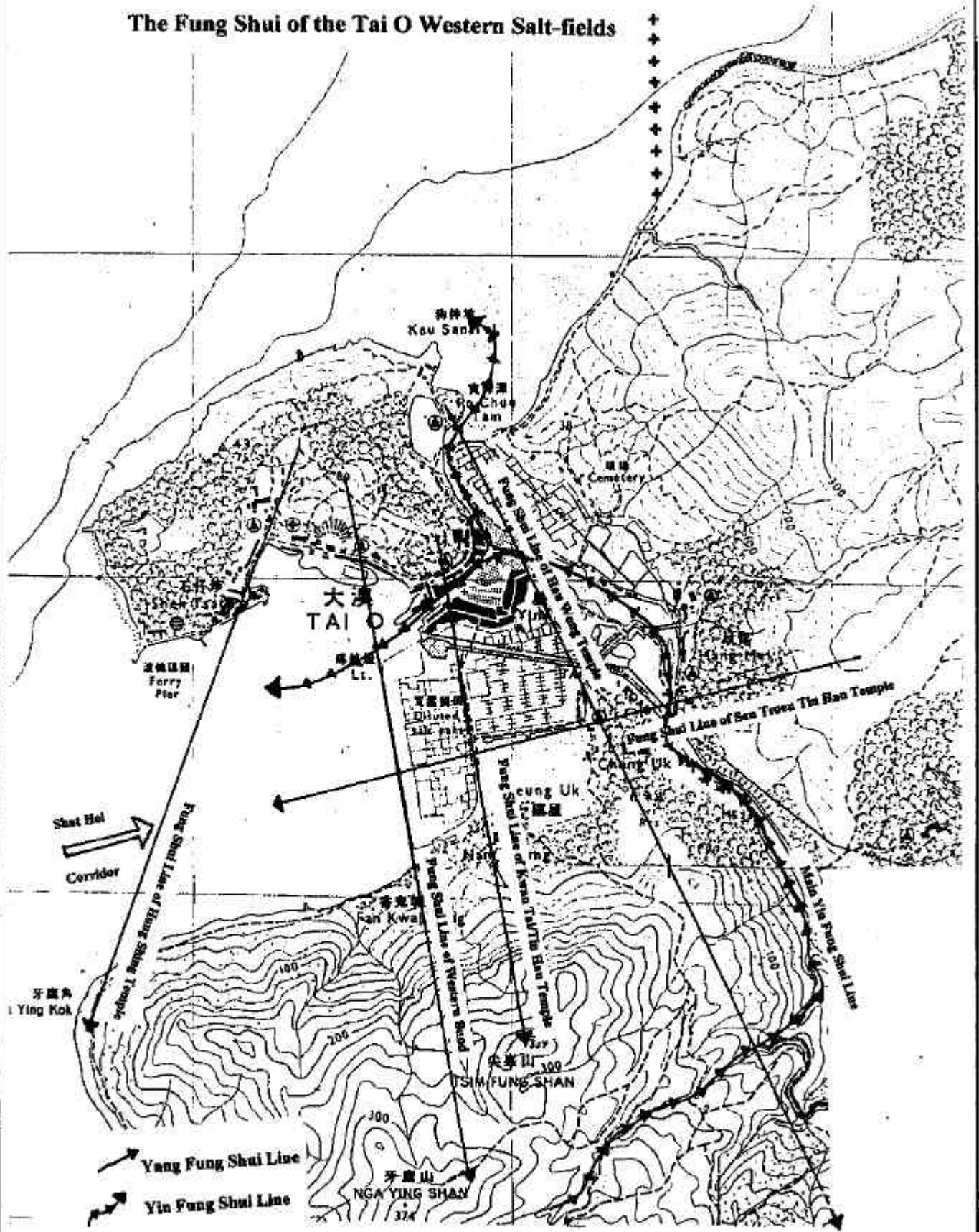
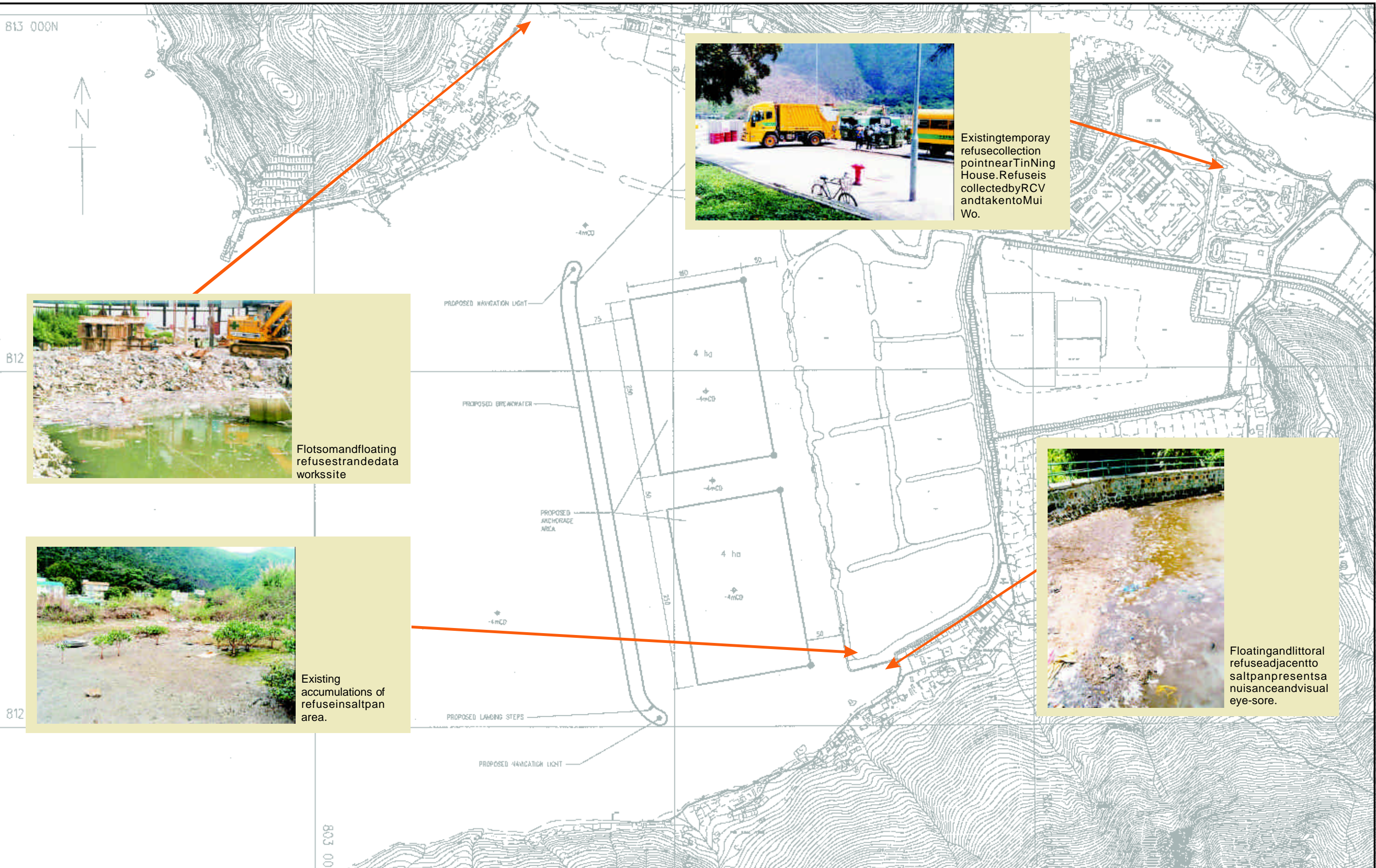


Figure 8.3 Existing Cultural Heritage Interest of the Salt Pans

The Fung Shui of the Tai O Western Salt-fields



<p>Title FUNG SHUI OF THE STUDY AREA</p>	<p>Figure No. 圖則編號 8.4</p>			
<p>TAI O SHELTERED BOAT ANCHORAGE (AGREEMENT CE 4/98)</p>	<p>Drawn 設計</p>	<p>Checked 校核</p>		<p>Date 日期</p>
<p>Scale 比例</p>		<p>Status 現況</p>		



Existing temporary refuse collection point near Tin Ning House. Refuse is collected by RCV and taken to Mui Wo.



Flots and floating refuse stranded at data worksite



Existing accumulations of refuse in salt pan area.



Floating and littoral refuse adjacent to salt pan presents a nuisance and visual eye-sore.