

UNEP-Caribbean Environment Programme/Regional Coordinating Unit

TERMINAL REPORT

Implementing Organization: Soufriere Marine Management Association

Project/MOU No.: CRL-2324-2024-2661-310600

Project/MOU Title: Socioeconomic Monitoring in Soufriere Marine Management Area

1. Project Needs and Results

Soufriere is a small town located on the south west coast of St. Lucia. The area is an established tourist destination and sustains an important artisanal fishery and has numerous local recreational areas. The Soufriere Marine Management Area (SMMA) is a marine park established to protect and conserve marine resources particularly the well-developed fringing coral reefs which is important to both the fishing and tourism sectors. Geographically, part of the SMMA also falls within the designated Pitons Management Area which is the only World Heritage Site in St. Lucia.

The SMMA was formally established by the Government of St. Lucia on July 1st, 1995 with technical assistance from the French following a series of stakeholder consultations and negotiations with an aim to conserve natural coastal and marine resources and facilitate sustainable use of the area. The Agreement to Manage the Soufriere Marine Management Area was reviewed in 1998 and again in 2003. In 2005, a ten year institutional review of the Soufriere Marine Management Association was conducted. Included in the review was a proposed socioeconomic monitoring to provide a baseline for future monitoring.

Awareness of the social and economic factors affecting the SMMA will allow the management staff to tailor management strategies to suit the current socioeconomic climate. This information gleaned from socioeconomic monitoring will also be used to demonstrate to the public and to policy makers the importance of protecting the coastal and marine environment and garner support for revising and implementing new management policies.

2. Project activities

1. Stakeholder Consultation: The first phase of the project involved sensitization of relevant stakeholders to the objectives of the project. A workshop was held on 30 January 2007 to discuss the objectives and form an assessment team. A total of nineteen (19) participants attended this workshop and all persons gave the project their full support.
2. Data collection through secondary sources: Reports from previous institutional reviews and projects with a socioeconomic component were compiled and used as references.
3. Data collection through surveys: Through a collaborative process involving staff from the SMMA, Department of Fisheries (DOF) and Central Statistics Office (CSO) a comprehensive survey instrument was developed. A total of 200 surveys were conducted on various users of the coastal and marine environment encompassing the SMMA. The users were subdivided into the following groups: Households within the Soufriere community (120), Fishermen (40), Divers/Snorkellers (17), Hotels and Small Business Owners/Managers (8) and Boatmen (15) were surveyed (Table 1.).

Table 1. Sample size of SMMA users

Group	Population	Sample %	Sample size	Response %
Households	4872	2.5%	120	100
Dive Operators	13	100%	13	92
Tour Operators	11	30%	4	50
Yachtsmen	24	30%	7	29
Fishermen	166	25%	40	88
Water Taxi Operators/boat boys	26	30%	8	100
Hotels	4	100%	4	175
Restaurants/Small Businesses	11	30%	4	125
Total	5127	3.9%	200	

Five enumerators were trained and sent out in the field for data collection from 25 July – 15 August 2007. Data entry into a database developed by the SMMA Project Officer commenced on August 21. This data will be imported into a dedicated statistical program (SPSS) for detailed analysis at the Central Statistics Office.

4. A workshop is being planned for presentation of the project report and is scheduled for October 15, 2007.

3. Project outputs

List the actual outputs produced under the following headings (Please tick appropriate box)

- ✓ A number of participants at the workshop generally agreed that SMMA has strayed away from its objectives and mandate as outlined in the SMMA Agreement. As such, a consensus was reached on the need to redefine or adapt the Agreement objectives.
- ✓ Perceptions varied as to the level of awareness of the Soufriere populace of the objectives and role of SMMA.

(a) WORKSHOP

Title: Stakeholder Consultation on Socioeconomic Assessment of the Soufriere Marine Management Association

Venue and dates: Soufriere Regional Development Foundation Conference Room 30 January 2007

Convened by SMMA Organized by Nadia Cazaubon

Report issued as doc. No/Symbol _____ Languages _____ Dated _____

For Training Seminar/Workshop, please indicate: No. of participants 19 and attach **annex** giving names and nationalities of participants.

(b) **MEETING**

Title: Survey Instrument Development Meeting

Venue and dates: Sustainable Development conference room 22 March 2007

Department of Fisheries conference room 10 May 2007

Convened by SMMA Organized by Nadia Cazaubon

Report issued as doc. No/Symbol _____ Languages: English Dated _____

For Training Seminar/Workshop, please indicate: No. of participants _____ and attach **annex** giving names and nationalities of participants.

(b) **PRINTED MATERIALS**

Report Technical Publication Technical Report Others

Title: Socioeconomic Survey Instrument

Author(s)/Editor(s) Nadia Cazaubon, Dawn Pierre-Nathoniel, Laverne Walker, Sarita Williams-Peter, Euphemia Edmund

Publisher N/A

Symbol (UN/UNEP/ISBN/ISSN) _____

Date of publication _____

(When technical reports/publications have been distributed, attach distribution list)

(c) **TECHNICAL INFORMATION** **PUBLIC INFORMATION**

Description The original completion date for this project was slated for 15 March 2006. An extension was granted for March 2007. Due to the delay in disbursement of funds, a request was made for a further extension.

A series of technical meetings were held to determine the target population and develop a survey instrument. Consultations were held with representatives from the Department of Fisheries, Coastal Zone Management Unit and Central Statistics Office. A pilot survey was conducted and the survey has been finalized and is ready for field data collection.

A training workshop was held for all enumerators prior to data collection. Sample surveys were used to troubleshoot a database developed by the Project Officer with assistance from the Central Statistics Office. Data collected was compiled in a well organized database and will be exported to a dedicated statistical program, SPSS for analysis. The expertise of a statistician will be required for detailed statistical analyses.

Dates _____

(d) **TECHNICAL COOPERATION**

- Attachments Advisory Services
 Staff Missions Others (describe)

Purpose An economist has been identified for consultation in the data analysis phase of this project. Budgetary allowances have been adjusted to procure this service.

Place and duration _____

<u>Beneficiaries</u>	<u>Countries/Nationalities</u>	<u>Cost(in US\$)</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

(f) **OTHER OUTPUTS/SERVICES**

For example, Networking, Query-response, Participation in meetings etc.

4. Use of outputs

The socioeconomic data gathered from this project will be utilized to direct or redirect management strategies to achieve the organization’s mandate. Since the inception of the organization, some of the issues affecting the Soufriere Marine Management Area have been solved, others have evolved and new issues are still emerging.

In keeping with specific objective 1 of this project, data has been collected and we now have a better understanding of the perception of various community groups on the performance of SMMA in the past ten years. While various user groups are more au courant with the work and role of SMMA within the community, preliminary data shows there is a stark difference in the level of awareness of the existence of SMMA and its work between coastal and inland residents. There was an overwhelming call for SMMA to undertake more education and sensitization and to participate in community activities.

These results will be presented in the project report to the SMMA Board of Directors and to the following organizations: UNEP-CAR/RCU, Department of Fisheries, Department of Statistics, Coastal Zone Management Unit, St. Lucia Hotel and Tourism Association, Soufriere Regional Development Foundation and the Pitons Management Area and all interested stakeholders. The report will also be made available online on the SMMA website.

5. Degree of achievement of the objectives/results

The survey instrument which was developed was instrumental in gathering information on the perception of the public on various aspects of the Soufriere Marine Management Association. Pending further analysis, the preliminary results indicate that 90% of respondents are aware of the SMMA thus by extension, the majority of the Soufriere populace. All users of the SMMA with the exception of the households were aware of SMMA activities. Among the households, the Fond St. Jacques community was the least aware of the SMMA and coincidentally almost all of these respondents commented on the lack of education and information dissemination by SMMA to that community. Preliminary results also indicate a general consensus that the

quality/quantity and health of coral reef, fish, beaches and water quality is declining. From this it is obvious that the SMMA Communication Plan needs to be revisited and monitoring needs to be continued and the results communicated to the general public. The importance of sensitizing the public to the importance and value of our natural resources is paramount for the sustainability of these resources.

A more detailed analysis of the results of the survey will be included in the project report document. A copy of this document will be forwarded to UNEP-CAR/RCU for review.

6. Conclusions

This project was conceptualized by the manager of the SMMA following a Socioeconomic workshop held in Soufriere in 2005. The project was started in January 2007 after a Project Officer was appointed but had not attended the aforementioned socioeconomic workshop. A survey instrument was developed through governmental and organizational collaboration. Data collection was delayed till funding was made available in July 2007. In hindsight, data collection should have continued as scheduled once funding had been guaranteed.

During this period, two databases were developed simultaneously utilizing MS Access and MS Excel. Data entry and queries will be done in Access and the tables exported to Excel and SPSS for statistical analysis and creation of charts. Although the Excel database was easier to develop, data entry proved tedious due to program limitations in the number of fields that can be displayed in the form. The Access database posed an array of problems that were finally resolved and the database was made user friendly.

With only one individual for data entry the data entry period was extended due to the length of the questionnaire and the number of records to be entered. Another key lesson reiterated is the need to develop a habit of saving data after entering each record after numerous records were lost after two instances of power failure following the passage of Hurricane Dean.

7. Recommendations

- (a) Future in depth reviews of the SMMA should ideally be conducted by a private consultant or a government watchdog agency to obtain unbiased data from all stakeholders including staff of SMMA. Subsequent reviews should also be undertaken periodically every five years with a short survey and more comprehensive survey should be done every ten years.
- (b) The direction the stakeholders wanted to take this project to was too broad for a project of this size.

8. Non-expendable equipment

None

Soufriere Marine Management Association

Socioeconomic Monitoring - Stakeholder Consultation

Venue: Soufriere Regional Development Foundation conference room

Date: 30 January 2007

List of Participants

<u>Name</u>	<u>Organization</u>
1. Kai Wulf	SMMA
2. Nadia Cazaubon	SMMA
3. Hazelann Prospere	SMMA
4. Jacqueline Allain-Francois	Ministry of Social Transformation – Community Development Officer
5. Harold Andrew	Ministry of Health
6. Bernard Saltibus	Soufriere Water Taxi Association
7. Joan Alexander-Stowe	Hummingbird Beach Resort
8. Alexander D’Auvergne	Soufriere Fishermens’ Cooperative
9. Sarita Williams-Peter	Department of Fisheries
10. Daniel Medar	Department of Fisheries
11. Cornelius Isaac	Forestry Department
12. Henix Joseph	Pitons Management Area
13. Sarah George	OECS/ESDU
14. Darnell Bobb	Soufriere Regional Development Foundation
15. Donovan Brown	St. Lucia Dive Association
16. Sylvester Clauzel	Private
17. Augustin Sampson	Royal St. Lucia Police Force – Soufriere Station
18. Benny Adjodha	Harmony Restaurant
19. Peter Jackson	Private

Questionnaire No. _____

Group: _____

Interviewer's Name _____

Notes: _____

All relevant sections must be completed. The name of the "Group" at the top of the questionnaire is critical, that is, coastal resident, fisherman, diver, snorkeller, yachtsman, water taxi operator, hotelier, restaurateur, small business owner, etc. Sections A to F and K must be answered by all respondents. Sections G to J must be answered only by the specific group indicated.

A. GENERAL

1. How old are you?

15 – 19 yrs _____ 20 – 29 yrs _____ 30 – 39 yrs _____ 40 – 49 yrs _____
50 – 59 yrs _____ 60 – 69 yrs _____ 70 + yrs _____ Not Stated _____

2. Gender?

Male _____ Female _____

3. Where do you live? 

Soufriere _____ Other district (*Please specify*) _____

B. PERCEPTION ON GOALS AND OBJECTIVES

4. a) Have you heard about the Soufriere Marine Management Area ( MA_[NC2])?

Yes _____ No _____

b) If yes, why do you think that the SMMA was set up or what do you think is its role or objective?

5. Who do you think is responsible for maintaining the health of the marine environment (coral reef, fish, beaches, water quality, etc) in and around the SMMA? *Tick all that are named. Do not prompt*

Government of Saint. Lucia _____ Department of Fisheries _____ SMMA _____
Soufriere Foundation _____ Soufriere Community _____ Town Council _____
Environmental Health _____ Other _____

6. What do you perceive as the role of the SMMA Rangers?

7. What do you perceive as the role of the SMMA Manager?

8. What do you perceive as the role of the Board of Directors?

9. a) In your opinion, has the SMMA done anything for the Soufriere community that is noteworthy or that has worked well?

Yes _____ No _____

b) If yes, what has the SMMA done for the Soufriere community that is noteworthy or that has worked well?

10. a) In your opinion, is the SMMA contributing sufficiently to the Soufriere community?

Yes _____ No _____

b) If no, how can the SMMA play a more significant role in the community?

11. Do you think the SMMA is doing more than it should in the community?

Yes _____ No _____

Explain _____

C. AWARENESS

The Resource

12. a) Are you familiar with the SMMA zones? Yes _____ No _____

b) If yes, name two of these zones. _____ and _____

13. a) Are the zones you named important to the Soufriere community?

Yes _____ No _____

b) If yes, how do the named zones contribute to the Soufriere community

14. How would you describe the condition/health of the following coastal resources (beaches, coral reef, fish, water quality) in the SMMA?

Scale (5) Excellent (4) Good (3) Average (2) Poor (1) Don't Know

	10 Years Ago	Present
Fish		
Coral		
Water Quality		
Beaches		

15. What activities do you think negatively affect marine resources (coral reef, fish, water quality, beaches) within the SMMA? *Tick all that are named. Do not prompt*

Poor fertilizer and pesticide application _____ Poor sewage disposal _____

Runoff from land/sedimentation _____ Yachting and anchor damage _____

Diving _____ Litter _____ Poor planning _____

Over fishing and/or destructive fishing practices _____

Other (*Please specify*) _____

16. From among the answers provided, which activity would you say has had the greatest negative impact on SMMA resources (coral reef, fish, water quality, beaches)? (*Record all detail provided*)

17. a) Do you think that the degradation of coastal resources (coral reef, fish, water quality, beaches) affects the Soufriere community in any way?

Yes _____ No _____

b) If yes, how do you think that degradation of coastal resources (coral reef, fish, water quality, beaches) affects the Soufriere community? (*Record all detail provided*)

18. What do you think that the SMMA can do to improve the health and better manage the coastal resources (coral reef, fish, water quality, beaches) in the SMMA?

19. What do you think that you can do to improve the health of the coastal resources (coral reef, fish, water quality, beaches) in the SMMA?

Enforcement

20. Are you familiar with the rules and regulations that govern the use of the SMMA?

Very Familiar ____ Somewhat Familiar ____ Not Familiar ____ Don't Know ____

21. Name one of the rules/regulations that govern the SMMA.

22. To whom do all the rules and regulations governing the SMMA apply? (N.B. not only the one named above) *Tick all that are named. Do not prompt*

Fisherman ____ Divers ____ Snorkellers ____ Yachtsmen ____

Tourists ____ Locals ____ Everyone ____ Don't know ____

23. a) Are there any ongoing conflicts between resource users?

Yes ____ No ____ Don't Know ____ Not Sure ____

b) If yes, what is the most significant conflict that is ongoing and where is it occurring?

Conflict _____

Area _____

24. Do you have any recommendations for how this conflict can be resolved?

D. LIVELIHOODS AND ECONOMY

25. What activities are you and family members engaged in that contribute to the household's income?

Activity	Rank <i>(from [1] as the largest income earner, to the smallest income earners [2], [3] etc.)</i>

26. a) Has the establishment of the SMMA affected (positively or negatively) your income?

Yes_____ No_____

b) If yes, how has the establishment of the SMMA affected your income?

Increased _____ Decreased _____

27. Why do you think that tourists come to Soufriere? *(Tick all that apply. Do not prompt)*

Diving and/or Snorkelling _____ Yachting/sailing _____ Honey Moon _____

Pitons/World Heritage Site _____ Sulphur Springs and/or Botanical Gardens _____

Sites and attractions _____ Other *(Please specify)* _____

28. a) Has tourism in Soufriere influenced (positively or negatively) your life?

Yes_____ No_____

b) If yes, how has tourism in Soufriere influenced your life?

Positively _____ Negatively _____

29. Would you like to see tourism develop further in Soufriere?

Yes _____ No _____

Why? _____

30. What other economic (money making) activities would you like to see develop in Soufriere?

31. Do you think that the SMMA can contribute more significantly to your livelihood?

Yes _____ No _____

32. If yes, how do you think that the SMMA can contribute meaningfully to your livelihood?

E. FUTURE MONITORING

The Resource

33. Are you aware of any monitoring activities that the SMMA is doing to check on the health of the coastal resources (beaches, coral reef, fish, water quality)?

Yes _____ No _____

34. If yes, name one monitoring activity that the SMMA is doing to check on the health of the coastal resources (coral reef, fish, water quality, beaches)?

35. a) Do you see a role for yourself in assisting the SMMA with monitoring?

Yes _____ No _____

b) If yes, what role do you think that you can play to assist the SMMA with monitoring?

Enforcement

36. a) Do you think that that rules and regulations that govern the SMMA are fair and just?

Yes _____ No _____

b) To what extent do you think that people comply (voluntarily) with these rules and regulations?

Always _____ Often _____ Occasionally _____ Rarely _____ Never _____

37. In your opinion, to what extent are the rules and regulations that govern the SMMA enforced (by Rangers, Police, Department of Fisheries)?

Always _____ Often _____ Occasionally _____ Rarely _____ Never _____

38. Who do you think mostly breaks the rules and regulations that govern the SMMA? *Tick the one that is named. Do not prompt*

Soufriere fishermen _____ Fishermen from other communities _____

Divers/Snorkellers _____ Yachtsmen _____ Coastal residents from Soufriere _____

Other (*Please specify*) _____

48. Why do you think people break the rules and regulations governing the SMMA?

50. Do you feel comfortable reporting someone to the authorities (SMMA Rangers, Department of Fisheries, District Police, Marine Police) who has broken the rules and regulations governing the SMMA?

SMMA Rangers _____ Yes _____ No Why? _____

Department of Fisheries _____ Yes _____ No Why? _____

District Police _____ Yes _____ No Why? _____

Marine Police _____ Yes _____ No Why? _____

51. How do you think that a person who breaks the rules and regulations that govern the SMMA should be punished? *Tick all that are named. Do not prompt*

- No punishment _____ Depends on the offence _____ Released with warning _____
Pay a fine _____ Banned from SMMA _____ Confiscate gear/equipment _____
Put in jail _____ Other (*Please specify*) _____

52. Do you think that it is best for the SMMA Rangers to originate (come from) and reside (live) in the Soufriere community or elsewhere? *Tick one*

- Soufriere community _____ Other community _____ Does not matter _____

Why _____

53. What do you think that the SMMA can do to encourage people to comply (follow) with the rules and regulations governing the SMMA?

- Recognition (Awards) _____ Incentives (training and gear) _____
Better sensitization _____ Contribute to community activities _____
Other _____

54. What do you think that the SMMA can do to improve enforcement within the SMMA?

- Longer sentences _____ Heftier fines _____
More rangers _____ Marine Police base in Soufriere _____
Other _____

55. What do you think that you can do to assist with the improvement of compliance and enforcement in the SMMA? [*following rules and regulations and punishing those who break them*]

F. PERCEPTIONS ON PERFORMANCE

56. In your opinion, do you think that the SMMA is achieving its objectives?

Yes _____ No _____ Somewhat _____ Don't know _____

57. Do you think that the SMMA has improved marine resources, it's uses and activities? (*beaches, coral reef, fish, water quality*)

Marine Resources Yes _____ No _____

How? _____

Marine uses and activities Yes _____ No _____

How? _____

58. In your opinion, how effective are the SMMA Rangers in conducting their duties?

Very effective _____ Somewhat effective _____ Not effective _____ Don't know _____

59. In your opinion, how effective is the SMMA Manager in conducting his duties?

Very effective _____ Somewhat effective _____ Not effective _____ Don't know _____

60. Do you think that the SMMA has an adequate number of rangers and equipment to effectively carry out its tasks?

Rangers: Yes _____ No _____ Don't know _____

Equipment: Yes _____ No _____ Don't know _____

61. How effectively do you think that the SMMA is being managed?

Very effectively _____ Somewhat effectively _____ Not effectively _____ Don't know _____

G. FISHERMEN

63. In what type of fishing are you engaged? *Tick all that are named. Do not prompt*

Pot ___ Line ___ Seine ___ Deep sea ___ Other (*Please specify*) _____

64. What equipment/gear do you own? *Please prompt*

Nets _____ (*Please specify type*) Boat _____

Spear Gun _____ Fish pots _____

Other (*Please specify*) _____

65. How much do you spend per week/month (whichever respondent is more comfortable supplying) on the following items?

Gas _____ (w) (m) Boat maintenance _____ (w) (m) Storage rental _____ (w) (m)

Crew (Matlo) _____ (w) (m) Equipment repair/replacement _____ (w) (m)

Other _____ (w) (m)

66. How often in a given week do you fish in the SMMA?

Twice a week _____

Three times a week _____

Every day _____

Other (*Please specify*) _____

66. List the five most important species (types) that you catch in the SMMA.

Target Species Name	Fishing gear used	Name of place harvested

67. On average, how much (in pounds) reef fish or pot fish do you catch in the SMMA per trip/per day/per week (*let respondent answer using the time frame with which he feels most comfortable*)?

_____ (trip) (day) (week)

68. On average, how much (*percentage, pounds or description such as 'most'*) reef fish or pot fish caught in the SMMA do you eat and sell? (*Indicate unit used i.e. %, lbs, etc.*)

Eat _____ Sell _____

69. On average, how much (in pounds) pelagic (deep sea) fish do you catch per week/per day/per trip (*let respondent answer using the time frame with which he feels comfortable*)?

_____ (trip) (day) (week)

70. On average, how much (*percentage, pounds or description such as 'most'*) pelagic (deep sea) fish do you eat and sell? (*Indicate unit used i.e. %, lbs, etc.*)

Eat _____ Sell _____

71. Are there any areas in the SMMA that you have difficulty going to or are prevented from using for fishing?

Yes _____ No _____

Explain _____

72. How important, do you think is the health of the marine environment (coral reef, fish, water quality, beaches) to your livelihood?

Extremely important _____ Reasonably important _____

Not important _____ Don't Know _____

73. Do you think that fishermen contribute to marine environment (coral reef, fish, water quality, beaches) destruction in any way?

Yes _____ No _____

Explain _____

H. DIVERS/SNORKELLERS

74. Rate the current condition of the following dive/snorkel sites, the state of coral and water quality and the abundance and diversity of marine life.

Site	State of Coral 1.Excellent 2.Good 3.Average 4.Poor 5 Can't say	Water Quality 1.Excellent 2.Good 3.Average 4.Poor 5 Can't say	Abundance of Marine Life 1.High 2.Average 3.Low 4.Can't say	Diversity of Marine Life 1.High 2.Average 3.Low 4.Can't say	Ave. No. of Dives per: (<i>allow respondent to select week or month</i>)		Ave. No. of Divers per: (<i>allow respondent to select week or month</i>)	
					Week	Month	Week	Month
Coral Gardens								
Jalousie								
Piton Wall								
Superman's Flight								
Pinnacles								
Trou Diable								
Grand Caille								
Fairyland								
Anse Chastanet Reef								
Turtle Reef								
Anse Cochon								
Wreck of Lesleen M.								
Wreck of Daini Koyomaru								
Other (<i>Please specify</i>)								
Other (<i>Please specify</i>)								

75. How much do you spend per week/month (*whichever respondent is more comfortable supplying*) on the following items?

Gas _____ (w) (m) Boat maintenance _____ (w) (m) Storage rental _____ (w) (m)

Crew _____ (w) (m) Equipment repair/replacement _____ (w) (m)

Material _____ (w) (m) Other _____ (w) (m)

76. Are there problems with dive/snorkel access or prohibition/restriction from such in the SMMA?

Yes _____ No _____

Explain _____

77. How important, do you think is the health of the marine environment (beaches, coral reef, fish, water quality) to your livelihood?

Extremely important _____ Reasonably important _____

Not important _____ Don't Know _____

78. Do you think that divers/snorkellers contribute to marine environment (beaches, coral reef, fish, water quality) degradation in any way?

Yes _____ No _____

Explain _____

I. YATCHSMEN, WATER TAXIS, OTHER BOATMEN

79. How often during a given week do you patronize (visit) local restaurants and other businesses in Soufriere or carry passengers to these places? *Please tick one. [Peak: December – April] Off-Peak [May – November]*

Peak Twice weekly _____ Three times weekly _____ Every day _____
Other _____ *(Please indicate)*

Off-peak Twice weekly _____ Three times weekly _____ Every day _____
Other _____ *(Please indicate)*

Repeat Yachtsmen only

When you visit the SMMA, how often do you and your guests patronize (visit) local restaurants and other businesses in Soufriere?

Always ____ Often ____ Occasionally ____ Rarely ____ Never ____

81. Are there problems with mooring/anchorage access in the SMMA?

Yes _____ No _____

Explain _____

82. How important, do you think is the health of the marine environment (coral reef, fish, water quality, beaches) to your livelihood/yachting?

Extremely important _____ Reasonably important _____

Not important _____ Don't Know _____

83. Do you think that boatmen (yachters, water taxis, etc) contribute to marine environment (coral reef, fish, water quality, beaches) degradation in any way?

Yes _____ No _____

Explain _____

J. HOTELS, RESTAURANTS & SMALL BUSINESS OWNERS

84. What year was your business established? _____

85. On average, how many of your customers (divers, snorkellers, tour visitors) visit/use the SMMA per week?

Peak: Divers and snorkellers _____ Tour visitors _____ Other _____

Off-peak: Divers and snorkellers _____ Tour visitors _____ Other _____

85. Are there problems with visitor access to your business directly related to the SMMA?

Yes _____ No _____

Explain _____

86. How important, do you think is the health of the marine environment (coral reef, fish, water quality, beaches) to your business?

Extremely important _____ Reasonably important _____

Not important _____ Don't Know _____

87. Do you think that your business contributes to marine environment (coral reef, fish, water quality, beaches) degradation in any way?

Yes _____ No _____

Explain _____

88. Do you see your business as being profitable to you?

Yes _____ No _____

89. Do you intend on expanding your business within the next five to ten years?

Yes _____ No _____ Why? _____

K. ANY ADDITIONAL COMMENTS

