

R2RW

**Third Annual Work  
Plan**





# Ridge to Reef Watershed Project

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

## **R2RW THIRD ANNUAL WORK PLAN**

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Government of Jamaica's  
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and the

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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

Component 2 Compliance and Enforcement

Component 3 Institutional Strengthening

The project conducts major field activities in two important watershed areas: the Great River Watershed and the Rio Grande Watershed. In this document, the activities described under Component 1 are broken down according to each of these two watershed areas. Overall, the three Project components form a synergy of interventions contributing to the achievement of the USAID Strategic Objective 2 (SO2) – Improved quality of key natural resources in selected areas that are both environmentally and economically significant.

This Third Annual Work Plan (TAWP) provides a thorough overview of the vision, implementation strategy, and the activities to be undertaken to address the Work Statement in USAID Contract No. 532-C-00-00-00235-00. It articulates a clear vision of the desired end-of-project status by the principal stakeholders and provides further development of the Implementation and Life of Project strategies. This TAWP also provides a detailed road map of activities that will be carried out under each component, along with a short description of the intent of each activity. The Third year of the Project will be the heart of R2RW and the activities outlined in this plan form the core initiatives upon which the Project will ultimately be assessed. R2RW is scheduled to run until July 1, 2005, but an optional sixth year could be added if deemed to be in the interests of the clients and stakeholders.

The TAWP is a living document designed to provide focus to achieve the project's intended results, but it is also prepared with sufficient flexibility to respond to emerging opportunities and constraints. This document is also linked to other planning documents such as the Performance Monitoring Plan.

The National Environment and Planning Agency (NEPA), is the principal counterpart and implementing agency for the R2RW Project in the Government of Jamaica. NEPA was created in 2001 through the amalgamation of the Natural Resources Conservation Authority (NRCA) with the Town Planning Department (TPD) and Land Development and Utilization Commission (LDUC). The newly renamed Sustainable Watersheds Branch<sup>1</sup> is the project's main counterpart within NEPA, but the Project also works closely with the Policies, Programs and Projects Coordination (PPPC) Division, the Public Education and Community Outreach Branch (POCOB) and the Compliance and Regulatory Division (CRD). Associates in Rural Development, Inc. (ARD) is the implementing contractor for R2RW.

To make it easier to understand activities under this Third Annual Work Plan, 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:

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<sup>1</sup> Formerly Watershed Protection and Management Branch, NRCA

- 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.



## ACRONYMS

ARD	Associates in Rural Development, Inc.
ASC	Administrative Support Center
BT	Barrington Taylor
CBO	Community-based Organization
CDC	Community Development Committee
CIDA	Canadian International Development Agency
COP	Chief of Party
CRD	Compliance and Regulatory Division, (NEPA)
CWIP	Coastal Water Quality Improvement Project
EFJ	Environmental Foundation of Jamaica
EJASP	Eastern Jamaica Agricultural Services Project
ENACT	Environnemental Action Programme
EU	European Union
FD	Forestry Department
GEM	Gender Equity Mechanism
GNRS	Governance and Natural Resources Specialist
GOJ	Government of Jamaica
GRW	Great River Watershed
GRWMC	Great River Watershed Management Committee
GSC	Grant Screening Committee
HG	Hugh Graham
ICF	Island Constabulary Force
ICTs	Information and Communication Technologies
IDB	Inter-American Development Bank
IR	Intermediate Result
ISC	Inter-Agency Steering Committee
JAMAL	Jamaica Movement for the Advancement of Literacy
JAS	Jamaica Agricultural Society
JE	Jason Excell
JIS	Jamaica Information Service
JS	Joseph Suah
JSIF	Jamaica Social Investment Fund
KAP	Knowledge, Attitude and Practices
LD	Leo Douglas
LDUC	Land Development Utilization Commission
LGRP	Local Government Reform Process
LSDP	Local Sustainable Development Planning
LWMC	Local Watershed Management Committee
MBMP	Montego Bay Marine Park
MN	Mark Nolan
MOH	Ministry of Health
MOLE	Ministry of Lands and Environment
MOWH	Ministry of Water and Housing
MP	Maria Protz
MW	Marcia Whyte
NB	Newel Brown
NEAP	National Environmental Action Plan
NEEC	National Environmental Education Committee
NEPA	National Environment and Planning Agency
NGO	Non-governmental Organization
NIC	National Irrigation Commission
NIWMC	National Integrated Watershed Management Council

NIWMP	National Integrated Watershed Management Program
NRCA	Natural Resources Conservation Authority
NW	Neville Williams
NWC	National Water Commission
OPM	Office of the Prime Minister
PAPAS	Participation and Public Awareness Specialist
PC	Parish Council
PDC	Parish Development Committee
PEOD	Public Education and Outreach Department (NEPA)
PEPA	Portland Environment Protection Agency
PIC	Project Implementation Committee
PIOJ	Planning Institute of Jamaica
PMP	Performance Monitoring Plan
PPPCD	Policies, Programs and Projects Coordination Division (NEPA)
R2RW	Ridge to Reef Watershed Project
RADA	Rural Agricultural Development Authority
RGW	Rio Grande Watershed
RGWMC	Rio Grande Watershed Management Committee
RRA	Rapid Rural Appraisal
SAR	Semi-annual Report
SDC	Social Development Commission
SO2	Strategic Objective 2
SOW	Scope of Work
SSU	Sanitation Support Unit
ST	Selvin Thompson
STTA	Short-Term Technical Assistance
SWB	Sustainable Watersheds Branch (NEPA)
TA	Technical Assistance
TAP	Targeted Appropriate Practice
TAWP	Third Annual Work Plan
TDP	Town Planning Department
TDPCo	Tourism Product Development Company
TE	Thera Edwards
TFT	Trees for Tomorrow
TS	Trevor Spence
USAID	United States Agency for International Development
WMC	Watershed Management Committee
WMS	Watershed Management Specialist
WMU	Watershed Management Unit
WRA	Water Resources Authority

## **1. BACKGROUND AND PROBLEM STATEMENT**

Jamaica's fragile economy rests on a delicate natural resource base. The majority of its revenue comes from tourism, bauxite, and agriculture. With mounting economic difficulties, increasing pressures are being exerted on both coastal and upland watershed areas, resulting in degraded forests, escalating soil loss, rising point and non-point source pollution, and the destruction of coastal areas and reefs.

The importance of sustainably managing Jamaica's watersheds is important to the Government of Jamaica (GOJ), and a number of initiatives have been supported over recent years. The Ministry of Agriculture, including the Rural Agricultural Development Authority (RADA) and the Forestry Department (FD), have supported initiatives aimed at soil conservation, agro-forestry, and forest management, as well as integrated watershed management and planning. The National Environment and Planning Agency (NEPA), through its renamed Sustainable Watersheds Branch (SWB), has supported efforts to consolidate policy, database management, and national-level watershed planning. Recognizing the importance of watersheds and being aware that many initiatives exist in support of watershed management, the GOJ has crafted a watershed policy for the country. This policy provides the framework for integrated and coordinated watershed management and outlines a process for better planning and implementation of watershed programs. The Watershed Policy is currently being reformulated to include additional items that were not incorporated in the original draft and now needs to be taken back to Cabinet. The establishment of the National Integrated Watershed Management Council (NIWMC) is further evidence of the commitment of the GOJ to address watershed management issues.

USAID/Jamaica also has a long history of supporting hillside agricultural and natural resource management projects in Jamaica. Under the current Strategic Objective # 2, programs focus on improving natural resource management in ecologically and economically important areas of Jamaica. The Ridge to Reef Watershed Project (R2RW), developed by USAID/Jamaica and NEPA, is a multifaceted approach to address degradation of watersheds on the island. This degradation is brought about by misuse of forests, destructive farming practices, and limited environmental stewardship. These problems can be addressed by improving natural resource management practices, increasing the population's awareness of the impacts of their activities, and linking government and civil society in mutually beneficial partnerships. R2RW is a five-year initiative aimed at improving environmental conditions in the targeted watersheds of the Great River and the Rio Grande. These two watershed areas were chosen because of their strategic importance in terms of agriculture and tourism and the potential to stem environmental deterioration.

### **Great River Watershed**

The Great River watershed is more highly and densely developed than the Rio Grande. In addition, agriculture in the Great River is comprised of larger, more concentrated farms than in the Rio Grande. Great River tourism concentrates mostly along the beaches and around the marine park adjacent to Montego Bay, while Portland and the Rio Grande are seen as alternative tourism sites to the north coast of Jamaica – richer in natural character and environmental diversity. Tourism activities, and potentially tourism clientele, differ between the two areas, with Rio Grande hosting more of the adventure and nature tourism market than the Great River basin.

The Great River links the four parishes of Hanover, St. James, Westmoreland, and St. Elizabeth while the Rio Grande is contained mainly within the parish of Portland. The GRW consists of 34,000 acres and contains a population estimated at 85,000 spread out over four small towns and over 40 rural districts. Economic development in the Great River parishes is quite diversified, with investments in tourism, large and small-scale agriculture, mining, and some small-scale

industrial production, mostly in food processing, garments, and woodworking. Infrastructure in the Great River watershed is relatively developed. A significant number of GRW residents commute to jobs in the tourism or other industries in the Greater Montego Bay area. The watershed contains an extensive network of often poorly maintained rural roads that connect to the north coast highway, an international airport and a major cruise ship harbor. There are relatively good roads, water supply, and sewerage systems in the Greater Montego Bay area, but the quality and quantity of these services have deteriorated in some parts of the watershed.

The Great River faces many environmental threats. These include soil erosion; agrochemical pollution; downstream sedimentation; threats to the coral reefs from nutrients, over fishing, and physical damage; deforestation of the few remaining forested areas; and possible impacts from a further proposed out-take from the Great River for potable water supplies.

Donors have been fairly active in Montego Bay, but less so in the upper reaches of the Great River. For example, the Canadian International Development Agency (CIDA) has chosen St. James as one of its pilot sites for the Support to Local Government Reform Project. In addition, the Overseas Economic Cooperation Fund has financed construction of a municipal wastewater treatment system, and the North Coast Highway project is expected to have significant social and economic impacts in the area.

### **Rio Grande Watershed**

Agriculture is the dominant economic activity in the Rio Grande, with the major crops being coffee, bananas, and coconuts. Bad weather and insufficient markets have had very negative impacts on the agricultural sector in Portland, leaving the area with an official unemployment rate of 17 percent and rising. Tourism, the second economic activity in the parish, and agriculture are both affected by poor and declining infrastructure. Marketing, communications, and transportation are most severely hampered by horrendous roads. Plans are being developed to improve the transportation network, and both economic and environmental impacts are expected from the upgrading.

Environmental threats affecting Portland and the Rio Grande stem from deforestation, soil erosion from cleared agricultural lands and from poor road construction and maintenance, legal and illegal sand mining in the river, poor sanitation and other point-source pollution from illegal squatter settlements, and unclear restrictions on poor land-use practices in fragile areas.

Donor involvement in Portland is substantial. Currently, CIDA's Environmental Action Project (ENACT) and Trees for Tomorrow (TFT), the European Union's (EU's) Eastern Jamaica Agricultural Services Project (EJASP), and the Inter-American Development Bank (IDB) have been implementing several projects in Portland. The Coastal Water Quality Improvement Project (CWIP) is presently implementing a series of activities in the Port Antonio area. TFT is working in adjacent watersheds. The approach and methods of each should be reviewed in light of R2RW field activities. CWIP will be working with partners to address environmental threats along the coast. ENACT is working with the Portland Parish Council and the Portland Parish Development Committee (PDC) to develop a sustainable environmental action planning process. Coordination with both projects will be critical.

### **Opportunity for R2RW project Interventions**

By focusing on the Great River and the Rio Grande watersheds, the project has the opportunity to address the complex range of environmental, economic and social issues impacting on watershed management in limited geographic areas. This will allow for the creation of integrated watershed models that can be used as templates for addressing watershed management problems in other watersheds. The two areas contain populations dependent on small farm

agriculture with emerging importance on eco-tourism. The lessons learned from the GRW and the RGW will be applicable to future programs in watershed management. Finally, it should be noted that while the title of this Project is “Ridge to Reef Watershed Project” the emphasis of the project is on the “Ridge” as opposed to the “Reef”. R2RW was conceived as a watershed management project that seeks to improve the practices and technologies employed by residents of the target watersheds (especially in upland communities) and to address land based compliance and enforcement issues, and to strengthen organizations engaged in watershed monitoring and management. The Ridge to Reef concept implies taking a coordinated approach aimed at the residents and organizations active in the geographic areas defined. This primarily means focusing on the land in the hills and valleys that constitute the watershed area, with the expectation that improved practices on the land will benefit the conditions of the reefs and coastal waters.



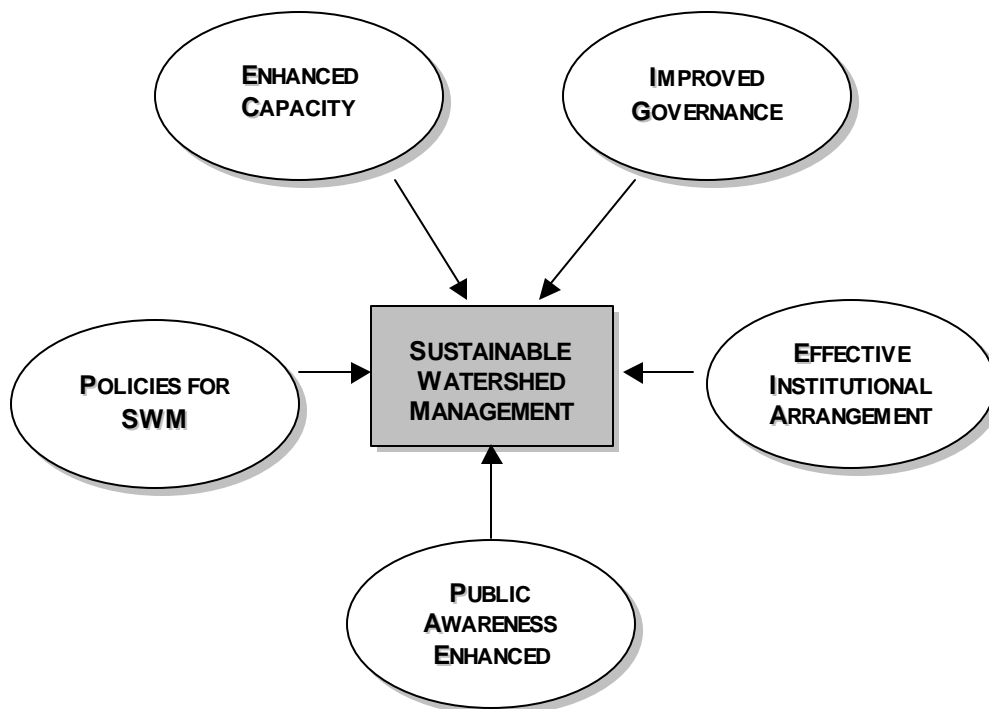
The Ridge to Reef Project is applying a holistic concept of Sustainable Watershed Management. The graphic illustrates that the Project is rooted in the principles of **strong stewardship**, **building the capacity** of partner organizations through skill development, and focusing on **good governance** at the local level. The **branches** represent the main areas of project focus including community involvement, public awareness, production and marketing, proper land use, solid waste management, water harvesting, and compliance and enforcement. The **leaves** represent the **major activities** being carried out under the Project including, for example, low-cost septic systems, new crop varieties and a Grant Fund for community watershed initiatives. The **fruits** represent the successful **Project Outcomes** and include: Water Quality Improved; Sanitation Solutions Enhanced; Sustainable Livestock Systems Adopted; Natural Resources Protected; Genuine Community Involvement in Watershed Management; Increased Income of Watershed Residents; and Communities Identifying with their Watershed Areas. By making the **connections** between the upstream residents and users of the “Ridge” with the downstream residents and users of the “Reef”, the Ridge to Reef Project will improve the sustainable management of Jamaica’s watersheds.

The following section reviews the Project Vision and Strategy that was articulated in the First and Second year work plans, and notes any changes in these based upon recent experience.

## 2.1 Project Vision

The R2RW Project has completed the second year of a planned five-year life of Project. During the second year, through public consultations, stakeholder workshops, management committees and task forces, much progress has been made in terms of articulating a desired end-of-project status. At a Project retreat involving the principal clients: NEPA and USAID, the following were articulated as the main aspects of what the successful implementation of the R2RW Project would mean in 2005.

**Figure 2 R2RW Vision for Sustainable Watershed Management**



In 2005, the client's vision for watershed management is described below.

### **Improved Governance**

- At the national level, Government agencies are more accountable to local communities. R2RW established mechanisms for local accountability. Management policies tested and adapted.
- Local authorities playing active role in watershed management.
- Greater relationship and interconnections between lower and upper watershed residents. Facilitation of dialogue among communities of common interest, cross-fertilization and exchanges between watershed residents.
- Greater compliance and enforcement and number of cases prosecuted to demonstrate enhanced compliance and enforcement. This includes an improved regulatory framework for watershed management (R2RW was the project that brought about a new Watershed Protection Act that incorporates the challenges of enhanced governance).

### **Effective Institutional Arrangements for Watershed Management**

- More organized local sustainable Watershed Management Committees (WMCs) to be used as examples or models for other watersheds. Established a watershed management council in each community. Effective local and national watershed management councils. Combined a bottom-up approach with effective policy support (got the process of watershed management right).
- Better usage of the resources in the watershed. Improved natural resources management with an integrated approach.
- Incorporation of R2RW data into the Sustainable Watersheds Branch (SWB) database. Improved management mechanisms that can be replicated. Standardized protocols for watershed monitoring.

### **Enhanced Public Awareness**

- Public knowledge of a Watershed Management Unit (WMU). Watershed signs more prominent. Positive change in the attitude of the land users and identification with the watersheds.
- Increased awareness, understanding and appreciation of which laws govern people's everyday lives, and how it applies to them. e.g., Farmer's understanding of how their actions affect water quality downstream.
- Increased linkage between watershed management and improved quality and quantity of water. Teaching tools for communities about the importance of watersheds.
- The Project that developed the most effective watershed management materials for Jamaica.

### **Improved Policy, Legislation, Compliance and Enforcement**

- New and revised Watershed Act. Environmental issues in watersheds higher on the national agenda. The project that challenged the government because of cohesiveness in purpose.



- Two watershed management plans for the Great River and the Rio Grande. The watersheds that are appreciably cleaner to stakeholders.
- Communities solving their own problems. Improved well being of watershed residents.

### **Capacity Building**

- Increased human resource development and capacity to monitor in the SWB. Transfer of the project back to NEPA when the Project ends. Transfer of information and lessons learned. (for example, there should be a manual available for use, by the SWB, when the project ends).
- Use of Great River and Rio Grande as prototypes for water quality monitoring protocols. Procedures, methods and technologies introduced.
- Team of agencies with the capacity to guide the dynamics of sustainable watershed management.
- Greater coordination of projects within watersheds.

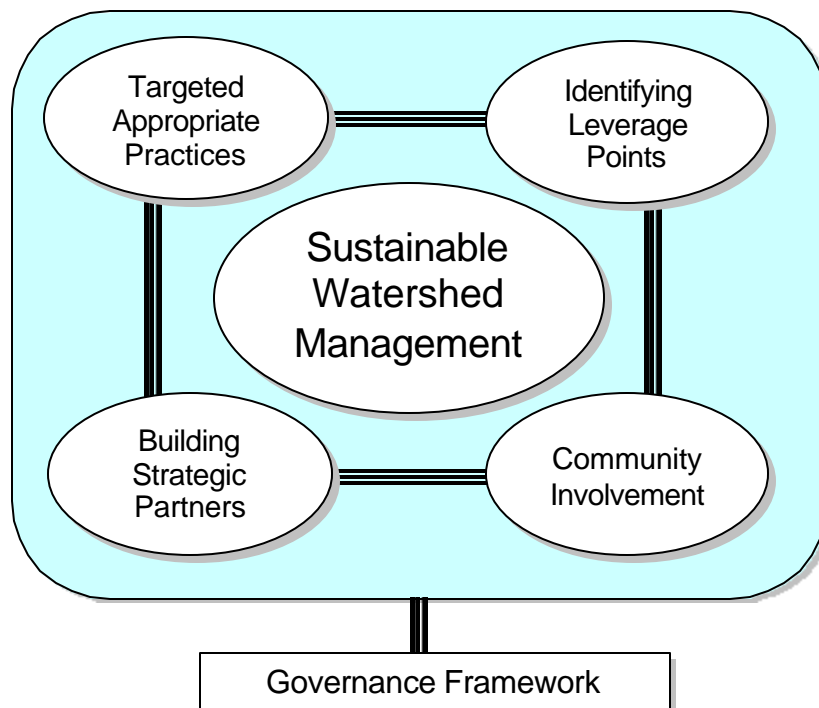
## **2.2 Project Strategy**

The R2RW Project strategy to achieve the overall R2RW goal of “Natural resources under improved and sustainable management in identified watersheds” has evolved and matured during the second year of the project. This section articulates four (4) strategic principles under which the Project is implemented. 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
- Targeted Appropriate Practices

The strategic approach is summarized in Figure 3.

**Figure 3 R2RW Strategic Approach**



The governance framework of multiple centralized government agencies operating with weak regional, parish and local mechanisms for coordination forms the basis for the strategic pillars of sustainable watershed management.

### **2.2.1 Building Strategic Partners**

The Project depends upon our partners to participate in, contribute to, and ultimately to implement R2RW supported activities. This is a new concept. In the past, because of expediency, projects have tended to build up separate implementation structures to efficiently carry out programs and meet their objectives in a timely manner. The concept of implementing a project through strategic partners means that R2RW needs to identify and address the constraints these organizations face in affecting environmental management. In addition it means finding ways to motivate and work with their existing field staff, and to actively build working arrangements with and between public sector agencies, NGOs and CBOs.

At the **national** level, building strategic partners will take place through consolidating the work of the National Integrated Watershed Management Council to address and lead national efforts to improve the management of watersheds. The development of information sharing, consensus building and coordination mechanisms is expected to take place at the Council level in terms of national policy, and at the task force level through the development of operational procedures, lessons learned, appropriate technologies, and incentives for improved management of Jamaica's watersheds.

At the **watershed** level building strategic partners will take place through the identification and sharing of information on institutional capabilities, the establishment of the GRWMC and its task forces to prioritize and devise joint implementation activities to address commonly held concerns. For example in the Great River, improving sanitation has been identified as the top concern. Addressing this priority requires concerned entities such as the National Water Commission, the Water Resources Authority, the Public Health Department, the Sanitation Support Unit, the

Montego Bay Marine Park and CBOs throughout the watershed to jointly devise solutions to problems ranging from water quality, water supply, poor household sanitation, pollution from agri-chemicals, monitoring programs and occasional fish kills in the River.

### **2.2.2 Approach to Community Involvement**

With respect to strategies for community involvement, R2RW recognizes that it will not be operating in a vacuum. We appreciate that many of our strategic partners already have innovative approaches for community outreach, animation and mobilization. As a result, we are not starting from scratch and there is no need to “reinvent” the wheel in terms of a methodology for community mobilization.

In addition, the project will encourage the development of sub-project activities that are community based and community driven and will help to support the work of strategic partners to ensure that these projects are sustainable. This “bottom-up” approach should include analysis of priorities from a community perspective. A further dimension will be to link community involvement processes to all public awareness and environmental education activities so that communities are being informed as well as involved.

The project also recognizes that the following additional steps will need to be taken:

- Gender considerations in community development will need to be part of a community involvement strategy. Partners may need training and/or gender sensitization to make this effective.
- Models of “local watershed stewardship” and “community compliance strategies” that could be adopted during R2RW need to be explored. This process could also be designed to encourage “Certified Sustainable Watershed Stewardship Communities” that could be recognized with the placement of local watershed signs.
- Most importantly, the project will seek to strengthen NEPA field staff in community outreach and mobilization skills directly, and through partnerships with other organizations (JIS, SSU, Public Health, RADA, FD and others).

### **2.2.3 Identifying Leverage Points**

Given the limited project staff, the R2RW project will need to be strategic in its approach to project implementation in order to progress towards the vision articulated above. Being strategic involves careful analysis of factors that influence the change process, and defining project activities so as to have the maximum impact. Tools such as the Gender Equity Mechanism piloted by the Planning Institute of Jamaica can offer important insights into key individuals and groups with influence over the shaping of public opinion. Social marketing strategies will need to be adopted. For example, it may be found that there is a limited group of clergy, teachers, or public servants whose views help to shape attitudes towards the environment in communities. Targeting skills building initiatives, tools for development, and information provision could serve to leverage broader social, economic or environmental change. As a result, in most activities, the project will be:

1. Encouraging the initiation of joint partnership activities that will ensure sustainability, and leveraging of the human and financial capital that are required to undertake these initiatives.
2. Assessing each planned activity to ensure that it utilizes leverage points to enhance the impact of interventions.

3. Seeking to collaborate with other environmental projects and initiatives that are working towards similar objectives in the same area. This will be especially important in Portland where there is a myriad of donor projects already working.
4. And finally, the project will encourage communities and strategic partners to leverage funding sources from other donors for most of the community-based initiatives to be undertaken.

Joint project implementation is expected to foster cooperation between GOJ agencies, the private sector, NGOs and CBOs. The resulting consensus by a diverse group of public sector actors, concerned civil society organizations, and participating community based groups, brings synergies to bear on program implementation that will result in a more comprehensive and sustainable initiative. The R2RW Project over the next year needs to seek opportunities to leverage project activities in such a way as to encourage joint implementation.

#### **2.2.4 Targeted Appropriate Practices**

In order for the R2RW to stimulate economic growth and retard resource degradation it must introduce farming systems technologies that will produce the desired positive effects. In addition, improved practices can also be brought to bear on other aspects of watershed management including sanitation systems, water quality monitoring, and public awareness and communication techniques. The broad areas under which these technologies will be investigated are:

- Conservation of natural resources especially soil and water
- Crop varieties that are adaptable to the specific local conditions prevailing in the targeted watersheds.
- Livestock production focusing on small ruminants (sheep and goat) production to meet local production needs.
- Supporting infrastructure such as water provision, and on-farm roads.
- Labor saving equipment and tools that enhance productivity.
- Increasing the availability of quality planting material for high yields.
- Low-cost sanitation solutions that are environmentally sensitive.
- Improving the marketing of products from the targeted watershed areas.

The ultimate goal of the R2RW project is to improve the natural resources in targeted watersheds. This can best be achieved if the economic, social and environmental dimensions of the issues are addressed. Strategic partnerships must be built that are engaged in the joint implementation of activities that address economic, social and environmental issues. There must be a strategic approach to community involvement that engages residents in the ownership of solutions. The R2RW Project will strive to identify leverage points that shape public opinion so as to enhance the effectiveness of project interventions. And, Targeted Appropriate Practices will be employed that are carefully analyzed, built on lessons learned, and advance the technology employed. It is through utilizing these strategies that an accurate demand will be assessed that reflects community priorities and through which sustainability will be attained.

An integrated watershed model will be achieved through focusing on sustainable environmental practices such as improved crops and low-cost septic systems as in Component 1. This needs to be combined with improved compliance and enforcement of Component 2 and the institutional

strengthening planned for in Component 3. The next four sections of this document contain detailed plans for the achievement of each of these components.

### **3. COMPONENT 1A: SUSTAINABLE ENVIRONMENTAL PRACTICES IN THE GREAT RIVER WATERSHED**

Jamaica has some 50 years experience in attempting to address issues caused by inadequate management of its watershed areas. The country has had a series of watershed management projects that encouraged the adoption of “improved land husbandry techniques” with varying degrees of success. In some cases, emphasis has been overly placed on the importance of “farmer groups” that were not linked to wider integrated development efforts. In other instances, dependence on free or subsidized inputs meant that project efforts were not sustainable.

Some of the lessons learned from project experiences indicate that the end users were often not involved in the planning of project activities and hence, the technologies were not fully appropriate. In some cases, the agencies encouraging improved resource management techniques operated in a vacuum and were not part of an integrated community development process. In other cases implementing agencies have not been fully capable of delivering project interventions in a sustainable manner.

In the first two years of the R2RW, considerable progress was made on the establishment of the Great River Watershed Management Committee as a mechanism for identifying priorities and devising solutions to environmental problems encountered in watershed management. Great emphasis was placed on exploring mechanisms for sustainability of the Committee within a broader national and institutional framework.

Greater attention needs to take place in Year 3 to overcome the “turf” mentality of centralised Government agencies that sometimes struggle to compete for a limited national budget to implement watershed improvement programs. This will be achieved by encouraging more co-ordinated, joint implementation of initiatives.

Activities under component 1 in the GRW will concentrate not only on introducing and extending Targeted Appropriate Practices (TAPs), but will focus on the link that has been missing in the past – strengthening the capacity of the organisations needed to transfer and sustain the TAPs in the watersheds. The basis of Component 1 is to work with local organisations, - governmental, non-governmental, private sector, and community-based groups – to identify appropriate management practices for watershed resource users and to enhance the capacity of specific watershed communities to improve environmental management.

Activities and tasks undertaken under this component will contribute to the USAID SO2 - Improved quality of key natural resources in selected areas that are both environmentally and economically significant - and to the Intermediate Results below:

- IR 1 Increased adoption of environmentally sound practices
- IR 1.1 Increased effectiveness of environmental NGOs

Component 1A is broken out into 5 main activity areas as follows.

- 3.1 *Development of the Great River Watershed Management Committee*
- 3.2 *Production and Marketing in the Great River Watershed*
- 3.3 *Water and Sanitation Activities in the Great River Watershed*
- 3.4 *Public Awareness in the Great River Watershed*
- 3.5 *Gender Considerations in the Great River Watershed*

### 3.1 Development of the Great River Watershed Management Committee

The GRWMC was established to advise on, and coordinate, environmental management activities in the Great River Watershed. It is a multi-sectoral entity containing representation from the major Government of Jamaica agencies, non-governmental organizations and community-based organizations. The GRWMC meets quarterly and much of the work of the Committee is achieved through task forces. Four task forces have been established:

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

The process of establishing the GRWMC and the task forces, got off to a solid start during Year 2. To consolidate progress, much facilitatory work needs to be done to clarify its mandate and regularize operational mechanisms for coordination. In order for effective collaboration mechanisms to be sustained over the life of the project, the R2RW team and NEPA will need to assist the GRWMC to establish a momentum and identity of its own. It is important for the GRWMC to develop its own vision and plan, and not to be just a project creation. The promise of the GRWMC is to lead the transformation of the GRW into a clean and productive watershed for people to live and work. The GRWMC could become a mechanism for local accountability of human and financial resources. Attention needs to be paid to the specific activities that will lead to greater control over financial resources and the decision-making apparatus so as to increase the ownership over and control of project initiatives. Assuming ownership from the beginning will assist the GRWMC to earn the term “Management Committee” by the end of the Project. The following specific activities are envisioned for the R2RW team:

The following specific activities are envisioned under heading 3.1

3.1.1	<i>Development of role, mandate and programs of the GRWMC</i>
3.1.2	<i>Management Activities of the GRWMC</i>
3.1.3	<i>Registration of the GRWMC</i>
3.1.4	<i>GRWMC Managed Program Initiatives</i>

#### 3.1.1 Development of Role, Mandate and Programs of the GRWMC

ACTIVITY NUMBER	ACTIVITY NAME	R2RW LEADER(S)	PARTICIPANTS	PARTNER ORGANIZATIONS
3.1.1.1	Host seminar of the GRWMC to develop consensus and buy-in to Programs.	LD	HG, MN, TS	GRWMC
3.1.1.2	Develop MOUs: GRWMC - State Agencies to implement GRWMC Programs	TS, LD	MN, HG, JS	GRWMC
3.1.1.3	Develop GR Watershed Operations Plan and Strategy	HG	TEAM	GRWMC
	▪ Define contents of Plan	HG	TS, MN	TA, GRWMC
	▪ TA to develop Plan	HG	MN	GRWMC
	▪ Present plan at facilitated seminar	HG	MN, LD	GRWMC

ACTIVITY NUMBER	ACTIVITY NAME	R2RW LEADER(S)	PARTICIPANTS	PARTNER ORGANIZATIONS
	<ul style="list-style-type: none"> <li>▪ Incorporate feedback and Publish Plan</li> </ul>	HG	TEAM	GRWMC
3.1.1.4	Participate and share lessons in WMC networking opportunities	HG, LD	TEAM	GRWMC,SWB
3.1.1.5	Meetings of GRWMC Task Forces	LD	TEAM	GRWMC
	<ul style="list-style-type: none"> <li>▪ Production and Marketing Task Force</li> </ul>	HG, JS	MN, SD, LD	GRWMC
	<ul style="list-style-type: none"> <li>▪ Water and Sanitation Task Force</li> </ul>	JE, LD	NW	GRWMC
	<ul style="list-style-type: none"> <li>▪ Compliance and Enforcement Task Force</li> </ul>	TS,	MN	GRWMC
	<ul style="list-style-type: none"> <li>▪ Public Awareness Task Force</li> </ul>	MP	LD	GRWMC

### 3.1.2 Management Activities of the GRWMC

ACTIVITY NUMBER	ACTIVITY NAME	R2RW LEADER(S)	PARTICIPANTS	PARTNER ORGANIZATIONS
3.1.2.1	Regular Meetings of the GRWMC	LD	TEAM	GRWMC
	<ul style="list-style-type: none"> <li>▪ Quarterly meeting of GRWMC</li> </ul>	LD	TEAM	GRWMC
	<ul style="list-style-type: none"> <li>▪ GRWMC Executive Committee</li> </ul>	MN	LD	GRWMC
3.1.2.2	Administer funds for travel reimbursement and communications	LD	MN, BT, GC	GRWMC
3.1.2.3	Develop local secretariat skills and services	LD	GC	GRWMC
	Assess training Needs of WMC	LD	HG	GRWMC
	Provide training courses	LD	HG, GC, MN, JS	GRWMC, TA
3.1.2.4	Increase participation of community reps in GRWMC & Task Forces	LD	MP, HG	GRWMC

### 3.1.3 Registration of the GRWMC

ACTIVITY NUMBER	ACTIVITY NAME	R2RW LEADER(S)	PARTICIPANTS	PARTNER ORGANIZATIONS
3.1.3.1	Examine the options for GRWMC incorporation and registration	LD	TS, MN	GRWMC, TA, SDC
3.1.3.2	Submit application for WMC certification to the NIWMC	LD	HG, MN,TE	GRWMC
3.1.3.3	Initiate legal registration	LD	MN	TA



**3.1.4 GRWMC Managed Program Initiatives**

ACTIVITY NUMBER	ACTIVITY NAME	R2RW LEADER(S)	PARTICIPANTS	PARTNER ORGANIZATIONS
3.1.4.1	Implement the Community Stewardship Certification Program	MP	LD, HG, BT	GRWMC, PubEd
	▪ GRWMC approval of criteria for program design	MP	TS, HG, MN, LD	GRWMC, PubEd
	▪ Launch Program	MP, LD	MN, HG, LD, NW, BT	GRWMC, PubEd, SWB
	▪ Program Implementation and promotion	MP	TEAM, BT, TE	GRWMC, PubEd, SWB
	▪ Issue program update for Earth Day	MP, LD	HG, MN	GRWMC, PubEd, SWB
	▪ Issue prizes at National Wood and Water Day	MP	LD, MN	GRWMC, PubEd, SWB
	▪ Erect Signs	LD	BT	GRWMC, SWB
3.1.4.2	Capacity building Training Activities			GRWMC
	▪ Stewardship Training	MP, LD	MN, HG, TS, TE, BT	GRWMC
	▪ Basic Project Management Training	HG	MN, MP, TS	GRWMC
	▪ Project finance Training	LD	HG, MN, BT	GRWMC
	▪ Develop lobbying and advocacy curriculum	TS	MP, MN	GRWMC, TA

**3.2 Production and Marketing Activities**



*R2RW supported Goat Breeders Association project in the Great River Watershed*

The Production and Marketing Task Force of the Great River Watershed Management Committee was established to facilitate development of production and marketing activities. During Year 2, the task force held regular meetings, suggested projects for consideration, and oversaw the implementation of specific field activities. The task force meets quarterly, and reports regularly to the GRWMC. R2RW will continue to assist the task force to guide the GRWMC in project selection and through close monitoring to guide their development. It is recognized that the successful implementation of production and marketing projects is critical to the success of R2RW initiatives. It is expected that such projects will lead to higher standards of living resulting in a change towards environmentally friendly practices.

Activities under this heading can be divided as follows:

3.2.1	<i>Production and Marketing Task Force Initiatives</i>
3.2.2	<i>Nursery Development</i>
3.2.3	<i>Improved Crop Varieties</i>
3.2.4	<i>Livestock Improvement</i>
3.2.5	<i>Market Development</i>
3.2.6	<i>Plant A Tree Campaign</i>

### **3.2.1 Production and Marketing Task Force Initiatives**

<b>ACTIVITY NUMBER</b>	<b>ACTIVITY NAME</b>	<b>R2RW LEADER(S)</b>	<b>PARTICIPANTS</b>	<b>PARTNER ORGANIZATIONS</b>
3.2.1.1	Expand Task Force to include more community reps.	LD	MP, MN, BT, HG, JS	GRWMC
3.2.1.2	Delegate implementation responsibility to members of the task force.	HG, JS	MN, LD	RADA, GRWMC
3.2.1.3	Development of Extension Materials on agricultural technologies.	MP, HG	JS, LD	TA, RADA
	▪ Inventory of existing materials and needs assessment for new materials.	HG	MP, JS	TA, RADA
	▪ Develop new materials	MP	HG, JS	TA, RADA
	▪ Produce and field test materials	MP, HG	JS, LD	Printer
	▪ Disseminate materials	HG	MP, JS, LD	RADA
3.2.1.4	Provide TA to communities on agricultural development initiatives	JS	HG, MN, BT	RADA

### 3.2.2 Nursery Development

ACTIVITY NUMBER	ACTIVITY NAME	R2RW LEADER(S)	PARTICIPANTS	PARTNER ORGANIZATIONS
3.2.2.1	Determine seedling requirements for the GRW	HG	JS, NB	RADA, FD
3.2.2.2	Finalize nursery development plan	HG, JS	MN, NB	TA, RADA, FD
3.2.2.3	Procure materials and supplies for nursery	HG, GC	MN, JS	RADA, ARD
3.2.2.4	Nursery operation and maintenance	JS	HG, MN	RADA, MA, FD



*Tree planting activity involving community members of the watershed*

### 3.2.3 Improved Crop Varieties

ACTIVITY NUMBER	ACTIVITY NAME	R2RW LEADER(S)	PARTICIPANTS	PARTNER ORGANIZATIONS
3.2.3.1	Continue to multiply and distribute disease resistant banana suckers	JS	HG	RADA
3.2.3.2	Planting of new tree crop varieties	JS	HG	RADA
3.2.3.3	Implementation and monitoring of hot pepper development projects	JS	HG	RADA
3.2.3.4	Support initiatives to promote organic farming	JS, HG	MN, LD, MP	RADA, JOAM

### 3.2.4 Livestock Improvement

ACTIVITY NUMBER	ACTIVITY NAME	R2RW LEADER(S)	PARTICIPANTS	PARTNER ORGANIZATIONS
3.2.4.1	Continue to implement and monitor Goat	JS	MN, HG	RADA, GBA

ACTIVITY NUMBER	ACTIVITY NAME	R2RW LEADER(S)	PARTICIPANTS	PARTNER ORGANIZATIONS
	Management Project			
3.2.4.2	Develop MOUs with mother farms on revolving scheme	JS	MN, HG	RADA, GBA

### 3.2.5 Market Development

ACTIVITY NUMBER	ACTIVITY NAME	R2RW LEADER(S)	PARTICIPANTS	PARTNER ORGANIZATIONS
3.2.5.1	Development of Montpelier Market	JS	HG, MN, LD	TA, JAS
	▪ Develop and sign MOU with JAS and TPDCo	JS	HG,TS,MN	RADA, JAS, TPDCo
	▪ Contract with TA for concept design and plans	HG, JS	MN, TS	TA, RADA
	▪ Implementation of market development plan	JS	HG, MN, LD	TA, RADA, TPDCo
3.2.5.2	Develop strategy for Marketing Great River Products			
	▪ Finalize strategy for marketing of Great River Products	HG, JS	MN	RADA
	▪ Implement strategy approved by GRWMC, TF and GOJ agencies	HG, MP	MN, JS	TA, GRWMC
	▪ Develop criteria for use of logo/stamp of approval	HG	MN, MP,JS	RADA, GRWMC
	▪ Identify products for inclusion in Marketing promotions	HG, JS	MP, MN	GRWMC
	▪ Implement promotional campaign for GR	HG, JS	MP	RADA, GRWMC

### 3.2.6 Plant-A-Tree Campaign

ACTIVITY NUMBER	ACTIVITY NAME	R2RW LEADER(S)	PARTICIPANTS	PARTNER ORGANIZATIONS
3.2.6.1	Establish a Steering Committee for Plant a Tree Campaign	JS, HG	MP, MN, BT, NB	FD, RADA
3.2.6.2	Hire Consultant to implement program	MN	MP, GC	FD
3.2.6.3	Targeting of deforestation hot spots	HG, JS	NB	FD, RADA
3.2.6.4	Sign MOU with Forest Department to secure seedlings	MN	JS, HG, MP, NB	FD
3.2.6.5	Planting and maintenance of seedlings	JS, NB	HG	GRWMC, FD, RADA

### 3.3 Water and Sanitation Activities



*Mark Nolan (R2RW) and Heather McFarlane (SSU) [left] inspecting tanks for the Sanitation Demonstration Project in Retrieve. Looking on are Roy and Barbara Williams, recipients of the sanitation solution.*

Water and sanitation issues were ranked as highest priority by stakeholders during Year 1 of the R2RW. During Year 2, considerable progress was made particularly on sanitation issues through a viable and functioning water and sanitation task force that conducted regular meetings in locations throughout the GRW. The activities envisioned for Year 3 include:

- 3.3.1 *Water and Sanitation Task Force Initiatives*
- 3.3.2 *Water & Wastewater interventions*
- 3.3.3 *Solid Waste Management Interventions*
- 3.3.4 *Water Quality Monitoring on the Great River*

#### 3.3.1 Water and Sanitation Task Force Initiatives

ACTIVITY NUMBER	ACTIVITY NAME	R2RW LEADER(S)	PARTICIPANTS	PARTNER ORGANIZATIONS
3.3.1.1	Expand Task Force to include technical members and community reps <sup>2</sup> .	JE, LD	NW, BT, MP	GRWMC
3.3.1.2	Delegate implementation responsibility to members of the task force.	JE	MN, NW, BT, LD	GRWMC, NWC, WRA, PHD
3.3.1.3	Establish distribution system for raw materials at affordable prices.	JE	MN, NW,	Private Sector

<sup>2</sup> Technical members are able to understand technical information and help other members better understand the technologies. The addition of more community representatives is necessary for involvement of key communities in the GRW and to widen participation.

### 3.3.2 Water & Wastewater Interventions

ACTIVITY NUMBER	ACTIVITY NAME	R2RW LEADER(S)	PARTICIPANTS	PARTNER ORGANIZATIONS
3.3.2.1	Complete 2nd Water Harvesting & Wastewater Treatment System at Pisgah	JE	NW, BT, MN	PTA
3.3.2.2	Design and install village sanitation solution in Cambridge	JE	NW	NWC
3.3.2.3	Design and implement other W&S interventions	JE	NW	TA

### 3.3.3 Solid Waste Management Interventions

ACTIVITY NUMBER	ACTIVITY NAME	R2RW LEADER(S)	PARTICIPANTS	PARTNER ORGANIZATIONS
3.3.3.1	Support solid waste project at Stone Henge – garbage collection and recycling.	JE	NW	NSWMA
3.3.3.2	Support the Marine Park in hosting a solid waste seminar.	JE	MN, LD	MBMP
3.3.3.3	Provide support to community solid waste management initiatives	JE, LD	MP, JS	TA, NSWMA

### 3.3.4 Water Quality Monitoring on the Great River

ACTIVITY NUMBER	ACTIVITY NAME	R2RW LEADER(S)	PARTICIPANTS	PARTNER ORGANIZATIONS
3.3.4.1	Continue to examine results of water quality monitoring program	JE	NW, MN, BT, HG	UWI, GRWMC, NEPA
3.3.4.2	Improve quality of data, result reporting and dissemination	JE	NW, MN, HG	UWI, GRWMC, NEPA
3.3.4.3	Use water quality information to refine and promote W&S initiatives	JE	NW, MN, HG	UWI, GRWMC, NEPA

## 3.4 Public Awareness Activities

A low level of public awareness is the main reason for poor environmental practices in watershed areas. Enhancing public awareness of environmental issues was identified as one of the most important priorities. A communication strategy was developed that involved a step-wise process that first sought to identify key strategic partners, assess their capacity and build their commitment to public awareness activities. The process has been greatly enhanced by the production of a Knowledge, Attitudes and Practices Survey in Year 2 that documented the present levels of awareness of environmental issues by watershed residents. With the commitment from strategic partners now generated at the GRW level, the project is now ready to start implementing more precise communication and public awareness activities in the watershed. This will involve mobilizing the resources of existing partners in the GRW including Public Health Department, SSU, MBMP, RFL, and RADA. Regular liaison with the mainstream media in the Western Region is important to ensure proper coverage of R2RW activities. The main activities in this area are as follows:

- 3.4.1 Support to the Public Awareness Task Force
- 3.4.2 W&S Public Awareness Programs for the GRW.
- 3.4.3 Solid Waste Management Public Awareness programs for the GRW
- 3.4.4 Production and Marketing Public Awareness programs for the GRW
- 3.4.5 Plant-A-Tree Program

**3.4.1 Support to the Public Awareness Task Force**

ACTIVITY NUMBER	ACTIVITY NAME	R2RW LEADER(S)	PARTICIPANTS	PARTNER ORGANIZATIONS
3.4.1.1	Design a logo for the GRWMC	MP	MN, HG	TA, GRWMC
3.4.1.2	Develop a mascot for the GRW	MP	JS, HG, LD, BT	GRWMC, TA
3.4.1.3	Promote use of the GRW video	MP	MN, LD, BT	GRWMC
3.4.1.4	Participate in fairs, expos and community environmental fora	LD	BT, JS, HG, MP	GRWMC
3.4.1.5	Organize workshop on information communication technologies	MP	LD, HG, JS	TA
3.4.1.6	Organize exchange visits: upper and lower watershed residents	LD	MP, HG, JS	GRWMC

**3.4.2 W&S Public Awareness Programs for the GRW**

ACTIVITY NUMBER	ACTIVITY NAME	R2RW LEADER(S)	PARTICIPANTS	PARTNER ORGANIZATIONS
3.4.2.1	Develop consensus on a public awareness strategy for the GRW	MP	LD, JS, MN,	GRWMC
3.4.2.2	Develop instructional print materials (booklets and posters)	MP	LD, HG, JS	GRWMC, Printer
3.4.2.3	Develop video of technologies being implemented through R2RW in W&S	MP, JE	LD, HG	GRWMC, MBMP
3.4.2.4	Promote community awareness through community drama with the Action Boyz	MP	LD, HG, JE	NWC, PHD, SSU
3.4.2.5	Support and implement activities emerging from the KAP workshop	MP	LD, HG, JS	GRWMC
3.4.2.6	Sign MOU with relevant agencies on strategy	MP, MN	HG, TS	NWC, PHD, SSU, MBMP
3.4.2.7	Promote and launch program	MP	JE, LD, HD	NWC, SWB, SSU, MBMP, PHD
3.4.2.8	Monitor implementation of program	MP	JE, LD, HD	NWC, SWB, SSU, MBMP, PHD

**3.4.3 Solid Waste Management Public Awareness Programs for the GRW**

ACTIVITY NUMBER	ACTIVITY NAME	R2RW LEADER(S)	PARTICIPANTS	PARTNER ORGANIZATIONS
3.4.3.1	Support NSWMA "Nice & Clean" campaign in the GRW	MP, JE	LD	NSWMA
3.4.3.2	Develop program, and sign MOU among partners	MP	MN, JE	NSWMA
3.4.3.3	Hire TA to design materials, billboards, jingle, etc"	MP	MN, LD, JE	TA
3.4.3.4	Launch program	MP	LD, MN, JE	TA
3.4.3.5	Monitor implementation	MP, HG	LD, JE	

**3.4.4 Production and Marketing Public Awareness Programs for the GRW**

ACTIVITY NUMBER	ACTIVITY NAME	R2RW LEADER(S)	PARTICIPANTS	PARTNER ORGANIZATIONS
3.4.4.1	Identify technologies and messages to be promoted	JS	MP, HG	RADA
3.4.4.2	Develop materials	MP, JS	HG, LD	RADA
3.4.4.3	Implement Programs	JS, HG	MP	RADA



*The Dance/Drama Group – The Action Boyz of Retrieve performing as Part of public education and outreach activities.*



### 3.4.5 Plant-A-Tree Program

ACTIVITY NUMBER	ACTIVITY NAME	R2RW LEADER(S)	PARTICIPANTS	PARTNER ORGANIZATIONS
3.4.5.1	Hire TA for media production	MP, MN	GC	TA
3.4.5.2	Prepare and distribute press release	MP	LD, NB	TA
3.4.5.3	Launch Program Activities	MP	LD, JS, MN, NB	FD, RADA
3.4.5.4	Finalize proposal to EFJ to expand program	MP, HG	MN, JS	EFJ

### 3.5 Gender Considerations

Gender considerations will be part of all project activities and therefore, a mechanism for considering gender related factors needs to be finalized at the institutional level first, rather than the watershed level. R2RW has made inroads in this regard during Year 2. First, a background paper on gender considerations has been prepared; secondary data relevant to gender has been compiled; a gender checklist has been developed; and a set of gender sensitive “Targeted Appropriate Practices” was compiled as well. The major activities under this area are as follows:

3.5.1	<i>Work with GRWMC executive to consider gender equity in grant application review.</i>
3.5.2	<i>Training of partners and communities to encourage gender equity principles.</i>
3.5.3	<i>Hold Task force meetings at venues and at times that enhance gender equity.</i>
3.5.4	<i>Monitor gender equity principles in Project activities.</i>
3.5.5	<i>Provide annual gender report of Project activities.</i>

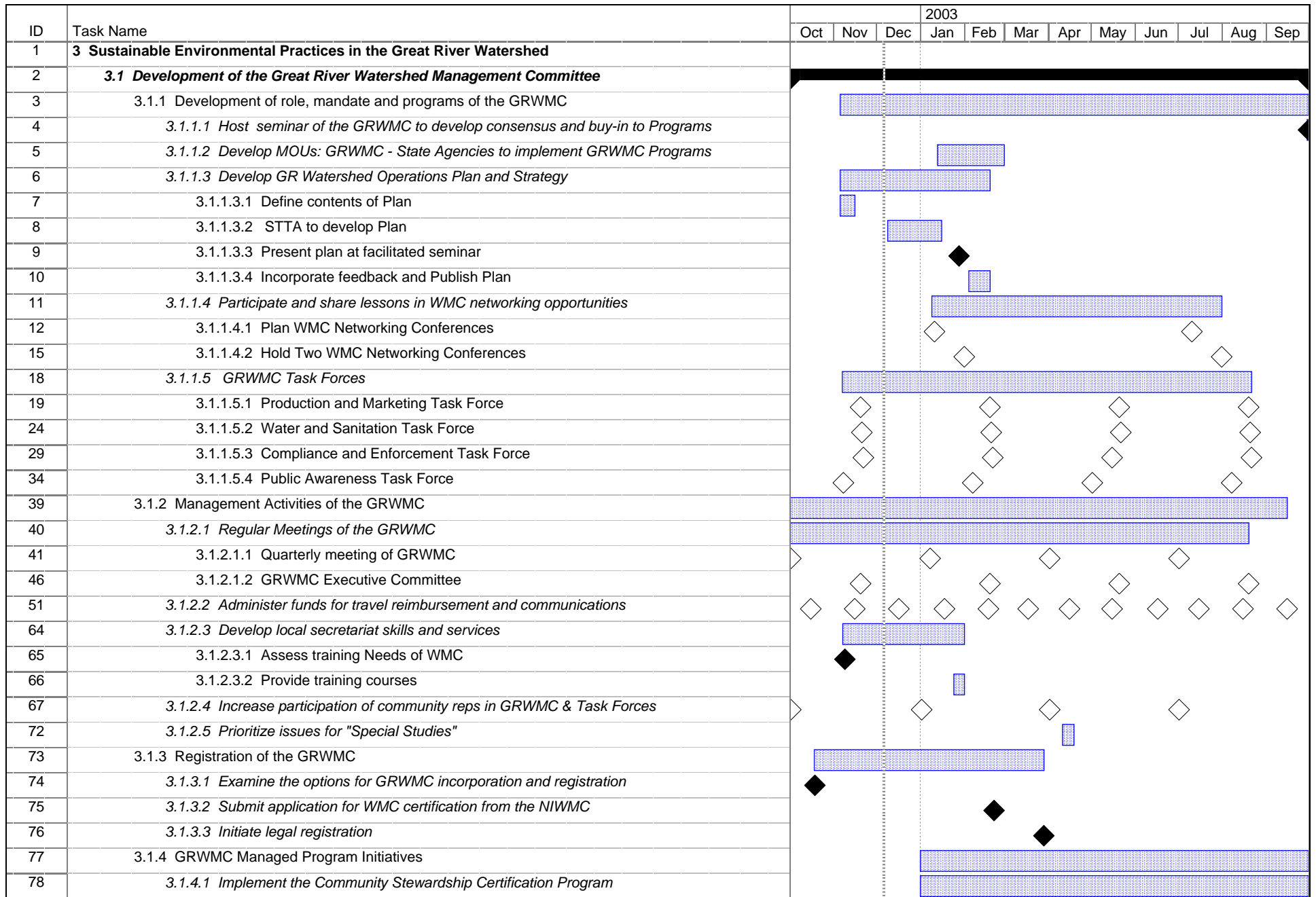
ACTIVITY NUMBER	ACTIVITY NAME	R2RW LEADER(S)	PARTICIPANTS	PARTNER ORGANIZATIONS
3.5.1	Work with GRWMC executive to consider gender equity in grant application review	MP	BT, MN	GRWMC
3.5.2	Training of partners and communities to encourage gender equity principles	MP	LD	TA
3.5.3	Hold Task force meetings at venues and at times that enhance gender equity	MP	LD	GRWMC
3.5.4	Monitor gender equity principles in Project activities	MP	HG, BT	SDC
3.5.5	Provide annual gender report of project activities	MP	HG, LD	SDC

### Activity Benchmarks

A summary of proposed benchmarks applicable to the Third year of this Component is presented below. Flexibility in project implementation must be exercised to maximize opportunities and to confront constraints.

**Year Three**

- *The GRWMC and its task forces are functional and addressing priority issues in the GRW.*
- *3 projects implemented by the production and marketing task force to address production and marketing issues.*
- *3 projects implemented by the water and sanitation task force to address water and sanitation issues.*
- *Community stewardship certification program launched.*
- *Plant A Tree production and public awareness campaign implemented.*
- *Three initiatives to enhance public awareness of priority issues implemented.*



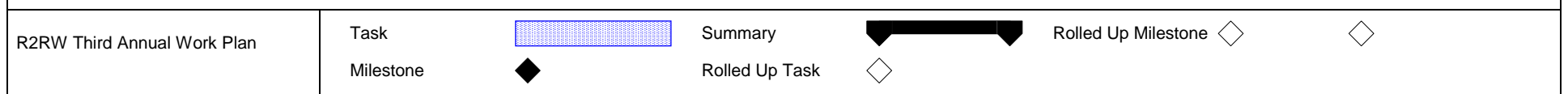
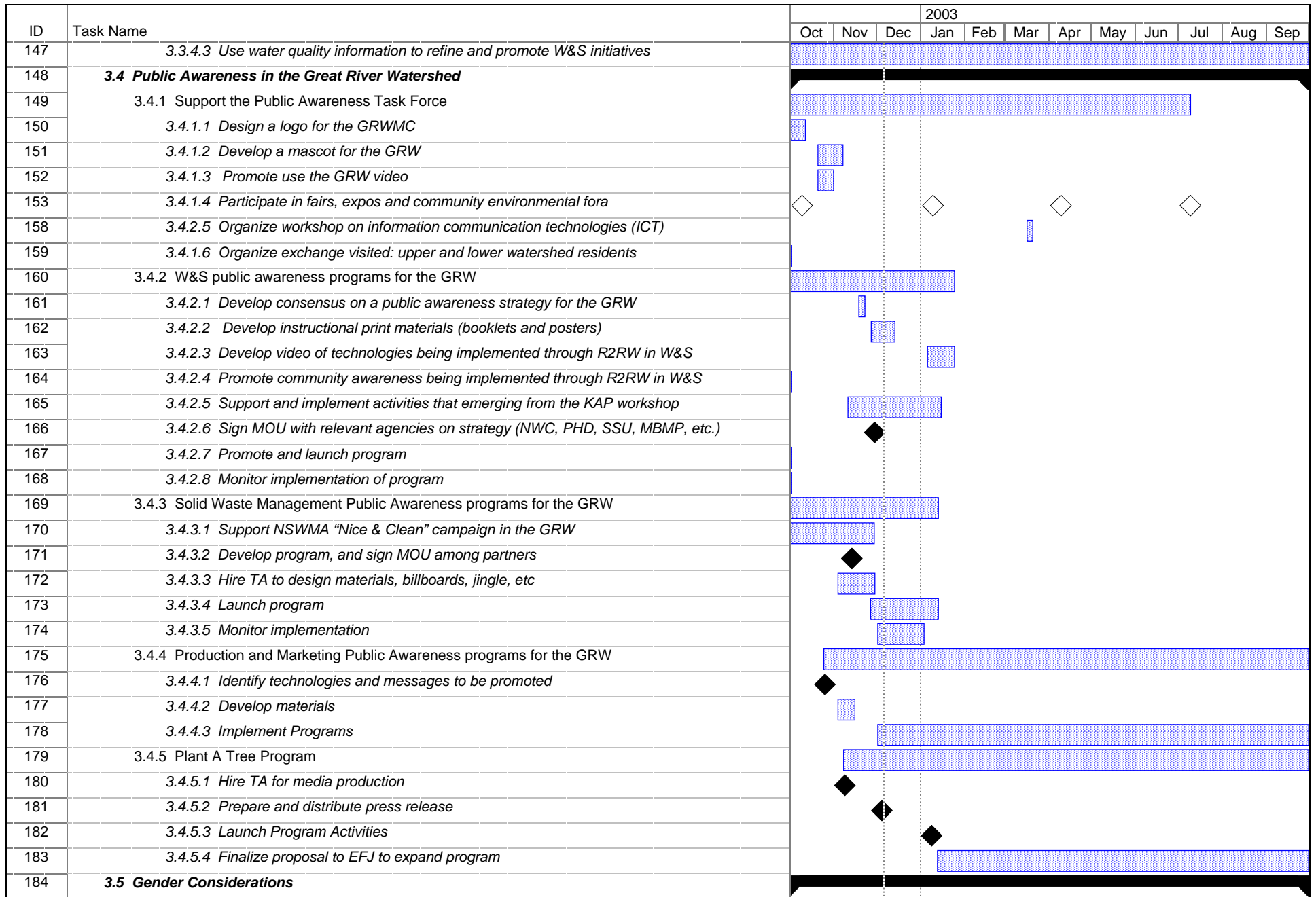
R2RW Third Annual Work Plan	Task		Summary		Rolled Up Milestone		
	Milestone		Rolled Up Task				

ID	Task Name	2003											
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
79	3.1.4.1.1 GRWMC approval of criteria for program design			◆									
80	3.1.4.1.2 Launch Program			◆									
81	3.1.4.1.3 Program Implementation and promotion												
82	3.1.4.1.4 Issue program update for Earth Day							◆					
83	3.1.4.1.5 Issue prizes at National Wood and Water Day												▮
84	3.1.4.1.6 Erect Signs												◆
85	3.1.4.3 Capacity building Training Activities												
86	3.1.4.3.1 Stewardship Training			◆									
87	3.1.4.3.2 Project Management					◆							
88	3.1.4.3.3 Project finance									◆			
89	<b>3.2 Production and Marketing in the Great River Watershed</b>	[Thick black bar]											
90	3.2.1 Production and Marketing Task Force Initiatives	[Blue hatched bar]											
91	3.2.1.1 Expand Task Force to include more community reprs.	[Blue hatched bar]											
92	3.2.1.2 Delegate implementation responsibility to members of the task force.			◆									
93	3.2.1.3 Development of Extension Materials on agricultural technologies.												
94	3.2.1.3.1 Inventory for existing materials & needs assessment for new materials												
95	3.2.1.3.2 Develop new materials												
96	3.2.1.3.3 Produce materials												
97	3.2.1.3.4 Disseminate materials												
98	3.2.1.4 Provide STTA to communities on agricultural development initiatives												
99	3.2.2 Nursery Development												
100	3.2.2.1 Determine seedling requirements for the GRW												
101	3.2.2.2 Finalize nursery development plan												
102	3.2.2.3 Procure materials and supplies												
103	3.2.2.4 Nursery operation and maintenance												
104	3.2.3 Improved Crop Varieties	[Blue hatched bar]											
105	3.2.3.1 Continue to multiply and distribute disease resistant banana suckers												
106	3.2.3.2 Planting of new tree crop varieties												
107	3.2.3.2 Fall Planting Season												
108	3.2.3.2 Spring Planting Season												
109	3.2.3.3 Implementation and monitoring of hot pepper development projects												
110	3.2.3.4 Support initiatives to promote organic farming potential												
111	3.2.4 Livestock Improvement	[Blue hatched bar]											
112	3.2.4.1 Continue to implement and monitor Goat Management Project	[Blue hatched bar]											

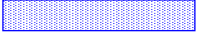





R2RW Third Annual Work Plan	Task		Summary		Rolled Up Milestone	
	Milestone		Rolled Up Task			

ID	Task Name	2003											
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
113	3.2.4.2 MOUs with mother farms on revolving scheme	◆											
114	3.2.5 Market Development	[Task bar]											
115	3.2.5.1 Development of Montpellier Market	[Task bar]											
116	3.2.5.1.1 Develop and sign MOU with JAS and TPDCo	◆											
117	3.2.5.1.2 Contract with STTA for concept design and plans	[Task bar]											
118	3.2.5.1.3 Implementation of market development plan				[Task bar]	[Task bar]	[Task bar]	[Task bar]	[Task bar]	[Task bar]	[Task bar]	[Task bar]	[Task bar]
119	3.2.5.2 Develop strategy for marketing Great River Products	[Task bar]											
120	3.2.5.2.1 Finalize strategy for marketing Great River products		[Task bar]										
121	3.2.5.2.2 Develop logo for Great River Watershed		[Task bar]										
122	3.2.5.2.3 Develop criteria for use of logo/stamp of approval			[Task bar]									
123	3.2.5.2.4 Identify products for inclusion in marketing promotions			[Task bar]									
124	3.2.5.2.5 Implement promotional campaign for GR			[Task bar]									
125	3.2.6 Plant A Tree Campaign	[Task bar]											
126	3.2.6.1 Establish a Steering Committee for Plant A Tree Campaign			[Task bar]	[Task bar]	[Task bar]	[Task bar]	[Task bar]	[Task bar]	[Task bar]	[Task bar]	[Task bar]	[Task bar]
127	3.2.6.2 Hire Consultant to implement program	[Task bar]											
128	3.2.6.2 Targeting of deforestation hot spots	◆											
129	3.2.6.3 MOU with Forest Department to secure seedlings	◆											
130	3.2.6.4 Planting and maintenance of seedlings			[Task bar]	[Task bar]	[Task bar]	[Task bar]	[Task bar]	[Task bar]	[Task bar]	[Task bar]	[Task bar]	[Task bar]
131	<b>3.3 Water and Sanitation Activities in the Great River Watershed</b>	[Rolled Up Milestone bar]											
132	3.3.1 Water and Sanitation Task Force Initiatives	[Task bar]											
133	3.3.1.1 Expand Task Force to include technical members and community reprs.	[Task bar]											
134	3.3.1.2 Delegate implementation responsibility to members of the task force												
135	3.3.1.3 Establish distribution system for raw materials at affordable prices.												
136	3.3.2 Water & Wastewater intervention	[Task bar]											
137	3.3.2.1 Complete 2nd Water Harvesting & Wastewater Treatment System at Pisgah	[Task bar]											
138	3.3.2.2 Design and install village sanitation solution in Cambridge				[Task bar]	[Task bar]	[Task bar]	[Task bar]	[Task bar]	[Task bar]	[Task bar]	[Task bar]	[Task bar]
139	3.3.2.3 Design and implement other W&S interventions									[Task bar]	[Task bar]	[Task bar]	[Task bar]
140	3.3.3 Solid Waste Management Interventions	[Task bar]											
141	3.3.3.1 Solid waste project at Stone Hinge – garbage collection and recycling												
142	3.3.3.2 Support the Marine Park in hosting a solid waste seminar	[Task bar]											
143	3.3.3.3 Provide support to community solid waste management initiatives												
144	3.3.4 Water Quality Monitoring on the Great River	[Task bar]											
145	3.3.4.1 Continue to monitor results of water quality monitoring program	[Task bar]											
146	3.3.4.2 Improve quality of data result reporting and dissemination	[Task bar]											

R2RW Third Annual Work Plan	Task	[Task bar]	Summary	[Rolled Up Milestone bar]	Rolled Up Milestone	◇
	Milestone	◆	Rolled Up Task	◇		◇



ID	Task Name	2003											
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
185	3.5.1 Work with GRWMC executive to consider gender equity in grant application review		◆										
186	3.5.2 Training to partners and communities to encourage gender equity principles			◆									
187	3.5.3 Hold Task force meetings at venues and at times that enhance gender equity	[Blue hatched bar]											
188	3.5.4 Monitor gender equity principles during grant life	[Blue hatched bar]											
189	3.5.5 Provide annual gender report of project activities												◆

R2RW Third Annual Work Plan	Task		Summary		Rolled Up Milestone		
	Milestone		Rolled Up Task				

#### **4. COMPONENT 1B: SUSTAINABLE ENVIRONMENTAL PRACTICES IN THE RIO GRANDE WATERSHED**

R2RW activities were initiated in the Rio Grande during the second year of the Project. A solid foundation was laid to address the priority environmental issues, and to bring together communities with State Agencies to begin to devise solutions to the priority issues. A three-person inter-disciplinary team conducted a Rapid Rural Appraisal of the Rio Grande Watershed that presented an integrated profile of the natural resources as well as environmental, social and economic features. It also identified ecological and socio-economic problems and presented a critical assessment of the current situation in the watershed. In February 2002, a strategic Action Planning Workshop was conducted that identified the following priority issues for the RGW.

##### Strategic Action Priorities for the Rio Grande Watershed

1. *Enhance public awareness of environmental and watershed practices*
2. *Promote activities geared to improve economic well being of residents of the Rio Grande Watershed that are appropriate given the geophysical profile of the area*
3. *Enhance waste management by promoting waste management systems that are environmentally compatible with the Rio Grande Watershed*
4. *Support infrastructure development - roads and water*
5. *Enhance the institutional capacity of organizations active in the Rio Grande Watershed*
6. *Promote good stewardship and compliance*
7. *Undertake research and development in potential technologies and the application of targeted appropriate practices.*
8. *Develop a comprehensive plan that addresses carrying capacity, water quality, and Management*
9. *Enhance public awareness of environmental and watershed practices*

Finally, considerable progress was made on the establishment of a good governance mechanism through the formation of the Rio Grande Watershed Management Committee in July 2002. This Committee has been meeting monthly, and has selected officers, refined and adopted its Terms of Reference, established an Executive Committee, signed an MOU with the Portland Parish Development Committee, and had lively debate on how to address priority issues. In addition, it has established a Portland Compliance and Enforcement Task Force, a Public Awareness Working Group, and a Water and Sanitation Task Force.

Activities and tasks undertaken under this component will contribute to the USAID SO2 - Improved quality of key natural resources in selected areas that are both environmentally and economically significant - and to the Intermediate Results below:

- |        |   |
|--------|---|
| IR 1   | Increased adoption of environmentally sound practices |
| IR 1.1 | Increased effectiveness of environmental NGOs         |



Component 1B (sustainable environmental practices in the Rio Grande Watershed) is broken out into the following 5 Activity Areas.

4.1	<i>The Rio Grande Watershed Management Committee</i>
4.2	<i>Land and Conservation Activities</i>
4.3	<i>Water and Sanitation Activities</i>
4.4	<i>Public Awareness Activities</i>
4.5	<i>Gender Considerations</i>

#### **4.1 The Rio Grande Watershed Management Committee**

Activity Area 4.1 is broken down into the following activities

4.1.1	<i>Development of the Rio Grande Watershed Management Committee</i>
4.1.2	<i>Management Activities of the RGWMC</i>
4.1.3	<i>Registration of the RGWMC</i>
4.1.4	<i>RGWMC managed Program Initiatives</i>

##### **4.1.1 Development of the Rio Grande Watershed Management Committee**

<b>ACTIVITY NUMBER</b>	<b>ACTIVITY NAME</b>	<b>R2RW LEADER(S)</b>	<b>PARTICIPANTS</b>	<b>PARTNER ORGANIZATIONS</b>
4.1.1.1	Development of role, mandate and programs of the RGWMC.	TS, LD	MN, HG, TE	RGWMC
4.1.1.2	Establish Task Forces for the RGWMC	MN, LD	TEAM, TE	RGWMC
	▪ Public Awareness Working Group	MP	LD	RGWMC
	▪ Portland Compliance and Enforcement Task Force	TS	LD	RGWMC
	▪ Water and Sanitation Task Force	JE	LD	RGWMC
	▪ Land and Conservation Task Force	HG, JS	LD	RGWMC
4.1.1.3	Host seminar of the RGWMC to develop consensus and buy-in to Programs	LD, TS	Team	RGWMC
4.1.1.4	MOUs – RGWMC, State Agencies and Communities	LD	MN, HG, TS	RGWMC, GOJ
4.1.1.5	Monitor MOU with the Portland PDC	TS	MN, LD	RGWMC
4.1.1.6	Develop RG Watershed Management Plan and Strategy	HG	ST, TE, LD, MN	TA, RGWMC
	▪ Define contents of Plan	HG, MN	TE, LD	RGWMC
	▪ TA to develop Plan	HG, MN	TEAM	TA
	▪ Present plan at facilitated seminar	HG, LD	TEAM	TA
	▪ Incorporate feedback and Publish Plan	HG	LD, MN	TA, RGWMC
4.1.1.7	Establish and implement watershed health monitoring protocols	HG	TEAM, TE, ST	NEPA/SWB

ACTIVITY NUMBER	ACTIVITY NAME	R2RW LEADER(S)	PARTICIPANTS	PARTNER ORGANIZATIONS
	<ul style="list-style-type: none"> <li>Review documentation on watershed health protocols</li> </ul>	HG	JS, JE	SWB
	<ul style="list-style-type: none"> <li>Prepare protocols for monitoring programs</li> </ul>	HG	TE, MN, JS,JE	TA, SWB



*Executive of the RGWMC established on June 19, 2002*

#### **4.1.2 Management Activities of the RGWMC**

ACTIVITY NUMBER	ACTIVITY NAME	R2RW LEADER(S)	PARTICIPANTS	PARTNER ORGANIZATIONS
4.1.2.1	Administer funds for travel reimbursement and communications	LD	MN, BT, GC	RGWMC
4.1.2.2	Develop local secretariat skills and services	LD	MN, HG	TA
4.1.2.3	Prioritize issues for Special Studies	LD	TEAM, TE, ST	RGWMC

#### **4.1.3 Registration of the RGWMC**

ACTIVITY NUMBER	ACTIVITY NAME	R2RW LEADER(S)	PARTICIPANTS	PARTNER ORGANIZATIONS
4.1.3.1	Submit application for WMC certification to the NIWMC	HG	MN, LD, TE	RGWMC
4.1.3.2	Examine the options for RGWMC incorporation and registration	HG	MN,TE, ST, LDM, SD	RGWMC, TA, SDC

ACTIVITY NUMBER	ACTIVITY NAME	R2RW LEADER(S)	PARTICIPANTS	PARTNER ORGANIZATIONS
4.1.3.3	Complete legal registration	HG	MN, TE, ST, LD	RGWMC

#### 4.1.4 RGWMC Managed Program Initiatives

ACTIVITY NUMBER	ACTIVITY NAME	R2RW LEADER(S)	PARTICIPANTS	PARTNER ORGANIZATIONS
4.1.4.1	Implement the Community Stewardship Initiative	MP	TEAM, TE, ST	SDC, RGWMC
4.1.4.2	Stewardship training initiatives	LD and HG	GC, LD, MP	TA
	▪ Basic Project financing	MN	TEAM, ST	RGWMC, PubEd, SWB
	▪ Stewardship	MP	TEAM, ST	RGWMC, PubEd, SWB
	▪ Basic Project Management	MN, HG	TEAM, ST	RGWMC, PubEd, SWB
	▪ Development planning	HG	TEAM, ST	RGWMC, PubEd, SWB

## 4.2 Land and Conservation Activities

Activity Area 4.2 is divided into the following activities:

4.2.1	<i>Establish RGWMC Land and Conservation Task Force</i>
4.2.2	<i>Improved Crop Varieties</i>
4.2.3	<i>Livestock Improvement</i>
4.2.4	<i>Enterprise Development</i>

#### 4.2.1 Establish RGWMC Land and Conservation Task Force

ACTIVITY NUMBER	ACTIVITY NAME	R2RW LEADER(S)	PARTICIPANTS	PARTNER ORGANIZATIONS
4.2.1.1	Initial meeting of Land and Conservation Task Force	HG, JS	LD, MN, ST	RGWMC, RADA
4.2.1.2	Prioritize agricultural interventions	HG, JS	MN, LD, TE, ST	RGWMC, RADA
4.2.1.3	Design intervention activities with appropriate partners	HG, JS	LD, MN	RGWMC, RADA

#### 4.2.2 Improved Crop Varieties

ACTIVITY NUMBER	ACTIVITY NAME	R2RW LEADER(S)	PARTICIPANTS	PARTNER ORGANIZATIONS
4.2.2.1	Continue to multiply and distribute disease resistant banana suckers	JS	HG	MinAg
4.2.2.2	Planting of new tree crop varieties	JS	HG	RADA
4.2.2.3	Investigate options for nursery development	JS	HG	TA
4.2.2.4	Support initiatives to develop organic farming potential	JS, HG	MP, MN, LD	RADA, JOAM

#### 4.2.3 Livestock Improvement

ACTIVITY NUMBER	ACTIVITY NAME	R2RW LEADER(S)	PARTICIPANTS	PARTNER ORGANIZATIONS
4.2.3.1	Investigate feasibility of Goat Management Project	JS	MN, HG	GBA
4.2.3.2	Follow-up livestock development opportunities	JS	HG	Grant

#### 4.2.4 Enterprise Development

ACTIVITY NUMBER	ACTIVITY NAME	R2RW LEADER(S)	PARTICIPANTS	PARTNER ORGANIZATIONS
4.2.4.1	Assessment of Agro processing opportunities	JS, HG	MN	RADA, TA
4.2.4.2	Foster and promote eco-tourism initiatives	HG	MN, LD	Grant



*Rio Grande River at Berrydale after floods in 2001*

### 4.3 Water and Sanitation Activities

This Activity area is divided into the following activities

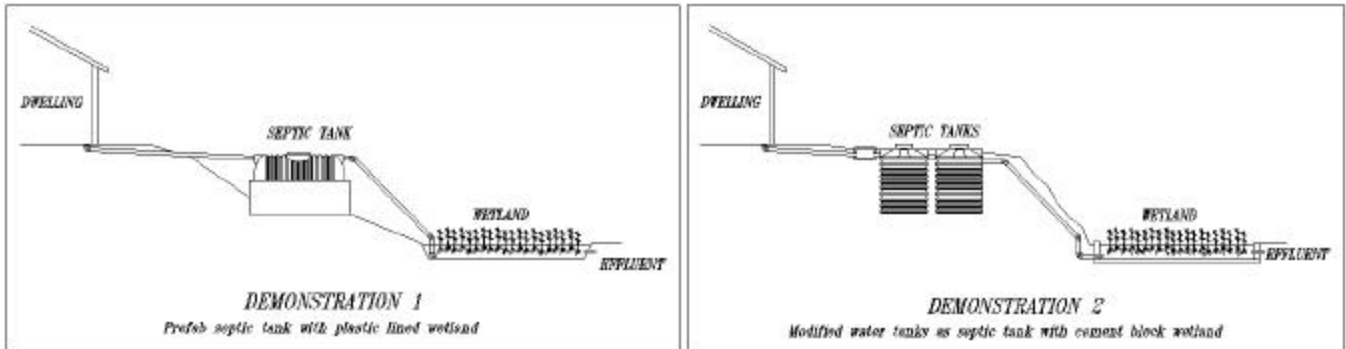
<p>4.3.1 <i>Water and Sanitation Task Force</i>          4.3.2 <i>Water &amp; Wastewater interventions</i>          4.3.3 <i>Solid Waste interventions</i>          4.3.4 <i>Water Quality Monitoring</i></p>
---

#### 4.3.1 Water and Sanitation Task Force

ACTIVITY NUMBER	ACTIVITY NAME	R2RW LEADER(S)	PARTICIPANTS	PARTNER ORGANIZATIONS
4.3.1.1	Establish the task force as a dynamic, cohesive task force.	JE	MN, ST, LD	RGWMC
4.3.1.2	Identify priority interventions	JE	MN, ST, HG	NWC, WRA, PHD
4.3.1.3	Define roles and responsibilities in MOUs	JE	HG, MN	RGWMC

#### 4.3.2 Water & Wastewater Interventions

ACTIVITY NUMBER	ACTIVITY NAME	R2RW LEADER(S)	PARTICIPANTS	PARTNER ORGANIZATIONS
4.3.2.1	With USAID approval, implement water harvesting and sanitation project in Bellevue	JE	MN, ST	PHD, Peace Corps
4.3.2.2	With USAID approval, implement sanitation project in Millbank	JE	MN, ST	PTA
4.3.2.3	Design, develop and implement other water supply projects	JE	MN, ST	TA



**Schematic designs for constructed wetlands wastewater disposal systems**

### 4.3.3 Solid Waste Interventions

ACTIVITY NUMBER	ACTIVITY NAME	R2RW LEADER(S)	PARTICIPANTS	PARTNER ORGANIZATIONS
4.3.3.1	Collaborate with CWIP on complimentary project in Port Antonio	JE	TE, ST, MN	CWIP
4.3.3.2	With NSWMA design solutions for garbage collection in the upper RGW	JE	MN, LD, HG	NSWMA

### 4.3.4 Water Quality Monitoring

ACTIVITY NUMBER	ACTIVITY NAME	R2RW LEADER(S)	PARTICIPANTS	PARTNER ORGANIZATIONS
4.3.4.1	Review CWIP experience with water quality monitoring in Portland	JE	MN, HG	CWIP, UWI, CASE
4.3.4.2	Develop SOW for water quality monitoring program for the Rio Grande	JE	MN, TE, HG	NEPA, TA
4.3.4.3	Sign contract to implement Water Quality Monitoring Program	JE	MN, HG	TA
4.3.4.4	Sampling, analysis and reporting of water quality data	JE	HG, ST, TE	TA

## 4.4 Public Awareness Activities in the RGW

This Activity area is broken out into the following activities:

<p>4.4.1 Public Awareness Working Group            4.4.2 Training for Public Awareness Task Force            4.4.3 Public Awareness Initiatives</p>
---

### 4.4.1 Public Awareness Working Group

ACTIVITY NUMBER	ACTIVITY NAME	R2RW LEADER(S)	PARTICIPANTS	PARTNER ORGANIZATIONS
4.4.1.1	Participate in local fairs and Exhibits	LD	MP, JS, JE	PubEd
4.4.1.2	Training for Public Awareness Working Group			
	▪ Training in community facilitation	MP, LD	TS, HG	PubEd, TA
	▪ Training in writing effective news releases	MP	LD	PubEd, TA
	▪ Training in video production	MP	LD	PubEd, TA
4.4.1.2	▪ Training in the application of media in lobbying and advocacy	MP	LD, TS	PubEd, TA
	4.4.1.3	Design activities emerging from the KAP workshop	MP	LD, HG, JS
4.4.1.4	Distribute water and sanitation materials to support community activities	MP, JE	LD	PubEd

#### 4.5 Gender Considerations in the Rio Grande Watershed

This activity area is broken out into the following activities

4.5.1	Conduct “gender & the environment” training with RGWMC
4.5.2	Incorporate gender checklist into review of grant applications
4.5.3	Provide annual gender report of project activities and accomplishments
4.5.4	Support additional training to enhance awareness of gender principles

ACTIVITY NUMBER	ACTIVITY NAME	R2RW LEADER(S)	PARTICIPANTS	PARTNER ORGANIZATIONS
4.5.1	Conduct “gender and the environment” training with RGWMC	MP	ST, MN	RGWMC
4.5.2	Incorporate gender checklist into review of grant applications	MP	LD, HG	RGWMC
4.5.3	Provide annual gender report of project activities and accomplishments	MP	LD	RGWMC
4.5.4	Support additional training to enhance awareness of gender principles	MP	HG, LD	TA
4.5.5	Provide annual gender report of Project activities	MP,	HG, LD	SDC

#### Activity Benchmarks

A summary of proposed benchmarks applicable to the Third year of this Component is presented below. Flexibility in project implementation must be exercised to maximize opportunities and to confront constraints.

<p><b>Year Three</b></p> <ul style="list-style-type: none"> <li>▪ <i>Watershed monitoring protocols (including water quality) established and implemented.</i></li> <li>▪ <i>2 workshops held to develop secretarial skills of key members of RGWMC and task forces.</i></li> <li>▪ <i>Rio Grande Watershed Management Plan and Strategy developed.</i></li> <li>▪ <i>3 projects related to land and conservation implemented.</i></li> <li>▪ <i>3 water harvesting and sanitation projects completed.</i></li> <li>▪ <i>3 public awareness training sessions completed.</i></li> <li>▪ <i>1 gender and the environment workshop conducted.</i></li> </ul>
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ID	Task Name	2003											
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
190	<b>4 Sustainable Environmental Practices in the Rio Grande Watershed</b>												
191	<b>4.1 The Rio Grande Watershed Management Committee</b>												
192	4.1.1 Development of the Rio Grande Watershed Management Committee												
193	4.1.1.1 Development or role, mandate and programs of the RGWMC												
194	4.1.1.2 Establish Task Forces for the RGWMC												
195	4.1.1.2.1 Public Awareness Task Force												
208	4.1.1.2.2 Portland Compliance and Enforcement Task Force												
221	4.1.1.2.3 Water and Sanitation Task Force												
234	4.1.1.2.4 Land and Conservation Task Force												
246	4.1.1.3 Host seminar of the RGWMC to develop consensus and buy-in to Programs												
247	4.1.1.4 MOUs - RGWMC, State Agencies and Communities												
252	4.1.1.5 Monitor MOU with the Portland PDC												
257	4.1.1.6 Develop RG Watershed Management Plan and Strategy												
258	4.1.1.6.1 Define contents of Plan												
259	4.1.1.6.2 TA to develop Plan												
260	4.1.1.6.3 Present plan at facilitated seminar												
261	4.1.1.6.4 Incorporate feedback and Publish Plan												
262	4.1.1.7 Establish and implement watershed health monitoring protocols												
263	4.1.1.7.1 Review documentation on watershed health protocols												
264	4.1.1.4.2 Prepare protocols for monitoring programs												
265	4.1.2 Management Activities of the RGWMC												
266	4.1.2.1 Administer funds for travel reimbursement and communications												
279	4.1.2.3 Develop local secretariat skills and services												
284	4.1.2.3 Prioritize issues for "Special Studies"												
285	4.1.3 Registration of the RGWMC												
286	4.1.3.1 Submit application for WMC certification to the NIWMC												
287	4.1.3.2 Examine the options for RGWMC incorporation and registration												
288	4.1.3.3 Complete legal registration												
289	4.1.4 RGWMC managed Program Initiatives												
290	4.1.4.1 Implement the Community Stewardship Initiative												
291	4.1.4.2 Stewardship training initiatives												
292	4.1.4.2 Basic Project financing												
293	4.1.4.2 Stewardship												
294	4.1.4.2 Basic Project Management												

R2RW Third Annual Work Plan	Task		Summary		Rolled Up Milestone	
	Milestone		Rolled Up Task			





ID	Task Name	2003											
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
337	<b>4.4 Public Awareness Activities in the RGW</b>												
338	4.4.1 Public Awareness Working Group												
339	4.4.1.2 Participate in local fairs and Exhibits				◇			◇				◇	
340	4.4.1.2.1 Training in community facilitation				◇								
341	4.4.1.2.2 Training in writing effective news releases							◇					
342	4.4.1.2.3 Training in video production											◇	
343	4.4.1.2.4 Training in the application of media in lobbying and advocacy	▶											
344	4.4.1.3 Design activities emerging from the KAP workshop												
345	4.4.1.4 Distribute water and sanitation materials to support community activities	▶											
346	<b>4.5 Gender Considerations in the Rio Grande Watershed</b>												
347	4.5.1 Conduct "gender & the environment" training with RGWMC	▶											
348	4.5.2 Incorporate gender checklist into review of grant applications		◆										
349	4.5.3 Provide annual gender report of project activities and accomplishments												◆
350	4.5.4 Support additional training to enhance awareness of gender principles						◆						
351	4.5.5 Provide annual gender report of Project activities												◆

R2RW Third Annual Work Plan	Task		Summary		Rolled Up Milestone	◇	◇
	Milestone	◆	Rolled Up Task	◇			

## 5. COMPONENT 2: COMPLIANCE AND ENFORCEMENT

Component 2 sets out to address **incentives for and obstacles to enforcement of targeted environmental regulations identified and solutions supported**. The national situation impacting on R2RW implementation of Component 2 activities of the Project includes:

- The existence of a multiplicity of environmental laws;
- Fragmentation of services, with numerous persons involved in enforcement;
- Existing laws are not easily available;
- A general feeling that compliance and enforcement is ineffective;
- Most of the enforcement actions undertaken were done under the Litter and the Mines and Quarries Acts;
- Much regulatory authority rests with the Parish Councils – but some 39 centralized state agencies tend to disregard them;
- Most Jamaicans do not consider themselves to be watershed residents, but as residents of specific communities; and
- There is a disproportionate blame on communities for breaches of environmental regulations.

The activities envisioned under this component are as follows:

### SO Linkages

Component 2 contributes to USAID's SO2 by reporting on indicators established for the following Intermediate Results:

IR 1.2	Increased economic incentives for environmentally sound practices
IR 2	Adoption of policies for improved Environmental Management
IR 2.1	Effective promulgation and enforcement of environmental regulations
IR 2.2.1	Increased capacity of key GOJ agencies

### Year 3 Activities

The Component 2 activities for Year 3 are divided into three major categories, namely:

- Compliance and Enforcement – Nationally
- Compliance and Enforcement in the Great River Watershed (GRW)
- C&E in Portland, with emphasis on the Rio Grande Watershed (RGW)

#### 5.1 Compliance and Enforcement - Nationally

Many compliance and enforcement activities operate on national level issues. Activities and issues for the coming year include:

- 5.1 Compliance and Enforcement - Nationally  
 5.2 Compliance and Enforcement in the Great River Watershed (GRW)  
 5.3 C&E in Portland, with emphasis on the Rio Grande Watershed (RGW)

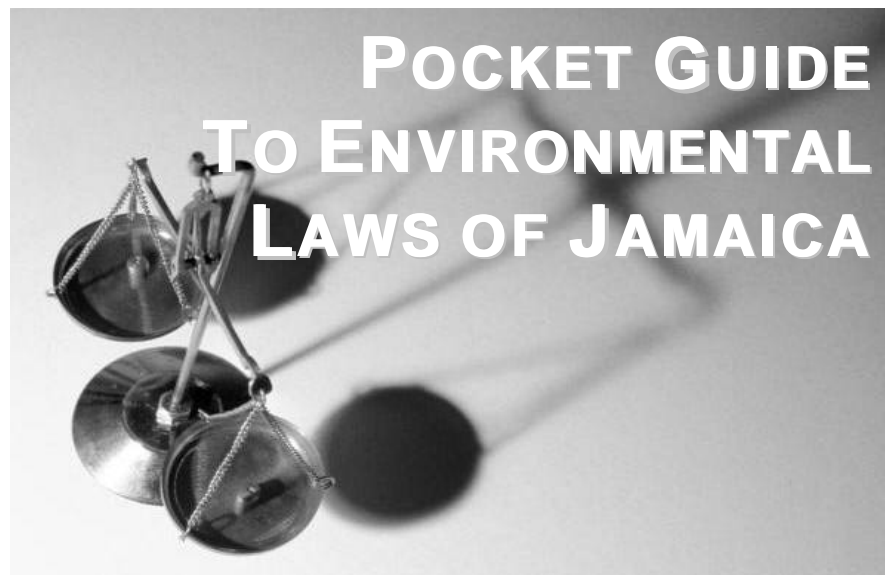
**5.1.1 Support National Initiatives to Improve C&E**

New legal instruments that impact on environment management have been developed by several Central Government Agencies - NEPA, Forestry Department, National Solid Waste Management Authority, and Ministry of Local Government - and are being written into new laws such as the Forest Act, the Draft Watershed Policy, and the Biological Diversity Strategy. All these changes and Acts must be understood by Enforcement Officers in order to have an effective enforcement system. There is also the need to undertake sensitizing of Judges, Justices of the Peace (JPs), and other court personnel, on the recent developments in this area. Environmental Wardens and other enforcement personnel need specialized training on environmental issues in order to better prepare cases for the courts.

This component of R2RW will continue the work started in Year 2 with ENACT, and the Legal and Compliance and Regional Services Divisions of NEPA to:

1. Undertake sensitization program for judges and other court personnel
  - Undertake Meeting with Chief Justice
  - Implement sensitization initiatives
2. Complete Training of Trainers Activity with NEPA
3. Complete the preparation and distribution of the pocket-size field-guide
4. Develop and implement training courses in C&E

ACTIVITY NUMBER	ACTIVITY NAME	R2RW LEADER(S)	PARTICIPANTS	PARTNER ORGANIZATIONS
5.1.1.1	Sensitization program for judges and other court personnel	TS	MN	NEPA Legal
	▪ Meeting with Chief Justice	TS	HG, MN,	NEPA Legal
	▪ Implement Sensitization Initiatives	TS	TE, MN, HG	NEPA Legal
5.1.1.2	Complete Training of Trainers Activity with NEPA	TS	TE, LD, MN, HG	NEPA CRS, NEPA Legal
5.1.1.3	Complete the preparation and distribution of the pocket-size field-guide	TS	MN	NEPA CRS, NEPA Legal, ENACT, TA
5.1.1.4	Refine and implement training programs in C&E	TS	HG, MN	NEPA CRS, NEPA Legal



*Field Guide developed to support the enforcement of environmental legislation*

### **5.1.2 Enhanced Policy and Legislation for Watershed Management**

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. The activities for this year will include:

<b>ACTIVITY NUMBER</b>	<b>ACTIVITY NAME</b>	<b>R2RW LEADER(S)</b>	<b>PARTICIPANTS</b>	<b>PARTNER ORGANIZATIONS</b>
5.1.2.1	Finalize review of Watershed Policy, and Watershed Program	TS	TE, MN, HG	SWB, NEPA Legal, TA
5.1.2.2	Undertake Workshop with stakeholders to present findings and build consensus on way forward	TS	HG, MN, TE	SWB, NEPA Legal, TA
5.1.2.3	Support NEPA in resubmission of Green Paper	TS	HG, MN, TE	NEPA Legal
5.1.2.4	Complete review of LWMCs, and put forward recommendations for implementation	TS	TE, MN, HG	TA, SWB, NIWMC
5.1.2.5	Commence activities to review Watershed Protection Act	TS	HG, MN, TE	TA, NEPA Legal

### **5.1.3 Private Sector Incentives in Watershed Management**

A two-person team has been contracted to “review past and present incentives for improved environmental management of watersheds in Jamaica”. The following activities will be undertaken:

ACTIVITY NUMBER	ACTIVITY NAME	R2RW LEADER(S)	PARTICIPANTS	PARTNER ORGANIZATIONS
5.1.3.1	Finalize review on private sector incentives for WM	TS	MN	NEPA, FD, TA
	▪ Private sector incentives study Presentation – National	TS	MN, HG	NEPA, FD, TA
	▪ Private sector incentives study Presentation - Montego Bay	TS	MN, HG	GRWMC, TA
	▪ Private sector incentives study Presentation - Port Antonio	TS	MN, HG	RGWMC, FD, TA
	▪ Final Report (with feedback)	TS	MN, HG	NEPA, FD, TA
5.1.3.2	Undertake National Workshop to disseminate findings	TS	TEAM, TE	SWB, NEPA, FD, NIWMC
5.1.3.3	Support the implementation of incentives for Watershed Management	TS, MN	HG, JS, TE	NEPA, FD, RADA, NIWMC

#### 5.1.4 Enhanced Public Awareness of Compliance and Enforcement

There is an urgent need to inform the general public of the basic information they need to know about their environmental rights, obligations and the repercussions of breaking environmental laws. Moreover, this information needs to be presented in such a way so as to encourage a paradigm shift in the minds of the general public – moving away from the view that laws are shackles to an understanding that environmental laws are here to protect their rights. To achieve this goal, a number of public awareness activities will be undertaken. These are:

ACTIVITY NUMBER	ACTIVITY NAME	R2RW LEADER(S)	PARTICIPANTS	PARTNER ORGANIZATIONS
5.1.4.1	Finalize “Popular Materials for Compliance & Enforcement” and launch	MP, TS	MN, LD, HG	PubEd, TA, NEPA
5.1.4.2	Media campaign to promote posters and jingle	MP	TS, LD	PubEd, TA
5.1.4.3	Air jingle over regular radio	MP	MN, LD	PubEd, TA
5.1.4.4	Distribute materials/posters through relevant channels	MP, LD	HG	PubEd

## 5.2 Compliance and Enforcement in the Great River Watershed (GRW)

All of the Task Forces developed by the GRWMC consist of inter-agency members and representatives from communities. As a part of its second year plans, the GRWMC, and its Compliance and Enforcement Task Force have developed and plan to implement the following activities:

- 5.2.1 Support Governance Mechanisms for enhanced C&E in the GRW
- 5.2.2 Training for Organizations involved in C&E in the GRW
- 5.2.3 Implement priority activities of the C&E Task Force of the GRW
- 5.2.4 Implement public awareness activities to enhance C&E in the GRW

### 5.2.1 Support Governance Mechanisms for Enhanced C&E in the GRW

ACTIVITY NUMBER	ACTIVITY NAME	R2RW LEADER(S)	PARTICIPANTS	PARTNER ORGANIZATIONS
5.2.1.1	Technical, training and secretarial support to the C&E Task Force	TS, LD	GC	GRWMC
5.2.1.2	Support NEPA and SDC to enhance governance mechanisms in C&E	TS	MN, MP	GRWMC, SDC
5.2.1.3	Review the declaration of the GRW area as a Development area	TS	TE, MN	GRWMC, NEPA, SDC

### 5.2.2 Capacity Development for Organizations Involved in C&E in the GRW

ACTIVITY NUMBER	ACTIVITY NAME	R2RW LEADER(S)	PARTICIPANTS	PARTNER ORGANIZATIONS
5.2.2.1	Establish database and coordination plan for C&E in the GRW	TS	MN	TA
5.2.2.2	Provide support to prioritized critical list of equipment	TS	MN, GC	GRWMC
5.2.2.3	Training programs for C&E Officers in the GRW	TS	MN	NEPA CRS, TA
5.2.2.4	Training programs for Community Groups in C&E Issues	TS	LD, MP	GRWMC, TA

### 5.2.3 Implement Priority Activities of the C&E Task Force of the GRW

ACTIVITY NUMBER	ACTIVITY NAME	R2RW LEADER(S)	PARTICIPANTS	PARTNER ORGANIZATIONS
5.2.3.1	Develop and implement strategy to improve C&E in solid waste management	TS	JE	GRWMC, NEPA CRS
5.2.3.2	Develop and implement strategy to mitigate deforestation	TS	HG, MN, JS	GRWMC, FD
5.2.3.3	Implement Community's compliance and enforcement activities	TS	MP, HG, LD, TE,	GRWMC, PubEd
5.2.3.4	Implement priority incentives for Private Sector investment in WM	TS	HG, MN, TE	GRWMC, FD
5.2.3.5	Work with CBOs to develop and implement projects using R2RW grants	TS	MN, BT	GRWMC
5.2.3.6	Identify and design special studies on C&E Issues in the GRW	TS	MN, HG	GRWMC

### 5.2.4 Develop and Implement Lobbying and Advocacy in the GRW

ACTIVITY NUMBER	ACTIVITY NAME	R2RW LEADER(S)	PARTICIPANTS	PARTNER ORGANIZATIONS
5.2.4.1	Disseminate popular materials for C&E	TS, MP	LD	PubEd, NEPA
5.2.4.2	Encourage community level stewardship programs e.g. Junior Rangers	TS	HG, LD, MP	PubEd, NEPA CRS

ACTIVITY NUMBER	ACTIVITY NAME	R2RW LEADER(S)	PARTICIPANTS	PARTNER ORGANIZATIONS
5.2.4.3	Develop and implement lobbying and advocacy activities	TS, MP	HG, LD, JE	PubEd, NEPA

### 5.3 C&E in Portland, with emphasis on the Rio Grande Watershed (RGW)

The ENACT and R2RW Projects are working in Portland to address issues relating to compliance and enforcement. An Inter-Agency Working Group had been actively working in this area. To accommodate the intervention of R2RW Project and its integration of communities input, an agreement was arrived at to convert the Portland Inter-Agency Working Group into the Portland Compliance and Enforcement Task Force (PC&ETF). The Portland Parish Council, the Compliance and Regional Services Division of NEPA with support from R2RW and ENACT are all expected to be active in this Task Force. Discussions need to take place with the Portland PDC to determine where this Task Force plugs into the PDC. The Task Force will also report to the Rio Grande Watershed Management Committee (RGWMC). The major activities of this Task Force for Year 3 will be:

5.3.1	Support Governance Mechanisms for enhanced C&E in Portland & RGW.
5.3.2	Training for Organizations and Groups involve in C&E in Portland.
5.3.3	Implement priority activities of the Portland C&E Task Force.
5.3.4	Develop and Implement Lobbying and Advocacy in the GRW.

#### 5.3.1 Support Governance Mechanisms for Enhanced C&E in Portland & RGW

ACTIVITY NUMBER	ACTIVITY NAME	R2RW LEADER(S)	PARTICIPANTS	PARTNER ORGANIZATIONS
5.3.1.1	Complete the establishment of the Portland C&E Task Force	TS	MN, LD	RGWMC
5.3.1.2	Technical, training and secretarial support to the C&E Task Force in the RGW	TS	LD, MN	TA

#### 5.3.2 Capacity Development for Organizations and Groups Involved in C&E in Portland

ACTIVITY NUMBER	ACTIVITY NAME	R2RW LEADER(S)	PARTICIPANTS	PARTNER ORGANIZATIONS
5.3.2.1	Establish database and coordination plan for C&E in Portland	TS	MN	TA
5.3.2.2	Provide support to prioritized critical list of equipment	TS	MN, GC	RGWMC
5.3.2.3	Implement training programs for C&E Officers in Portland	TS	MN	NEPA CRS, TA
5.3.2.4	Implement training of Community Groups in C&E Issues	TS	LD, MP	RGWMC





*Sand Mining – an important compliance and enforcement issue in the Rio Grande Watershed*

**5.3.3 Implement Priority Activities of the Portland C&E Task Force**

ACTIVITY NUMBER	ACTIVITY NAME	R2RW LEADER(S)	PARTICIPANTS	PARTNER ORGANIZATIONS
5.3.3.1	Develop and implement process for monitoring of NR extraction	TS	HG, LD, TE, ST	NEPA CRS, RGWMC
5.3.3.2	Develop and implement strategy to mitigate deforestation	TS	HG, LD, TE, JS MN	TA, FD, RGWMC
5.3.3.3	Develop and implement strategies to decrease soil erosion	TS, HG	JS	RADA
5.3.3.4	Develop and implement strategies to eliminate poisoning of rivers	TS, JE	HG, JS, JE, ST	NEPA CRS, RGWMC
5.3.3.5	Develop and implement strategy to improve C&E in solid waste mgmt.	TS, JE	HG, MP	NSWMA
5.3.3.6	Implement priority incentives to support Private Sector investment in WM	TS	HG, JS, MN, TE	RGWMC
5.3.3.7	Identify and design special studies on C&E issues	TS	MN, HG	TA, RGWMC

**5.3.4 Develop and Implement Lobbying and Advocacy in the RGW**

ACTIVITY NUMBER	ACTIVITY NAME	R2RW LEADER(S)	PARTICIPANTS	PARTNER ORGANIZATIONS
5.3.4.1	Disseminate popular materials for C&E	MP	TS, LD	PubEd, RGWMC

ACTIVITY NUMBER	ACTIVITY NAME	R2RW LEADER(S)	PARTICIPANTS	PARTNER ORGANIZATIONS
5.3.4.2	Encourage community level stewardship programs e.g. Junior Rangers	TS	HG, LD, MP, ST	NEPA CRS
5.3.4.3	Develop and implement lobbying and advocacy activities	JE, MP	HG, LD, TS	PHD, NSWMA

**Activity Benchmarks**

A summary of benchmarks established for the Third year of this Component is presented below.

<p><b>Year Three</b></p> <ul style="list-style-type: none"> <li>▪ Activities to sensitize judges and other court personnel developed and being implemented.</li> <li>▪ Training of Trainers activity completed, and watershed-level training being undertaken.</li> <li>▪ Pocketsize field-guide finalized, distributed and in active usage.</li> <li>▪ Green Paper on Watershed Policy reviewed, and resubmitted</li> <li>▪ Popular materials to inform the public on environmental policies, rules and regulations designed and being disseminated.</li> <li>▪ Compliance and Enforcement activities implemented by WMCs and Task Forces in both the GR and RG Watersheds.</li> </ul>
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ID	Task Name	2003											
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
352	<b>5 Enhancing Compliance and Enforcement</b>												
353	<b>5.1 Compliance and Enforcement - Nationally</b>												
354	5.1.1 Support National Initiatives to Improve C&E												
355	5.1.1.1 Sensitization program for judges and other court personnel												
356	5.1.1.1.1 Meeting with Chief Justice												
357	5.1.1.1.2 Implement Sensitization Initiatives												
358	5.1.1.2 Complete Training of Trainers Activity with NEPA												
359	5.1.1.3 Complete the preparation and distribution of the pocket-size field-guide												
360	5.1.1.4 Refining and implement training programs in C&E												
361	5.1.2 Enhanced Policy and Legislation for Watershed Management												
362	5.1.2.1 Finalize review of Watershed Policy, and Watershed Program												
363	5.1.2.2 Undertake Workshop to complete process												
364	5.1.2.3 Support NEPA in resubmission of Green Paper												
365	5.1.2.4 Complete review of LWMCs, and implement recommendations												
366	5.1.2.5 Commence activities to review Watershed Protection Act												
367	5.1.3 Private sector incentives in Watershed Management												
368	5.1.3.1 Finalize review on private sector incentives for WM												
369	5.1.3.1 Private sector incentives study Presentation - National												
370	5.1.3.1 Private sector incentives study Presentation - Montego Bay												
371	5.1.3.1 Private sector incentives study Presentation - Port Antonio												
372	5.1.3.1 Final Report (with feedback)												
373	5.1.3.2 Undertake National Workshop to disseminate findings												
374	5.1.3.3 Support the implementation of incentives for Watershed Management												
375	5.1.4 Enhanced Public Awareness of Compliance and Enforcement												
376	5.1.4.1 Finalize "Popular Materials for Compliance & Enforcement" and launch												
377	5.1.4.2 Media campaign to promote posters and jingle												
378	5.1.4.3 Air jingle over regular radio												
379	5.1.4.4 Distribute materials/posters through relevant channels.												
380	<b>5.2 Compliance and Enforcement in the Great River Watershed (GRW)</b>												
381	5.2.1 Support Governance Mechanisms for enhanced C&E in the GRW												
382	5.2.1.1 Technical, training and secretarial support to the C&E Task Force												
387	5.2.1.2 Support NEPA and SDC to enhance governance mechanisms in C&E												
388	5.2.1.3 Review the declaration of the GRW area as a Development area												
389	5.2.2 Capacity development for organizations involved in C&E in the GRW												

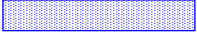





R2RW Third Annual Work Plan	Task		Summary		Rolled Up Milestone		
	Milestone		Rolled Up Task				

ID	Task Name	2003												
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
390	5.2.2.1 Establish database and coordination plan for C&E in the GRW	■												
391	5.2.2.2 Provide support to prioritized critical list of equipment				■									
392	5.2.2.3 Training programs for C&E Officers in the GRW				◆				◆			◆		
396	5.2.2.4 Training programs for Community Groups in C&E Issues					◆			◆			◆		
400	5.2.3 Implement priority activities of the C&E Task Force of the GRW	■												
401	5.2.3.1 Develop and implement strategy to improve C&E in solid waste mgmt.				■									
402	5.2.3.2 Develop and implement strategy to mitigate deforestation						■							
403	5.2.3.3 Implement Communities compliance and enforcement activities							■						
404	5.2.3.4 Implement priority incentives for Private Sector investment in WM	■												
405	5.2.3.5 Work with CBOs to develop and implement projects using R2R grants	■												
406	5.2.3.6 Identify and design special studies on C&E Issues in the GRW					◆						◆		
409	5.2.4 Develop and Implement lobbying and advocacy in the GRW				■									
410	5.2.4.1 Disseminate popular materials for C&E			■										
411	5.2.4.2 Encourage community level stewardship programs e.g. Junior Rangers					■								
412	5.2.4.3 Develop and implement lobbying and advocacy activities							■						
413	<b>5.3 C&amp;E in Portland, with emphasis on the Rio Grande Watershed (RGW)</b>	■												
414	5.3.1 Support Governance Mechanisms for enhanced C&E in Portland & RGW	■												
415	5.3.1.1 Complete the establishment of the Portland C&E Task Force	■												
416	5.3.1.2 Technical, training and secretarial support to the C&E Task Force in the RGW		◆			◆			◆			◆		
421	5.3.2 Capacity development for organizations and Groups involve in C&E in Portland				■									
422	5.3.2.1 Establish database and coordination plan for C&E in Portland				■									
423	5.3.2.2 Provide support to prioritized critical list of equipment						■							
424	5.3.2.3 Implement training programs for C&E Officers in Portland					◆			◆			◆		
428	5.3.2.4 Implement training of Community Groups in C&E Issues					◆			◆			◆		
432	5.3.3 Implement priority activities of the Portland C&E Task Force	■												
433	5.3.3.1 Develop and implement process for monitoring of NR Extraction	■												
434	5.3.3.2 Develop and implement strategy to mitigate deforestation				■									
435	5.3.3.3 Develop and implement strategies to decrease soil erosion						■							
436	5.3.3.4 Develop and implement strategies to eliminate poisoning of rivers							■						
437	5.3.3.5 Develop and implement strategy to improve C&E in solid waste mgmt.									■				
438	5.3.3.6 Implement priority incentives to support Private Sector investment in WM				■									
439	5.3.3.7 Identify and design special studies on C&E issues			■										
440	5.3.4 Develop and implement lobbying and advocacy in the RGW	■												
441	5.3.4.1 Disseminate popular materials for C&E				■									

R2RW Third Annual Work Plan	Task	■	Summary	▾	Rolled Up Milestone	◆	◆
	Milestone	◆	Rolled Up Task	◆			

ID	Task Name	2003											
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
442	5.3.4.2 Encourage community level stewardship programs e.g. Junior Rangers												
443	5.3.4.3 Develop and implement lobbying and advocacy activities												



R2RW Third Annual Work Plan	Task		Summary		Rolled Up Milestone		
	Milestone		Rolled Up Task				

## 6. COMPONENT 3: INSTITUTIONAL STRENGTHENING

The threats to Jamaica's natural resources, particularly in the watersheds, cannot be overcome by direct efforts of 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 can 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.

### Development Hypothesis

The hypothesis, which supports the inclusion of this component in R2RW, can be stated as:

*Enhanced organizational capacity and increased information dissemination and coordination will lead to improved sustainable watershed management practices.*

During Year 2, considerable progress was made on establishing mechanisms for institutional coordination. R2RW believes that this hypothesis is still important for Year 3 and is fully prepared to assist NEPA in its execution.

### SO2 Linkages

Component 3 will contribute to USAID's SO2 by reporting on indicators established for the following intermediate results.

IR 1	Increased adoption of environmentally sound practices
IR 1.1	Increased effectiveness of environmental NGOs
IR 2.2.1	Increased capacity of key GOJ agencies

During Year Two, considerable progress was made on equipping and training of SWB, supporting the development of the NIWMC, and national public awareness activities such as publishing a quarterly newsletter, and issuing regular press releases. Following on to these initiatives, this component of the Work Plan is broken out into four Activity Areas:

### Year 3 Activities

6.1	<i>Building the Capacity of the SWB/NEPA and other Agencies in WM</i>
6.2	<i>Enhancing Coordination for Watershed Management</i>
6.3	<i>Strengthening National Public Awareness Activities</i>
6.4	<i>Gender Activities at the National Level</i>

## 6.1 Building the Capacity of the SWB/NEPA and other Agencies in WM

- 6.1.1 *Strengthening the SWB/NEPA*
- 6.1.2 *Tools for Sustainable Watershed Management*
- 6.1.3 *Training of SWB and other key WM Staff*
- 6.1.4 *Networking and Professional Development*

In the transformation of the NRCA to NEPA, the old Watershed Protection and Management Branch was renamed the Sustainable Watersheds Branch. The aims and objectives of the SWB are to:

- Ensure retention of rainfall in watersheds to replenish water resources for domestic, irrigation, industrial and other social and economic needs
- Achieve a pattern of land use that is balanced and environmentally sound
- Reduce the destructive effects of rain due to soil erosion, tree cutting and other loss of vegetation
- Integrate watershed management through participation in the National Integrated Watershed Management Council
- To promote public awareness of watersheds and watershed related issues.

The SWB is involved in the review of development applications and participates in both internal and technical review committees; conducts monitoring of environmental conditions in the watersheds including post-permit monitoring; collects and analyzes information on physical parameters of watersheds such as soils, rivers and land use; and participates in limited public education activities.

### 6.1.1 Strengthening the SWB/NEPA

ACTIVITY NUMBER	ACTIVITY NAME	R2RW LEADER(S)	PARTICIPANTS	PARTNER ORGANIZATIONS
6.1.1.1	Facilitate Team Building and Strategic Planning exercise with SWB	MN, TS	HG, LD, JS, TE	SWB
6.1.1.2	Develop environmental monitoring protocols to monitor watershed health	HG	JS, JE, TE	SWB, TA
6.1.1.3	Public Ed. Field Kits developed, produced and field tested	MP	MP, HG, LD	PubEd, SWB
	▪ Finalize design of new materials	MP	LD, HG, JS	PubEd, SWB
	▪ Produce materials with Carrying Kits	MP	GC, LD	Printer, PubEd
	▪ Launch and distribute Kits	MP	MP, LD, HG, MN, TE	PubEd, SWB
6.1.1.4	SWB Staff Retreat Days	MN	TEAM	SWB



*Staff of the Sustainable Watersheds Branch*

### **6.1.2 Tools for Sustainable Watershed Management (HG)**

<b>ACTIVITY NUMBER</b>	<b>ACTIVITY NAME</b>	<b>R2RW LEADER(S)</b>	<b>PARTICIPANTS</b>	<b>PARTNER ORGANIZATIONS</b>
6.1.2.1	Finalize specifications for remaining equipment needs	MN	TE, GC	SWB
6.1.2.2	Procure Equipment	MN	GC, TE	ARD
6.1.2.3	Train staff in equipment use	HG	TE	SWB, NEPA branches
6.1.2.4	Upgrading of the SWB Watershed Database	HG	NH, LD	SWB
	▪ Improved physical data	HG	TE	SWB
	▪ Audience Assessment Survey data	HG	MP, TE	TA, SWB
	▪ Watershed Project database	LD	TE, HG	SWB, NIWMC

### **6.1.3 Training of SWB and Other Key WM Staff**

<b>ACTIVITY NUMBER</b>	<b>ACTIVITY NAME</b>	<b>R2RW LEADER(S)</b>	<b>PARTICIPANTS</b>	<b>PARTNER ORGANIZATIONS</b>
6.1.3.1	Site Assessments and Investigations	HG	TE	TA, SWB, FD, NEPA CRS
6.1.3.2	Project development for WGOs	MN	TE, MP, LD, GC, BT, ST	TA, FD
6.1.3.3	Establish watershed health monitoring protocols	HG	JS, TE, LD	GRWMC
	▪ Review documentation on watershed health protocols	HG	LD	GRWMC
	▪ Prepare protocols for monitoring programs	HG	MN, TE, LD	GRWMC
6.1.3.4	Monitoring Watershed Health through Rapid Appraisals	HG	TE, LD	TA, FD, SWB
6.1.3.5	Water quality monitoring programs	JE	HG, MN, TE	SWB, NWC



ACTIVITY NUMBER	ACTIVITY NAME	R2RW LEADER(S)	PARTICIPANTS	PARTNER ORGANIZATIONS
6.1.3.6	Public Education Outreach techniques	MP	HG, LD	PubEd, SWB, FD

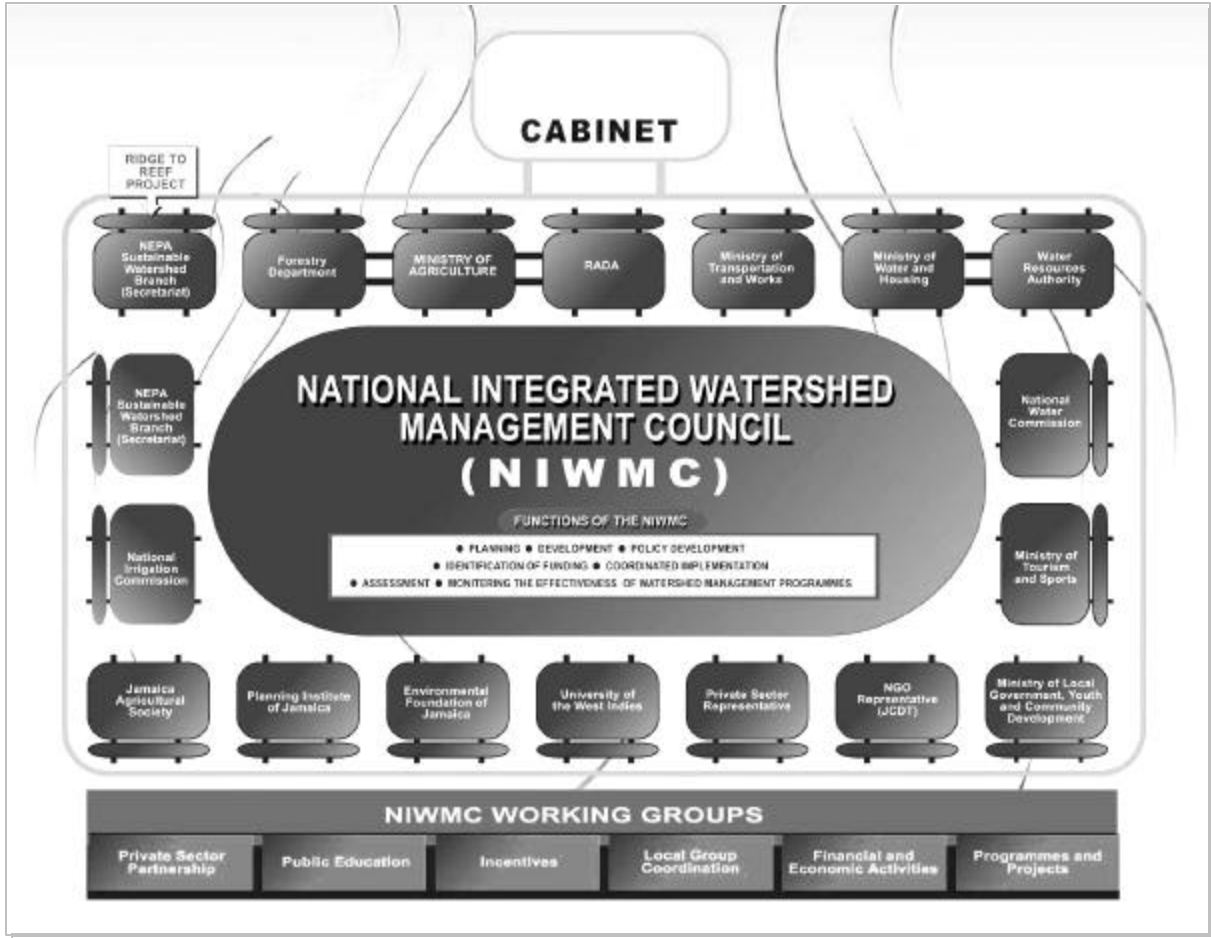
#### 6.1.4 Networking and Professional Development

ACTIVITY NUMBER	ACTIVITY NAME	R2RW LEADER(S)	PARTICIPANTS	PARTNER ORGANIZATIONS
6.1.4.1	Attend Seminars on Watershed Management	MN	GC	ARD
	▪ Attend International Seminar on Watershed Management	MN	GC, TE	SWB, ARD
	▪ Attend Caribbean Water and Wastewater Conference	MN	JE, MP, GC	ARD
	▪ Attend Seminar on Watershed Management 3	MN	GC	ARD
	▪ Attend Seminar on Watershed Management 4	MN	GC	ARD
6.1.4.2	Monthly Lunch Hour Series with presentation by WM professionals	LD	TEAM	SWB
6.1.4.3	R2RW Mid Point Review with NEPA	MN	TEAM, TE, KMG	PPPCD

## 6.2 Enhancing Coordination

The R2RW is poised to play a pivotal role in enhancing coordination among and between GOJ agencies, NGOs and CBOs. Enhancing coordination involves changing the manner in which business is done, and how organizations and citizens interact with each other. In a real sense, enhancing coordination is about enhancing participation and involvement by a diverse group of stakeholders. This involves engaging our partners in impacting the environmental issues faced by Jamaica, and empowering people to take action. Enhancing coordination is also about assuming responsibility for the quality of the programs implemented and the follow-up actions arising out of Watershed Management Committees and their task forces.

- 6.2.1 *National Integrated Watershed Management Council (NIWMC).*
- 6.2.2 *Development of Watershed Management Committees.*
- 6.2.3 *Mainstreaming Technologies.*
- 6.2.4 *Special Studies.*



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

ACTIVITY NUMBER	ACTIVITY NAME	R2RW LEADER(S)	PARTICIPANTS	PARTNER ORGANIZATIONS
6.2.1.1	Support SWB responsibilities to the NIWMC	MN	HG, TE	SWB
6.2.1.2	Develop certification process for LWMCs	LD	MN, TS, MP, TE	SWB, NIWMC
6.2.1.3	Develop consensus on priority interventions	MN	TS, HG, TE, JS	NIWMC
6.2.1.4	Develop reporting mechanisms for NIWMC Reporting to Cabinet	MN	TE, HG	NIWMC, SWB
6.2.1.5	Incorporate GOJ watershed priorities into GOJ corporate plans	MN	TE, HG, TS, JS, JE	NEPA, NIWMC
6.2.1.6	Continue to refine Watershed projects Database	LD	MN, TE	SWB, NIWMC

### 6.2.2 Development of Watershed Management Committees

ACTIVITY NUMBER	ACTIVITY NAME	R2RW LEADER(S)	PARTICIPANTS	PARTNER ORGANIZATIONS
6.2.2.1	Rationalize approach to establishment of WMCs	LD, TS	MN, HG, TE	SWB, NIWMC, TA
6.2.2.2	Publish manual on how to establish WMCs	LD, TS	HG, NH, MN, TE	Printer, SWB
6.2.2.3	Hold seminar on WMCs for SWB, FD and other organizations	LD	TE, MP, MN, HG, TS, JS	SWB, FD
6.2.2.4	Hold First Jamaican WMC networking conference	LD	TEAM, TE	GRWMC, RGWMC, SWB

### 6.2.3 Mainstreaming Technologies

ACTIVITY NUMBER	ACTIVITY NAME	R2RW LEADER(S)	PARTICIPANTS	PARTNER ORGANIZATIONS
6.2.3.1	Incorporate constructed wetland technology into Building Code	JE	LD, HG, TE	TA, NEPA, Masterbuilders
6.2.3.2	Encourage Min of Ed. to use constructed wetland technology	JE	LD, MN, TE	MinEd, PHD, MOH, NEPA
6.2.3.3	Provision of STTA by W&S Task Force Member Agencies to communities	JE	HG, LD, NW	RGWMC, GRWMC
6.2.3.4	Professional development seminar with EHU and Building Inspectors	JE, HG	MP, TE, MN, LD,	TA, Masterbuilders
6.2.3.5	Explore mainstreaming of other promising technologies	JE, JS	HG, MN	

### 6.2.4 Special Studies

ACTIVITY NUMBER	ACTIVITY NAME	R2RW LEADER(S)	PARTICIPANTS	PARTNER ORGANIZATIONS
6.2.4.1	Wide dissemination of Special Studies brochure	MN	MW, LD	
6.2.4.2	Hold Media event to announce availability of funds	MP	MN, LD	TA, PubEd
6.2.4.3	Commission two Special Studies	MN	TEAM	NEPA, UWI

### 6.3 Strengthening National Public Awareness Activities

6.3.1	General Public Awareness Activities
6.3.2	Enhance NEPA Public Awareness Programs
6.3.3	Expositions

### 6.3.1 General Public Awareness Activities

ACTIVITY NUMBER	ACTIVITY NAME	R2RW LEADER(S)	PARTICIPANTS	PARTNER ORGANIZATIONS
6.3.1.1	Produce R2RW Newsletter	MP	LD, NH	Printer
6.3.1.2	Promote and keep current R2RW Website	HG	LD, MN, NH	TA
6.3.1.3	Issue monthly Press Releases on current Project activities	MP	LD	PubEd, TA

### 6.3.2 Enhance NEPA Public Awareness Programs

ACTIVITY NUMBER	ACTIVITY NAME	R2RW LEADER(S)	PARTICIPANTS	PARTNER ORGANIZATIONS
6.3.2.1	Support NEPA follow-up activities from the KAP workshop	MP	LD	PubEd
	<ul style="list-style-type: none"> <li>Explore use of River-maid stories for public awareness</li> </ul>	MP	JS, LD	PubEd, TA
6.3.2.2	Support Public Education Committee of the NIWMC	MP	TE, HG, LD	PubEd
	<ul style="list-style-type: none"> <li>Develop with Working Group priorities from KAP Survey</li> </ul>	MP	TE, JS, HG, LD	PubEd
	<ul style="list-style-type: none"> <li>Develop PA Strategy for NIWMC based on KAP survey</li> </ul>	MP	JS, LD, MN, HG	PubEd, SWB

### 6.3.3 Expositions

ACTIVITY NUMBER	ACTIVITY NAME	R2RW LEADER(S)	PARTICIPANTS	PARTNER ORGANIZATIONS
6.3.3.1	National Wood and Water Day	LD	MP, HG, JS	PubEd, SWB
6.3.3.2	Earth Day	LD	HG, MP, JS	PubEd
6.3.3.3	Environment Week	LD	HG, MP, JS	PubEd
6.3.3.4	Denbigh	LD	HG, MP, JS	PubEd



Community mobilization and strategic action – planning workshop at the Knockalva Agricultural School

### 6.3.4 Supporting Local Stewardship Activities

ACTIVITY NUMBER	ACTIVITY NAME	R2RW LEADER(S)	PARTICIPANTS	PARTNER ORGANIZATIONS
6.3.4.1	Design stewardship training program	MP	TEAM	SWB, PubEd
6.3.4.2	Produce training and educational materials	MP	LD, HG, JS	Printer, PubEd
6.3.4.3	Conduct training of community leaders)	MP, LD	TEAM	SWB, PubEd
6.3.4.4	Distribute Pub Ed kits to community leaders	LD	MW	PubEd
6.3.4.5	Host “Faith and Environment” Symposium	MP	LD	PubEd, SWB, TA

### 6.4 Gender Activities at the National Level

6.4.1	<i>Conduct “gender &amp; the environment” training with NEPA staff.</i>			
6.4.2	<i>Incorporate gender checklist reporting into NEPA reporting mechanisms.</i>			
6.4.3	<i>Revise Grant Fund application to include gender factors.</i>			
6.4.4	<i>Provide annual gender report of project activities and accomplishments.</i>			
6.4.5	<i>Support additional training to enhance gender mainstreaming within NEPA.</i>			
6.4.6	<i>With NEPA, host “Gender and Environment” symposium.</i>			

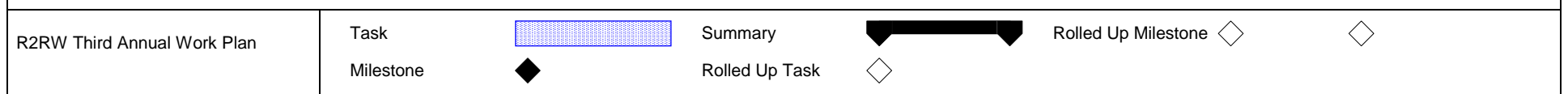
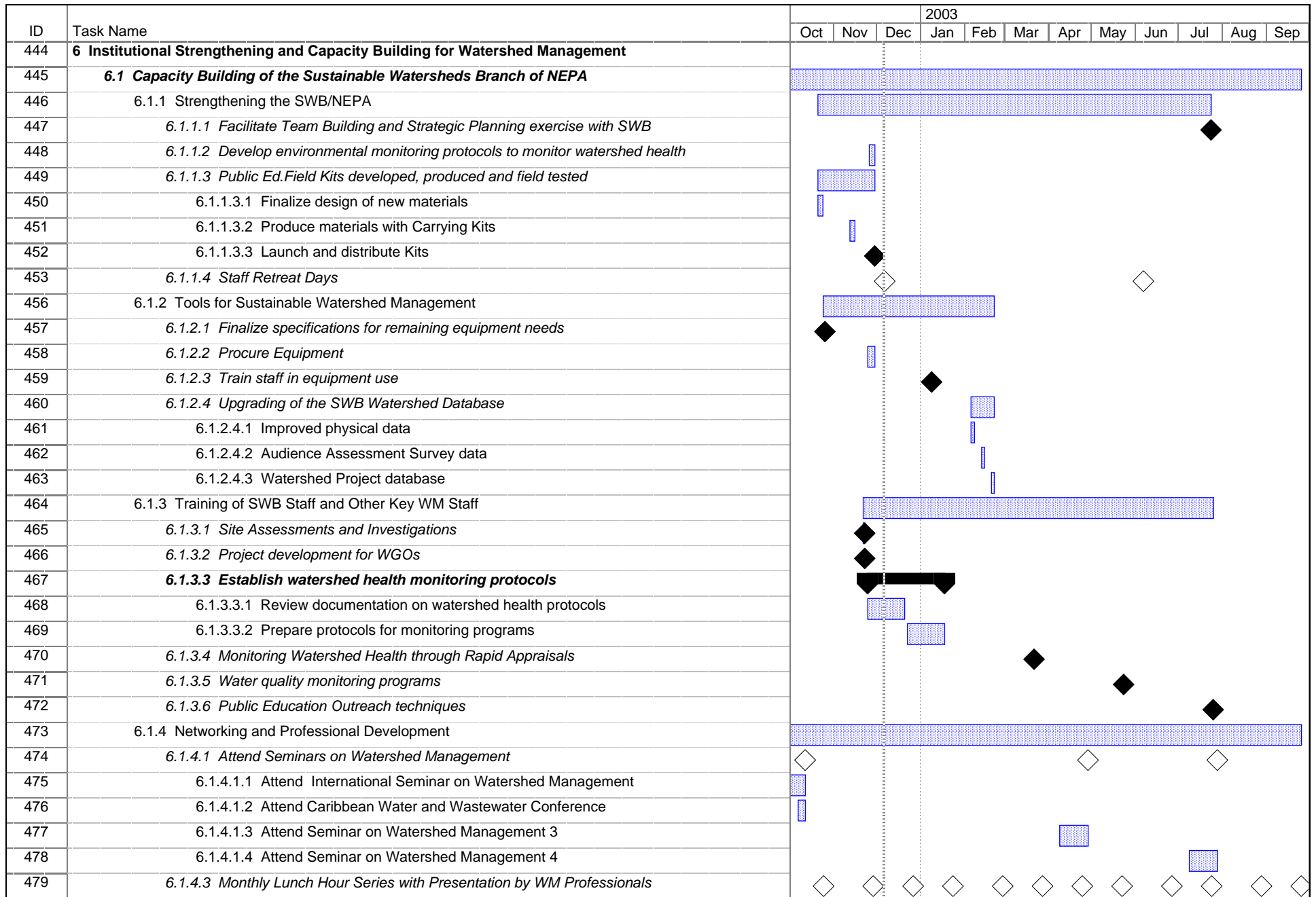
ACTIVITY NUMBER	ACTIVITY NAME	R2RW LEADER(S)	PARTICIPANTS	PARTNER ORGANIZATIONS
6.4.1	Conduct “gender & the environment” training with NEPA staff	MP	LD, HG, TE	SWB, PubEd, TA, PPPCD
6.4.2	Incorporate gender checklist reporting into NEPA reporting mechanisms	MP	LD, HG	PubEd, PPPCD
6.4.3	Revise Grant Fund application to include gender factors	MP	MN, TS	

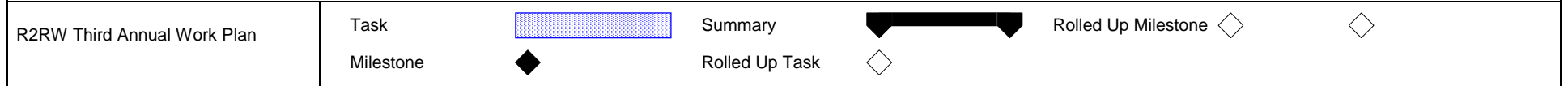
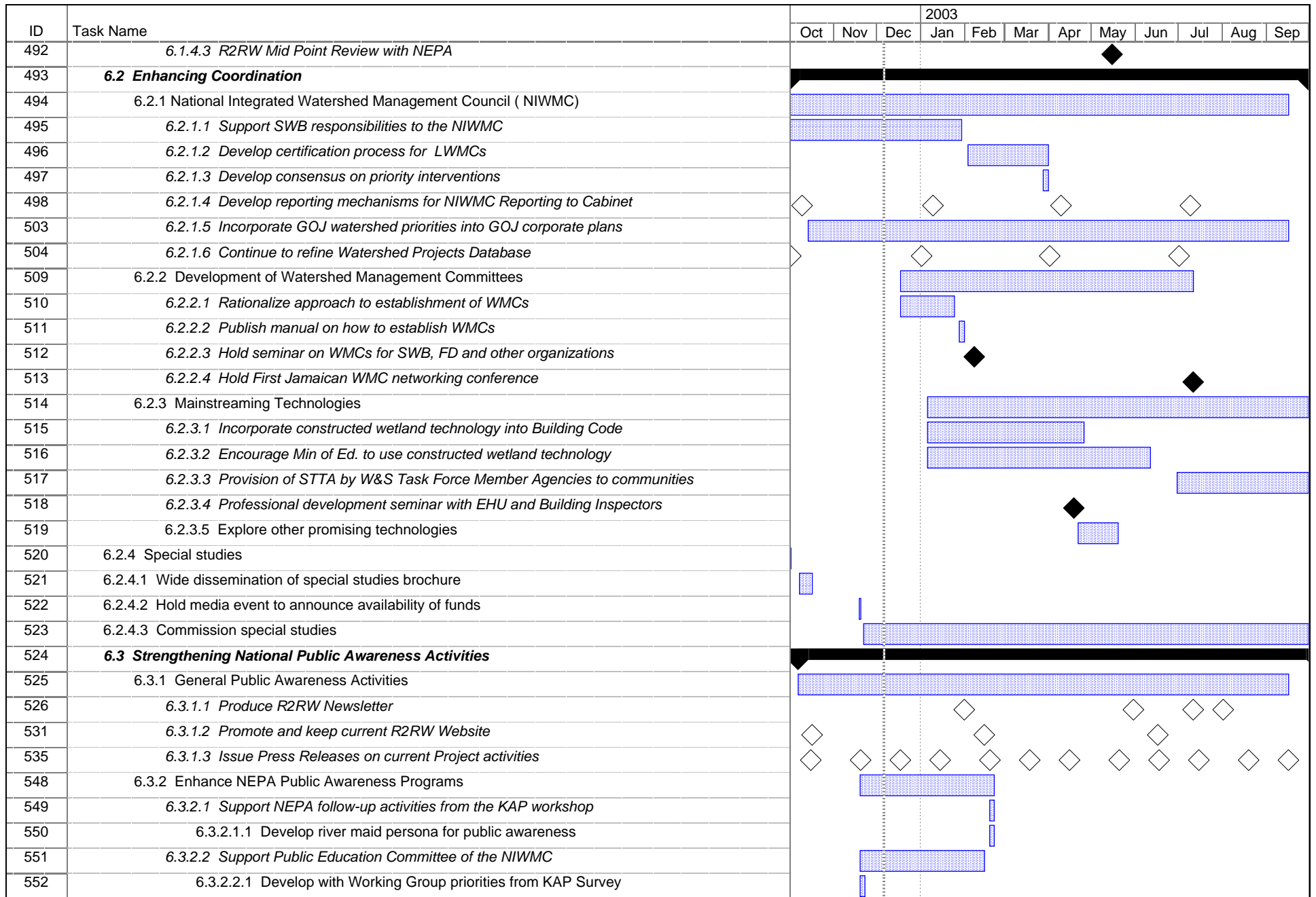
ACTIVITY NUMBER	ACTIVITY NAME	R2RW LEADER(S)	PARTICIPANTS	PARTNER ORGANIZATIONS
6.4.4	Provide annual gender report of project activities and accomplishments	MP	LD, HG	PPPCD
6.4.5	Support additional training to enhance gender mainstreaming within NEPA	MP	LD, HG, TE	PubEd, PPPCD
6.4.6	With NEPA, host "Gender and Environment" symposium"	MP	TE, HG	PubEd, PPPCD, FD

### Activity Benchmarks

A summary of proposed activity benchmarks established for the Third project year for this Component is presented below. These benchmarks are projections. Flexibility in project implementation must be exercised to maximize opportunities and confront constraints.

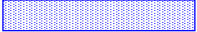





<p><b>Year Three</b></p> <ul style="list-style-type: none"> <li>▪ Community stewardship program implemented.</li> <li>▪ PubEd kit developed, produced and tested.</li> <li>▪ Three training courses held.</li> <li>▪ Two Special Studies commissioned.</li> <li>▪ Four newsletters published.</li> </ul>
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ID	Task Name	2003											
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
553	6.3.2.2.2 Develop PA Strategy for NIWMC based on KAP survey												
554	6.3.3 Expositions												
555	6.3.3.1 National Wood and Water Day												
556	6.3.3.2 Earth Day												
557	6.3.3.3 Environment Week												
558	6.3.3.4 Denbigh												
559	<b>6.4 Gender Activities at the National Level</b>												
560	6.4.1 Conduct "gender & the environment" training with NEPA staff												
561	6.4.2 Incorporate gender checklist reporting into NEPA reporting mechanisms												
562	6.4.3 Revise Grant Fund application to include gender factors												
563	6.4.4 Provide annual gender report of project activities and accomplishments												
564	6.4.5 Support additional training to enhance gender mainstreaming within NEPA												
565	6.4.6 With NEPA, host "Gender and Environment" symposium												

R2RW Third Annual Work Plan	Task		Summary		Rolled Up Milestone		
	Milestone		Rolled Up Task				

## 7. PROJECT MANAGEMENT

- 7.1 Grant Fund Management
- 7.2 Staffing
- 7.3 Management Arrangements

### 7.1 Grant Fund Management

The R2RW Project has taken a comprehensive approach to grant management. Project activities in the watersheds not only are seen as a way to address an immediate community felt environmental problem, but also as an opportunity create effective linkages between community and GOJ State Agencies. In addition, the R2RW Team serves to support or “buttress” grant proposals from communities with targeted technical assistance. A Project initiative could include a grant, a STTA contract, direct procurement of equipment, TA directly from the team, or the staff time of our strategic partners. A Project initiative could also include a proposal to an external donor such as the EFJ or the JSIF to directly address an initiative of one of the task forces or sub-committees. Grant administration could take place either directly from the R2RW and ASC – or could take place through a strategic partner.

R2RW will do the following during year 3.

- 7.1.1 Screening grant applications for gender considerations
- 7.1.2 Approval of Grant Applications by WMCs
- 7.1.3 Incorporate MOUs in Grant Agreements
- 7.1.4 Implement 10 grants
- 7.1.5 Close supervision of funds, compliance, and completion"
- 7.1.6 Regular program monitoring by WGOs, WMCs and R2RW
- 7.1.7 Provide STTA to grant clusters

ACTIVITY NUMBER	ACTIVITY NAME	R2RW LEADER(S)	PARTICIPANTS	PARTNER ORGANIZATIONS
7.1.1	Screening grant applications for gender considerations	MN	MP	GRWMC, RGWMC
7.1.2	Approval of Grant Applications by WMCs	MN	BT, ST	RGWMC, GRWMC
7.1.3	Incorporate MOUs in Grant Agreements	MN	BT, ST, TEAM	RGWMC/ GRWMC
7.1.4	Implement 10 grants	MN	BT, ST, NW, LD, JE	CBOs
7.1.5	Close supervision of funds, compliance, and completion	MN	GC, ASC, JE, JS	
7.1.6	Regular program monitoring by WGOs, WMCs and R2RW	MN	TEAM	SWB
7.1.7	Provide STTA to grant clusters	MN	JE, JS	TA

## 7.2 Staffing

Keeping good quality staff in place is crucial to the successful implementation of the R2RW Project. The key activities are as follows:

7.2.1	<i>Fill the WMS position</i>
7.2.2	<i>More Aggressive use of STTA</i>
7.2.3	<i>Rationalize ASC Staffing requirements</i>

ACTIVITY NUMBER	ACTIVITY NAME	R2RW LEADER(S)	PARTICIPANTS	PARTNER ORGANIZATIONS
7.2.1	Fill the WMS Position	MN	GC	ARD
7.2.2	More aggressive use of STTA	MN	GC	ARD
7.2.3	Rationalize ASC Staffing Requirements	MN	GC	USAID, ARD

## 7.3 Management Arrangements

A series of Management Committees was established during the first 2 years to ensure the smooth communication of activities of the R2RW within the team, with NEPA, with CWIP and the ASC and with other government agencies. The continued active participation in these mechanisms will be key to ensure that management issues are addressed in a rapid and efficient manner.

Finally, the close out of the CWIP Project in June 2003 will impact upon the staffing requirements for the Administrative Support Center. A close out plan has been prepared, and agreed to by the NEPA and USAID. The following specific activities are envisioned:

7.3.1	<i>Update Contact Database</i>
7.3.2	<i>Use text messaging to announce meetings over cell phones</i>
7.3.3	<i>NEPA Coordination Meetings</i>
7.3.4	<i>R2RW Team Meetings</i>
7.3.5	<i>Project Implementation Meeting</i>
7.3.6	<i>InterAgency Steering Committee</i>
7.3.7	<i>Monitor CWIP Close Out</i>
7.3.8	<i>Conduct mid-term Assessment of R2RW</i>
7.3.9	<i>ASC Senior Management Team</i>

ACTIVITY NUMBER	ACTIVITY NAME	R2RW LEADER(S)	PARTICIPANTS	PARTNER ORGANIZATIONS
7.3.1	Update Contact Database	MW	LD	
7.3.2	Use text messaging to announce meetings over cell phones	MW	LD	RGWMC, GRWMC
7.3.3	NEPA Coordination Meetings	MN	TEAM	PPPCD
7.3.4	R2RW Team Meetings	MN	TEAM	USAID, NEPA
7.3.5	Project Implementation Committee	MN	HG	USAID, NEPA
7.3.6	InterAgency Steering Committee	MN	HG	USAID, NEPA

ID	Task Name	2003											
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
566	<b>7 R2RW Program Management</b>												
567	<b>7.1 Grant Management</b>												
568	7.1.1 Screening grant applications for gender considerations												
581	7.1.2 Approval of Grant Applications by WMCs												
594	7.1.3 Incorporate MOUs in Grant Agreements												
622	7.1.4 Implement 10 grants												
623	7.1.5 Close supervision of funds, compliance, and completion												
636	7.1.6 Regular program monitoring by WGOs WMCs and R2RW												
649	7.1.7 Provide STTA to grant clusters												
662	<b>7.2 Staffing</b>												
663	7.2.1 Fill the WMS position												
664	7.3.2 More Aggressive use of STTA												
677	7.3.3 Rationalize ASC Staffing Requirements												
678	<b>7.3 Project Management</b>												
679	7.3.1 Update Contact Database												
692	7.3.2 Use text messaging to announce meetings over cell phones												
704	7.3.3 NEPA Coordination Meetings												
709	7.3.4 R2RW Team Meetings												
722	7.3.5 Project Implementation Meeting												
735	7.3.6 Interagency Steering Committee												
738	7.3.7 Monitor CWIP Close Out												
748	7.3.8 Conduct mid-term Assessment of R2RW												
749	7.3.9 ASC Senior Management Team												

R2RW Third Annual Work Plan	Task		Summary		Rolled Up Milestone	
	Milestone		Rolled Up Task			

ACTIVITY NUMBER	ACTIVITY NAME	R2RW LEADER(S)	PARTICIPANTS	PARTNER ORGANIZATIONS
7.3.7	Monitor CWIP Close Out and rationalize administrative support requirements	MN	HG, LD	USAID, NEPA
7.3.8	Conduct mid-term Assessment of R2RW	MN	TEAM	USAID, NEPA
7.3.9	ASC Senior Management Team	MN	GC	CWIP

Below is a description of key meetings to be held:

**Project Team Meetings:** A regular schedule of project team meetings has been instituted for bi-weekly core team members to assess progress on on-going activities, strategize on interventions planned and make regular adjustments in work in progress. The COP, the WMS, the GNRS, the PAPAS and the Director of the SWB attend these meetings.

**Project Implementation Committee:** The PIC meets every 4-6 weeks to update the clients on project progress, address issues that need approval or resolution, incorporate client concerns into project implementation and to provide overall project management guidance. PIC meetings include the USAID Project Management Specialist, the Director of the Conservation Division of NEPA, and the R2RW COP.

**Interagency Steering Committee.** The ISC consists of a broad membership of the wider GOJ agencies impacting on watershed management including NEPA, Forestry Department, Ministry of Agriculture, Ministry of Health, National Water Commission, Ministry of Health and Ministry of Tourism, among others. The ISC meets semi-annually to review Semi-Annual Reports, Performance Monitoring Plans, and Annual Work Plans.

**Coordination with CWIP and the ASC.** Brief weekly meetings take place with the R2RW COP, the CWIP COP and the Director of Administration of the ASC. Topics covered during these meetings include logistical support requirements, administrative issues, financial updates, and project management concerns.

Close monitoring of the **CWIP closeout plan** to determine the potential for equipment utilization, determine ASC support requirements for R2RW, and incorporation of CWIP programmatic initiatives into R2RW programs where possible.

### Activity Benchmarks

A summary of proposed activity benchmarks established for the Third project year for this Component is presented below. These benchmarks are projections. Flexibility in project implementation must be exercised to maximize opportunities and confront constraints.

<p><b>Year Three</b></p> <ul style="list-style-type: none"> <li>▪ STTA contracted to assist with grant cluster.</li> <li>▪ 10 grants implemented.</li> <li>▪ Administration staffing requirements rationalized after CWIP closeout.</li> <li>▪ 8 Project Implementation Committee Meetings held.</li> </ul>
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## 8. FINANCIAL PLAN

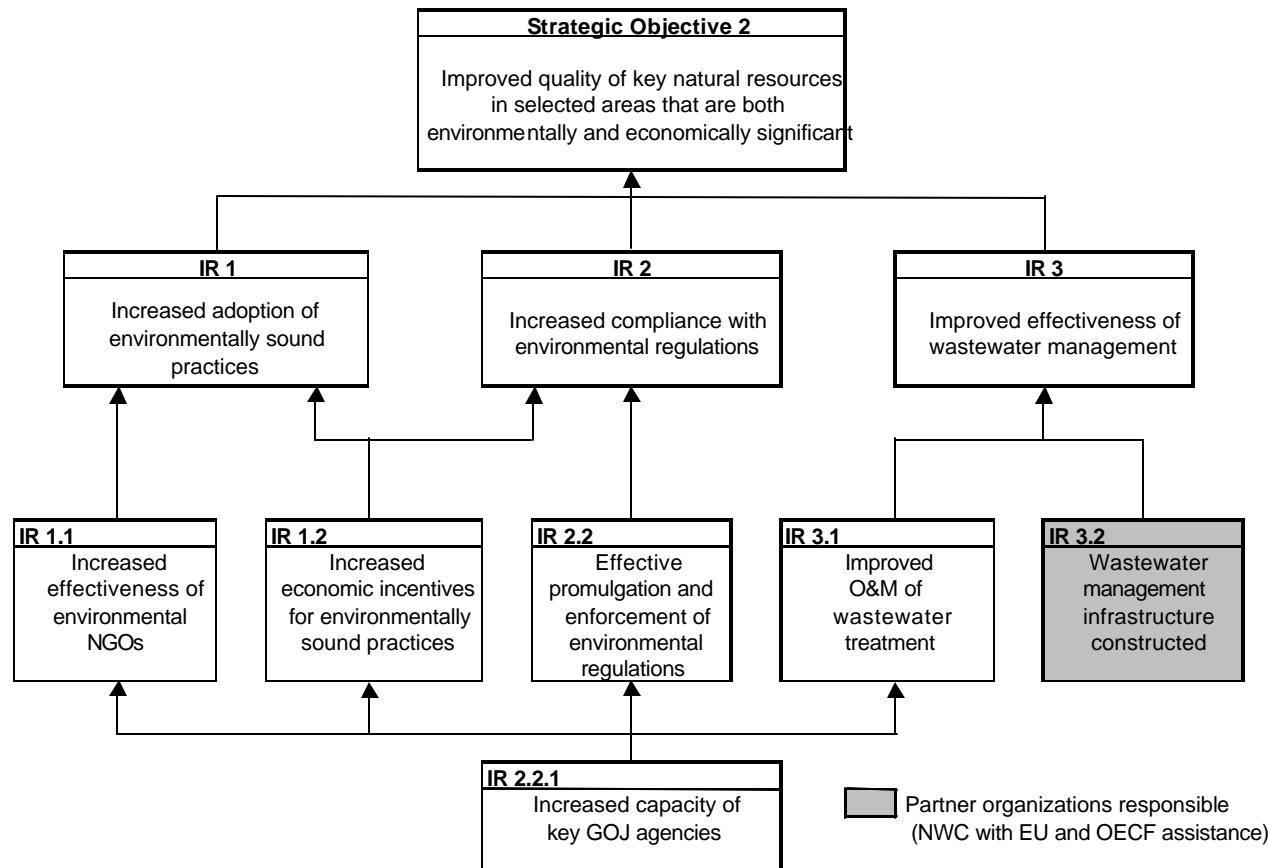
The table below shows the estimated financial plan for the period October 2002 to September 2003. This table is broken down by contract CLINs that are equivalent to the Contracts discussed in this document.

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

**ARD, Inc.  
Ridge to Reef Watershed Project  
Work Plan Budget for Year Three**

	CLIN 1	CLIN 2	CLIN 3	CLIN 4	CLIN 5	CLIN 6	TOTALS
Project Management & Admin	265,681	212,543	53,137	7,743	25,816	27,567	592,487
Consultants							
- International	15,158	12,126	3,032	0	1,596	0	31,911
- Local	45,474	36,379	9,095	0	4,787	0	95,734
Travel, Transportation & Per Diem	61,779	49,424	12,356	0	6,504	6,113	136,175
Equipment & Supplies	0	0	10,000	0	0	0	10,000
Operating Costs	18,649	14,919	3,730	0	1,963	52	39,313
Subcontracts & Tech Assistance	60,631	48,505	12,126	0	6,382	0	127,645
Grants	0	0	0	150,000	0	0	150,000
Training							
- Study Tours	2,500	5,000	2,500	0	0	0	10,000
- In-Country	12,500	15,000	12,500	0	0	0	40,000
<b>TOTALS</b>	<b>482,372</b>	<b>393,896</b>	<b>118,475</b>	<b>157,743</b>	<b>47,047</b>	<b>33,732</b>	<b>1,233,265</b>

USAID/JAMAICA SO2 RESULT FRAMEWORK



**NATIONAL CONSULTATION ON THE R2RW PROJECT  
DRAFT THIRD ANNUAL WORK PLAN**

October 2, 2002, Terra Nova Hotel

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**Welcome and Introductions**

The meeting was called to order by Trevor Spence at 9:20 a.m. Paulette Brown offered prayer.

Participants were asked to introduce themselves. Apologies were offered for Mr. Forstmayr and Thera Edwards.

**Project Overview**

Mark Nolan provided a project overview (see PowerPoint presentation).

He noted that R2RW's perspective is that watershed management is an important problem requiring long-term solutions. The Project provides intellectual leadership for watershed management. He recognized that the project does not have long-term responsibilities for watershed issues and therefore work with the partners to make their activities more effective.

**Component 1: Sustainable Environmental Practices in the Great River Watershed**

Discussion and Questions

- A few areas of tangible success of the project in the past year was requested to provide background on the project rate of achieving items in the work plan.
- GRWMC is to be registered. By whom and for what purpose? Mark and Don responded – study by Richard Lumsden needed to be reviewed as the committee is now handling funds. It was noted that in the case of the Montpelier Show Ground, there was a need to consider additional issues such as the possibility of forming a company.
- To what extent the Health Departments is involved (3.3). MN – have made a lot of effort to reach out to them and they have been invited to meetings. They have however not been actively engaged in the process. Noted that one of the problems in sanitation is that inspectors no longer visit communities for compliance and enforcement. Noted that water and sanitation is an integral part of the PH department. Should get in touch with the western regional health authority. Don Streete responded– WRHA has been involved. Pauline Weir (coordinating officer – Public Health) suggested that the approach be made to the medical officer of Health who can direct the most relevant person and department to be involved in the management committee. She said that she would discuss the issue at the next national meeting. Maria noted that the project has had a good relationship with the PH department and especially with the health educators. Christopher Kerr for example is working to develop a proposal for public education. R2RW will also participate in health fair.
- Howard – (w.r.t. 3.2) (1) To what extent will new products and new product initiatives be emphasized such as Organic Farming. (2) How can we get these issues expedited. (3) To what extent can the grant program be used to jump start these initiatives? Mark Nolan responded – much talk about expanding production and many discrete initiatives being supported by the grant fund program. The grants program is community driven. Working



with field officers of NEPA. Most of the grants received are however requesting assistance with garbage and water issues.

- In the development of markets for products, is the project aiming at local, national or export markets? M Nolan responded by noting that there is a watershed focus. The snag up to now has been getting JAS to commit to the project (re: the Montpelier Country Fair and Market).
- Scott – What were the results of the environmental audits in the watershed? How were the results integrated into the activities of the work plan? Maria Protz responded– have used more of the general stakeholder workshops to identify priorities. The audits themselves have been used as tools in grant fund program initiatives primarily.
- Alfred Williams (re: 3.2.6) – concerned about Labor Day activities. Particularly with tree planting initiatives. It was noted that trees usually do not survive after the event. It was however noted that tree planting as in Shettlewood community was an important educational tool. It was suggested that the term 'tree establishment' be used in place of tree planting.
- Scott queried if there were any concerns about fuel wood and fuel wood depletion in the watershed expressed in the work plan. M Nolan responded – no this is not a major issue in the watershed. He referred to the trip to Haiti and difficulties there.

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

### Questions and Discussion

- Sand Mining – where is that expressed in the project and work plan? T Spence noted that this will be covered in compliance and enforcement. MP – a proposal related to this issue is to be presented at the next Public Awareness meeting.
- Are Recycling Projects part of the project activities? – J Excell noted that the project has spoken to the marine park and they are to convene a meeting with all the key partners to come up with a tangible plan for recycling.
- Does R2RW work with recycle for life? J Excell – recycle for life is already over stretched and unable to handle much more. They are however part of the water & sanitation task force.
- Susan Otokan – noted the special interests of the Jamaica Conservation and Development Trust in the work of the project in the Rio Grande. She noted that the Rio Grande is one of the largest areas of the BJMNP. JCDT has several activities in the upper watershed. She said that the organization was coming out of a period of planning and restructuring. The R2RW KAP survey was presented at a time when a similar approach was being planned by JCDT. Areas of particular relevance with the work of JCDT highlighted were 4.2.2 – tree crops and 4.2.5 – establishing trees campaign. Also looking at 4.4 the PA activities. She noted that re compliance and enforcement, the JCDT rangers had just gone back in the field and could possibly participate in activities related to this area.
- Paulette Brown – concern – which is unavoidable. Project needed to provide some balance. First things will come out from communities is water and solid waste. There is a danger to get side tracked in dealing with peoples day to day issues and not deal with the overall picture of sustainable watershed management.
- Scott – for solid waste it is not necessarily a government responsibility. Need to look at alternatives for solving problems in the interim as this most likely will not be resolved in the near future.

## **Component 2: Enhancing Compliance and Enforcement**

### Questions and Discussion

- T. Spence – sand mining/quarrying has been very topical as a compliance and enforcement issue. The general feeling is how to resolve the competing interests of sand mining along with recreational uses among others. A special study is therefore suggested towards bring the stakeholders together to resolve the conflict.
- Mr. Sham? - (re 5.3) what are the laws and regulations being used to develop strategies for preventing the clearing of slopes? Marilyn Headley – privately owned land (NRCA act) if you are to be clearing slopes above a certain degree slope there needs to be a permit from NRCA. Government lands is covered under a separate act.
- No one is prosecuting coffee growers in Rio Grande for clearing steep slopes. M Headley noted that the main program is sensitizing the constabulary force and the judiciary re awareness of the laws and regulations. Need also to look at how to get the communities to be part of the process as in Buff Bay-Pencar. M Protz noted that the smaller farmers watch what the bigger farmers do and are aware that there is no enforcement at the higher (bigger farmer) level. Need to look at public embarrassment (lobbying and advocacy). M Nolan - communities are frustrated that there is no action when they report issues.
- Not aware of any prosecution that has taken place against people clearing steep slopes.

## **Component 3: Intentional Strengthening and Capacity Building for Watershed Management**

### Questions and Discussion

- What kind of training is being done and are community based organizations being trained?
- M Headley – need to emphasize other agencies such as Forestry Department for training and institutional strengthening. M Nolan – probably need to talk specifically with Forestry Department about activities/support that can be done.

## **R2RW Program Management**

### Questions and Discussion

- Scott – dilemma that environmental projects face. CWIP has been dealing with institutional strengthening for 5 years. A critique of CWIP was that they did not spend enough time strengthening CBOs. CWIP used NGOs to strengthening CBOs. This is a dilemma in that they are not institutional strengthening projects. For communities to sustain themselves, communities need to be able to take on projects on their own. M Protz – this should be addressed in stewardship training project in R2RW.
- Karen McDonald Gayle – Need to capture what has been done with EAST and CWIP including the lessons learned.
- G Wilson – need to move from farm to farm and try to improve livelihood issues at this level.

R2RW

Ridge to Reef Watershed Project