



**5<sup>th</sup> Semi Annual Report  
October 2002 to March 2003**



# Ridge To Reef Watershed Project

USAID Contract No. 532-C-00-00-00235-00

## 5<sup>th</sup> Semi Annual Report October 2002 to March 2003

April 30, 2003

Prepared for the:

Government of Jamaica  
National Environment and Planning Agency

And the

United States Agency for International Development

Implemented by:

Associates in Rural Development, Inc. (ARD)  
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## **Preface**

The Ridge to Reef Watershed Project (R2RW) is a five-year bilateral initiative between the Government of Jamaica's National Environment and Planning Agency (NEPA) and the Government of the United States Agency for International Development (USAID). The Project focuses on three distinct, but interrelated activities working towards the objective of improving the management of Jamaica's watersheds. The R2RW Project Components are:

### **Component 1 Sustainable Environmental Practices**

- Great River Watershed
- Rio Grande Watershed

### **Component 2 Compliance and Enforcement**

### **Component 3 Institutional Strengthening**

The Project is directly supportive of the USAID Strategic Objective 2 (SO2) – Improved quality of key natural resources in selected areas that are both environmentally and economically significant. Associates in Rural Development, Inc. (ARD) implements the R2RW.

This is the fifth Semi-Annual Report (SAR) for the R2RW Project covering the period October 1, 2002 to March 31, 2003. This SAR provides an overview of the progress on project implementation under USAID Contract No. 532-C-00-00-00235-00, and reports on progress on meeting the R2RW Third Annual Work Plan. This SAR contributes to the fulfillment of the overall R2RW Life of Project Strategy, as well as reports on progress made under the R2RW Performance Monitoring Plan (PMP). Finally, this SAR summarizes achievements under the agreed performance benchmarks, and reports on the financial operations for the period October 2002 to March 2003.

## Acronyms

ARD	Associates in Rural Development
ASC	Administrative and Support Center
CASE	College of Agriculture, Science and Education
CETF	Compliance and Enforcement Task Force
COP	Chief of Party
CWIP	Coastal Water Improvement Project
FD	Forestry Department
GNRS	Governance and Natural Resources Specialist
GOJ	Government of Jamaica
GRW	Great River Watershed
GRWMC	Great River Watershed Management Committee
ISC	Inter-Agency Steering Committee
JAS	Jamaica Agricultural Society
KAP	Knowledge Attitudes and Practices
MBMP	Montego Bay Marine Park
NEEC	National Environmental Education Committee
NEPA	National Environment and Planning Agency
NIWMC	National Integrated Watershed Management Council
NGO	Non-Governmental Organization
NSWMA	National Solid Waste Management Authority
PAPAS	Participation and Public Awareness Specialist
PATF	Public Awareness Task Force
PDC	Parish Development Committee
PIC	Project Implementation Committee
PMP	Performance Monitoring Plan
RADA	Rural Agricultural Development Authority
RGWMC	Rio Grande Watershed Management Committee
R2RW	Ridge to Reef Watershed Project
SAPW	Strategic Action Planning Workshop
SAR	Semi Annual Report
SDC	Social Development Commission
SO2	Strategic Objective number 2
SOW	Scope of Work
STTA	Short-Term Technical Assistance
SWB	Sustainable Watersheds Branch
TAP	Targeted Appropriate Practices
TOR	Terms of Reference
USAID	United States Agency for International Development
WMC	Watershed Management Committee
WMS	Watershed Management Specialist

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# 1. Introduction

This Fifth Semi Annual Report (SAR) covers the period October 1, 2002 to March 31, 2003. This period represents the first half of the third year of the planned 5-year Ridge to Reef Watershed (R2RW) Project. The R2RW Project built on the solid start given during the first two years to consolidate initiatives that established the foundation for project implementation. A Third Year Work Plan was developed, and work methodically undertaken to achieve as many of the outcomes as possible.

Watershed Management is complex. There are a host of environmental, economic and social issues to be addressed by a large number of stakeholders. Stakeholders include more than 10 Government of Jamaica (GOJ) agencies, many non-governmental organizations (NGOs), a host of community-based organizations (CBOs) and a number of active and concerned private sector agencies. Some 14 laws, many of which are out-dated, complicate the legal framework and there is limited enforcement.

Staffing adjustments were made during the period with the addition of an Agronomic Specialist. In addition, the Watershed Management Specialist was replaced during October 2002, and some of the core functions spun off into the new position of Agronomic Specialist. The core team has coalesced into a functioning, structured entity capable of leading the R2RW Project over the remainder of the Project. Project management has been enhanced through increased use of STTA to implement Project initiatives. The core team meets regularly and has focused on the design and implementation of programmatic activities such as:

- Plant A Tree Campaign in the GRW
- Construction of Sanitation Solutions
- Design of Community Education Programs
- Design of Popular Compliance and Enforcement Materials
- Targeted Training Courses

R2RW is focused on enhancing sustainable environmental practices, improving compliance and enforcement, and strengthening the capacities of organizations involved in watershed management. More than simply achieving goals, R2RW also emphasizes the **participatory process** of achieving. R2RW works to develop functioning coordination mechanisms through strategic partners to address economic issues (such as productivity and income generation), social issues (such as gender, public awareness, and environmental problems, e.g. poor sanitation and soil erosion). This process orientation affects the pace of implementation in that it takes longer to develop projects. Work during the reporting period focused on continuing to build the capacity and programs of the Great River Watershed Management Committee (GRWMC), its four issues oriented task forces, and the National Integrated Watershed Management Council (NIWMC). The latter serves as the foundation on which to build a feasible integrated watershed management model.

The report starts out with an Introduction, followed by a brief review of the Vision and Strategy. The next four sections highlight progress on the three R2RW Project components. The three components are:

*Component 1A:* Through targeted organizations, sustainable environmental management practices by resource users identified and supported in the Great River Watershed.

*Component 1B:* Through targeted organizations, sustainable environmental management practices by resource users identified and supported in the Rio Grande Watershed.

*Component 2:* Incentives for, and obstacles to, enforcement of targeted existing environmental regulations identified and solutions supported.

*Component 3:* Capacity of Jamaican government agencies, international donors, private sector and civil society organizations to implement effective watershed management programs enhanced.

Section 7 examines Project Management aspects including grant management, staffing, overall project management and oversight. Section 8 presents an update of the Performance Indicators that were originally set out in the Performance Monitoring Plan. Finally, Section 9 presents a summary of program expenditures for the reporting period.

### **Summary of Project Achievements**

The reporting period covers the period October 2002 to March 2003. Major accomplishments during this period may be summarized as follows:

#### ***Component 1A: Sustainable Environmental Practices in the Great River***

- The GRWMC continued to grow as an entity capable of addressing solutions to the difficult issues of watershed management;
- The membership of the GRWMC was expanded to include greater representation from communities in the watershed;
- Training given in conducting meetings, the taking of minutes, leadership skills, and gender awareness;
- Implementation of a Goat Improvement Project in the GRW to improve livestock opportunities and encourage more environmentally friendly practices;
- Implementation of a Plant A Tree Campaign and Program;
- Completed work on water harvesting and sewage disposal project at Pisgah and Content;
- Continued implementation of water quality monitoring program in the Great River;
- Began implementation of three income generating Projects:
  - Scotch pepper production at Rushea;
  - Scotch pepper production at Cedar Grove; and
  - Honey production at Bethel Town.
- Actively participated in shows, and expositions;
- Preparation of the Great River Green Village Program, and
- River Action with the Action Boyz Program.

#### ***Component 1B: Sustainable Environmental Practices in the Rio Grande***

- The Rio Grande watershed management committee, along with four task forces have been established and are fully functioning;

- A special study of the erosion in St. Margaret's Bay Coastline has been commissioned, and the draft report has been distributed. A public presentation of the findings will be made in May 2003;
- 2 grant projects in water and sanitation were begun: Moore Town Water Supply and Millbank Sanitation Project;
- 3 new agroforestry and soil conservation projects were approved and signed: Rock Hall, Industry and Coopers Hill; and
- Design work began on 4 other water supply projects.

**Component 2: Enhanced Compliance and Enforcement**

- Developed a set of 14 posters that were tested with focus groups. Printing is underway;
- Began work on video to accompany "if haffi legal" video;
- Pocket Guide to Compliance and Enforcement of Environmental Laws ready for publication;
- Watershed Policy revised and tested with focus group;
- Completed database and inventory of organizations and groups involved in compliance and enforcement in the GRW; and
- Completed study on "Incentives for *Private Sector Involvement in Watershed Management*".

**Component 3: Enhanced Capacity to Implement Effective Watershed Management Programs**

- Completed a "Review of Approaches to the Establishment of Local Watershed Management Committees and an "Operations Manual on the Establishment of LWMCs";
- Two newsletters were issued and distributed; and
- Eight news releases written and five radio interviews conducted.

**Project Management**

- The Technical team coalesced into an efficient implementation group that is systematically addressing project management challenges;
- Coordination achieved through regular Team meetings, Project Implementation Committee meetings, CWIP/R2RW meetings, and participation in regular NEPA Senior Management Team meetings; and
- 10 new grants were approved, and implementation begun.

To make it easier to understand activities under this Semi Annual Report, and to show how activities are related, a work breakdown structure is used to communicate structure of the project in detail. In the work breakdown structure, activity headings are broken down as follows:

- 1<sup>st</sup> level – Component

These are broad headings that comprise Component 1A Sustainable Environmental Practices in the GRW, Component 1B Sustainable Environmental Practices in the RGW, Component 2 Compliance and Enforcement, Component 3 Institutional Strengthening and Component 4 Project Management.

- 2<sup>nd</sup> level - Summary Task

2<sup>nd</sup> level activities are summary tasks under each component. For example, Activity 3.1 'Development of the GRWMC' is a summary task under Component 1A.

- 3<sup>rd</sup> level - Task

3<sup>rd</sup> level tasks are more specific activities under Summary Tasks. For example, Activity 3.1.1 'Development of Role, Mandate and Programs of the GRWMC' is an activity under Summary Task 3.1.

- 4<sup>th</sup> level - Sub-Task

4<sup>th</sup> level tasks are even more specific and an example would be Activity 3.1.1.1 'Host seminar of the GRWMC to develop consensus and buy-in to programs'. This activity falls under 3.1.1 referred to above.

- 5<sup>th</sup> level - Lower Level Sub-Task

5<sup>th</sup> level activities are very low-level sub-tasks conveying much more detail that would be denoted by codes such as 3.1.1.3.1 or 6.1.3.3.1.

## 2.0 Project Vision and Strategy

The Third Annual Work Plan presented a detailed description of the overall vision and strategy for the R2RW Project during the third year of project operations. The assessment of progress on the vision and strategy is normally done on an annual basis in the Annual Work Plan. This section of the document provides a brief overview of the vision and strategy to remind readers of the overall direction, but a comprehensive update of these will not be undertaken until the production of the Third Annual Report in October 2003.

### 2.1 Vision

Based upon public consultations, stakeholder workshops, management committees and task forces, the overall R2RW vision has been articulated as follows: The design and implementation of Project activities have been guided by this overall vision. The principal aspects are as follows:

- Improved Governance
- Effective Institutional Arrangements for Watershed Management
- Enhanced Public Awareness
- Improved Policy, Legislation, Compliance and Enforcement
- Capacity Building

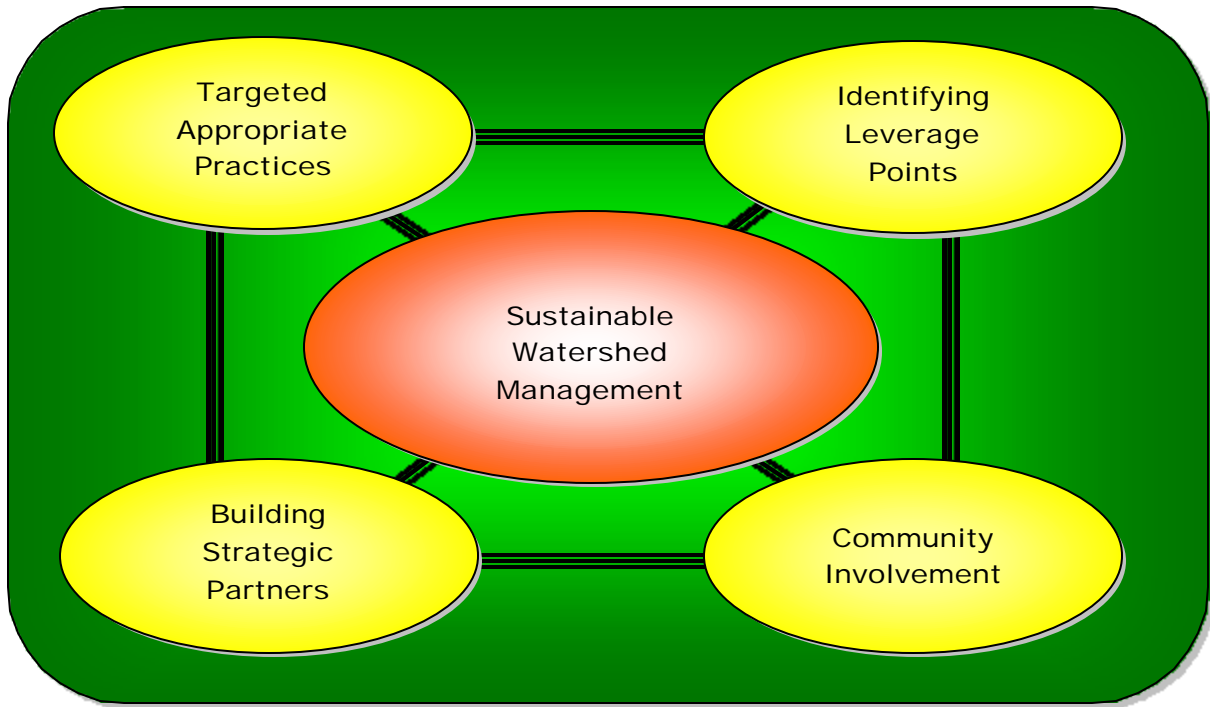
The R2RW activities are systematically addressing aspects of this vision.

### 2.2 Project Strategy

The R2RW Project strategy to achieve the overall goal of “Natural resources under improved and sustainable management in identified watersheds” has evolved and matured during the reporting period. Four principles serve as the strategic pillars that support R2RW initiatives. These principles underlie the activities that are presented under the components in the sections that follow. It is important to stress that these strategies and principles do not operate in isolation, but inform and influence each other as project activities unfold. The four strategic principles are:

- *Building Strategic Partners*
- *Approach to Community Involvement*
- *Identifying Leverage Points*
- *Target Appropriate Practices*

The Project Vision is graphically illustrated as follows:



### **3. Component 1A: Through Targeted Organizations, Sustainable Environmental Management Practices by Resource users Identified and Supported in the Great River Watershed**

#### **Introduction**

There has been a long history of projects in Jamaica with the primary objective of facilitating adoption of technologies that reinforce resource conservation while enhancing income generation and improving the well being of small farmers, especially those farming marginal hillside lands. However, results varied and sustainable management for efficient production and resource conservation remains elusive. In many cases, projects were unsuccessful because of over reliance on engineered structures such as terraces, contour bunds and drains that farmers were not taught, or were unable to maintain; over emphasis on “farmer groups” that were not linked to the wider development efforts; and dependence on free or subsidized inputs to encourage farmer participation.

Lessons learned from these projects indicate that when end user stakeholders were not involved in the planning of project activities, technologies introduced were not fully understood, and if inappropriate were not accepted. Often, agents promoting resource conservation technologies failed to use an integrated community approach and were unable to deliver project interventions in a sustainable manner.

Consequently, Component 1 not only concentrates on introducing and extending Targeted Appropriate Practices (TAPs), but also focuses on previously missing components – strengthening the capacity of community based organizations to facilitate effective transfer and integration of new technologies into production systems and development of sustainable practices.

Working with community-based organizations, private organizations and individuals, NGOs and government agencies, Component 1 has embarked on a search for appropriate technologies that are environmentally and economically sustainable.

Project progress is summarized first in a comprehensive manner through an updated Microsoft Project Table. Following the table, text descriptions are provided for selected activities that represent significant achievements.

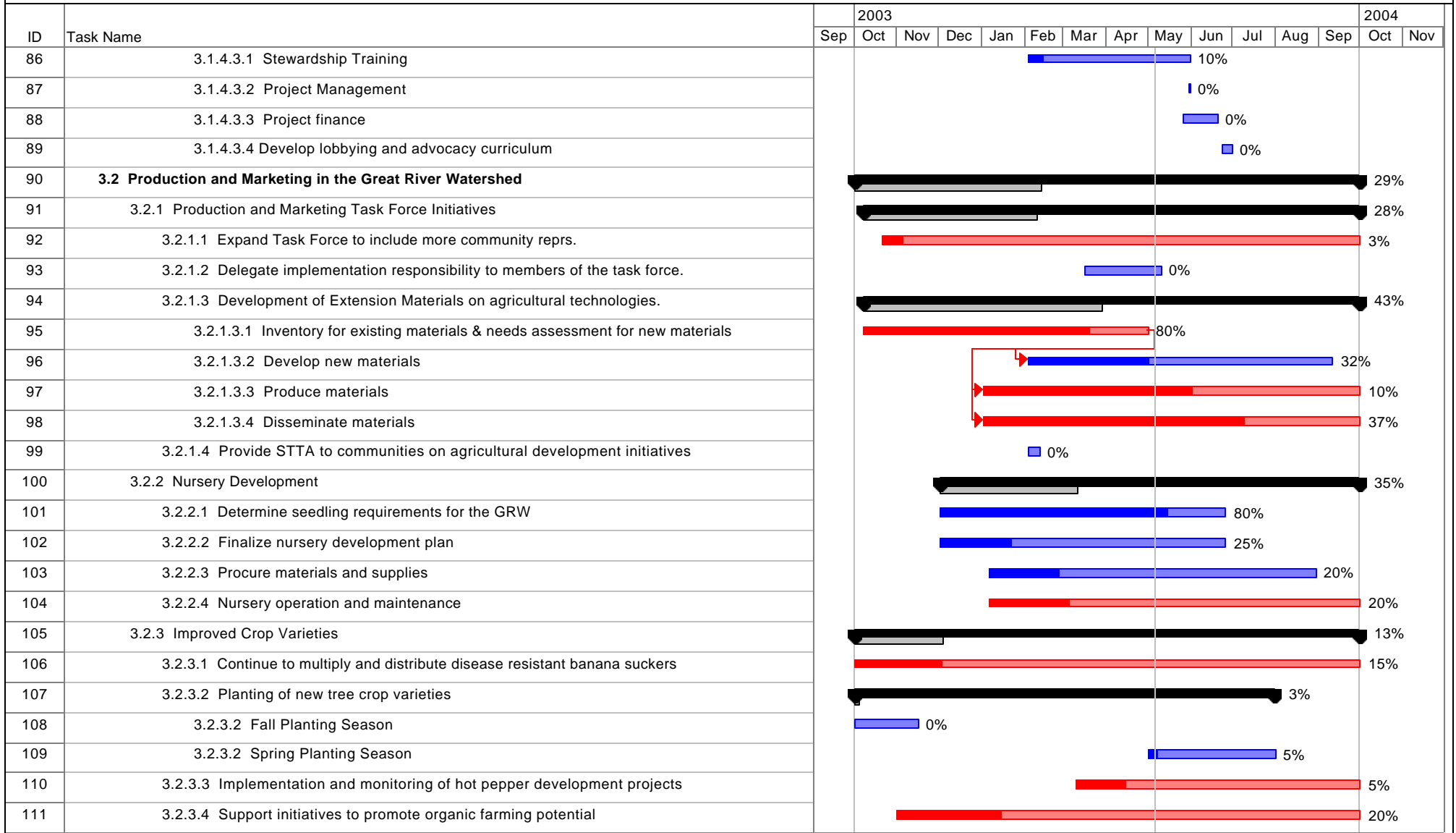
**Third Annual Work Plan**  
 October 1, 2002 to September 30, 2003  
 Progress as at March 31, 2003










ID	Task Name	2003												2004			
		Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	
1	<b>3 Sustainable Environmental Practices in the Great River Watershed</b>																31%
2	<b>3.1 Development of the Great River Watershed Management Committee</b>																37%
3	3.1.1 Development of role, mandate and programs of the GRWMC																52%
39	3.1.2 Management Activities of the GRWMC																48%
40	3.1.2.1 Regular Meetings of the GRWMC																50%
41	3.1.2.1.1 Quarterly meeting of GRWMC	100%					100%		0%					0%			
46	3.1.2.1.2 GRWMC Executive Committee																50%
51	3.1.2.2 Administer funds for travel reimbursement and communications																57%
64	3.1.2.3 Develop local secretariat skills and services																82%
65	3.1.2.3.1 Assess training Needs of WMC	100%															
66	3.1.2.3.2 Provide training courses						60%										
67	3.1.2.4 Increase participation of community reps in GRWMC & Task Forces																50%
72	3.1.2.5 Prioritize issues for "Special Studies"															0%	
73	3.1.3 Registration of the GRWMC																35%
74	3.1.3.1 Examine the options for GRWMC incorporation and registration	100%															
75	3.1.3.2 Submit application for WMC certification from the NIWMC															0%	
76	3.1.3.3 Initiate legal registration															0%	
77	3.1.4 GRWMC Managed Program Initiatives																24%
78	3.1.4.1 Implement the Community Stewardship Certification Program																34%
79	3.1.4.1.1 GRWMC approval of criteria for program design															100%	
80	3.1.4.1.2 Launch Program															0%	
81	3.1.4.1.3 Program Implementation and promotion															0%	
82	3.1.4.1.4 Issue program update for Earth Day															0%	
83	3.1.4.1.5 Issue prizes at National Wood and Water Day															0%	
84	3.1.4.1.6 Erect Signs															0%	
85	3.1.4.3 Capacity building Training Activities																8%

Project: Third AWP Date: Tue 5/6/03	Critical		Task Progress		Summary	
	Critical Progress		Milestone		*Rolled Up Task	
	Task		Summary Progress		*Rolled Up Task Progress	



**Third Annual Work Plan**  
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Project: Third AWP Date: Tue 5/6/03	Critical		Task Progress		Summary	
	Critical Progress		Milestone		*Rolled Up Task	
	Task		Summary Progress		*Rolled Up Task Progress	

### Third Annual Work Plan

October 1, 2002 to September 30, 2003  
Progress as at March 31, 2003

ID	Task Name	2003												2004		
		Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
112	3.2.4 Livestock Improvement													43%		
113	3.2.4.1 Continue to implement and monitor Goat Management Project													45%		
114	3.2.4.2 MOUs with mother farms on revolving scheme													0%		
115	3.2.5 Market Development													19%		
116	3.2.5.1 Development of Montpellier Market													0%		
117	3.2.5.1.1 Develop and sign MOU with JAS and TPDCo													0%		
118	3.2.5.1.2 Contract with STTA for concept design and plans													0%		
119	3.2.5.1.3 Implementation of market development plan													0%		
120	3.2.5.2 Develop strategy for marketing Great River Products													25%		
121	3.2.5.2.1 Finalize strategy for marketing Great River products													0%		
122	3.2.5.2.2 Develop logo for Great River Watershed													100%		
123	3.2.5.2.3 Develop criteria for use of logo/stamp of approval													40%		
124	3.2.5.2.4 Identify products for inclusion in marketing promotions													0%		
125	3.2.5.2.5 Implement promotional campaign for GR													0%		
126	3.2.6 Plant A Tree Campaign													50%		
127	3.2.6.1 Establish a Steering Committee for Plant A Tree Campaign													100%		
128	3.2.6.2 Hire Consultant to implement program													46%		
129	3.2.6.2 Targeting of deforestation hot spots													90%		
130	3.2.6.3 MOU with Forest Department to secure seedlings													100%		
131	3.2.6.4 Planting and maintenance of seedlings													0%		
132	<b>3.3 Water and Sanitation Activities in the Great River Watershed</b>													27%		
133	3.3.1 Water and Sanitation Task Force Initiatives													7%		
134	3.3.1.1 Expand Task Force to include technical members and community reprs.													10%		
135	3.3.1.2 Delegate implementation responsibility to members of the task force													10%		
136	3.3.1.3 Establish distribution system for raw materials at affordable prices.													0%		
137	3.3.2 Water & Wastewater intervention													9%		

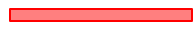
Project: Third AWP Date: Tue 5/6/03	Critical		Task Progress		Summary	
	Critical Progress		Milestone		*Rolled Up Task	
	Task		Summary Progress		*Rolled Up Task Progress	

### Third Annual Work Plan October 1, 2002 to September 30, 2003 Progress as at March 31, 2003

ID	Task Name	2003												2004			
		Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	
138	3.3.2.1 Complete 2nd Water Harvesting & Wastewater Treatment System at Pisgah									■	90%						
139	3.3.2.2 Design and install village sanitation solution in Cambridge																
140	3.3.2.3 Design and implement other W&S interventions																
141	Installation of water harvesting and wastewater system at Content Community Center																
142	Installation of car wash/laundry at Mafoota (with wastewater disposal system)																
143	3.3.3 Solid Waste Management Interventions																
144	3.3.3.1 Solid waste project at Stone Henge – garbage collection and recycling																
145	3.3.3.2 Support the Marine Park in hosting a solid waste seminar																
146	3.3.3.3 Provide support to community solid waste management initiatives																
147	3.3.4 Water Quality Monitoring on the Great River																
148	3.3.4.1 Continue to monitor results of water quality monitoring program																
149	3.3.4.2 Improve quality of data result reporting and dissemination																
150	3.3.4.3 Use water quality information to refine and promote W&S initiatives																
151	<b>3.4 Public Awareness in the Great River Watershed</b>																
152	3.4.1 Support the Public Awareness Task Force																
153	3.4.1.1 Design a logo for the GRWMC																
154	3.4.1.2 Develop a mascot for the GRW																
155	3.4.1.3 Promote use the GRW video																
156	3.4.1.4 Participate in fairs, expos and community environmental fora																
161	3.4.1.5 Organize workshop on information communication technologies (ICT)																
162	3.4.1.6 Organize exchange visited: upper and lower watershed residents																
163	3.4.2 W&S public awareness programs for the GRW																
164	3.4.2.1 Develop consensus on a public awareness strategy for the GRW																
165	3.4.2.2 Develop instructional print materials (booklets and posters)																
166	3.4.2.3 Develop video of technologies being implemented through R2RW in W&S																
167	3.4.2.4 Promote community awareness being implemented through R2RW in W&S																

Project: Third AWP  
Date: Tue 5/6/03

Critical



Task Progress



Summary



Critical Progress



Milestone



\*Rolled Up Task



Task



Summary Progress



\*Rolled Up Task Progress











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 October 1, 2002 to September 30, 2003  
 Progress as at March 31, 2003

ID	Task Name	2003												2004			
		Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	
168	3.4.2.5 Support and implement activities that emerging from the KAP workshop			100%													
169	3.4.2.6 Sign MOU with relevant agencies on strategy (NWC, PHD, SSU, MBMP, etc.)							100%									
170	3.4.2.7 Promote and launch program							30%									
171	3.4.2.8 Monitor implementation of program	0%															
172	3.4.3 Solid Waste Management Public Awareness programs for the GRW																0%
173	3.4.3.1 Support NSWMA "Nice & Clean" campaign in the GRW																0%
174	3.4.3.2 Develop program, and sign MOU among partners																0%
175	3.4.3.3 Hire TA to design materials, billboards, jingle, etc																0%
176	3.4.3.4 Launch program																0%
177	3.4.3.5 Monitor implementation																0%
178	3.4.4 Production and Marketing Public Awareness programs for the GRW																3%
179	3.4.4.1 Identify technologies and messages to be promoted																0%
180	3.4.4.2 Develop materials																10%
181	3.4.4.3 Implement Programs																0%
182	3.4.5 Plant A Tree Program																11%
183	3.4.5.1 Hire TA for media production																20%
184	3.4.5.2 Prepare and distribute press release																0%
185	3.4.5.3 Launch Program Activities																0%
186	3.4.5.4 Finalize proposal to EFJ to expand program																0%
187	<b>3.5 Gender Considerations</b>																47%
188	3.5.1 Work with GRWMC executive to consider gender equity in grant application review																40%
189	3.5.2 Training to partners and communities to encourage gender equity principles																0%
190	3.5.3 Hold Task force meetings at venues and at times that enhance gender equity																70%
191	3.5.4 Monitor gender equity principles during grant life																50%
192	3.5.5 Provide annual gender report of project activities																100%
193	<b>Component 1A Benchmarks</b>																★ 9/30

Project: Third AWP Date: Tue 5/6/03	Critical		Task Progress		Summary	
	Critical Progress		Milestone	★	*Rolled Up Task	
	Task		Summary Progress		*Rolled Up Task Progress	

**Third Annual Work Plan**  
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ID	Task Name	2003												2004				
		Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov		
194	<b>GRWMC and task forces functional &amp; addressing priority issues in GRW</b>																*	9/30
195	<b>Three projects implemented by the Prodn &amp; Marketing Task Force</b>																*	9/30
196	<b>Three projects implemented by the Water &amp; Sanitation Task Force</b>																*	9/30
197	<b>Community Stewardship certification program launched</b>																*	9/30
198	<b>Plant A Tree Program and public awareness campaign implemented</b>																*	9/30
199	<b>Three initiatives to enhance public awareness of priority issues implemented</b>																*	9/30

Project: Third AWP Date: Tue 5/6/03	Critical		Task Progress		Summary	
	Critical Progress		Milestone	*	*Rolled Up Task	
	Task		Summary Progress		*Rolled Up Task Progress	

### **3.1 Development of Role, Mandate and Programs of the GRWMC**

Considerable progress was made towards the development of the Great River Watershed Management Committee (GRWMC). Each of the four task forces – Production and Marketing, Water and Sanitation, Public Awareness and Compliance and Enforcement, have met regularly and developed an agenda of priority issues. Working within the Task Forces established under the GRWMC, the Project has devised a community-oriented strategy that emphasizes livelihood enhancement, governance, stewardship, and compliance and enforcement.



*Meeting Management Training Participants from the Great River Watershed Management Committee*

#### ***Develop Great River Operations Plan and Strategy***

A SOW was developed and two consultants identified to produce a Strategic Plan for the Sustainable Development of the Great River Watershed. The Strategic plan is expected to provide a comprehensive framework for applying management tools within the GRW in a manner that meets the water resources goals as a whole. The Plan will address many diverse issues relating to land use including agriculture, forestry, urban areas, impact of pollution (sewage, agricultural runoff, etc.) on water resources, sanitation and water quality monitoring. The selected consultants: Jim Schweithelm, and Lloyd Donaldson will start work in May 2003.

#### ***Develop Local Secretariat Skills and Services***

A training workshop was organized in January for members of the GRWMC and its task forces to build their capacity in a variety of topics needed to operate a WMC. The workshop primarily targeted the officers of the GRWMC and its Task Forces. It communicated important methods and skills necessary to conduct successful meetings and record proceedings in a standard professional manner. The workshop therefore aims to both promote the efficiency of GRWMC activities and enhance the capacity of its collaborating stakeholder organizations operating in the watershed. Topics included meeting management, time management, and the taking of minutes. Follow-up meetings were conducted with the secretaries of the GRWMC and its Task Forces to hone their skills in minute taking.

Follow-up sessions were held:

- To review aspects of the Meeting Management training held on January 15, 2003

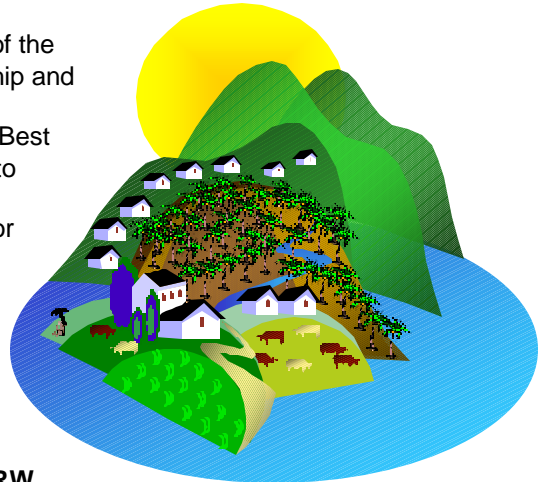
- To review the roles and responsibilities of secretaries of the GRWMC and its Task Forces.
- To discuss the methods of recording minutes for the GRWMC and its Task Forces.

***Increase Participation of Community Representatives in GRWMC and Task Forces***

A Scope of Work was developed to coordinate the Great River Youth and the Environment Conference, which is being planned for July 17-18, 2003. This activity has emerged out of the Great River Watershed Management Committee's Annual General Meeting held in November 2002 at which time it was proposed that there was a need for greater awareness and involvement of youth in the activities of the GRWMC. An environmental forum was subsequently suggested to increase public awareness and mobilize the youth of the watershed. Ms. Marline Stephenson-Dalley was chosen to coordinate this event, and will work directly with the St. James 4-H Club, which is the lead agency for this activity. Ms. Stephenson-Dalley has had years of experience in coordinating and producing events at the national level and also has extensive experience in marketing and public relations activities.

***Implementation of the Community Stewardship Certification Program (i.e., Green Village Award)***

The Green Village Competition developed from meetings of the GRWMC is geared to encourage environmental stewardship and the adoption of better environmental practices through all watershed communities. Building on the tradition of the "Best Kept" community awards of the past, the program seeks to enhance local governance through cooperation between communities, state agencies, NGOs and the private sector and to give recognition to those communities that qualify for Bronze, Silver and Gold level status. Progress to date includes approval of criteria for program assessment, the program identification and selection of judges and design of application forms. The program was launched on Earth day – April 22, 2003.



**3.2 Production and Marketing Activities in the GRW**

The Production and Marketing Task Force, with the assistance of the Project team, identified and discussed various enterprises that were potential income earners for stakeholders in the watersheds. Two partners, RADA and the SDC were instrumental in advancing dialogue and initiating activities in some communities of the GRW. Focus on economic activities through livelihood enhancement is critical because stakeholders respond more positively to practices that increase income. Only when improved livelihood provides more energy than is required for basic survival, will attention be paid to those aspects of the environment that are not perceived as essential to survival. Further, compliance with environmental laws is more easily achieved when potential offenders are occupied by legitimate income earning activities.

***Development of Extension Materials on Agricultural Technologies***

Extension brochures were developed on the following topics during the period:

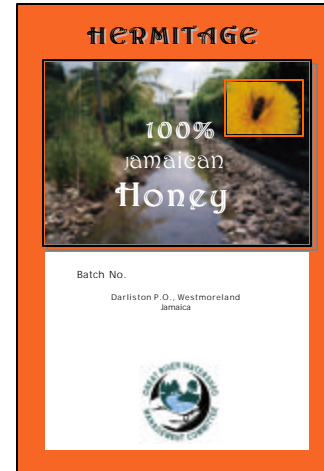




- “Do’s and Don’ts of Watershed Management”
- “Selection, Field Establishment and After Care Practices for Fruit Trees”

### ***Hermitage Honey Limited Group***

The purpose of the grant is to increase the number of bee colonies dramatically from 25 to 176 and improve livelihoods through beekeeping and honey production. The project will involve 15 farmers with beehives and a small processing collective established in 1997 with the assistance of the Social Development Commission. The Hermitage community is located near Bethel Town in the Westmoreland section of the Great River Watershed. The Project has been developed through the active participation of local officers of the Rural Agricultural Development Authority and will support watershed protection through enhancing livelihoods in a manner that is environmentally sustainable and will lead to environmental protection because beekeepers will have an interest in preserving trees and also planting more nectar-supplying trees. Most of the project funds are for materials and equipment to expand and modernize the extraction process currently being used. A condition of approval is that a portion of income generated will be used for community environmental improvements. The total value of the Project is J\$716,250.



### ***Implementation and Monitoring of Hot Pepper Development Projects***

#### ***Rushea Farmers Group***

This project aims to increase scotch bonnet pepper production for the export market in a manner that is environmentally friendly. The project involves 13 farmers planting 5.6 hectares in the Rushea community located on the St. James side of the Great River Watershed. The Project has been developed through the active participation of local officers of the Rural Agricultural Development Authority. It will support watershed protection through enhancing livelihoods in a manner that is environmentally sustainable. Produce from the project will be marketed on the export market through both fresh and processed peppers. Presently, the prevalent method of growing scotch bonnet peppers depends on the use of various agricultural pesticides. The Project will be utilizing a more environmentally friendly technology that has already been adapted by organic farming. A condition of approval is that a portion of income generated will be used for community environmental improvements. The total value of the Project is J\$749,061.

#### ***Cedar Grove Farmers Group***

The purpose of this grant is to increase scotch bonnet pepper production for export market in a manner that is environmentally friendly. The project involves nine farmers planting 1.8 hectares of land in the Cedar Grove community located near Bethel Town in the Westmoreland section of the Great River Watershed. The project will support watershed protection through enhancing livelihoods in a manner that is environmentally sustainable. Produce from the project will be marketed on the export market through both fresh and processed peppers. A condition of approval is that a portion of income generated will be used for community environmental improvements. The total value of the Project is J\$476,282.



### ***Continue to Implement and Monitor Goat Improvement Project***

The specific objectives of this project are as follows:

1. To establish two “Mother Farms” to serve as focal points for an initiative to increase goat production in the GRW.
2. To Establish goat rearing groups in Retrieve and Roehampton.
3. To demonstrate improved methods of goat production to local farmers including systems for shelter, feeding and security.
4. To establish a revolving scheme to promote the dissemination of improved breeds of goats.
5. To provide high quality technical assistance to implement techniques on mother farms, and to disseminate methods and techniques to interested farmers in the two identified target communities.

#### *Retrieve*

This farm was engaged in goat rearing commercially prior to the R2RW Goat project. Under the project, the farm received 10 does (graded Nubians) and two bucks (Boer). The farm in had several problems, and three newborn kids died. R2RW initiated remedial action with much success, however, the site is still considered unsuitable for goat rearing. Animals will therefore be moved to Knockalva Agricultural School that has much better livestock infrastructure and technical expertise

#### *Roehampton*

Eight does and one buck (all purebred) were imported from Florida. Arrangements were made to effect a number of improvements to site.

Veterinary care is an important aspect of the project and will continue to be emphasized by R2RW. Dr. Lynden Bryan, a Director of 4-H Clubs of St. James, is actively supporting both locations. Frequent monitoring by R2RW technical staff is taking place. Careful attention is being placed on nutrition, security, record keeping and adequacy of infrastructure.



*RADA goat project in the Great River*

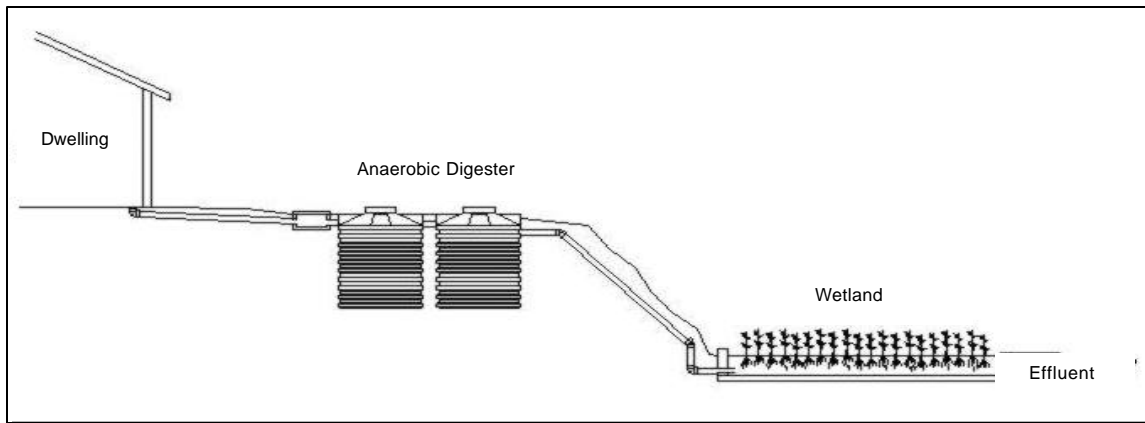
### ***Plant A Tree Campaign***

A Memorandum of Understanding was signed between the R2RW and the Forestry Department to collaborate on the implementation of a Plant A Tree campaign that would plant 50,000 timber trees in targeted areas of the GRW. Mr. Nerval Brown was hired as project coordinator, and seedling production is on going.

### **3.3 Water and Sanitation Activities in the GRW**

#### ***Water Harvesting and Sanitation Project at Pisgah***

Work continued on the water harvesting and sanitation project at Pisgah. The project took longer to implement than expected due to the steepness of the hill where the wetland was constructed, and the need to dig out large rocks for the foundation.



*Diagram showing constructed wetland*

#### ***Water Harvesting and Sanitation Project at Content***

The Content Progressive Youth Club is implementing a grant to construct bathrooms, showers, and changing rooms adjacent to the existing community center using water harvesting, and a wetland disposal system. The Content community is located near Ramble in the Hanover section of the Great River Watershed. The existing community center was built in the 1970s and is used extensively for JAMAL classes, infant school classes and as a sports recreational facility. Proper bathrooms are needed critically to relieve unsanitary conditions and improve the utility of the facility. A basic school currently housed at a local church is to be moved to the community center once the bathrooms are complete. The center services both Content and Milestone communities. The project will support watershed protection through improving sanitation conditions in the community, and serve as a demonstration of low-cost wastewater disposal. The community has agreed to provide all unskilled labor and to provide meals for workers. The total value of the Project is J\$703,276.

#### **Mafoota Car Wash and Laundry**

This grant with the Mafoota Citizens Association will be used to construct a community car wash and laundry facility adjacent to the existing community center to provide an alternative to existing practices that are polluting the local river. The Mafoota community is located near Cambridge in the St. James section of the Great River Watershed. The building is a retrofitted container (20' x 8') on a large concrete slab with one side devoted to a laundry facility and the other for a car wash. A condition of approval is that a MOU be developed between the Citizens Association, the

Youth Club and R2RW that will specify how the facility will be managed. Fees are to be collected for payment of an attendant, supplies and expenses such as the water bill. The project will support watershed protection through improving sanitation conditions in the community by directly providing an alternative to current sanitary practices of washing vehicles and laundry in the river. The community has agreed to donate all unskilled labor of the Project and to provide meals for workers. The total value of the Project is J\$786,225.



*Car being washed in the Great River*

#### ***Water Quality Monitoring on the Great River***

The water quality monitoring program with the Discovery Bay Marine Laboratory, University of the West Indies continued during the period. The Project is measuring 15 parameters of water quality at 18 sites throughout the course of the river. The Chesterfield site continues to show elevated nitrogen, phosphorus and silica when compared to other sampling sites, although flow at the site is often low. Fecal coliforms are also high there (as elsewhere). During the November field trip an extra sample was taken on a tributary upstream of the Chesterfield sampling site and this showed similar levels of contamination. *This suggests that the land use practices in the upper reaches of the river are leading to contamination of the river and that this could be a focal point for intervention.*

Fecal coliforms continue to be elevated (>400MPN on any one occasion) at all river sites except Stonehenge and the contamination frequently extends well into Great River Bay. Pesticide analyses on sediment collected at the Unity Hall road bridge during September indicated no detectable pesticide residues (Malathion, Bravo, Danitol and Pegasus tested for) suggesting that contamination of the river by pesticides is not a major issue. Farmers in the upper reaches of the river have indicated that they do not use pesticides to any great extent. Sediment does not accumulate in the river and so water samples will be tested at least twice during the remaining time of the project to further test this preliminary conclusion. The results of the program can be summarized as follows:

- a. The concentrations of TOxN, NH<sub>3</sub> and SRP are elevated.
- b. Rainfall events lead to high suspended solids and peaks in N concentrations,
- c. The suspended load reaching the coast is high, especially under flood conditions,
- d. The bacteria load in the river is significantly elevated,

- e. Some phosphorus and ammonia is being released to the coastal waters from particles carried to the coast by the river,
- f. Pesticide contamination in the Great River appears to be minimal at most,
- g. Fecal coliform contamination is minimal in the Rio Bueno (comparison river)
- h. There is frequently a brackish surface water layer in Great River Bay and this often extends as far as the reef in the vicinity of Harris Point and out to at least the mid point (north-south) of the Bay.



*Water Quality Monitoring*

### **3.4 Public Awareness Activities in the GRW**

#### ***Design a Logo for the GRWMC***

A logo was designed for the use of the Great River Watershed Management Committee. The logo is already being used on promotional materials for the Great River Green Village Program.



#### ***Exchange Visit between upper and lower Watershed Residents***

On World Wetlands Day February 2, 2003, R2RW sponsored an educational program with the Montego Bay Marine Park on the importance of wetlands. Residents of communities of the upper Great River Watershed joined environmentalists for slide presentations on the ecology of wetlands, and took a boat tour of the Bogue lagoon to see fish and bird habitat. In addition, on February 2 more than 50 people took part in a walking tour of the mangroves fringing the lagoon.

#### ***Water and Sanitation Tour***

A tour of R2RW funded Water and Sanitation demonstration projects and grants was conducted in January 2003 by members of the Public Awareness and Water and Sanitation Task Forces. The tour highlighted the use of constructed wetlands as a way of disposing sewage effluent in an inexpensive manner that meets environmental quality regulations.



*Water Harvesting and Sanitation Tour in Pisgah*

### **Water and Sanitation Instructional Materials**

Promotional fliers and posters were produced to show how to construct aerobic and anaerobic digesters and how to size them.



*Grass growing in constructed wetland*

### **Video of Water and Sanitation Technologies**

Work began on the production of an instructional video package on water and sanitation solutions that are now being implemented by R2RW. The Montego Bay Marine Park is the lead for this activity. A contract has been signed and a script has been drafted, and filming is expected to begin in the second week of April 2003.

### **Promote Community Awareness: River Action with the Action Boyz**

The Action Boyz is a group of five brothers and two cousins who have been performing in the Montego Bay area for hotels, stage shows, concerts, parties and community events since 1995. This six-month drama program, is an initiative of the Great River Watershed Management Committee (GRWMC) and was a direct result of collaboration of the agencies participating in the Public Awareness Task Force. Two different plays are been produced: the first, *Wha Yuh Dash*



*Wey Nuh Wash Wey* (What you dash away won't wash away) focuses on issues related to improper sewage and solid waste disposal. The second play, *Saal Ting an Waata Eena Trobble* (Salt ting (fish) and Water are in Trouble) highlights the damage caused by improper pesticide use and harmful agricultural practices.



*Action Boyz with the US Ambassador*

Both plays have been written through the collaboration of many different agencies including the Public Health Department, the Pesticide Control Authority, the National Water Commission, the National Environment and Planning Agency, the Montego Bay Marine Park and others. Heather McFarlane coordinates the project. Although their message is serious, the dramas rely on large doses of humor to get their points across in a non-confrontational manner and are meant to inspire community discussion of the issues and actions to be taken. United States Ambassador Sue McCourt-Cobb officially launched the Program on Earth Day, Tuesday, April 22<sup>nd</sup>.

### ***Support and Implement Activities Emerging from the KAP Workshop***

Following the KAP survey workshop, the PATF confirmed that public education efforts to enhance water and sanitation awareness should be a priority. To this end, two major activities have been pursued. The first is the launch of a participatory drama program – River Action with the Action Boyz. The second is the Great River Green Village program that aims to promote community stewardship through a best-kept community competition.

### **3.5 Gender Considerations**

The R2RW Project focused on the collection and assessment of gender disaggregated data to serve as a basis for making project interventions. A background paper on gender considerations and guiding principles for the development of a gender strategy was presented for the project. In addition, a gender-disaggregated data from secondary sources was compiled to provide a general gender profile of both project areas.

Although a gender checklist was developed for project activity reports and is used by PAPAS, the progress with respect to gender mainstreaming in the project was been slower than expected, but has improved substantially over the past six months.

### ***Hold task Force Meetings at Venues and Times that Enhance Gender Equity***

Efforts have been made to schedule task force and project activity meetings in communities within the GRW or in Montego Bay as appropriate so as to ensure that participation in activities is as inclusive as possible.

### **Provide Annual Gender Report of Project Activities**

A draft report was prepared in March 2003 entitled "Gender Equity in Sustainable Watershed Management". The report states that:

*"R2RW is not a gender project but a project that seeks to enhance people's sustainable use of natural resources in two main watersheds of Jamaica. For this very reason, R2RW is concerned with sustainable livelihoods and the impact that people (men, women and children) have on existing natural resource use. To this extent, R2RW must also be concerned about poverty levels since, in many circles, it is widely thought that "poverty" is one of the most important reasons for environmental degradation. The rural poor, for instance, are more likely to burn charcoal, farm on inappropriate lands, live in informal settlements, dump garbage in gullies, and rely on springs or rivers for domestic water. Approaches to sustainable watershed management must therefore offer solutions for communities to make use of natural resources in a sustainable manner that enhance their everyday lives."*

In order to achieve this objective of social and gender equity, the following steps are needed:

1. Sensitization to the principles of "gender equity" among decision-makers and project monitors;
2. Gender analysis – to look at how people are the same and different with respect to natural resource use, decision-making, employment, positions of leadership and many other factors.
3. The review of existing gender checklists to determine appropriate indicators to assess equity in project interventions;
4. Gender training – to ensure that those implementing projects are addressing gender issues that may arise and risk the goal of achieving social equity;
5. Monitoring of projects using the indicators established; and
6. Assessing impact of final outcomes using the indicators established.

To date, R2RW has attempted to achieve introductory steps 1-4 and is beginning to address steps 5 and 6.

### **3.6 Analysis of Activities**

The Table below highlights the estimated percentage of planned activities completed for the period under review.

#	Activities	Estimated % Completion	Comments
3.1	Development of Role, Mandate and Programs of the GRWMC	37%	Progress made on program development and management, and WMC capacity building.
3.2	Production and Marketing Activities in the GRW	29%	Four new programs launched.
3.3	Water and Sanitation Activities in the GRW	27%	Water quality monitoring on going, two new grant begun.
3.4	Public Awareness Activities in the GRW	31%	PATF active. River action program launched.

#	Activities	Estimated % Completion	Comments
3.5	Gender Considerations	47%	Gender factors considered in program implementation.

### 3.7 Performance Benchmarks

#### ***GRWMC and Task Forces Functional & Addressing Priority Issues in GRW***

The GRWMC continues to act as a dynamic mechanism that brings together the State Agencies with NGOs and communities throughout the GRW. An Annual General Meeting was held on November 2002, and reports were presented on the progress made under each of the Task Forces:

- Production and Marketing
- Water and Sanitation
- Public Awareness
- Compliance and Enforcement

#### ***Three Projects Implemented by the Production & Marketing Task Force***

The Production and Marketing Task Force continued to work on a number of projects that address critical issues in the GRW. Projects implemented during the period included:

- Plant A Tree Campaign
- Goat Improvement Project
- Design of other income generation initiatives

#### ***Three Projects Implemented by the Water & Sanitation Task Force***

The Water and Sanitation Task Force implemented the following projects during the period

- Content Water Harvesting and Sanitation Project
- Pisgah Water Harvesting and Sanitation Project
- Water Quality Monitoring Program

#### ***Community Stewardship Certification Program Launched***

The launch of the Great River Green Village Program by the US Ambassador is planned for a ceremony that will be held on Earth Day 2003.



#### 4. **Component 1B: Sustainable Environmental Practices in the Rio Grande Watershed**

The Rio Grande Watershed Management Committee built on the foundation laid during year 2 of the R2RW to identify what the members felt were their priority issues. The RGW in contrast to the GRW, is located within a single parish and contains fewer residents and representatives of State Agencies. The RGW is characterized by very high rainfall, and suffers from bad roads. The RGWMC has benefited from the work of the Social Development Commission in terms of communities being organized. This preparation work has been evident in the large number of Grant Applications received for the Rio Grande Watershed.

Overall progress on program within the Rio Grande Watershed has been delayed when compared to the Great River Watershed. This is primarily a function of the fact that the RGWMC was formed one year after the GRWMC. There is a necessary incubation period for the WMC to develop a consensus on program priorities, and the design and refinement of program documentation.

Project progress is summarized first in a comprehensive manner through an updated Microsoft Project Table. Following the table, text descriptions are provided for selected activities that represent significant achievements.



*Rio Grande Valley*










**Third Annual Work Plan**  
 October 1, 2002 to September 30, 2003  
 Progress as at March 31, 2003

ID	Task Name	2003												2004			
		Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	
200	<b>4 Sustainable Environmental Practices in the Rio Grande Watershed</b>																35%
201	<b>4.1 The Rio Grande Watershed Management Committee</b>																25%
202	4.1.1 Development of the Rio Grande Watershed Management Committee																26%
246	4.1.2 Management Activities of the RGWMC																91%
247	4.1.2.1 Administer funds for travel reimbursement and communications																45%
260	4.1.2.3 Develop local secretariat skills and services																100%
265	4.1.2.3 Prioritize issues for "Special Studies"																90%
266	4.1.3 Registration of the RGWMC																25%
267	4.1.3.1 Submit application for WMC certification to the NIWMC																0%
268	4.1.3.2 Examine the options for RGWMC incorporation and registration																45%
269	4.1.3.3 Complete legal registration																0%
270	4.1.4 RGWMC managed Program Initiatives																0%
271	4.1.4.1 Implement the Community Stewardship Initiative																0%
272	4.1.4.2 Stewardship training initiatives																0%
273	4.1.4.2.1 Project financing																0%
274	4.1.4.2.2 Environmental Stewardship																0%
275	4.1.4.2.3 Project Management																0%
276	4.1.4.2.4 Development planning																0%
277	<b>4.2 Land and Conservation Activities</b>																33%
278	4.2.1 Establish RGWMC Land and Conservation Task Force																52%
279	4.2.1.1 Initial meeting of Land and Conservation Task Force																100%
280	4.2.1.2 Prioritize agricultural interventions																100%
281	4.2.1.3 Design intervention activities with appropriate partners																35%
282	4.2.2 Improved Crop Varieties																35%
283	4.2.2.1 Continue to multiply and distribute disease resistant banana suckers																40%
284	4.2.2.2 Planting of new tree crop varieties																0%

Project: Third AWP Date: Tue 5/6/03	Critical		Task Progress		Summary	
	Critical Progress		Milestone		*Rolled Up Task	
	Task		Summary Progress		*Rolled Up Task Progress	

**Third Annual Work Plan**  
 October 1, 2002 to September 30, 2003  
 Progress as at March 31, 2003

ID	Task Name	2003												2004				
		Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov		
285	4.2.2.3 Investigate options for nursery development																	0%
286	4.2.2.4 Support initiatives to develop organic farming potential																	50%
287	4.2.3 Livestock Improvement																	29%
288	4.2.3.1 Investigate feasibility of Goat Management Project																	40%
289	4.2.3.2 Follow up livestock development opportunities																	0%
290	4.2.4 Enterprise Development																	0%
291	4.2.4.1 Assessment of agro-processing opportunities																	0%
292	4.2.4.2 Foster and promote eco-tourism initiatives																	0%
293	<b>4.3 Water and Sanitation Activities</b>																	32%
294	4.3.1 Water and Sanitation Task Force																	48%
295	4.3.1.1 Establish the task force as a dynamic, cohesive task force																	100%
296	4.3.1.2 Identify priority interventions																	100%
297	4.3.1.3 Define roles and responsibilities in MOUs																	20%
298	4.3.2 Water & Wastewater interventions																	29%
299	4.3.2.1 Implement Water Harvesting and sanitation project in Belleview																	0%
300	4.3.2.2 Sanitation project in Millbank																	40%
301	4.3.2.3 Design, develop and implement other water supply projects																	31%
308	4.3.3 Solid Waste interventions																	25%
309	4.3.3.1 Collaborate with CWIP on complimentary project in Port Antonio																	80%
310	4.3.3.2 Design with NSWMA solutions for garbage collection in the upper RGW																	0%
311	4.3.4 Water Quality Monitoring																	35%
312	4.3.4.1 Review CWIP experience with water quality monitoring in Portland																	44%
313	4.3.4.2 Develop SOW for water quality monitoring program for the Rio Grande																	25%
314	4.3.4.3 Sign contract to implement Water Quality Monitoring Program																	0%
315	4.3.4.4 Sampling, analysis and reporting of water quality data																	0%
319	<b>4.4 Public Awareness Activities in the RGW</b>																	36%

Project: Third AWP Date: Tue 5/6/03	Critical		Task Progress		Summary	
	Critical Progress		Milestone		*Rolled Up Task	
	Task		Summary Progress		*Rolled Up Task Progress	

**Third Annual Work Plan**  
 October 1, 2002 to September 30, 2003  
 Progress as at March 31, 2003

ID	Task Name	2003												2004			
		Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	
320	4.4.1 Public Awareness Working Group																36%
321	4.4.1.1 Participate in local fairs and Exhibits																
322	4.4.1.2 Training in community facilitation																0%
323	4.4.1.3 Training in writing effective news releases																100%
324	4.4.1.4 Training in video production																30%
325	4.4.1.5 Training in the application of media in lobbying and advocacy																0%
326	4.4.1.6 Design activities emerging from the KAP workshop																50%
327	4.4.1.7 Distribute water and sanitation materials to support community activities																30%
328	<b>4.5 Gender Considerations in the Rio Grande Watershed</b>																56%
329	4.5.1 Conduct "gender & the environment" training with RGWMC																100%
330	4.5.2 Incorporate gender checklist into review of grant applications																0%
331	4.5.3 Hold Task Force Meetings at venues and at times that enhance gender equity																70%
332	4.5.4 Support additional training to enhance awareness of gender principles																0%
333	4.5.5 Provide annual gender report of Project activities and accomplishments																100%
334	<b>Component 1B Benchmarks</b>																
335	<b>Watershed monitoring protocols (incl water quality) established and implemented</b>																★ 9/30
336	<b>Two workshops held to develop secretarial skills of key members of RGWMC &amp; TFs</b>																★ 9/30
337	<b>RGW Management Plan &amp; Strategy developed</b>																★ 9/30
338	<b>Three projects related to land &amp; conservation implemented</b>																★ 9/30
339	<b>Three Water harvesting and sanitation projects completed</b>																★ 9/30
340	<b>Three public awareness training sessions completed</b>																★ 9/30
341	<b>One gender &amp; the environment workshop held</b>																★ 9/30

Project: Third AWP Date: Tue 5/6/03	Critical		Task Progress		Summary	
	Critical Progress		Milestone	★	*Rolled Up Task	
	Task		Summary Progress		*Rolled Up Task Progress	

#### 4.1 Rio Grande Watershed Management Committee

##### ***Administer Funds for Travel Reimbursement and Communications***

Given the large number of communities participating in the RGWMC and its four task forces, a mechanism was put in place to reimburse community representatives for their travel costs to Port Antonio.

##### ***Capacity Building Training***

A training workshop was held in January 2003 to build skills in a variety of topics needed to operate a WMC. The workshop primarily targeted the officers of the RGWMC and its Task Forces. It communicated important methods and skills necessary to conduct successful meetings and record the proceedings in a standard professional manner. The workshop therefore aims to promote the efficiency of RGWMC activities and enhance the capacity of its collaborating stakeholder organizations operating in the watershed. Topics included: meeting management, time management, and the taking of minutes. Follow-up meetings were conducted with the secretaries of the RGWMC and its Task Forces to hone their skills in minute taking

Follow-up sessions were held:

- To review aspects of the Meeting Management training held on January 15, 2003
- To review the roles and responsibilities of secretaries of the RGWMC and its Task Forces.
- To discuss the methods of recording minutes for the RGWMC and its Task Forces.



*Rio Grande Watershed Management Committee*

#### 4.2 Land and Conservation Activities in the RGW

##### ***Design intervention activities with appropriate partners:***

The following grants were approved during the period.

##### ***Rock Hall***

The purpose of the grant is to increase agricultural production and to sustain the economic livelihood in the Rock Hall community. The Rock Hall community is in the western side of the lower Rio Grande Valley near Chatsworth area of Portland. The Project has been developed

through the active participation of local officers of the Rural Agricultural Development Authority. In addition, the project builds on previous work of the Forestry Department with agroforestry plots in the area. The Project will support watershed protection through reforestation and planting of timber and fruit trees, establishment of contour barriers using pineapple, establishing contour head ditches, and using vegetative techniques for the plugging of gullies. The participating farmers will be responsible for contributing all labor for the project, while R2RW funds will be used for the purchase of timber and fruit tree seedlings and pineapple suckers as well as other inputs needed for the Project. The total value of the Project is J\$801,202.

#### Industry

The Project seeks to address deforestation and soil erosion and their impact on the quality and quantity of water through a program of agroforestry, and land husbandry on private lands in the Industry community. This community is located in the western side of the lower Rio Grande Valley near Chatsworth area of Portland. The Project was developed through the active participation of the Portland Rural Agricultural Development Authority. The Project will support watershed protection through reforestation and planting of timber and fruit trees, establishment of contour barriers using pineapple, establishing contour head ditches, and using vegetative techniques for the plugging of gullies. The participating farmers will be responsible for contributing all labor for the project, while R2RW funds will be used for the purchase of timber and fruit tree seedlings and pineapple suckers as well as other inputs needed for the Project. The total value of the Project is J\$811,367.

#### Coopers Hill

The Project seeks to address deforestation and soil erosion and their impacts on the quality and quantity of water through a program of agroforestry, and land husbandry on private lands in the Coopers Hill area. The Coopers Hill community is located above the Back Rio Grande area of Portland. The Project was developed through the active participation of the Forestry Department. The project will support watershed protection through reforestation and planting of timber and fruit trees, establishment of contour barriers using pineapple, establishing contour head ditches, and using vegetative techniques for the plugging of gullies. The participating farmers will be responsible for contributing all labor for the project, while R2RW funds will be used for the purchase of timber and fruit tree seedlings and pineapple suckers as well as other inputs needed for the Project. The total value of the Project is J\$811,367

#### ***Continue to Multiply and Distribute Disease Resistant Banana and Plantain Suckers***

With the assistance of the Banana Board, work continued on the testing and multiplication of new FHIA varieties of banana and plantain imported from Honduras and chosen for their resistance to black sigatoka disease. Varieties are to be market tested for their suitability. Samples were tested for suitability as banana chips. Trial plots have been established, and multiplication continues.

#### **4.3 Water and Sanitation Activities in the RGW**

##### ***Water Harvesting and Sanitation Project in Millbank***

A Project is underway in Millbank to construct sanitation solutions to service 15 households. Twelve (12) households will be serviced by individually constructed wetlands on site. The remaining households will utilize a communal system near the park.





*Sanitation project in Milbank*

During the implementation of the project, an existing unutilized Pig Pen foundation was converted to a constructed wetland. It is important to demonstrate to the community the flexibility of the system by retrofitting the Pig Pen foundation.

#### ***Moore Town Water Supply Improvement Project***



*Mr. Mark Nolan, Project Manager, Col. Wallace Sterling, Donald Rhodd, MP, and Minister of Local Government, Hon. Portia Simpson Miller*

This Project was launched on “World Water Day” on March 22, 2003 to improve the water supply of three rural Portland communities, Moore Town, Seamans Valley and Windsor. The activity is a collaborative effort of the Moore Town Maroon Council and the Rio Grande Watershed Management Committee (RGWMC). It includes the upgrading of the existing entombment at the Annis River (Bizzi Spring), the laying of a new 4-inch feed line from the spring to the main road at Seamans Valley and the establishment of a new 4-inch pipe from Seamans Valley into Moore Town. The members of Moore Town Maroon Council contributed the majority of the labor for the project.

### ***Design and Develop other Water Improvement Projects***

Due to the number of grant applications received from communities for water supply improvement projects, R2RW has joined with the National Water Commission to facilitate the design of improvements to the water supply systems in five other communities of the RGW: Comfort Castle, Cornwall Barracks, Burbon, Windsor and Durham.

#### **4.4 Public Awareness Activities in the RGW**

##### ***Community Education Proposal***

The JCDT submitted a project to develop, and implement a Community Education Program for Sustainable Watershed Management in targeted communities of the Rio Grande Watershed adjacent to the Blue and John Crow Mountains National Park. Specifically, the Project will focus on three main programmatic areas of focus:

- Engendering environmental stewardship of natural resources by communities
- Enhancing understanding, compliance and enforcement of Environmental Laws
- Promoting practices for sustainable livelihoods.

The project will be carried out through activities that:

1. Increase awareness and knowledge of community members about the Blue and John Crow Mountain National Park and the Rio Grande Watershed in terms of sustainable management of the natural resources – plants/forest, soil, wildlife and water resources.
2. Increase understanding regarding the negative effect of harmful practices e.g. deforestation, cultivation of steep slopes; overuse of agricultural chemicals, improper sewage disposal, etc.
3. Increase skills for, and use of environmentally friendly and sustainable agricultural practices.

The R2RW Project will provide information, technical assistance, training, materials and broader watershed-wide coordination for wider watershed related activities. The Project will also focus on implementation at the community level, particularly within those communities that fall within the upper watershed area.

##### ***Logo Competition***

A logo competition is underway to come up with a logo for the RGWMC.

##### ***Training for Public Awareness Working Group***

A number of training activities have begun for members of the Rio Grande Public Awareness Task Force. These include writing effective news releases and training *in* video production.

#### **4.5 Gender Considerations in the RGW**

##### ***Provide Annual Gender Report***

A draft report was prepared in March 2003 entitled “Gender Equity in Sustainable Watershed Management”.



#### 4.6 Analysis of Activities by Percentage of Planned Activities Completed

The Table below highlights the estimated percentage of planned activities completed for the period under review.

#	Activities	Estimated % Completion	Comments
4.1	Rio Grande Watershed Management Committee	25%	Capacity built through training in management skills.
4.2	Land and Conservation Activities in the RGW	33%	Three agro-forestry and soil conservation projects launched.
4.3	Water and Sanitation Activities in the RGW	32%	Two new water and sanitation begun.
4.4	Public Awareness Activities in the RGW	36%	PAWG has met regularly and training initiatives have been undertaken in news release writing and video production
4.5	Gender Considerations in the RGW	56%	Data from RGWMC included in report. Introduction of gender equity principles provided to RGWMC.

#### 4.7 Performance Benchmarks

##### ***Two Workshops Held to Develop Secretarial Skills of Key Members of RGWMC & Task Forces***

An initial training program was conducted in January 2003 to build skills in a variety of topics needed to operate a WMC. Topics included meeting management, time management, and the taking of minutes. Follow-up meetings were conducted with the secretaries of the RGWMC and its Task Forces to hone their skills in minute taking.

##### ***Three Projects Related to Land and Conservation Implemented***

Three new agroforestry and soil conservation projects were designed and signed in the communities of Rock Hall, Industry and Coopers Hill.

##### ***Three Water Harvesting and Sanitation Projects Completed***

Two new water and sanitation grant projects were started during the period. These are as follows:

- Millbank Sanitation Project seeks to construct 15 home toilet and septic systems using mini constructed wetlands.
- Moore Town Water Supply Improvement to upgrade the entombment at Bizzi Springs, and run approximately 3 miles of 4-inch pipeline.

##### ***Three Public Awareness Training Sessions Completed***

A two-day introductory training session in video production skills was provided for 6 members of the RGWMC and also for one member of NEPA's public education and outreach branch. Two training sessions were also held to introduce members of the PAWG, RGWMC, and members of the Portland PDC, to the skills of writing effective news releases. More than 20 persons participated and four have successfully completed their assignments and will be awarded certificates.

## 5. Component 2 - Incentives for and Obstacles to Enforcement of Targeted Existing Environmental Regulations Identified and Solutions Supported

### Introduction

Component 2 works with the assumption that improving enforcement must begin with understanding the reasons why individuals and organizations do not obey current policies and regulations. The judicial services must be assessed to determine the issues that prevent them from adequately supporting enforcement decisions. From dialogue, strategic actions will emerge that will, undoubtedly, involve increasing the awareness of stakeholders of existing regulatory systems and the roles individuals and organizations would play in an improved system. Activities under this component should result in improved effectiveness of policy implementation and increased certainty of enforcement when infractions occur.

Attempts to support a national enabling environment and to achieve more community participation to encourage compliance with, and greater enforcement of environmental laws by all stakeholders, have highlighted the need for higher levels of understanding of these laws, and a trained cadre of officers to assist with compliance and enforcement of these laws. Major accomplishments under Component 2 during this reporting period are highlighted below.

Project progress is summarized first in a comprehensive manner through an updated Microsoft Project Table. Following the table, text descriptions are provided for selected activities that represent significant achievements.



*Sand Mining on the Rio Grande*










**Third Annual Work Plan**  
 October 1, 2002 to September 30, 2003  
 Progress as at March 31, 2003

ID	Task Name	2003												2004		
		Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
342	<b>5 Enhancing Compliance and Enforcement</b>													19%		
343	<b>5.1 Compliance and Enforcement - Nationally</b>													45%		
344	5.1.1 Support National Initiatives to Improve C&E													42%		
345	5.1.1.1 Sensitization program for judges and other court personnel													51%		
346	5.1.1.1.1 Meeting with Chief Justice													100%		
347	5.1.1.1.2 Implement Sensitization Initiatives													50%		
348	5.1.1.2 Complete Training of Trainers Activity with NEPA													100%		
349	5.1.1.3 Complete the preparation and distribution of the pocketsize field-guide													90%		
350	5.1.1.4 Refining and implement training programs in C&E													30%		
351	5.1.2 Enhanced Policy and Legislation for Watershed Management													67%		
352	5.1.2.1 Finalize review of Watershed Policy, and Watershed Program													80%		
353	5.1.2.2 Undertake Workshop to complete process													20%		
354	5.1.2.3 Support NEPA in resubmission of Green Paper													0%		
355	5.1.2.4 Complete review of LWMCs, and implement recommendations													90%		
356	5.1.2.5 Commence activities to review Watershed Protection Act													0%		
357	5.1.3 Private sector incentives in Watershed Management													18%		
358	5.1.3.1 Finalize Review of private sector incentives for WM													100%		
359	5.1.3.1.1 Private sector incentives study Presentation - National													100%		
360	5.1.3.1.2 Private sector incentives study Presentation - Montego Bay													100%		
361	5.1.3.1.3 Private sector incentives study Presentation - Port Antonio													100%		
362	5.1.3.1.4 Final Report (with feedback)													100%		
363	5.1.3.1.5 Undertake National Workshop to disseminate findings													100%		
364	5.1.3.2 Support the implementation of incentives for Watershed Management													0%		
365	5.1.4 Enhanced Public Awareness of Compliance and Enforcement													28%		
366	5.1.4.1 Finalize "Popular Materials for Compliance & Enforcement" and launch													60%		
367	5.1.4.2 Media campaign to promote posters and jingle													30%		

Project: Third AWP Date: Tue 5/6/03	Critical		Task Progress		Summary	
	Critical Progress		Milestone		*Rolled Up Task	
	Task		Summary Progress		*Rolled Up Task Progress	









**Third Annual Work Plan**  
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ID	Task Name	2003												2004				
		Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov		
368	5.1.4.3 Air jingle over regular radio																	0%
369	5.1.4.4 Distribute materials/posters through relevant channels.																	0%
370	<b>5.2 Compliance and Enforcement in the Great River Watershed (GRW)</b>																	15%
371	5.2.1 Support Governance Mechanisms for enhanced C&E in the GRW																	10%
372	5.2.1.1 Technical, training and secretarial support to the C&E Task Force																	50%
377	5.2.1.2 Support NEPA and SDC to enhance governance mechanisms in C&E																	10%
378	5.2.1.3 Review the declaration of the GRW area as a Development area																	0%
379	5.2.2 Capacity development for organizations involved in C&E in the GRW																	47%
380	5.2.2.1 Establish database and coordination plan for C&E in the GRW																	100%
381	5.2.2.2 Provide support to prioritized critical list of equipment																	0%
382	5.2.2.3 Training programs for C&E Officers in the GRW																	0%
383	5.2.2.4 Training programs for Community Groups in C&E Issues																	0%
387	5.2.3 Implement priority activities of the C&E Task Force of the GRW																	0%
388	5.2.3.1 Develop and implement strategy to improve C&E in solid waste mgmt.																	0%
389	5.2.3.2 Develop and implement strategy to mitigate deforestation																	0%
390	5.2.3.3 Implement Communities compliance and enforcement activities																	0%
391	5.2.3.4 Implement priority incentives for Private Sector investment in WM																	0%
392	5.2.3.5 Work with CBOs to develop and implement projects using R2RW grants																	0%
393	5.2.3.6 Identify and design special studies on C&E Issues in the GRW																	0%
396	5.2.4 Develop and Implement lobbying and advocacy in the GRW																	0%
400	<b>5.3 C&amp;E in Portland, with emphasis on the Rio Grande Watershed (RGW)</b>																	8%
401	5.3.1 Support Governance Mechanisms for enhanced C&E in Portland & RGW																	73%
402	5.3.1.1 Complete the establishment of the Portland C&E Task Force																	100%
403	5.3.1.2 Technical, training and secret. support to C&E Task Force in RGW																	50%
408	5.3.2 Capacity development for organizations and Groups involve in C&E in Portland																	13%
409	5.3.2.1 Establish database and coordination plan for C&E in Portland																	20%

Project: Third AWP Date: Tue 5/6/03	Critical		Task Progress		Summary	
	Critical Progress		Milestone		*Rolled Up Task	
	Task		Summary Progress		*Rolled Up Task Progress	

**Third Annual Work Plan**  
 October 1, 2002 to September 30, 2003  
 Progress as at March 31, 2003

ID	Task Name	2003												2004				
		Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov		
410	5.3.2.2 Provide support to prioritized critical list of equipment																	0%
411	5.3.2.3 Implement training programs for C&E Officers in Portland																	
412	5.3.2.4 Implement training of Community Groups in C&E Issues																	0%
416	5.3.3 Implement priority activities of the Portland C&E Task Force																	8%
417	5.3.3.1 Develop and implement process for monitoring of NR Extraction																	10%
418	5.3.3.2 Develop and implement strategy to mitigate deforestation																	10%
419	5.3.3.3 Develop and implement strategies to decrease soil erosion																	10%
420	5.3.3.4 Develop and implement strategies to eliminate poisoning of rivers																	10%
421	5.3.3.5 Develop and implement strategy to improve C&E in solid waste mgmt.																	10%
422	5.3.3.6 Implement priority incentives to support Private Sector investment in WM																	0%
423	5.3.3.7 Identify and design special studies on C&E issues																	0%
424	5.3.4 Develop and implement lobbying and advocacy in the RGW																	0%
425	5.3.4.1 Disseminate popular materials for C&E																	0%
426	5.3.4.2 Encourage community level stewardship programs e.g. Junior Rangers																	0%
427	5.3.4.3 Develop and implement lobbying and advocacy activities																	0%
428	<b>Component 2 Benchmarks</b>																	★ 9/30
429	<b>Activities to sensitize judges &amp; court personnel developed and being implemented</b>																	★ 9/30
430	<b>Training of Trainers activity completed, and watershed level training undertaken</b>																	★ 9/30
431	<b>Pocketsize field guide finalized, distributed and in active usage</b>																	★ 9/30
432	<b>Green paper on watershed policy reviewed and re-submitted</b>																	★ 9/30
433	<b>Popular materials on envir. policies and regulations designed &amp; disseminated</b>																	★ 9/30
434	<b>C &amp; E activities implemented by WMCs and Task Forces in GRW and RGW</b>																	★ 9/30

Project: Third AWP Date: Tue 5/6/03	Critical		Task Progress		Summary	
	Critical Progress		Milestone	★	*Rolled Up Task	
	Task		Summary Progress		*Rolled Up Task Progress	

## **5.1 Compliance and Enforcement Nationally**

### ***Sensitization Program for Judges and Other Court Personnel***

R2RW and ENACT have been working with the Regulatory and Legal Services Division of NEPA to conduct three symposia geared to sensitize Supreme Court Judges, Resident Magistrates and Clerks of the Courts to Environmental Laws and Regulations. These are planned for May, June and July of 2003, and will include bringing in an International Judge to assist with the process.

### ***Complete the Preparation and Distribution of the Pocket-sized Field-Guide***

R2RW and ENACT have worked together to Develop a Pocket-sized version of selected environmental laws and regulations, and prepare this in a final product that is easy to carry by enforcement officers in the field. Compliance and Enforcement Officers in NEPA, Police Officers, and other Enforcement Officers at both the national and parish levels are expected to use this Field Guide. This Pocket-sized Field Guide is a compact version of the Manual, and it is expected that this easier access to laws on the environmental, should increase the effectiveness of compliance with and enforcement in this area. R2RW input in the Pocket-sized Field Guide was completed at the end of 2002. The final product is now being edited.

### ***Finalize Review of Watershed Policy***

The NRCA prepared a Green Paper in 1999 *Towards a Watershed Policy for Jamaica*. This was taken through a consultative process, and recommendations integrated into a final draft that should have moved to a White Paper status. There has however been a delay in this process. During the period of delay, a number of areas for improvement have been identified in this Green Paper. Beverley Pereira was contracted to review and update the draft Watershed Policy, present the results at a national workshop, and prepare the final Watershed Policy for presentation to the Ministry of Land and the Environment. The need to build consensus on exactly what needed to be done led to further delays. A Focus Group was established, and Mrs. Pereira has presented a draft to that group. The revised version is to be taken back to the focus group in April. The National consultation is now scheduled for May 2003.

### ***Finalize Review on Private Sector Incentives for WM***

Dr. Winston McCalla, a Natural Resources Policy Specialist, and Mr. Wilberne Persaud, Natural Resources Economist, were contracted to assist NEPA, the Forestry Department, other related agencies, and the R2RW Project Technical Team to recommend financial incentives that will encourage private sector investment in improved watershed management activities. Following their Report of February 2003, a National Workshop was held on February 4, 2003 to discuss these findings, and prioritized the incentives. That Workshop Report has been distributed to all participants, and the recommendations are being followed up with the Incentives Working Group of the NIWMC, chaired by Marilyn Headley, Conservator of Forests.

### ***Finalize Popular Materials for Compliance and Enforcement***

A set of 14 posters designed to educate the general public on a variety of environmental issues such as deforestation, fires and proper sanitation has been developed. The content of the posters benefited from the input of a number of GOJ stakeholders including NEPA, Forestry Department, RADA, the Ministry of Health, and the National Water Commission, and USAID.



**STOP It nuh legal!**  
 Don't catch, kill, keep or sell any of these animals

All of these animals are protected by Law!

**Maximum penalty under the Wildlife Protection Act \$100,000 and/or 12 Months in Prison!**

**Environmental laws protect your rights.**

For more information or to report an offence under the Wildlife Protection Act, contact:  
 The Joint Wildlife Division, at the National Environment and Planning Agency (NEPA), 11, Convent Avenue, Kingston 5,  
 or call the National Environment and Planning Agency (NEPA), 11, Convent Avenue, Kingston 5,  
 Telephone: (876) 754-1344 (Toll Free: 1-800-955-3862), Fax: (876) 754-1344, Website: www.nepa.gov.jm

A message from the National Environment and Planning Agency (NEPA) sponsored by the United States Agency for International Development (USAID) through the Edge & Bell Foundation (E&BF) Project.

**STOP It nuh legal!**  
 Don't let fires burn out of control when you clear your land!

Uncontrolled fires contribute to soil erosion, landslides and deforestation.

**Maximum penalty under the Country Fires Act: 3 months in prison!**

**Environmental laws protect your rights.**

For more information or to report an offence under the Country Fires Act, contact:  
 The Joint Wildlife Division, at the National Environment and Planning Agency (NEPA), 11, Convent Avenue, Kingston 5,  
 or call the National Environment and Planning Agency (NEPA), 11, Convent Avenue, Kingston 5,  
 Telephone: (876) 754-1344 (Toll Free: 1-800-955-3862), Fax: (876) 754-1344, Website: www.nepa.gov.jm

A message from the National Environment and Planning Agency (NEPA) sponsored by the United States Agency for International Development (USAID) through the Edge & Bell Foundation (E&BF) Project.

**STOP It nuh Clean!**  
 Don't keep animals near our rivers or streams!

**Animals can pollute our water. Keep them at least 55 yards (50 metres) away and carry them water to drink.**

**Environmental laws protect your rights.**

For more information contact your local public health department, or the National Environment and Planning Agency (NEPA), 11, Convent Avenue, Kingston 5,  
 or call the National Environment and Planning Agency (NEPA), 11, Convent Avenue, Kingston 5,  
 Telephone: (876) 754-1344 (Toll Free: 1-800-955-3862), Fax: (876) 754-1344, Website: www.nepa.gov.jm

A message from the National Environment and Planning Agency (NEPA) sponsored by the United States Agency for International Development (USAID) through the Edge & Bell Foundation (E&BF) Project.

**STOP It Nuh legal!**  
 Don't destroy the wire that holds these stones together!

These gabion baskets help prevent landslides and flooding.

**Maximum penalty under the Flood Waters Control Act: 3 months in Prison!**

**Environmental laws protect your rights.**

For more information or to report an offence under the Flood Waters Control Act, contact:  
 The Joint Wildlife Division, at the National Environment and Planning Agency (NEPA), 11, Convent Avenue, Kingston 5,  
 or call the National Environment and Planning Agency (NEPA), 11, Convent Avenue, Kingston 5,  
 Telephone: (876) 754-1344 (Toll Free: 1-800-955-3862), Fax: (876) 754-1344, Website: www.nepa.gov.jm

A message from the National Environment and Planning Agency (NEPA) sponsored by the United States Agency for International Development (USAID) through the Edge & Bell Foundation (E&BF) Project.

4 of 14 Posters Produced to Educate the Public About Environmental Laws

### The Distribution Plan Includes:

Government Ministries; Schools; Libraries; Farm stores; RADA; Forestry Department; Jamaica Livestock Association Branches; JAS groups; 4H clubs; Post Offices; Tax Offices; Licensing Departments.; Colleges such as CASE and Knockalva; Court Houses; Police Stations; Supermarkets; Agricultural Fairs, Expos; NGOs; ENGOs; JAMAL Centers; Public Health Departments; Clinics; Churches; Gas Stations, auto supply stores; and JUTA; Taxi Association Branches, etc. The numbers of individual posters to be printed ranges from 1200 for “cutting trees without a license” to 6000 for “littering from cars.”

In addition, a Purchase Order has been signed to produce a music video to dramatize the music jingle previously prepared. The “it haffi legal” video will be produced by Marie Frances, and will be shot in the Great River Watershed. The Video is expected to be ready for World Environment Day.

## **5.2 Compliance and Enforcement in the GRW**

### ***Establish Database and Coordination Plan for C&E in the GRW***

Leon Hopkins was contracted to review State, Private Sector, Civil Society, and Community Organizations involved in Compliance and Enforcement in the Great River Watershed, develop a database, and implement a Workshop to present and prioritize findings. The draft Report has been completed, and a workshop is to be planned to review the recommendations.

## **5.3 Compliance and Enforcement in the RGW**

### ***Complete the Establishment of the Portland C&E Task Force***

A parish-wide Compliance and Enforcement Task Force was established in Portland to replace the Inter-Agency Working Group established by ENACT. The progress has been slow to date. The stakeholders have agreed to establish seven thematic Coordinators to follow-up on relevant issues. These are Monitoring and Licenses for Natural Resources, Land-based Issues, Water-based Issues, Lobbying and Advocacy (Solid Waste and Sanitation), Public Sector Coordination, Private Sector Coordination, and Disaster Mitigation.

## **5.4 Analysis of Activities**

<b>#</b>	<b>Activities</b>	<b>Estimated % Completion</b>	<b>Comments</b>
<b>5.1</b>	Compliance and Enforcement Nationally	45%	Popular materials developed, incentives study, Pocket Guide finalized.
<b>5.2</b>	Compliance and Enforcement in the GRW	15%	Database established. Topic spokespersons identified.
<b>5.3</b>	Compliance and Enforcement in the RGW	8%	Task Force established.



## 5.5 Performance Benchmarks

### ***Activities to Sensitize Judges and other Court Personnel Developed and being Implemented***

A Program has been worked out with NEPA Legal Services with joint sponsorship from ENACT to conduct a 3 part Magistrates Series on the Environment. The workshops will be as follows:

Resident Magistrates	May 16-18, 2003
Supreme Court	June 13-15, 2003
Clerks of the Courts	July 4-6, 2003

### **Green Paper on Watershed Policy Reviewed and re-Submitted**

The Green Paper "Towards a Watershed Policy for Jamaica" was taken through a consultative process, and recommendations integrated into a final draft that should have moved to a White Paper status. There has however been a delay in this process. During the period of delay, a number of areas for improvement have been identified. Beverley Pereira was contracted to review and update the draft Watershed Policy, present the results at a national workshop, and prepare the final Watershed Policy for presentation to the Ministry of Land and the Environment. A Focus Group was established, and Mrs. Pereira has presented a draft to that group. The revised version is to be taken back to the focus group in April and a National consultation is scheduled for May 2003.

### **"Popular Materials on Environmental Policies, Rules and Regulations Designed and being Disseminated"**

A set of 14 posters has been designed to educate the general public on a variety of environmental issues ranging from deforestation, to fires to proper sanitation. The content of the posters benefited from the input of a number of GOJ stakeholders including NEPA, Forestry Department, RADA, Ministry of Health, National Water Commission and USAID. The numbers of individual posters to be printed ranges from 1, 200 for "cutting trees without a license" to 6, 000 for "littering from cars" In addition, a Purchase Order has been signed to produce a music video to dramatize the music jingle previously prepared. The "it haffi legal" video will be produced by Marie Frances, and will be shot in the Great River Watershed. The Video is expected to be ready for World Environment Day on June 5th, 2003.

## **6. Component 3 - Capacity of Jamaican Government Agencies, International Donors, Private sector and Civil Society Organizations to Implement Effective Watershed Management Programs Enhanced**

### **Introduction**

The threats to Jamaica's natural resources, particularly in the watershed areas, cannot be overcome by the direct efforts of only a few agencies. Diminishing these threats requires that effective partnerships, at both national and local level, are established and supported. It is through the participation of stakeholders that more effective natural resource management will evolve. Promoting the formation and strengthening of stakeholder groups and providing information and coordination necessary for sound environmental management will contribute to long-term, comprehensive environmental improvement.

Many aspects of watershed management are best implemented by local government, NGOs or private sector entities. However, coordination, oversight and regulatory responsibilities for watershed programming must remain the responsibility of GOJ agencies. The newly renamed Sustainable Watersheds Branch of NEPA is expected to play a lead role in policy, information management and monitoring of watersheds. It is expected that the ability of all partners to implement watershed management programs will be enhanced through better cooperation, capacity strengthening and coordination of activities.

Component 3 focuses on enhancing NEPA's capacity, particularly the Sustainable Watersheds Branch (SWB), in watershed management programs. Key to this capacity strengthening will be: improving dissemination and use of information to promote more effective coordination of programs and collaboration of organizations; improving the coordination and effectiveness of data collection, use and sharing; improving mechanisms for involving the private sector, public sector and civil society; and supporting special studies to meet emerging needs, such as a study of the impact of land tenure on adoption of conservation practices, among others.

Project progress is summarized first in a comprehensive manner through an updated Microsoft Project Table. Following the table, text descriptions are provided for selected activities that represent significant achievements.

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435	<b>6 Institutional Strengthening and Capacity Building for Watershed Management</b>													46%		
436	<b>6.1 Capacity Building of the Sustainable Watersheds Branch of NEPA</b>													21%		
437	6.1.1 Strengthening the SWB/NEPA													33%		
438	6.1.1.1 Facilitate Team Building and Strategic Planning exercise with SWB													100%		
439	6.1.1.2 Develop environmental monitoring protocols to monitor watershed health													0%		
440	6.1.1.3 Public Ed.Field Kits developed, produced and field tested													33%		
444	6.1.1.4 Staff Retreat Days													0%		
447	6.1.2 Tools for Sustainable Watershed Management													0%		
448	6.1.2.1 Finalize specifications for remaining equipment needs													0%		
449	6.1.2.2 Procure Equipment													0%		
450	6.1.2.3 Train staff in equipment use													0%		
451	6.1.2.4 Upgrading of the SWB Watershed Database													0%		
452	6.1.2.4.1 Improved physical data													0%		
453	6.1.2.4.2 Audience Assessment Survey data													0%		
454	6.1.2.4.3 Watershed Project database													0%		
455	6.1.3 Training of SWB Staff and Other Key WM Staff													0%		
456	6.1.3.1 Site Assessments and Investigations													0%		
457	6.1.3.2 Project development for WGOs													0%		
458	6.1.3.3 Establish watershed health monitoring protocols													0%		
459	6.1.3.3.1 Review documentation on watershed health protocols													0%		
460	6.1.3.3.2 Prepare protocols for monitoring programs													0%		
461	6.1.3.4 Monitoring Watershed Health through Rapid Appraisals													0%		
462	6.1.3.5 Water quality monitoring programs													0%		
463	6.1.3.6 Public Education Outreach techniques													0%		
464	6.1.4 Networking and Professional Development													37%		
465	6.1.4.1 Attend Seminars on Watershed Management													58%		

Project: Third AWP Date: Tue 5/6/03	Critical		Task Progress		Summary	
	Critical Progress		Milestone		*Rolled Up Task	
	Task		Summary Progress		*Rolled Up Task Progress	

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ID	Task Name	2003												2004		
		Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
466	6.1.4.1.1 Attend International Seminar on Watershed Management	■ 100%														
467	6.1.4.1.2 Attend Caribbean Water and Wastewater Conference	■ 100%														
468	6.1.4.1.3 Attend Seminar on Watershed Management 3	■ 100%														
469	6.1.4.1.4 Attend Seminar on Watershed Management 4	■ 0%														
470	6.1.4.2 Monthly Lunch Hour Series with Presentation by WM Professionals	■ 42%														
483	6.1.4.3 R2RW Mid Point Review	■ 0%														
484	<b>6.2 Enhancing Coordination</b>															
485	6.2.1 National Integrated Watershed Management Council ( NIWMC)	■ 60%														
486	6.2.1.1 Support SWB responsibilities to the NIWMC	■ 56%														
487	6.2.1.2 Develop certification process for LWMCs	■ 50%														
488	6.2.1.3 Develop consensus on priority interventions	■ 65%														
489	6.2.1.4 Develop reporting mechanisms for NIWMC Reporting to Cabinet	■ 0%														
494	6.2.1.5 Incorporate GOJ watershed priorities into GOJ corporate plans	■ 0%														
495	6.2.1.6 Continue to refine Watershed Projects Database	■ 75%														
496	6.2.2 Development of Watershed Management Committees	■ 89%														
497	6.2.2.1 Rationalize approach to establishment of WMCs	■ 90%														
498	6.2.2.2 Publish manual on how to establish WMCs	■ 100%														
499	6.2.2.3 Hold seminar on WMCs for SWB, FD and other organizations	■ 0%														
500	6.2.2.4 Hold First Jamaican WMC networking conference	■ 0%														
501	6.2.3 Mainstreaming Technologies	■ 0%														
502	6.2.3.1 Incorporate constructed wetland technology into Building Code	■ 0%														
503	6.2.3.2 Encourage Min of Ed. to use constructed wetland technology	■ 0%														
504	6.2.3.3 Provision of STTA by W&S Task Force Member Agencies to communities	■ 0%														
505	6.2.3.4 Professional development seminar with EHU and Building Inspectors	■ 0%														
506	6.2.3.5 Explore other promising technologies	■ 0%														
507	6.2.4 Special studies	■ 0%														

Project: Third AWP Date: Tue 5/6/03	Critical		Task Progress		Summary	
	Critical Progress		Milestone		*Rolled Up Task	
	Task		Summary Progress		*Rolled Up Task Progress	









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ID	Task Name	2003												2004		
		Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
508	6.2.4.1 Wide dissemination of special studies brochure	■ 100%														
509	6.2.4.2 Hold media event to announce availability of funds															
510	6.2.4.3 Commission special studies															
511	<b>6.3 Strengthening National Public Awareness Activities</b>															
512	6.3.1 General Public Awareness Activities															
513	6.3.1.1 Produce R2RW Newsletter															
518	6.3.1.2 Promote and keep current R2RW Website															
522	6.3.1.3 Issue Press Releases on Current Project Activities															
535	6.3.2 Enhance NEPA Public Awareness Programs															
536	6.3.2.1 Support NEPA follow-up activities from the KAP workshop															
538	6.3.2.2 Support Public Education Committee of the NIWMC															
541	6.3.3 Expositions															
542	6.3.3.1 National Wood and Water Day															
543	6.3.3.1 Earth Day															
544	6.3.3.3 Environment Week															
545	6.3.3.4 Denbigh															
546	<b>6.4 Gender Activities at the National Level</b>															
547	6.4.1 Conduct "gender & the environment" training with NEPA staff															
548	6.4.2 Incorporate gender checklist reporting into NEPA reporting mechanisms															
549	6.4.3 Revise Grant Fund application to include gender factors															
550	6.4.4 Provide annual gender report of project activities and accomplishments															
551	6.4.5 Support additional training to enhance gender mainstreaming within NEPA															
552	6.4.6 With NEPA, host "Gender and Environment" symposium															
553	<b>Component 3 Benchmarks</b>															
554	<b>Community stewardship program implemented</b>															
555	<b>PubEd kit developed, produced &amp; tested</b>															

Project: Third AWP Date: Tue 5/6/03	Critical		Task Progress		Summary	
	Critical Progress		Milestone	★	*Rolled Up Task	
	Task		Summary Progress		*Rolled Up Task Progress	

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ID	Task Name	2003												2004				
		Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov		
556	<b>Three training courses held</b>																*	9/30
557	<b>Two special studies commissioned</b>																*	9/30
558	<b>Four newsletters published</b>																*	9/30

Project: Third AWP Date: Tue 5/6/03	Critical		Task Progress		Summary	
	Critical Progress		Milestone	*	*Rolled Up Task	
	Task		Summary Progress		*Rolled Up Task Progress	

## 6.1 Capacity Building of the Sustainable Watersheds Branch (SWB)

### ***Facilitate Team Building and Strategic Planning Exercise with the SWB***

A two-day retreat was held January 24-25, at the Starlight Chalet, Silver Hill Gap and Blue Mountains. The Retreat was undertaken to assist members of the SWB in:

- a. Reviewing their earlier Team Building exercise (held in November 2001) in order to determine what has been achieved since, and the challenges faced;
- b. Confirming where the SWB is at this point (Current Reality);
- c. Developing consensus on a “Vision” for the Branch;
- d. Defining what needs to be done in the short-term to achieve this vision (Strategic Direction); and
- e. Defining an action agenda and commitments to realize the agreed strategic objectives.

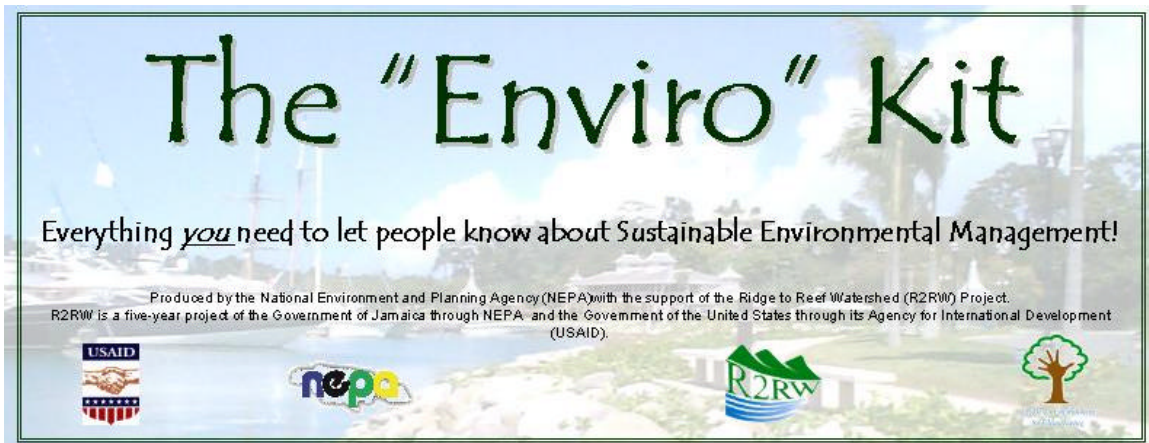


*Sustainable Watersheds Branch Retreat*

### ***Public Education “Enviro” Kits***

Kits for use by field officers to educate the general public are being developed and produced and field-tested. This activity is about 60% completed, an inventory has been done, and materials are being finalized. Still to be finished are:

- Finalize design of new materials;
- Produce materials with carrying kits (*RGW Land Conservation Task Force is investigating carrying kits*); and
- Launch and distribute kits.



### ***Networking and Professional Development***

R2RW Staff and Partners attended three international networking and professional development events during the reporting period.

- Thera Edwards, NEPA/SWB attended an international seminar on Watershed Management at the University of Wisconsin for two weeks October 2002.
- Jason Excell and Maria Protz of R2RW attended the water and waste water conference in St. Lucia for 5 days in October 2003
- Don Streete, NWC attended the International Water Quality Association Conference for one week in March 2003.

### ***Monthly Lunch Hour Series***

The R2RW and the SWB have been holding regular lunch hour presentations on current topics in watershed management on the last Friday of the month. Topics presented during the period were:

- Agricultural systems with Dr. Elizabeth Thomas-Hope;
- Work in the Rio Grande with Dr. Eric Garroway;
- Report of visit to Haiti by Thera Edwards and others; and
- A report on the Watershed Management course in Wisconsin by Thera Edwards.



*Picture of Lunch Hour Series*



## 6.2 Enhancing Coordination

### ***National Integrated Watershed Management Council (NIWMC)***

#### *Support the NIWMC*

Support was provided to the SWB in its responsibilities to the NIWMC through its function as secretariat.

**Projects and Programs** - Using an intern, R2RW assisted in the development of a comprehensive projects database of information on past and present projects implemented in watershed management.

**Incentives** - Conducted a study on incentives for watershed management, and presented the findings at a national workshop.

**Local Group Coordination** - Conducted a review of approaches to formation of LWMCs, and an operations manual on how to establish WMCs.

**Public Education** - Follow-up activities to the KAP Survey.



*Members of the National Integrated Watershed Management Council*

### ***Development of Watershed Management Committees***

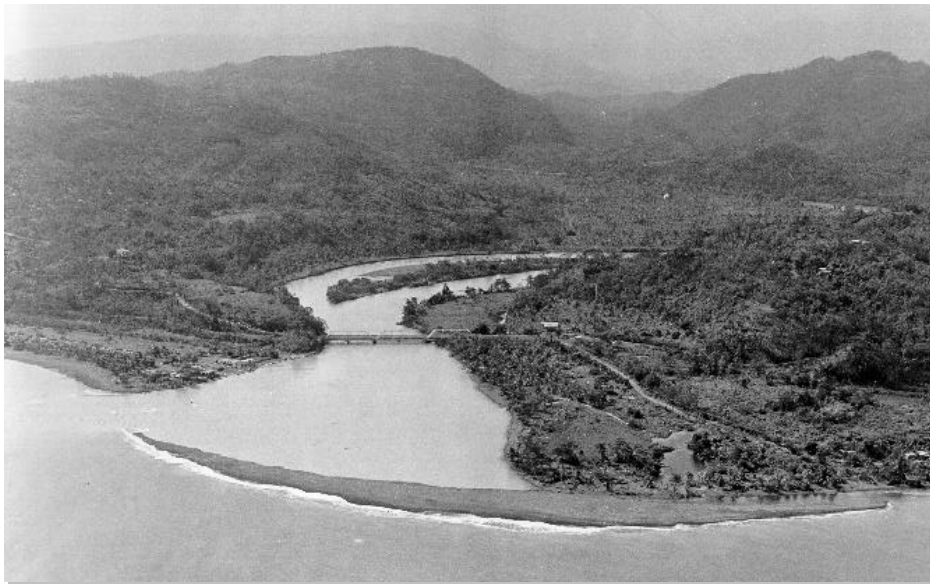
Valerie Gordon was contracted by R2RW to review the different strategies and methods employed to date for establishing Local Watershed Management and Local Forestry Management Committees, and to develop a Procedures Manual for establishing these Committees. These two documents were completed in February 2003, and circulated to stakeholders. A Networking Conference and Training Session are being planned for May 13-14 to review these findings, share experiences, and undertake some training in WMC Operation.

## ***Special Studies***

### ***Coastal Erosion in St. Margaret's Bay***

St. Margaret's Bay is a coastal town situated to the northern part of the Rio Grande Watershed. Arising out of a meeting of the RGWMC, the need to bring scientific rigor to the question of what was causing the erosion of the beach was raised. Upon initial investigation, it was evident that:

- That the beach front is rapidly eroding
- Persons are losing property to the sea
- Residents are convinced that the beach erosion is linked to sand mining in the Lower Rio Grande. The claim is that sand mining reduces the rate of replenishment of the beach. Sand from up-river is no longer being transported by the river to the beach.
- The existing barriers (groins) on the beach, possibly installed by the Public Works Department, no longer exist or have been rendered ineffective.



*Oblique air photograph, c7-08-80, taken immediately after the passage of Hurricane Allen showing large river mouth bar (J. Tyndale-Biscoe).*

A SOW was then developed to conduct a preliminary investigation of the St. Margaret's Bay Beach to:

- Establish whether beach erosion is significant along the coastline of St. Margaret's Bay
- Determine the causes of said beach erosion, and whether there are linkages to activities such as sand mining in the Rio Grande.
- Develop an Action Plan for addressing the problem.

Professor Edward Robinson was contracted to implement the study, and a draft report was presented in March 2003. The report will be presented at a public meeting in May 2003.

### 6.3 Strengthening National Public Awareness Activities

#### **General Public Awareness Activities**

Newsletter - Two quarterly newsletters were produced as planned during the period.

Website - The R2RW website at [www.r2rw-org.jm](http://www.r2rw-org.jm) continues to be maintained to provide access to project information to the general population.

Press Releases - The Project issued regular press releases during the period, as well as participated regularly on Radio Talk shows to discuss environmental topics.

The "Haffi Legal Iya" Campaign - This has been a major initiative at the national level resulting in 14 posters on Jamaica's environmental laws. A music jingle and/or video are also being done for a major launch on June 5<sup>th</sup>, World Environment Day.

#### **Support Public Education Committee of the NIWMC**

A working group was formed to further identify and plan implementation of priority activities coming from the KAP survey. A follow-up meeting with a core group of national representatives was held in December 2002 to review the KAP workshop findings. Some of the priorities in the workshop report were reconsidered by this group and draft implementation plan for a three-year strategy was identified with persons and agencies to be responsible for carrying the components further. Minutes were circulated and a revised report was prepared to incorporate the new priorities. Since December, follow-up meetings have been held with the Water Working Group led by the NWC and the Public Education Sub-committee of the NIWMC.

### 6.4 Gender Activities at the National Level

#### **Provide Annual Gender Report of Project Activities**

This is a major report that outlines project achievements within the first two years of R2RW's operation. It includes baseline data, background information, summaries of training exercises to date, and recommendations for how R2RW can continue to mainstream gender in all of its activities over the next 2.5 years. The report to be prepared in October 2003 will be more comprehensive focusing on Year Three activities.

### 6.5 Analysis of Activities

#	Activities	Estimated % Completion	Comments
6.1	Capacity Building of the Sustainable Watersheds Branch (SWB)	21%	Training and networking activities conducted.
6.2	Enhancing Coordination	60%	Active support for NIWMC working group.
6.3	Strengthening National Public Awareness Activities	46%	"Haffi Legal Program" designed and materials produced. "Enviro" kits almost finished.
6.4	Gender Activities at the National Level	35%	Major report completed. National forum still to be held.

## **6.6 Performance Benchmarks**

PubEd kit developed, produced and tested - This activity is 60% complete. An inventory of available materials has been completed, and the kits have been assembled.

Two special studies commissioned - One special study was commissioned to examine the causes of beach erosion in St. Margaret's Bay.

Four newsletters published - Two newsletters were published as planned during the period.

National campaign on environmental laws designed.

## 7. Project Management

### 7.1 Grant Fund Management

R2RW implemented the Watershed Grants program as outlined in the Grant Program Plan and handbook to reach communities throughout the Great River and Rio Grande Watersheds. The grant program provides funds to Jamaican organizations that are identified as Community-Based Organizations (CBOs), Non-Government Organizations (NGOs), and non-profit Private Sector Organizations. Annexes A and B provide a status report of the Grant Activity at the close of the reporting period for all grant applications and approved grants. All grants given during the period were Stage 1 Grants. In the previous reporting period two grants had been approved:

- Retrieve Water Harvesting and Sanitation Project
- Pisgah Water Harvesting and Sanitation Project.

Both of these Grants were in the Great River Watershed.

During this reporting period eight grants were considered in the GRW, of which five were approved and implementation begun:

- Rushea Hot Pepper Production
- Cedar Grove Hot Pepper Production
- Hermitage Honey
- Content Water and Sanitation
- Mafoota Car Wash and Laundry

In the RGW, 13 grants were considered, of which 5 were approved and implementation begun.:

- Millbank Sanitation
- Moore Town Water Supply Improvement
- Rock Hall Agroforestry and Soil Conservation
- Industry Agroforestry and Soil Conservation
- Coopers Hill Agroforestry and Soil Conservation

One of the limiting factors in grant approval has been the need to provide additional technical assistance in articulating the work plans and detailed budgets that would facilitate grant implementation. R2RW technical advisors provided assistance in the final designs of the agricultural interventions in Rushea, Cedar Grove, Hermitage, Rock Hall, Industry and Coopers Hill, as well as the water and sanitation interventions in Millbank, Moore Town, Content and Mafoota. In addition, R2RW has sought the technical expertise of the National Water Commission to finalize the design of other water supply interventions.

The Watershed Management Committees have been instrumental in the review and making recommendations for approval of grant applications. Grant approval Committees have met as part of both the GRWMC and the RGWMC to consider, analyze and debate the merits of grant applications. The Grant Selection Committees focused on grant feasibility, sustainability, approach and impact of applications.









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		Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
559	<b>7 R2RW Program Management</b>													58%		
560	<b>7.1 Grant Management</b>													49%		
561	7.1.1 Screening grant applications for gender considerations													46%		
574	7.1.2 Approval of Grant Applications by WMCs													57%		
587	7.1.3 Incorporate MOUs in Grant Agreements													50%		
600	7.1.4 Implement 10 grants													0%		
601	7.1.5 Close supervision of funds, compliance, and completion													50%		
614	7.1.6 Regular program monitoring by WGOs WMCs and R2RW													50%		
627	7.1.7 Provide STTA to grant clusters													50%		
640	<b>7.2 Staffing</b>													94%		
641	7.2.1 Fill the WMS position													100%		
642	7.3.2 More Aggressive use of STTA													50%		
655	7.3.3 Rationalize ASC Staffing Requirements													100%		
656	<b>7.3 Project Management</b>													43%		
657	7.3.1 Update Contact Database													50%		
670	7.3.2 Use text messaging to announce meetings over cell phones													55%		
682	7.3.3 NEPA Coordination Meetings													0%		
687	7.3.5 R2RW Team Meetings													50%		
700	7.3.5 Project Implementation Meeting													50%		
713	7.3.6 Interagency Steering Committee													100%		
715	7.3.7 Monitor CWIP Close Out													67%		
725	7.3.8 Conduct mid-term Assessment of R2RW													0%		
726	7.3.9 ASC Senior Management Team													50%		
779	<b>Project Management Benchmarks</b>													★ 9/30		
780	STTA contracted to assist with grant cluster													★ 9/30		
781	10 grants implemented													★ 9/30		

Project: Third AWP Date: Tue 5/6/03	Critical		Task Progress		Summary	
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ID	Task Name	2003												2004			
		Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	
782	Admin staffing requirements rationalized after CWIP closeout																★ 9/30
783	Eight Project Implementation Committee meetings held																★ 9/30

Project: Third AWP Date: Tue 5/6/03	Critical		Task Progress		Summary	
	Critical Progress		Milestone	★	*Rolled Up Task	
	Task		Summary Progress		*Rolled Up Task Progress	

## 7.2 Staffing

R2RW was fully staffed and focused on Project implementation during the period. R2RW staff was classified into one of five categories as follows:

- Full Time Staff
- Half Time Consultants
- Administrative Support Center
- Program Consultants
- Short Term Technical Assistance

**Full Time Staff:** R2RW operated through the following full time positions:

R2RW Full Time Staff	
Chief of Party	Mark Nolan
Watershed Management Specialist	Hugh Graham
Project Assistant	Leo Douglas
Administrative Assistant	Marcia Whyte



*R2RW Staff Members*

**Half-Time Consultants:** R2RW was staffed by 4 half-time consultant positions:

R2RW Half-Time Consultants	
Governance and Natural Resources Specialist	Trevor Spence
Participation and Public Awareness Specialist	Maria Protz
Sanitation Management Specialist	Jason Excell
Agronomic Specialist	Joseph Suah



**Administrative Support Center:** This staff complement is serviced by the Administrative Support Center that is jointly shared with the Coastal Water Improvement Project: The staff complement in the ASC is as follows:

Administrative Support Center	
Director of Administration	Grace Campbell
Financial Management Specialist	Macrena Bennett
Information Management Specialist	Natalie Holness
Report Production Assistant	Staceyann Luke
Accountant/Grants Assistant	Nardia Pessoa
Logistics Coordinator	Mark Morgan
Clerical/Logistical Assistant	Clive Wadell

**Program Consultants:** R2RW also employed the following individuals directly or through intermediary organizations to implement specific programs:

R2RW Program Consultants	
Plant A Tree Program	Nerval Brown
GR Sanitation Projects	Neville Williams
River Action with the Action Boyz	Heather McFarlane

**Short Term Technical Assistance:** The following individuals were employed under short-term technical assistant contracts to perform specific Scopes of Work that were active during the reporting period:

STTA Contracts Active in Reporting Period	
Goat Breeders Association	Guiding development of Goat Production in the Great River Watershed at Retrieve Village and Roehampton Estate with 4H Clubs of St. James.
Marcia Erskine	Assist in regular press releases, planning and coordination of media events.
Valerie Gordon	Review the strategies and methods for establishing Local Watershed Management, and develop a Procedures Manual for establishing these Committees.
Leon Hopkins	Review State, Private Sector, Civil Society, and Community Organizations, involved in Compliance and Enforcement in the GRW, and develop a database.
Claudia Chambers	Focus Group testing of popular public awareness materials to inform the general public of existing environmental laws and regulations.

STTA Contracts Active in Reporting Period	
Wilberne Persaud and Winston McCalla	Conduct study on incentives to enhance private sector participation in watershed management in Jamaica.
Delroy McDowell	Prepare graphics for popular public awareness materials to inform the general public of existing environmental laws and regulations.
Beverly Pereira	Review current Draft Green paper on Watershed Policy and recommend changes to upgrade this Green Paper to include identified omissions.
Jodi Johnson	Maintain and update the Watershed Projects of Jamaica Database
Montego Bay Marine Park	Produce an instructional video documenting water harvesting and sanitation to explain how to construct and install appropriate water harvesting and sanitation solutions.
Prof. Edward Robinson	Conduct a Preliminary Assessment of Beach Erosion in St. Margaret's Bay, part of Rio Grande Watershed, Portland.

### 7.3 Project Management

A series of Management Committees established during Year 1 continued to meet regularly to ensure the smooth coordination and communication of activities of the R2RW within the team, NEPA, CWIP, ASC and other government agencies. The continued active participation through these mechanisms will be key to ensure that management issues are addressed in a rapid and efficient manner.

Due to the growth of the Project staff, the need for additional space, and the limitations of office space at NEPA, the decision was taken to re-locate the offices of the R2RW program from 10 Caledonia Ave to 5 Oxford Park Ave. The new offices are co-located with the CWIP Project and the Administrative Support Center, and the move works to facilitate close coordination on programmatic and administrative issues. The downside of the move is that the R2RW is no longer co-located with the Sustainable Watersheds Branch of NEPA, and this separation hinders close coordination, formal and informal communication, and mentoring opportunities.

The close out of the CWIP Project will impact upon the staffing requirements for the Administrative Support Center. A close out plan has been prepared and agreed to by NEPA and USAID. The implementation of this plan will be delayed if a CWIP extension is granted. The specific summary of the management arrangements in the Third Annual Work Plan is as follows:

#### ***Project Team Meetings***

The core R2RW technical team meets on a monthly basis to assess recent project activities, and plan for upcoming activities. Representatives from NEPA and USAID are invited to these meetings.

#### ***Project Implementation Committee***

The PIC meets the first Wednesday of every month to update the clients on project progress, address issues that need approval or resolution, incorporate client concerns into project implementation and provide overall project management guidance. PIC meetings include the USAID Project Management Specialist, the Director of the Conservation Division of NEPA, the Manager of the SWB/NEPA, the Projects Manager from PPPCD/NEPA, and the R2RW COP.

### ***Interagency Steering Committee***

The Inter-Agency Steering Committee consists of a broad membership of wider GOJ agencies impacting on watershed management including NEPA, Forestry Department, Ministry of Agriculture, Ministry of Health, National Water Commission, and Ministry of Tourism among others. The ISC met in March 2003 to review the Semi-Annual Report and Third Annual Work Plan.

### ***Coordination with CWIP and the ASC***

Weekly meetings of the R2RW COP, the CWIP COP and the Director of Administration of the ASC continued over the reporting period. Topics covered during these meetings include logistical support requirements, administrative issues, staff coordination, financial updates, and project management concerns.

### ***Close Monitoring of the CWIP Closeout Plan***

The CWIP Project has been extended until June 2003. A Close out plan originally prepared in February 2002, was updated at the end of the reporting period. This is being done to determine the potential of equipment utilization, determine ASC support requirements for R2RW, and incorporation of CWIP programmatic initiatives into R2RW programs where possible. A proposed six-month CWIP extension will impact the timing of the close-out plan.

### ***Conduct Mid-Term Assessment of R2RW***

An Internal Mid-Term Performance Assessment of R2RW is being planned for May 2003 to validate that the Project actions continue to reflect and advance toward programmatic priorities of NEPA and USAID. The performance assessment will:

- Validate that the R2RW Project contract Statement of Work continues to reflect the programmatic priorities of the clients – NEPA and USAID;
- Confirm that the expected results of the three main components of the Project are clear and measurable;
- Assess the validity of the implementation strategies, approaches and assumptions behind each component;
- Assess progress at Project implementation mid-point in meeting expected results, and evaluate expected project accomplishments over the life of contract; and
- Propose recommendations for revisions to the Project Statement of Work, strategies and approaches employed, and/or allocation of human and financial resources.

The consultant team to perform the assessment will include Mr. Chris McGahey and Mr. David Green of ARD and Ms Cordia Thompson.

## 8. Performance Indicators

The R2RW Project contributed to the following USAID SO2 Indicators established for the following Intermediate Results:

### 1. IR 1 - Increased Adoption of Environmentally Sound Practices

By commencing the Inventory of Targeted Regulations, and reviewing the Watershed Policy, for incorporating into the legal framework,

### 2. IR 2 - Adoption of Policies for Improved Environmental Management

Through undertaking an Inventory of Targeted Regulations. This should provide a summary of all policies impacting on watershed management. The Review of the Watershed Policy is expected to assist NEPA to move the Green Paper to White Paper status. This should also assist:

### 3. IR 2.1 - Effective Promulgation and Enforcement of Environmental Regulations

The establishment of the Component 2 Advisory Committee, as well as implementing recommendations from the Consultant's Report on 'Governance and Watershed Management', would also assist in getting greater participation in the enforcement of environmental regulations.

### 4. IR 2.2.1 - Increased Capacity of Key GoJ Agencies

Benefited/will benefit from the Inventory of Targeted Regulations, the Review of the Watershed Policy, the establishment of the Component 2 Advisory Committee, and the undertaking, and follow-up actions on the Consultant's Report on 'Governance and Watershed Management'. In addition, the initiation of a training needs assessment, training events, and the procurement of needed field equipment help to strengthen the capacity of the SWB in watershed management.

It should be noted that the figures in the tables are for the first half of the second year only.

## Contract Objective (CO) Indicators

### 8.1 Overall Project

Performance Indicator	Indicator Definition And Unit of Measure	Baseline Data		Project Year 2		Project Year 3		Comments	Support to SO2
		Year	Actual	Target	Actual	Target	Actual		
<b>Contract Objective: Natural resources under improved and sustainable management in identified watersheds</b>									
Percentage of land under sustainable management in targeted areas	<p><u>Sustainable Management</u> Targeted appropriate practices and sustainable resource utilization principles applied</p> <p><u>Targeted Areas:</u> Geographic areas identified in work statement and prioritized for intervention following rapid reconnaissance and establishment of baseline data</p> <p><u>Unit:</u> Cumulative numerical</p>	2000	0	10	15	20	25	<p>20 Communities were targeted for project interventions. Of these, targeted appropriate practices and sustainable resource utilization principles were applied in 5 communities or 25% of the targeted area.</p> <ol style="list-style-type: none"> <li>1. Retrieve: sanitation systems</li> <li>2. Goat Improvement projects in Retrieve and Roehampton</li> <li>3. Pisgah: sanitation project</li> <li>4. Catadupa: Tree planting activities</li> <li>5. Millbank Sanitation Project</li> </ol>	SO2 Indicator

## 8.2 Component 1 Targets

Performance Indicator	Indicator Definition And Unit of Measure	Baseline Data		Project Year 2		Project Year 3		Comments	Support to SO2
		Year	Actual	Target	Actual	Target	Actual		
<b>Contract Result: Through targeted, sustainable environmental practices by resource users identified and promoted</b>									
Number of improved practices adopted by target populations	<p><u>Improved Practices Adopted:</u> Activities that improve environmental conditions and sustain resource base</p> <p><u>Unit:</u> Number of practices introduced that are applied and sustained by land managers. Cumulative numerical</p>	2000	0	6	6	10	9	<p>Practices were introduced to date. These are:</p> <ol style="list-style-type: none"> <li>1. Dwarf June plum</li> <li>2. Barbados cherries</li> <li>3. New varieties of bananas and plantains</li> <li>4. Constructed wetlands for purifying septic effluents</li> <li>5. Macuuna seeds for leguminous ground cover</li> <li>6. Intensive goat management systems</li> <li>7. Planting timber trees under the Plant A Tree Program</li> <li>8. Honey production</li> <li>9. Hot pepper production</li> </ol>	IR 1
Number of organizations demonstrating tangible results to beneficiaries in the field	<p><u>Organization:</u> formalized group operating in the field</p> <p><u>Results:</u> Provision of technical, program and financial services</p> <p><u>Unit:</u> Cumulative numerical</p>	2000	0	3	5	5	7	<ol style="list-style-type: none"> <li>1. Sanitation Support Unit with demonstration project in Retrieve</li> <li>2. RADA with new crop technologies.</li> <li>3. JAS with marketing projects</li> <li>4. Goat Breeders Association with new goat management systems</li> <li>5. Farmer training by JOAM in organic farming</li> <li>6. Montego Bay Marine Park delivering public awareness programs with the Action Boiyz</li> <li>7. Forestry Department with Plant A Tree Program</li> </ol>	IR 1.1

Performance Indicator	Indicator Definition And Unit of Measure	Baseline Data		Project Year 2		Project Year 3		Comments	Support to SO2
		Year	Actual	Target	Actual	Target	Actual		
<b>Contract Result: Through targeted, sustainable environmental practices by resource users identified and promoted (cont'd)</b>									
Number of Private Sector entities practicing or supporting environmentally friendly practices	<u>Private Sector</u> : Profit-making entities whether small, medium or large  <u>Unit</u> : cumulative numerical	2000	0	4	3	6	4	Work was done with 3 entities: 1. Farmers in Catadupa, 2. Farmers in Duckets. 3. Goat Breeders Association 4. Private sector support for Great River Green Village program prizes	IR 1 IR 1.2



### 8.3 Component 2 Targets

Performance Indicator	Indicator Definition And Unit of Measure	Baseline Data		Project Year 2		Project Year 3		Comments	Support to SO2
		Year	Actual	Target	Actual	Target	Actual		
<b>Component 2 Result: Incentives for and obstacles to enforcement of targeted environmental regulations identified and solutions supported</b>									
Number of new or revised regulations and policies drafted/developed	<u>New or revised regulations and policies:</u> Regulations and policies developed that promote sustainable environmental practices.  <u>Unit:</u> Cumulative numerical	2000	0	1	1	1	1	The target of <b>one</b> new or revised regulation and policy for years 1 -3 was met with the Draft Watershed Policy reviewed in year 1. The draft policy has recently been updated to include omissions such as lack of graphics, action plan, and mention of LWMCs. Focus group work is on going, and the new policy will be presented on May 22 <sup>nd</sup> . It is expected that a revision of the Watershed Protection Act will follow the updated Watershed Policy in Year 3.	IR 2 IR 2.1
Number of incentives in place to support compliance with and enforcement of environmental regulations	<u>Incentives:</u> payment or concessions in place promoting sustainable environmental practices and resource use  <u>Unit:</u> Cumulative numerical	2000	0	4	0	6	1	The Report “ <b>Incentives for Private sector investment in watershed management</b> ” was presented at a national workshop in Feb. 2003. The Incentives Working Group of the NIWMC is currently seeking to implement the top 5 incentives chosen by the participants. R2RW incentives to date have been limited to the sponsorship of the Great River Green Village Program	IR 1.2 R 2.1

Performance Indicator	Indicator Definition And Unit of Measure	Baseline Data		Project Year 2		Project Year 3		Comments	Support to SO2
		Year	Actual	Target	Actual	Target	Actual		
<b>Component 2 Result: Incentives for and obstacles to enforcement of targeted environmental regulations identified and solutions supported</b>									
Increased compliance and enforcement of environmental regulations in targeted areas	<p><u>Increase Compliance and Enforcement:</u> Number of activities designed to increase knowledge and understanding of environmental laws</p> <p><u>Unit:</u> cumulative total</p> <p>Note: The definition was changed to quantify measurable activities</p>	2000	0	5	8	8	12	<p><b>Eight</b> activities undertaken to increase knowledge and understanding of environmental laws, as per adjusted definition in October 2001 – March 2002 Semi Annual Report. These are:</p> <ol style="list-style-type: none"> <li>1. <b>Study</b> of Policy and Legislative Framework,</li> <li>2. <b>Meeting/Workshop of GRW Task Force</b> to review draft Policy and Legislative Framework,</li> <li>3. <b>Meeting of Legal and Policy Experts</b> to review draft Policy and Legislative Framework,</li> <li>4. Joint input of ENACT and R2R into the <b>preparation of a Pocket-sized field guide</b>, on Jamaica's environmental laws, geared towards supporting enforcement officers in the field,</li> <li>5. Input into the Portland Multi-Agency Group on C&amp;E, and lead-role in the <b>establishment of a Portland C&amp;E Task Force</b>,</li> <li>6. <b>Four Meetings</b> of the GRWMC C&amp;E Task Force. Meetings are used as mini-workshops,</li> <li>7. Joint support by ENACT and R2R for a <b>3-Day "Training of Trainers Workshop"</b> for NEPA's staff,</li> <li>8. Three Focus Group Meetings (Kingston, Montego Bay, and Port Antonio), to review draft of a review of "Incentives to encourage Private Sector involvement in watershed management"</li> <li>9. Design of posters to educate the public about C&amp;E Issues</li> <li>10. Production of scientific study of causes of erosion in St. Margaret's Bay</li> <li>11. Brochures drafted</li> <li>12. Video or Jingle being produced.</li> </ol>	IR 2 IR 2.1

8.4 Component 3

Performance Indicator	Indicator Definition And Unit of Measure	Baseline Data		Project Year 2		Project Year 3		Comments	Support to SO2
		Year	Actual	Target	Actual	Target	Actual		
<b>Component 3 Result: Capacity of Jamaican Government Agencies, International donors, and private-sector and civil society organizations to implement effective watershed management programs enhanced</b>									
No. of organizations participating in R2RW supported WM coordination activities	<p><u>Organization:</u> Group or institution</p> <p><u>Participating:</u> Acquiring and sharing information at the local or national level</p> <p><u>Unit:</u> Cumulative total</p>	2000	0	6	16	8	18	<ol style="list-style-type: none"> <li>1. Sustainable Watersheds Branch</li> <li>2. Min. of Land and Environment</li> <li>3. Rural Agricultural Dev. Authority</li> <li>4. Forestry Department</li> <li>5. National Water Commission</li> <li>6. Public Health Department</li> <li>7. Social Development Commission</li> <li>8. Sanitation Support Unit</li> <li>9. Montego Bay Marine Park</li> <li>10. Local Authorities (Parish Councils)</li> <li>11. Water Resources Authority</li> <li>12. Sandals Hotel</li> <li>13. Round Hill Hotel</li> <li>14. Montpelier Citrus Company</li> <li>15. Portland Env. Protection Assoc.</li> <li>16. Valley Hikes</li> <li>17. GRWMC</li> <li>18. RGWMC</li> <li>19. CBO's</li> <li>20. 4H Clubs</li> </ol>	IR 2 IR 2.2

### 8.5 Cross-Cutting Activities

Performance Indicator	Indicator Definition And Unit of Measure	Baseline Data		Project Year 2		Project Year 3		Comments	Support to SO2
		Year	Actual	Target	Actual	Target	Actual		
<b>Cross-Cutting Activities</b>									
<b>Gender Equity Strategy</b>  Number of partners implementing gender equity considerations	<u>Gender Equity</u> : fairness and justice among men, women and special groups in accessing project benefits, participating in decision making and in undertaking project responsibilities  <u>Unit</u> : Numerical annual totals  Note: Definition expanded to include “special groups” based upon stakeholders input.	2000	0	6	3	8	9	1. Gender training materials produced for the GRWMC 2. Case study materials produced for gender training of the RGWMC 3. Report of the Gender for the GRWMC 4. Paper for the CWWA on R2RW’s gender training approach 5. Revision of the Grant Fund to include gender equity 6. Report of Gender training of the RGWMC (to be completed in November) 7. Overall gender report of project activities (to be completed after the training of the RGWMC – in progress). 8. Draft checklist completed and in use 9. Gender disaggregated data included in the KAP survey and is being used to guide the development of public awareness strategies.	IR 1 IR 1.1 IR 1.2

Performance Indicator	Indicator Definition And Unit of Measure	Baseline Data		Project Year 2		Project Year 3		Comments	Support to SO2
		Year	Actual	Target	Actual	Target	Actual		
<b>Grant Fund</b> Number and value of grants approved and implemented that promote adoption of sound environmental practices	<u>Environmental practices adopted</u> : activities that improve environmental conditions  <u>Unit</u> : Cumulative number and value (US\$ thousands)	2000	0	5 \$150	3 \$40	10 \$300	12 \$175	Grant Management Program designed and approved in May 2002  1. Water harvesting and waste water disposal at Retrieve All Age School  2. Water harvesting and waste water disposal at Pisgah School  3. Millbank Sanitation  4. Moore Town Water Supply Improvement  5. Rushea Hot Pepper Production  6. Cedar Grove Hot Pepper production  7. Hermitage Honey Production  8. Content Water supply and sanitation  9. Mafoota Car Wash and Laundry  10. Rock Hall Agroforestry  11. Industry Agroforestry  12. Coopers Hill Agrocofesty	S02

Performance Indicator	Indicator Definition And Unit of Measure	Baseline Data		Project Year 2		Project Year 3		Comments	Support to SO2
		Year	Actual	Target	Actual	Target	Actual		
<b>Cross-Cutting Activities (cont'd)</b>									
<b>Public Awareness</b> Number of public awareness activities conducted	<u>Public Awareness</u> : formal and non-formal education, information sessions, extension and environmental education  <u>Unit</u> : Numerical annual totals	<b>2000</b>	<b>0</b>	<b>8</b>	<b>25</b>	<b>12</b>	<b>16</b>	<ol style="list-style-type: none"> <li>1. W&amp;S Tour of the GRW Jan. 03.</li> <li>2. Video training for PATF members in the RGW</li> <li>3. GRW video promoted</li> <li>4. Monthly GRW PATF meetings held</li> <li>5. Two newsletters produced.</li> <li>6. Training in RGW on writing of effective press releases.</li> <li>7. 7 News releases produced.</li> <li>8. RGW public awareness working group active.</li> <li>9. Mascot competition completed.</li> <li>10. Posters for C&amp;E produced</li> <li>11. Follow-up activities to KAP Workshop</li> <li>12. Video for it haffi legal campaign contracted</li> <li>13. Stewardship/leadership training course being developed.</li> <li>14. Design of River Action Program</li> <li>15. "Enviro" kits drafted</li> <li>16. "River Action" program launched</li> </ol>	IR 1

## 9. Program Expenditures

On the following page, a summary of program expenditures incurred during the period October 1, 2001 to March 31, 2001 is provided. The expenditures are listed by key support areas, with a breakdown of expenditures by project Components, which partially correspond to USAID-required Contract Line Item Numbers (CLINs). The expenditures relate to the projected fiscal plans submitted in the R2RW Life of Project Strategy and First Annual Work Plan. The key support areas in the expenditure summary also correspond to NEPA's code accounts for fiscal reporting to the GOJ.

**ARD, Inc.**  
**Ridge to Reef Watershed Project**  
**Period October 31, 2002 to March 31, 2003**  
 Contract No. 532-C-00-00-00235-00  
 \*\*\*\*\* Inception to Date \*\*\*\*\*

	CLIN 1	CLIN 2	CLIN 3	CLIN 4	CLIN 5	CLIN 6	Totals
Project Management & Admin	110,739	58,430	52,061	0	2,515	2,467	226,213
Travel, Transportation & Per Diem	27,762	8,754	1,870	0	916	0	39,302
Equipment & Supplies	5,419	2,676	669	0	352	0	9,116
Operating Costs	4,785	21,699	6,800	0	3,016	0	36,301
Subcontracts & STTA	163,023	59,716	3,724	0	1,454	0	227,916
Grants	38,576	0	0	0	0	0	38,576
Training							
- Study Tours	0	0	0	0	0	0	0
- In-Country	16,870	4,476	2,220	0	0	0	23,566
<b>Totals</b>	<b>367,173</b>	<b>155,750</b>	<b>67,345</b>	<b>0</b>	<b>8,253</b>	<b>2,467</b>	<b>600,989</b>

## GRWMC – Grant Applications Status 3/31/03

### Grant Applications for the Great River Watershed submitted to the Ridge to Reef Watershed Project

Organization	Title	Contact	Purpose	Amount	Status
1. Retrieve All Age School	Retrieve All Age School Water Harvesting and Sanitation Project	Ms. Yvonne Woolery	To reduce dependency on NWC and decrease effluents entering Great River & increase public awareness of wetland technology	739,500	Approved. All construction complete. Periodic follow -up to ensure that wetlands grass is thriving.
2. Pisgah All Age School	Sanitation and Water Harvesting at Pisgah All Age School	Mr. Michael Cover	To improve sanitary facilities and improve water collection and storage	918,600	Approved. Construction on going. Excellent participation by local women. Digging of flat area for wetland took longer than expected. Liner installed.
3. Mafoota Citizen's Assoc.	Wash House/Car Wash	Mrs. Pamela Campbell, President	Finance building of wash house and car wash	786,225	Project approved based upon design around a container. MOU to be developed for management of facility. Permission to build to be sought.
4. Cacoon Castle Famers Group	Ginger Production	Mr. Terrence James, President	To encourage ginger production for local and export markets	120,000	Proposal not acceptable. Redesign underway with guidance of R2RW Technical staff
5. Catadupa Farmers Group	Environmental Reformation	Mr. Ian Clennon, President	To foster a cleaner environment for the residents.	60,000	R2RW Team visited in June 02. Community asked to determine feasibility of skips and whether WPM was capable to picking up. No response received to date.
6. Rushea Farmers Group	Scotch Bonnet Pepper production	Ms. Norma Waite Asst. Chairman	To increase scotch Bonnet pepper production for the export market and provide sustainable livelihood for 20 farmers	749,061	Project Approved. Seedling production underway. Production to be geared for market from Dec - March.
7. Maybole Youth Club	Maybole Revolving Herd Scheme	Mr. Marvin Lawrence, Extension Officer	To provide participants with quality breeding stock so as to improve their herd.	258,080	Graham and Suah visited in December 02. Project deemed not feasible, and outside watershed boundary



Organization	Title	Contact	Purpose	Amount	Status
8. Content Progressive Youth Club	Water harvesting and sanitation project	Mr. Edwards, Vachesa Foster	Harvest water from the roof and build bath rooms and changing rooms on the community centre using constructed wetlands technology	703,276	Project Approved. Implementation begun, materials ordered and on-site.
9. Cedar Grove Farmers Group	Hot Pepper Production	Peter Gardner, President	To increase scotch bonnet pepper production for export market in a manner that is environmentally friendly	476,282	Project Approved. Seedling production underway. Production to be geared for market from Dec - March.
10. Hermitage Honey Ltd.	Expansion of honey production and processing in Hermitage	Vineth Campbell, President	To increase the number of bee colonies dramatically from 25 to 176 and improve livelihoods through beekeeping and honey production.	716,250	Project Approved.

#### Grant Applications for the Rio Grande Watershed submitted to the Ridge to Reef Watershed Project

Organization	Title	Contact	Purpose	Amount	Status
1. Fellowship CDC	Reconstruction of drains	Lorenzo Hill, Vice- President	Clean existing drain to protect from floods and reduce soil erosion	685,000	Application complete. Site assessment conducted Dec. 13 <sup>th</sup> , and community meeting held Jan. 7 <sup>th</sup> . R2RW should only fund tools, equipment and work days, but not unskilled labour. Awaiting final budget estimates
2. Mill Bank Past Students Association	Mill Bank Past Students Association Community Sanitation Project	Ms. Elaine Bernard, Secretary	To improve sewage disposal and provide toilet facilities using ventilated double-it latrines. To build 15 sanitation solutions based on constructed wetlands	714,000	Approved, and implementation begun. Work started on 7 of the 15 systems.
3. Comfort Castle CDC	Comfort Castle CDC upgrading water supply system at catchment area and replacing existing lines	Lincoln Hamilton, President	To get better flow of water from the catchment (tank) to schools, householders and throughout the community. Also to set up a better filtering system to provide clean water	702,000	Site visited in February, but awaiting detailed engineering estimates on cost of upgrading entombment and water lines. System serves Comfort Castle, Ginger House and Millbank
4. Windsor CDC	Domestic water supply for the residents of Windsor	Herman Palmer, President	To give better water supply to community members in Seaman's Valley, Windsor and River View	770,000	Upgrading of Bizzi Spring source currently underway in Moore Town Grant. Agreement in principle to replace piping to Windsor if R2RW Purchases pipe and NWC installs.

Organization	Title	Contact	Purpose	Amount	Status
5. Moore Town Maroon Council	Moore Town/Seaman's Valley Water Catchment Improvement	Col. Wallace Sterling	To increase the volume of water coming to the community and to install a chlorinator and a settling tank to improve the quality of the water	786,000	Grant Approved and Agreement signed. Work on upgrading source underway, Pipe from source to Seaman's Valley installed, and piping currently being laid from Seaman's Valley to Moore Town.
6. Bellevue DDC	Bellevue Sanitary Convenience	Olive Aiken	To ensure that every individual in the community has proper sanitary convenience to ensure and preserve the health of the citizens within the watershed.	No budget yet prepared	Visit made to the community. JSIF approval for water supply system. Sanitation initiative to be modelled on system currently being implemented in Mill Bank
7. Cornwall Barracks CDC	Cornwall Barracks Water Supply	Violet Lee, Captain Lloyd Smith	To build a storage tank that can store the water overnight as this will take the pressure from the line directly as this is proven inadequate during the day	No budget	Community members located an alternative water source. Permission to be sought from WRA for extraction, and detailed costing to be made for new construction costs.
8. Rock Hall Community Based Organization	Reforestation, Agroforestry, Crop Production and Soil Conservation	Samuel Ashley and Neville Kirkland	Through Agroforestry and land husbandry, private lands will be reforested, soil erosion minimized, and economic livelihood will be enhanced.	801,202	Grant approved March 18, 2003. Grant documents to be developed and signed. Start-up for April 1, 2003
9. Burbon CDC	Water Supply in Burbon	Hilga Lammie	Finish and increase existing tank, and install distribution system into the community	Budget to be developed	Map and equipment needs were submitted. Site visited on Dec. 5 <sup>th</sup> , RGWMC determined that this is an appropriate project funding pending final design and costing
10. Valley Hikes	Demonstration Farm and Nursery	Trevor Stone	Installing a demonstration farm with soil conservation treatments	Budget to be finalized	Detailed budget submitted. RGWMC requested additional information. R2RW wrote to Valley Hikes requesting more info on organization, membership and tenure for site
11. Durham Community Group	Durham Gap Water Project	Lillian Orr	Run pipeline from Chatsworth to Durham to improve potable water supply	To be finalized	To be reviewed by W&S task force
12. Coopers Hill CDC	Soil Conservation and Agroforestry Project	Coyd Wiggins	To Improve production and productivity of the farmers and conserve soil resources and protect the watershed in the Rio Grande	808,945	Grant approved March 18, 2003. Grant documents to be developed and signed. Start-up for April 1, 2003

<b>Organization</b>	<b>Title</b>	<b>Contact</b>	<b>Purpose</b>	<b>Amount</b>	<b>Status</b>
13. Industry CBO	Reforestation, Agroforestry, Crop Production and Soil Conservation	G. Heslop, Patricia Lee	Through agroforestry, land husbandry private lands will be reforested, soil erosion will be minimized and economic livelihood of residents will be enhanced	811,367	Grant approved March 18, 2003. Grant documents to be developed and signed. Start-up for April 1, 2003

