

Brasso Seco Resource Profile: Rivers and Springs

1. the resource

The Marianne River & two springs



2. resource description

Water: clear, clean, forms one pool at the bridge that is .3m – 1.3m deep depending on the amount of rainfall.

River bed: rocky, shaded in some parts, 0.3m – 4.6m wide depending on the amount of rainfall. Three other water courses drain into this river.

South bank: covered with vegetation inclusive of forest trees (at different stages of development with discernable layers): species include Bamboo, Frogwood, Crappo, Silk Cotton, Zebapeet; slopes are gentle to very steep, wildlife present including insects, birds and mammals.

North bank: runs close along the road at certain points (0.3m to 30m); little or no woody vegetation, active cutting, erosion (a threat to cocoa house); ground provision (Cassava, Dasheen) banana patches, herb garden; no major infrastructure (1 house, 2 bridges, Cocoa house, and light poles).

3. resource use

Use	Stakeholder using it
Bathing	Brasso Seco villagers, local and foreign visitors
Cooking & washing	Brasso villagers & local visitors
Camping	Local visitors
Parking	Local visitors
Photography	Local visitors
Fishing	Villagers & local visitors
Research on stream ecology	Researchers



Large Immortelle Tree on the river bank

4. peak time for using the resource

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Carnival
 Easter holidays
 School vacation
 Includes Long weekends



Pool area along the Marianne, used for bathing

5. what we want to do with the resource

To develop and manage Marianne River and Springs as a viable tourism product by:

- stabilizing* erosion of northern river bank;
- introducing select vegetation* along banks that improves biodiversity and highlights the culture of the area;
- improving basic infrastructure and services* to minimise the impact recreational activities on the river (inclusive of minimising the impact of fires for cooking on the river banks); and
- developing and marketing souvenirs* of Marianne River.

6. the plan for the resource

Objectives	<i>Stabilizing erosion of northern river bank</i>	<i>Introducing select vegetation along banks that improve biodiversity and highlights the culture of the area</i>	<i>Improve basic infrastructure and services</i>	<i>To develop and market souvenirs of Marianne River</i>
Needs				
Resources	Gabion baskets & stones, Kush Kush Grass; Forest seedlings – NRWRP nursery and FD, Physical labour – BS TAC	Forest seedlings, Cocoa (different varieties) Physical labour – BS TAC	Toilets, garbage bins, common kitchen, camp ground, signage.	Rocks, etching tools, packaging material, machinery
Technical help	Engineering advice – Min of Works Selection of plants – Forestry Division	Selection of plants – FD, UWI Cocoa Research Unit, BS TAC and community	Development of Site plans – Min of Tourism, Grand Rivere TAC and Fondes Amandes	Producing rock etching, sill and loorha, bamboo cups, bowls from calabash, moulding stones – Community Development
Finances	Possible Donors – Green Fund, Community Development Fund, GEF small grants, Self Help, NEDCO, Min of Tourism	Possible Donors – Green Fund, IICA, Community Development Fund, GEF small grants, Self Help, NEDCO	Possible Donors – Green Fund, Community Development Fund, GEF small grants, Self Help, NEDCO	Possible Donors – Green Fund, IICA, Community Development Fund, GEF small grants, Self Help, NEDCO
Training	Developing a business plan – NEDCO, Develop project proposal – CANARI; NEDCO; CDF, Min of Tourism	Cocoa Rehabilitation Unit	Maintenance – Vendors	Souvenir development – Min of Tourism Souvenir marketing – Min of Tourism Sustainable harvesting of resources from river – FD

Persons responsible for action within two (2) months

■ Ms. Melanie & Ms. Alicia
 ■ Mr. Lester
 ■ Mr. Raymond
 ■ Mr. Francois
 ■ Mr. Carl



The rocky river bed of the Marianne

7. potential stakeholders with whom we can partner

Group	Interests
<i>Asa Wright Nature Centre</i>	Nature interpretation, sale of cocoa and coffee products, accommodation for visitors
<i>Alta Vista</i>	Nature interpretation, rustic accommodation for visitors
<i>BEAT</i>	Link culture and natural resource management
<i>Farmers</i>	Cocoa and coffee production
<i>Landowners</i>	Cocoa and coffee production



Mr. Farciós, President of Brasso Seoo Tourism Action Committee explains the value of the Marianne River



A view of the Marianne River from an elevated part of the project site

8. preliminary emergency plan

<i>Anticipated Situation</i>	<i>Resources/Action to facilitate response</i>
Snake bite	First aid kit; training; transport; acquire contact # for emergency response agencies; Give site orientation; Identification of muster point
Cuts/bruises	First aid kit; training; give site orientation
Cramps	First aid kit; training; give site orientation
Allergies	First aid kit; training; give site orientation
Over exertion (fainting, heart attack)	First aid kit; training; transport; acquire contact # for emergency response agencies; give site orientation; identification of muster point



Women from the Brasso Seco Community contribute to the discussions about the Marianne River

9. monitoring and evaluation

<i>Objective</i>	<i>Output</i>	<i>Outcome</i>	<i>Indicator</i>	<i>Method of Assessment</i>
<i>Stabilizing erosion of northern river bank</i>	Erosion control plan gabion baskets placed on bank; kush kush grass & forest seedlings planted; visits from technical personnel	River bank stabilized	Distance between cocoa house and bank remains constant	How: measure dist. between cocoa house and northern bank Who: BS TAC When: every 3 months
<i>Introducing select vegetation along banks that improve biodiversity and highlights the culture of the area</i>	Plant introduction plan; seedlings and wildings introduced	Increased variety of plants and animals; enhanced interpretation experience	Increased number of interpretive features	How: fauna & flora surveys Who: BS TAC When: 2 times per year
<i>Improve basic infrastructure and services</i>	Recreational site plan; toilets operational; garbage bins placed and used; signage placed	Cooking fire not destroying vegetation; vegetation not cut for fuel wood; garbage collected	Decreased fire incidences; cleaner river environment	How: fire and garbage collection records Who: BS TAC When: monthly
<i>To develop and market souvenirs of Marianne River</i>	Souvenirs available for sale; training workshops held; acquisition of tools;	Increased capacity to produce and market souvenirs from Marianne river	Income from souvenirs sales	How: sales records Who: BS TAC When: monthly

acronyms

BS TAC - Brasso Seco Tourism Action Committee
 CANARI - The Caribbean Natural Resources Institute
 CDF - The Community Development Fund
 FAO - Food and Agriculture Organization
 FD - Forestry Division, Trinidad and Tobago
 GEF - Global Environment Facility
 ICA - Inter-American Institute for Cooperation on Agriculture
 NEDCO - The National Entrepreneurship Development Company Limited
 NRWRP - National Reforestation and Watershed Rehabilitation Programme
 UWI - University of the West Indies