

I N T R O D U C T I O N

The Cook County Council is circulating a questionnaire to the residents of Makorori Beach to obtain a better understanding of the effect that water has on land stability there. The questionnaire will be used in conjunction with the water table measurements and field surveys which are being conducted at present.

Your answers are important for evaluation purposes, therefore too much detail is better than too little. If, however, you feel that discussion of any particular matter would be beneficial please call Julie Edwards, Cook County Council.

After you have completed this questionnaire, it can be posted back to the Cook County Council. All replies will be treated confidentially and used only for the purposes of this study.

Again, please do not hesitate to contact this office if you have any queries or would like to discuss this matter. Thank you for your co-operation.

Yours faithfully,

R.D.R. Elliott,
COUNTY ENGINEER.

per J. Edwards,
ENGINEER'S ASSISTANT.

Q U E S T I O N A I R E

PLEASE circle appropriate answer e.g. YES/NO, PLEASE use location map or extra paper if you require.

1 ADDRESS :

2 Approximately how long have you lived at the above address?
..... years months.

3. Have you lived elsewhere on Makorori Beach? YES/NO
If so, please give brief details of whereabouts and duration.

4.
.....

5. Are you the original owner of the section? YES/NO

6. Did you see the bare section before your house was built? YES/NO

7. Tick the appropriate boxes if you saw the original construction or any repairs to any of the following on your section :

- | | |
|-----------------------------------|---|
| House Foundations | Septic Tank |
| Water Storage Tank and Foundation | Drainage from House to Septic Tank to Soakage Trenches. |
| Retaining Walls | |

8. Have there been any slips or ground movements on your Section? YES/NO

If yes, describe size and mark location on the map provided (red pen best). When did it occur?

.....
.....

9. Are there any areas of ground on your section which dry out and crack badly in summer? YES/NO

10. Are there any areas which are wet throughout the year? YES/NO

11. Are there any springs or seepages which flow at anytime during the year? YES/NO

12. Are there any areas on your section where water runs off disappears or soaks into the ground? YES/NO

13. Does ponding of water occur for any significant period of time after heavy rainfall? YES/NO

Please indicate the location of surface trenches or piped drains etc on the map provided.

14. Do you know where your septic tank and soakage field is installed? YES/NO

Please indicate on the location map.

15. Have you ever had problems with septic tank/soakage fields? YES/NO
E.G. (a) Smell (b) Overflow.

16. Is the soakage field ever wet underfoot for any significant period? YES/NO

Please ring one of the following which best describes your house and its foundations.

- 17. A. Timber weatherboard house on normal small concrete footings.
- B. House with brick, blockwork or concrete walls including timber houses on blockwork basement.
- C. Pole house.
- D. House with long timber or concrete piles.
- E. Other (Please describe)
- F. Not sure.

18. Have you noticed any cracks or other movement in your house/buildings/paths/retaining walls? YES/NO

If yes, please describe.

.....
.....
.....

19. Has any fill been placed on your section (e.g. from house excavations or behind retaining walls) YES/NO

20. Have any excavations been made on your section. YES/NO

(Please indicate any filling and excavations on the plan provided, if less than 400 mm deep, please ignore.

21. Have you installed any retaining walls? YES/NO

If so were there any problems during construction? YES/NO

22. Please describe.

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COMMENTS :

23. Please make any other comments which you feel may be relevant and are not covered in the above questionnaire.

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SUMMARY OF QUESTIONNAIRE RESULTS

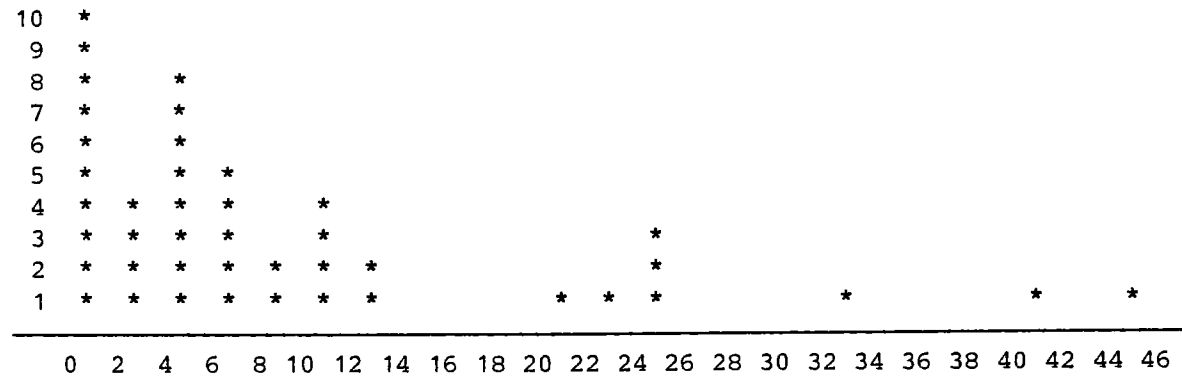
Question
Number

1 44 households out of 49 responded (90%)
 Questionnaires not received from Lots 2, 8, 23, 38 & 60

2 Period of tenure varied from 2 months to 44 years
 Average period of tenure approximately 9.5 years

Histogram of period of tenure

Number of
Households



Period of tenure (years)

Note: all percentages which follow relate to the total number of questionnaire replies (i.e. 44 No. = 100%)

3 & 4 9 families have lived elsewhere in Makorori Beach (21%)

5 3 original owners of sections (7%)

6 6 saw the bare section before their house was built (14%)

Question Number		<u>No.</u>	<u>%</u>
7	Construction or repairs viewed by owners		
	Foundations	14	32
	Water Storage	18	41
	Retaining Walls	19	43
	Septic tank	17	39
	Drainage	16	36

8	10 sections have had ground movement or slips		23

9	16 sections have patches of ground which dry out and crack in summer		36

10	6 sections have wet patches throughout the year		14

11	12 sections have springs or seepage areas		27

12	10 sections have areas where run off disappears or soaks into the ground		23

13	4 sections have areas that pond after heavy rain		9

14	42 families know where their septic tank and soakage field are located		

Question Number		<u>No.</u>	<u>%</u>
15	Problems with septic tanks:		
	<u>Problem</u>	13	30
	smell	8	18
	overflow	6	7
	not specific	5	11
16	Soakage field wet underfoot	4	9
17	Types of house and foundation:		
	a) timber weatherboard house on normal small concrete footings	17	38
	b) house with brick blockwork or concrete walls including timber houses on blockwork basement	10	23
	c) pole house	1	2
	d) house with long timber or concrete piles	6	14
	e) other	10	23
18	Cracks	15	34
19	Fill	15	34
20	Excavations	19	43
21	Retaining walls installed	23	52
22	Retaining wall construction problems	1	2