	Type of waste	Weight (g)			Number of item			
		January	February	March	January	February	March	
1	Food waste							
2	Paper							
3	Plastics							
4	Polystyrene							
5	Textile							
6	Rubber							
7	Wood							
8	Glass							
9	Metal							
10	Aluminium							
11	Bulky waste							
12	Others							
	Total							

Appendix A: Categories of debris

Appendix B: Questionnaire



A) Background study

1.	Age:	<18 18-25 26-40 >40	
2.	Gender:	Female Male	
3.	Race:	Malay/Bumis Indian Chinese Others	
4.	Religion:	Muslim Hindu Buddhist Christian	
5.	Education leve	: Primary Secondary Tertiary Others	
6.	Marital status:	Single Married/ Had married	
7.	Occupation:	Govt. servant Private/own Student Ot	thers
8.	Monthly incom	e: RM1000-5000 >RM5000 Not applicable	

B) Information on beach users

1. Type of user: 3. Duration of time spent on beach: Visitor/ tourist > 1 hour Locals/ resident 1-5 hours Workers >5 hours Others 4. Frequency of visit 1st time 2. Distance from home: Less than 10 times <30 km Occasionally 30-100 km Regularly >100 km

C) Awareness and attitude of beach users

2. If you have been to this beach, how do you compare the cleanliness?

- No changes Better Worst Not applicable
- 3. What is your basis of choosing this beach, if you come for holiday/ picnic?
 Accessibility
 Beauty and cleanliness
 Affordable holiday
 Facilities and activities

Not applicable

- 4. Are you satisfied with the facilities provided?
 - Satisfactory Acceptable Unsatisfactory Others, _____
- 5. In your opinion, where does the beach user usually throw their rubbish? Provided dustbin



- 6. Can you see any signage forbidding litter on the beach?
- 7. Do you feel responsible towards litter that you see on the beach? Yes
 - No

8. In your opinion, what is the most common type of waste that can be found on beach?

Wrapper/ container/ plastic bags, cans, etc.
Dried leaves, seashells
Abandoned nets, fishing gears
Others,

9. In your opinion, is it proper if beach user need to pay for fee in order for the responsible body to work more efficiently?

Fair
Unfair
Depend on amount

10. Will you suggest this beach to your friend/ family for holiday/ visit?

Yes
No

11. In your opinion, what is the cause of littering on beaches?

La	ck	of	fac	cil	itie	es	such	a as	garbage	bins

Attitude of the beach users

Others

D) Knowledge of beach user

1. In your opinion, who is responsible towards litter found on beach? Beach users

Nearby residents

Municipalities

Others

2. In your opinion, what will happen to the litter left on beaches?

Collected by the municipalities

Degrade naturally

Pull by waves towards the sea

Others

- 3. In your opinion, what is the MAJOR impact from beach littering? Disturbing the wildlife and the ecosystem
 - Make the beach appear dirty



Others

E) Preferences in beach holiday aspects

- 1. What is your preference in choosing the beach for a holiday/ visit?
 Accessibility
 Beauty and cleanliness
 Not crowded with other users
 Activities available
 - Abundant facilities
- 2. What is your favorite activity to be done on beach?

Sightseeing/ strolling

Built sand/ collect seashells

Swimming/ snorkeling, etc.

Water-sport activities

- Picnic with families and friends
- 3. Where do you rank beach holiday to other type of vacation?
 - Indoor activities/ shopping, etc.
 - Visit historical places

River/ lakes activities

Beach activities

Activities in jungle/ mount climbing, etc.

Appendix C: SPSS Output

Gender and responsibility

	Cases							
	Valid		Miss	sing	Total			
	Ν	Percent	Ν	Percent	Ν	Percent		
Age * Responsible	180	100.0%	0	.0%	180	100.0%		
Gender * Responsible	180	100.0%	0	.0%	180	100.0%		
Education * Responsible	180	100.0%	0	.0%	180	100.0%		
Income * Responsible	180	100.0%	0	.0%	180	100.0%		

Case Processing Summary

Crosstab							
			Respo	nsible			
			Yes	No	Total		
Gender	Female	Count	53	42	95		
		% within Gender	55.8%	44.2%	100.0%		
	Male	Count	28	57	85		
		% within Gender	32.9%	67.1%	100.0%		
Total		Count	81	99	180		
		% within Gender	45.0%	55.0%	100.0%		

Chi-Square Tests

			Asymp.Sig.(2-	Exact Sig. (2-	Exact Sig. (1-		
	Value	df	sided)	sided)	sided)		
Pearson Chi-Square	9.462 ^a	1	.002				
Continuity Correction ^b	8.562	1	.003				
Likelihood Ratio	9.569	1	.002				
Fisher's Exact Test				.003	.002		
Linear-by-Linear	9.410	1	.002				
Association							
N of Valid Cases	180						

a. 0 cells (.0%) have expected count less than 5. The minimum expected count is 38.25.

b. Computed only for a 2x2 table

Education and favorable fee

		Cases					
	Valid		Miss	sing	Total		
	Ν	Percent	Ν	Percent	Ν	Percent	
Education * Fee	180	100.0%	0	.0%	180	100.0%	

Education * Fee Crosstabulation							
				Fee			
					Depend on the		
			Fair	Unfair	fees	Total	
Education	Primary school	Count	1	12	3	16	
		% within Education	6.3%	75.0%	18.8%	100.0%	
	Secondary school	Count	17	51	11	79	
		% within Education	21.5%	64.6%	13.9%	100.0%	
	Tertiary education	Count	22	37	22	81	
		% within Education	27.2%	45.7%	27.2%	100.0%	
	Others	Count	0	2	2	4	
		% within Education	.0%	50.0%	50.0%	100.0%	
Total		Count	40	102	38	180	
		% within Education	22.2%	56.7%	21.1%	100.0%	

Case Processing Summary

Chi-Square Tests

			Asymp. Sig. (2-
	Value	df	sided)
Pearson Chi-Square	12.167 ^a	6	.058
Likelihood Ratio	13.440	6	.037
Linear-by-Linear	.218	1	.641
Association			
N of Valid Cases	180		

a. 5 cells (41.7%) have expected count less than 5. The minimum expected count is .84.

Symmetric Measures

		Value	Approx. Sig.
Nominal by Nominal	Phi	.260	.058
	Cramer's V	.184	.058
N of Valid Cases		180	