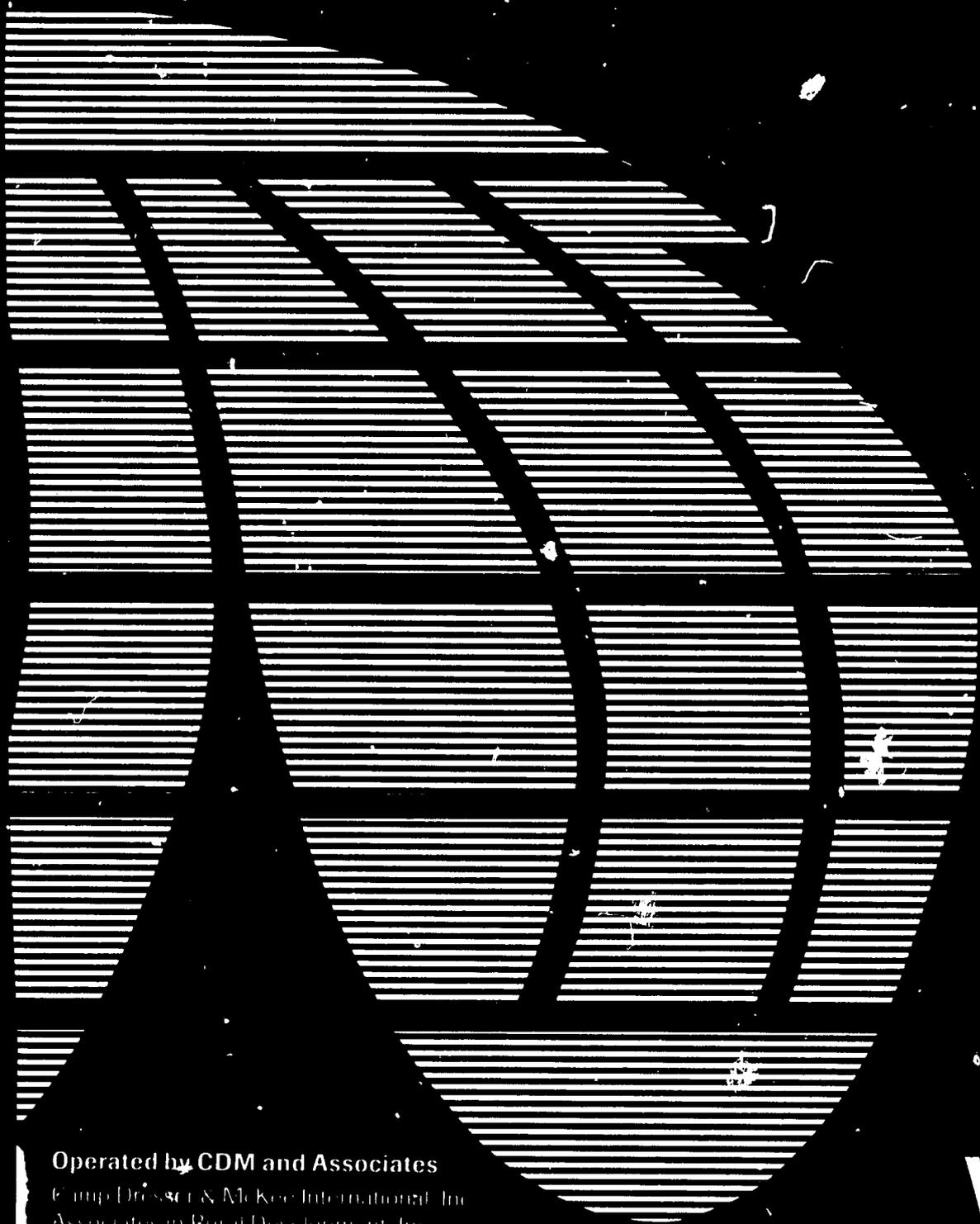


PD-ABE-879 79824

# WATER AND SANITATION FOR HEALTH PROJECT

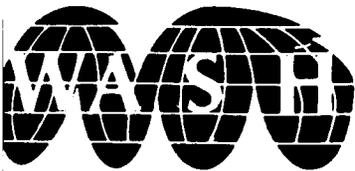
## 1990 Annual Work Plan



Operated by CDM and Associates  
Camp Dresser & McKee International, Inc.  
Associates in Rural Development, Inc.  
International Science and Technology Institute  
Research Triangle Institute  
Training Resources Group  
University of North Carolina at Chapel Hill  
University Research Corporation

**WASH**  
WATER AND SANITATION  
FOR HEALTH PROJECT  
Sponsored by the U.S. Agency  
for International Development

September 1989



**WATER AND SANITATION  
FOR HEALTH PROJECT**

Operated by CDM and Associates

Sponsored by the U.S. Agency  
for International Development

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30 September 1989

Dr. A. Dennis Long  
Agency for International Development  
Bureau for Science & Technology  
Office of Health  
Room 702, Building SA-18  
Washington, D.C. 20523

Dear Dr. Long:

In accordance with the terms of our contract no. DPE-5973-Z-00--  
8081-00 effective 1 October 1988, we are pleased to submit the  
Fiscal Year 1990 Annual Work Plan for the WASH III Project.

We wish to take this opportunity to thank your office for the  
support and guidance provided during the preparation of this  
document. We look forward to working with you to implement the  
tasks presented herein.

Very truly yours,

J. Ellis Turner  
WASH Project Director

JET/ms

cc: James Nindel, M/SER/OP/W/HP

## INTRODUCTION

The WASH Annual Work Plan for Fiscal Year 1990 contains one-page summaries of the tasks now planned for the coming year. These tasks are divided into three categories, each a separate section in the plan: administrative tasks associated with the WASH Operations Center, requests received to date from missions and bureaus for technical assistance, and tasks initiated by the WASH staff and the Office of Health, Bureau for Science and Technology. Annexes contain lists of activities funded during 1989 that are still ongoing and activities that are on hold until funding sources can be found. While new requests for assistance will surely come in during the course of the year, they will not fundamentally alter the direction in which the WASH Project is headed in FY90. This introduction seeks to orient the reader to the Work Plan by pointing out some of its main themes and areas of emphasis.

### A Record Year for the WASH Project

The planning process for fiscal year 1990 took place in the midst of an extremely active time for the WASH Project. Over fifty WASH II activities had to be brought to a close by the end of the fiscal year, while at the same time a record level of requests for technical assistance were coming in under WASH III. By the end of August 1989, 80 WASH III activities were underway, 30 percent of which were buy-ins (i.e., supported with funds from the A.I.D. missions and bureaus). Buy-ins for WASH III (after one year) now exceed \$2,000,000. The large number of reports published from October 1988 to August 1989 also gives some indication of the high level of effort expended: 26 Field Reports (of which ten were issued both in English and either Spanish or French), 6 Technical Reports, 11 translations of Technical Reports, and 14 Working Papers.

In early September the finishing touches were put on the WASH management information system. The new MIS system advances WASH's existing, well recognized capabilities in task management by providing each task manager with instantaneous access to financial information and reports. The new system also equips WASH with state-of-the art word-processing and communications capabilities. All WASH staff have been undergoing training and orientation in how to use the network and the various software packages that WASH depends on for data processing and financial management. The goal that WASH has set for itself is to make maximum use of computer technology to improve the efficiency and responsiveness of the WASH Project.

In February a project specialist for information management joined the WASH staff. This appointment signaled an increase in emphasis on promoting the water and sanitation sector and disseminating WASH products more widely. Signs of this new emphasis are already apparent. The Progress Report was revamped and given a more eye-catching cover, and in October, the first in a series of periodic supplements to the Progress Report will be published. These supplements will provide the A.I.D. bureaus and missions, as well as other persons and organizations interested in water and sanitation, with more up-to-date information about WASH activities. In June, WASH issued the WASH Catalog, an annotated list by topic of WASH "generic" products--those reports, manuals, guidelines, and conference papers that deal with issues and problems common to water and sanitation projects in various settings. This Catalog will be updated regularly.

All indications are that the next fiscal year will also be extremely active for the WASH Project. So far WASH has received nearly 30 requests for technical assistance from 12 countries. Twenty of these are full or partial buy-ins. (The total value of the assistance requested is \$1.4 million--74 percent buy-in.) WASH has also drawn up 26 proactive tasks for the coming year.

#### Building on Past Experience

Many of the proactive tasks planned for FY90 build on past efforts. In FY89, for example, an effort was launched to strengthen the health side of the WASH Project. An environmental health specialist joined the WASH staff and began several activities to clarify the natural synergism that exists between health and child survival projects and water supply and sanitation projects and to advance ideas for linking these two types of projects for maximum impact. FY90 plans call for carrying this effort forward by taking the first steps in the complex process of writing a training guide on how to design integrated child survival and water and sanitation projects. Other tasks now in the planning stage seek to improve the database of information about the health effects of improved water and sanitation systems and to test various methods of collecting information about behaviors that affect the spread of water-related diseases. As these new tasks are carried out, WASH will seek to forge more collaboration with other A.I.D. centrally funded resources such as REACH, HEALTHCOM, and VBC.

New hygiene education/community participation tasks also build directly on past efforts. As a follow-up to the WASH Technical Report, "What Makes Hygiene Education Successful?" (#55), WASH is planning a field manual to explain step-by-step how a hygiene education program can be implemented. It is intended for project staff responsible for the design of community hygiene education programs. Similarly, in FY90, WASH will continue to devise tools to aid field workers promoting community participation at all stages of water and sanitation projects.

Among the planned FY90 tasks, finance issues are well represented, as they also were in FY89. Tasks were developed for both FY89 and FY90 to identify and then to begin to quantify the economic benefits, both micro and macro, of improved water supply and sanitation. Tasks for both FY89 and FY90 concentrate on finding practical alternatives to total government subsidization of water and sanitation systems. The FY90 task will culminate with a report on the feasibility and desirability of privatizing some water and sanitation services.

WASH's systematic, strong emphasis on training and institutional development continues in FY89. In training, WASH is planning to publish three new training guides: one on how to train trainers, the second on operation and maintenance, and the third on hygiene education. In addition, guidelines for how to select and train long-term consultants and advisors are being drawn up. All these activities were begun in FY89 and will continue in FY90.

In institutional development a key activity--also initiated in FY89 and ongoing in FY90--is the formulation of guidelines and models that depict effective institutional arrangements for the delivery of water and sanitation in rural areas, with the emphasis on decentralization. And, in response to a need expressed by officials from many developing countries, a concept paper is being written on the key personnel management needs of water and sanitation institutions. If water and sanitation systems are to be sustainable, supporting institutions must find ways to recruit and--perhaps more important--to retain well trained, experienced staff.

In FY89 WASH significantly improved its collaboration with other water supply and sanitation organizations. The Peace Corps and WASH joined forces to further guinea worm eradication efforts. WASH is supplying ongoing technical backup to the Peace Corps' guinea worm projects in West Africa. Part of the backup support will come from the guinea worm information center WASH is setting up jointly with the Vector Biology and Control A.I.D. resource and from meetings and conferences on guinea worm supported by WASH, the U.S. Centers for Disease Control, Global 2000, and UNICEF. Also in FY89, WASH began a collaborative arrangement with the Applied Diarrheal Disease Research Project, an A.I.D. centrally funded research and development resource for child survival projects. Other collaborative activities took place with the United Nations Development Program (UNDP)/World Bank Water and Sanitation Program (in the preparation of a concept paper on community management) and with GTZ (West German aid) and the International Reference Centre (to develop a methodology for evaluating human resource development projects in the water supply and sanitation sector). In FY90 WASH will collaborate with CARE/Indonesia and the Canadian International Development Agency (CIDA) to prepare a hygiene education strategy focussed on water use, storage, and the prevention of diarrhea and will also assist the Pan American Health Organization (PAHO) in the design and

implementation of a symposium in Puerto Rico for sanitary engineering professors from North and South American universities.

In the engineering field the key task for FY90 is the conclusion of an extensive study of variations in water use demand. The piped distribution networks and the elevated tanks of community water systems must be designed to meet peak flows. However, because there is little available information on how great these flows are, engineers have to make educated guesses. These guesses are often too high and, as a result, the systems constructed are larger and more expensive than they need be. This study will attempt to develop peaking factors and other guidelines for cost-effective system design. In addition, several tasks focus on operation and maintenance: one will describe various operation and maintenance management policies and practices with the aim of identifying the ones that contribute to success, another will field test training materials for maintenance managers in developing countries, and a third effort will continue technical assistance to Zaire in establishing an effective operation and maintenance system.

In FY89 it became apparent that the dearth of solid information about water supply and sanitation is a serious constraint for planners. To attack this problem, A.I.D.'s Africa Bureau and Latin America/Caribbean Bureau, in separate efforts, commissioned WASH to prepare water and sanitation "profiles" of numerous specific countries. These profiles, aimed mainly at A.I.D. planners, summarize available information on coverage, water sector plans, and the cost of achieving the countries' water and sanitation goals. In FY90, WASH will continue this effort for the Latin America/Caribbean Bureau by updating the profiles already prepared and preparing new profiles of Bolivia, Peru, Ecuador, Jamaica, the Dominican Republic, Haiti, Barbados, and Grenada.

Other efforts to provide reliable databases are also planned for FY90. WASH is continuing the expansion of the centralized computer database containing information on A.I.D.-supported water and sanitation projects. Interest in such databases--in this instance providing country-level information--has also been expressed by individual USAID missions and host countries. A new WASH task will develop guidelines for setting up such databases in various countries that have expressed an interest.

### New Directions

In FY90 several developmental tasks are planned in two emerging fields: water and sanitation in peri-urban areas and solid waste management and environmental protection. The activities planned are "developmental" in that they will help the WASH Project to survey these two fields and identify the key problems that subsequent WASH activities can address.

To date, WASH has been involved only marginally in the fields of peri-urbanization and environmental protection/solid waste. It has assisted A.I.D.'s Office of Housing and Urban Programs to write a paper on A.I.D.'s policy on urban water supply and sanitation for the 12th Session of the U.N. Habitat Commission and has written natural resource issue papers on rural water supply environmental issues and the environmental aspects of rapid urbanization for A.I.D.'s Bureau for Asia and Near East. WASH has recently instituted a peri-urban information network similar to the networks already established for guinea worm disease and rainwater harvesting.

While there is an astonishingly rapid rate of urbanization in many developing countries leading to the creation of peri-urban shanty towns or slums surrounding most cities, little is known about the new challenges such communities pose to the field of water supply and sanitation. There are still no answers to such questions as what type of water supply and sanitation systems are appropriate in peri-urban areas, how such systems might be built and sustained, and what is distinctive about peri-urban hygiene needs. Two new tasks for FY90 address the need for more information. One is a paper outlining the sociological considerations at the family level in peri-urban areas that will affect community participation programs. Another is a report that will identify rapid assessment methodologies for water and sanitation-related diseases in peri-urban areas.

In FY90 and FY91, WASH will be carrying out a number of sequenced consultancies for A.I.D./Ecuador and RHUDO to assist the government of Ecuador to improve housing in low-income peripheral settlements. The overall goal of the WASH assistance is to increase the financial self-sufficiency of municipal water and sanitation agencies in the project areas. Significant levels of buy-in-funded technical assistance are also being provided to A.I.D./Tunisia to support its rural water supply and sanitation efforts.

Beginning with WASH III, the WASH Project received authorization to undertake technical assistance projects in solid waste management and environmental protection, two fields that A.I.D. will be increasingly involved in, because of the world-wide concern over the degradation of the environment. In FY90 WASH plans to explore the existing research and experience and identify the major issues in solid waste management and environmental protection in the water and sanitation sector.

A number of collaborative activities are afoot in connection with the end of the International Drinking Water Supply and Sanitation Decade. A Collaborative Council of external support agencies has been set up to make plans for post-Decade activities, and WASH and A.I.D. have been active participants. In FY90 WASH will support a presentation on the health benefits of water supply and sanitation to the Collaborative Council meeting in November 1989 in France and will attend the Collaborative Council meeting in New Delhi in September 1990.

Just in time for the end of Decade planning meetings, WASH will publish a special report on what it has learned during the Water Decade about providing technical assistance in water supply and sanitation. The report will elucidate some general principles and about twenty major "lessons" covering operation and maintenance, human resource and institutional development, community participation, and the health-water supply and sanitation connection.

During the course of the next fiscal year, WASH will continue to look for fruitful opportunities--both proactive and in response to requests from missions and bureaus--to advance knowledge in the field of water and sanitation and to be responsive to the needs of the field.

+ + +

Many of the tasks planned for FY90 have not been mentioned at all in this introduction, but just a glance at the task sheets assembled here makes the point that WASH's mode of operation is multidisciplinary and WASH's definition of technical assistance in water supply and sanitation is very broad. There are no longer many WASH tasks that simply involve a consultant going out into the field to solve a technical problem. Most tasks involve teams with members representing several specialties, both the "hard" and the "soft" sciences, for most problems in water and sanitation cannot be solved by technology alone but must be solved by taking into account the workings of human societies.

## SUMMARY

The WASH III FY 1990 Annual Work Plan was developed following the planning meeting in late June 1989. The annual planning meeting had the active participation of representatives from the Bureau for Science and Technology, Office of Health of A.I.D. The Plan is divided into three sections and an annex. Sections I through III of the FY 90 work plan include a total of 62 tasks with an estimated cost of \$2,500,000. This figure includes \$341,000 reserved for unidentified future requests from missions and bureaus.

The categories of the plan consist of the following:

1. Operations Center Tasks (Section I): These 11 tasks are necessary for the technical management, information support, task development, liaison, and administration of the WASH Project independent of the magnitude of specific tasks and levels of effort.
2. Mission/Bureau Requests (Section II): There are 24 tasks based on requests received from AID missions and bureaus. In addition, a reserve is set aside for unidentified future requests for technical assistance.
3. Proactive Tasks (Section III): There are 29 new initiatives proposed by the WASH staff. They were developed following our annual planning meeting and are divided into eight categories: community participation/hygiene education, health, institutional and human resource development, finance, engineering, operations and maintenance, information, and cross-cutting.
4. Annex: There are two categories in the annex.
  - Annex A - FY 89 Continuing Activities. These are continuing activities which were funded in FY 89 which will require work during FY 90.
  - Annex B - Tasks Awaiting Funding. The tasks awaiting funding include any new initiatives which are on hold until additional funding sources can be identified.

Each section contains task sheets detailing the preliminary objectives, schedule, type of personnel required, and budget.

A summary of the source and use of funds is presented below:

<u>SOURCE OF FUNDS</u>		<u>USE OF FUNDS</u>	
<u>SOURCE</u>	<u>AMOUNT</u>	<u>TASK CATEGORY</u>	<u>AMOUNT</u>
FY 90 S&T	\$2,500,000	Section I:	
		General Administration	640,000
		Technical Assistance	170,000
		Task Devel.- Proactive	187,000
		Information Services	110,000
		Liaison/Coordination	118,000
		Task Devel.- Mission/Bureau	100,000
		Section II:	
		Mission Requests	224,000
		Reserve for New Requests	341,000
		Section III:	
		Proactive Tasks	<u>610,000</u>
<b>TOTAL</b>	<b>\$2,500,000</b>		<b>\$2,500,000</b>

## SECTION I

### OPERATIONS CENTER TASKS

Six categories have been established to capture costs related to the administration, technical management, task development, information services, and liaison activities required under the project. These activities are expected to be continued throughout the life of the project. A description of each task and the anticipated FY 90 budget for it are presented below.

- A. General Administration: This general administration task will provide overall coordination; professional, secretarial, and clerical support; administrative database management; office space and equipment; telecommunications and telephone equipment; document production facilities; mainframe computer usage; and consumable office supplies to support the WASH Project. The estimated budget for FY 1990 is \$640,000.
- B. Technical Assistance: The ongoing technical assistance category includes all WASH Operations Center staff tasks involving the delivery of technical services or products to A.I.D. which are not specifically authorized under other tasks. These include general technical meetings, visitor briefings, routine project correspondence, document review, and other tasks of a technical nature necessary to support WASH activities. The estimated budget for FY 1990 is \$170,000.
- C. Annual Plan and Proactive Task Development: This task will provide for time and expenses incurred by task managers and appropriate contractor, subcontractor, and consultant staff in development of scopes of work for tasks generated by WASH staff prior to the issuance of an authorization. This includes the preparation of Task Sheets and draft Task Implementation Plans, the development of Scopes of Work for all requests received from the A.I.D. Cognizant Technical Officer and the development of the Annual Work Plan. The estimated budget for FY 1990 is \$187,000.
- D. Information Services: This ongoing task provides for the management and operations of the WASH library and distribution center; acquiring and maintaining holdings; accessions and mailing lists; mailing reports; preparing special reports, searches, and synthesis documents; liaison with US and foreign water supply and sanitation information agencies; preparing exhibits and briefing packages; and maintaining WS&S country information databases. The estimated budget for FY 1990 is \$110,000.

- E. Liaison and Coordination: There are a total of six liaison and coordination tasks proposed for 1990. These are continuations of similar activities initiated in FY 1989. They include general liaison and coordination with AID and with other agencies and organizations. The estimated budget for FY 1990 is \$118,000.
- F. Task Development for Mission and Bureau Requests: This task will provide for time and expenses incurred by task managers and appropriate contractor, subcontractor, and consultant staff in development of scopes of work for tasks generated from Mission and Bureau requests and buy-ins. This includes the preparation of Task Sheets and draft Task Implementation Plans, and the development of Scopes of Work for all requests received from the A.I.D. Cognizant Technical Officer. The estimated budget for FY 1990 is \$100,000.

**SUMMARY OF OPERATIONS CENTER TASKS**

The Operations Center task titles and estimated costs are summarized as follows:

<u>TASK SHEET</u>	<u>TITLE</u>	<u>FY 90 ST&amp;H COST</u>
A) 90001	General Administration	640,000
B) 90002	Technical Assistance	170,000
C) 90003	Annual Plan and Proactive Task Development	187,000
D) 90004	Information Services	110,000
E)	Liaison and Coordination	
90005	AID - Africa Bureau Liaison	12,000
90006	AID - ANE Bureau Liaison	12,000
90007	AID - LAC Bureau Liaison	12,000
90008	AID - Non-Regional Bureaus	10,000
90009	Collaboration with non-AID Organizations	40,000
90010	WASH Staff Conference Participation	<u>32,000</u>
	Subtotal Liaison and Coordination	118,000
F) 90011	Task Development for Mission and Bureau Requests	<u>100,000</u>
	<b>TOTAL OPERATIONS CENTER TASKS</b>	<b>\$ 1,325,000</b>

WASH III PROJECT FY 1990

TASK SHEET

BUREAU: S&T/H/WVC  
COUNTRY: USA  
QUARTER: 1

CODE: 90001  
TASK:

DATES: BEGIN 10/01/89  
FIELD  
END 09/30/90

---

TASK TITLE: General Administration - FY 1990

TASK MANAGER: Turner

TASK ORIGIN: WASH III Contract

AUDIENCE: S&T/H

LOCATION: Washington, DC & subcontractors' offices

OBJECTIVES: To perform those function (salaries, supplies, leases, etc.)  
necessary to administratively operate the WASH III Project.

SCHEDULE: Provide administration and support as needed by the WASH III  
Project throughout FY 1990.

SKILLS: Management

PERSONNEL: WOC staff, subcontractors' staff

FOLLOW-UP: FY91/91001

S&T CONTACT: A.D. Long

LEVEL OF EFFORT IN DAYS

APPROVED BY: \_\_\_\_\_

FY90/TOTAL: 1000 /1000

DATE: \_\_\_\_\_

FY90 COST: 640,000

TOTAL COST: 640,000

FY90 BUYIN:

WASH III PROJECT FY 1990

TASK SHEET

BUREAU: S&T/H/WVC  
COUNTRY: USA  
QUARTER: 1

CODE: 90002  
TASK:

DATES: BEGIN 10/01/89  
FIELD  
END 09/30/90

---

TASK TITLE: General Technical Assistance - FY 1990

TASK MANAGER: Turner

TASK ORIGIN: WASH III Contract

AUDIENCE: USAID

LOCATION: Washington, DC & subcontractor's offices

OBJECTIVES: To provide general overall technical management to the operation of the WASH III Project.

SCHEDULE: Perform all necessary general technical functions as needed by USAID and the Project.

SKILLS: Water supply and sanitation technical

PERSONNEL: WOC staff, subcontractors' staff

FOLLOW-UP: FY 91/91002

S&T CONTACT: A.D. Long

LEVEL OF EFFORT IN DAYS

APPROVED BY: \_\_\_\_\_

FY90/TOTAL: 350 /350

DATE: \_\_\_\_\_

FY90 COST: 170,000

TOTAL COST: 170,000

FY90 BUYIN:

WASH III PROJECT FY 1990

TASK SHEET

BUREAU: S&T/H/WVC  
COUNTRY: USA  
QUARTER: 1

CODE: 90003  
TASK:

DATES: BEGIN 10/01/89  
FIELD  
END 09/30/90

---

TASK TITLE: Annual Plan and Proactive Task Development

TASK MANAGER: Turner

TASK ORIGIN: WASH III Contract

AUDIENCE: USAID

LOCATION: Washington, DC

OBJECTIVES: Develop preliminary scopes of work at the request of S&T/H to be used for upcoming proactive tasks and prepare FY 1991 Annual Plan.

SCHEDULE: 1. As needed by S&T/H. 2. Prepare FY 1990 Annual Plan Updates. 3. Prepare Annual Plan for FY 1991.

SKILLS: Water supply and sanitation technical

PERSONNEL: WOC Staff

FOLLOW-UP: FY91/91003

S&T CONTACT: A.D. Long

LEVEL OF EFFORT IN DAYS

APPROVED BY: \_\_\_\_\_

FY90/TOTAL: 400 /400

DATE: \_\_\_\_\_

FY90 COST: 187,000

TOTAL COST: 187,000

FY90 BUYIN:

WASH III PROJECT FY 1990

TASK SHEET

BUREAU: S&T/H/WVC  
COUNTRY: USA  
QUARTER: 1

CODE: 90004  
TASK:

DATES: BEGIN 10/01/89  
FIELD  
END 09/30/90

---

TASK TITLE: Information Services

TASK MANAGER: Hafner

TASK ORIGIN: WASH III Contract

AUDIENCE: Worldwide

LOCATION: Washington, DC

OBJECTIVES: Provide A.I.D. and A.I.D. assisted/related organizations with relevant information in the WS&S sector, WASH tasks, and other topics as requested by A.I.D.

SCHEDULE: This is a continuous service task.

SKILLS: Librarian and information science

PERSONNEL: Dan Campbell, qualified consultants as required

FOLLOW-UP: FY91/91004

S&T CONTACT: A.D. Long

LEVEL OF EFFORT IN DAYS

APPROVED BY: \_\_\_\_\_

FY90/TOTAL: 250 /250

DATE: \_\_\_\_\_

FY90 COST: 110,000

TOTAL COST: 110,000

FY90 BUYIN:

WASH III PROJECT FY 1990

TASK SHEET

BUREAU: Africa  
COUNTRY:  
QUARTER: 1

CODE: 90005  
TASK:

DATES: BEGIN 10/01/89  
FIELD  
END 09/30/90

---

TASK TITLE: A.I.D.: Africa Bureau Liaison

TASK MANAGER: Roark

TASK ORIGIN: WASH III Contract

AUDIENCE: Africa Bureau and associated missions

LOCATION: Washington, DC and related missions

OBJECTIVES: 1. To identify Bureau and Mission needs in WS&S sector. 2. To inform Bureau and Mission officials of WASH resources. 3. To formulate preliminary WASH responses to Bureau and Mission needs. 4. To obtain information for WASH Annual Plan.

SCHEDULE: 1. Continuous contacts with Bureau officials. 2. Visits to selected missions to identify and formulate potential WASH assistance (October 1989 - September 1990).

SKILLS: Technical

PERSONNEL: WOC professional staff

FOLLOW-UP: Subsequent Activities for WASH assistance

S&T CONTACT: A.D. Long

LEVEL OF EFFORT IN DAYS

APPROVED BY: \_\_\_\_\_

FY90/TOTAL: 20 /20

DATE: \_\_\_\_\_

FY90 COST: 12,000

TOTAL COST: 12,000

FY90 BUYIN:

WASH III PROJECT FY 1990

TASK SHEET

BUREAU: Asia/Near East  
COUNTRY:  
QUARTER: 1

CODE: 90006  
TASK:

DATES: BEGIN 10/01/89  
FIELD  
END 09/30/90

---

TASK TITLE: A.I.D.: Asia/Near East Bureau Liaison

TASK MANAGER: Rosensweig

TASK ORIGIN: WASH III Contract

AUDIENCE: Asia/NE Bureau and associated missions

LOCATION: Washington, DC and related missions

OBJECTIVES: 1. Identify Bureau and Mission needs in the WS&S sector. 2. Inform Bureau and Mission officials of WASH resources. 3. Formulate preliminary WASH responses to Bureau and Mission needs. 4. Obtain information for WASH Annual Plan.

SCHEDULE: 1. Continuous contacts with Bureau officials. 2. Visits to selected missions to identify and formulate potential WASH assistance (October 1989 - September 1990).

SKILLS: Technical

PERSONNEL: WOC professional staff

FOLLOW-UP: Subsequent Activities for WASH assistance.

S&T CONTACT: A.D. Long

LEVEL OF EFFORT IN DAYS

APPROVED BY: \_\_\_\_\_

FY90/TOTAL: 20 /20

DATE: \_\_\_\_\_

FY90 COST: 12,000

TOTAL COST: 12,000

FY90 BUYIN:

WASH III PROJECT FY 1990

TASK SHEET

BUREAU: Latin America/Carrib  
COUNTRY:  
QUARTER: 1

CODE: 90007  
TASK:

DATES: BEGIN 10/01/89  
FIELD  
END 09/30/90

---

TASK TITLE: A.I.D.: Latin America/Caribbean Bureau Liaison

TASK MANAGER: Mattson

TASK ORIGIN: WASH III Contract

AUDIENCE: LAC Bureau and associated missions

LOCATION: Washington, DC and related missions

OBJECTIVES: 1. To identify Bureau and Mission needs in WS&S sector. 2. To inform Bureau and Mission officials of WASH resources. 3. To formulate preliminary WASH responses to Bureau and Mission needs. 4. To obtain information for WASH Annual Plan.

SCHEDULE: 1. Continuous contacts with Bureau officials. 2. Visits to selected missions to identify and formulate potential WASH assistance (October 1989 - September 1990).

SKILLS: Technical

PERSONNEL: WOC professional staff

FOLLOW-UP: Subsequent Activities for WASH

S&T CONTACT: A.D. Long

APPROVED BY: \_\_\_\_\_

DATE: \_\_\_\_\_

LEVEL OF EFFORT IN DAYS

FY90/TOTAL:	23 /23
FY90 COST:	12,000
TOTAL COST:	12,000
FY90 BUYIN:	

WASH III PROJECT FY 1990

TASK SHEET

BUREAU: Non-Regional Bureaus  
COUNTRY: USA  
QUARTER: 1

CODE: 90008  
TASK:

DATES: BEGIN 10/01/89  
FIELD  
END 09/30/90

---

TASK TITLE: Liaison with Non-Regional Bureaus

TASK MANAGER: Sarai

TASK ORIGIN: WASH III Contract

AUDIENCE: PPC, PVO, PRE Staff

LOCATION: Washington, DC

OBJECTIVES: 1. Provide technical input to non-regional bureau documents relating to WSS. 2. Assist in the method of developing field reference guides.

SCHEDULE: Periodic contacts with PPC staff

SKILLS: Technical

PERSONNEL: WOC professional staff

FOLLOW-UP: FY 91/91008

S&T CONTACT: A.D. Long

LEVEL OF EFFORT IN DAYS

APPROVED BY: \_\_\_\_\_

FY90/TOTAL: 15 /15

DATE: \_\_\_\_\_

FY90 COST: 10,000

TOTAL COST: 10,000

FY90 BUYIN:

WASH III PROJECT FY 1990

TASK SHEET

BUREAU: S&T/H/WVC  
COUNTRY: USA  
QUARTER: 1

CODE: 90009  
TASK:

DATES: BEGIN 10/01/89  
FIELD  
END 09/30/90

---

TASK TITLE: Collaboration with Non-AID Organizations

TASK MANAGER: Turner

TASK ORIGIN: WASH III Contract

AUDIENCE: International Development Community

LOCATION: Worldwide

OBJECTIVES: Establish & maintain working relationships, collaborative efforts & info exchange w/non AID organizations working on WS&S sector: PVO's, multi- & bi-lateral organizations, international organizations, LDC agencies, private sector organizations, etc.

SCHEDULE: 1. Develop list of key organizations and individuals to contact. 2. Meet with organizations and develop potential scope of work for WASH collaboration.

SKILLS: Knowledge of WASH, WS&S sector, international relations and development

PERSONNEL: WASH professional staff and qualified consultants

FOLLOW-UP: Mutual benefit in planning, implementing, and evaluating WS&S projects.

S&T CONTACT: A.D. Long

APPROVED BY: \_\_\_\_\_

DATE: \_\_\_\_\_

LEVEL OF EFFORT IN DAYS

FY90/TOTAL:	65 /65
FY90 COST:	40,000
TOTAL COST:	40,000
FY90 BUYIN:	

WASH III PROJECT FY 1990

TASK SHEET

BUREAU: S&T/H/WVC  
COUNTRY: USA  
QUARTER: 1

CODE: 90010  
TASK:

DATES: BEGIN 10/01/89  
FIELD To be determined  
END 09/30/90

---

TASK TITLE: WASH Staff Conference Participation

TASK MANAGER: Turner

TASK ORIGIN: WASH III Contract

AUDIENCE: International Development Community

LOCATION: U.S. and overseas

OBJECTIVES: 1. To participate as a presenter and/or participant in professional conferences. 2. To make contacts within the development community in promoting water/sanitation.

SCHEDULE: During each quarter a number of conferences and meetings will be attended by WASH Staff in the U.S. and overseas

SKILLS: Engineers, social scientists, public health specialists, trainers, information specialists.

PERSONNEL: WASH technical staff

FOLLOW-UP: None

S&T CONTACT: A.D. Long

APPROVED BY: \_\_\_\_\_

DATE: \_\_\_\_\_

LEVEL OF EFFORT IN DAYS

FY90/TOTAL:	35 /35
FY90 COST:	32,000
TOTAL COST:	32,000
FY90 BUYIN:	

WASH III PROJECT FY 1990

TASK SHEET

BUREAU: S&T/H/WVC  
COUNTRY: USA  
QUARTER: 1

CODE: 90011  
TASK:

DATES: BEGIN 10/01/89  
FIELD  
END 09/30/90

---

TASK TITLE: Task Development for Mission and Bureau Requests

TASK MANAGER: Turner

TASK ORIGIN: WASH III Contract; Discussions with S&T/H

AUDIENCE: USAID

LOCATION: Washington, DC

OBJECTIVES: Develop preliminary scopes of work and other documentation at the request of S&T/H/WVC to be used for mission and bureau requests.

SCHEDULE: As needed by S&T/H

SKILLS: WS&S

PERSONNEL: WOC staff

FOLLOW-UP: FY 91/91011

S&T CONTACT: A.D. Long

LEVEL OF EFFORT IN DAYS

APPROVED BY: \_\_\_\_\_

FY90/TOTAL: 200 /200

DATE: \_\_\_\_\_

FY90 COST: 100,000

TOTAL COST: 100,000

FY90 BUYIN:

## SECTION II

### MISSION AND BUREAU REQUESTS

Mission and bureau requests are tasks based on direct requests from A.I.D. missions and bureaus. These tasks are the result of a cable from S&T/H/WVC to A.I.D. bureaus and other communications requesting their input to this Annual Work Plan. The requested tasks contained in this plan have also been reviewed and approved on a preliminary basis by S&T/H/WVC.

This work plan contains a total of 22 tasks from missions and bureaus with an estimated budget of \$224,000 from S&T/H and includes 13 mission bureau buy-ins totaling \$1,103,000.

#### Unidentified Future Requests

In addition to the mission and bureau requests mentioned above, a budget of \$341,000 has been reserved for additional unidentified future requests for WASH assistance from A.I.D. missions and bureaus during FY 1990. This estimate is based on a review of requests received in previous years. Requests received and approved by S&T/H/WVC will be detailed in quarterly updates of this workplan.

<u>CODE</u>	<u>TITLE</u>	<u>S&amp;T FY90 COST</u>	<u>FY90 BUY-IN</u>
90012	BOLIVIA: Project Start-Up Workshop for Child Survival Project	\$24,000	0
90013	MALAWI: Willingness to Pay for Rural Maintenance Costs	0	\$50,000
90014	MALAWI: Technical Assistance to Ministry of Works and Ministry of Health	0	83,000
90015	ZAIRE: Evaluation	30,000	0
90016	ZAIRE: Project Amendment	0	40,000
90017	ZAIRE: O&M Study: Phases II & III	0	83,000
90018	ECUADOR: Technical Assistance to RWSS Project (Phase I)	0	250,000
90019	ECUADOR: T.A. to RHUDO/SA	0	225,000

<u>CODE</u>	<u>TITLE</u>	<u>S&amp;T FY90 COST</u>	<u>FY90 BUY-IN</u>
90020	ECUADOR: Project Start-Up Workshop	30,000	0
90021	INDONESIA: CARE Hygiene Study	25,000	0
90022	BELIZE: Technical Assistance	0	104,000
90023	HAITI: PVO Workshop on Child Survival	0	20,000
90024	WORLD VISION: African Water Program Assistance	40,000	0
90025	PEACE CORPS: Guinea Worm Project Start-Up Workshop	25,000	50,000
90026	LAC BUREAU: Update of WS&S Coverage Planning Documents	0	18,000
90027	COLLABORATIVE COUNCIL MEETING/HEALTH BENEFIT PRESENTATION: CEFIGRE France	15,000	0
90028	COLLABORATIVE COUNCIL MEETING: New Delhi, India	10,000	0
90029	1990 COMMITTEE MEETING/ADB MEETING	10,000	0
90030	TUNISIA: Health Education and Development of Women's Interest Groups	0	54,000
90031	TUNISIA: Consultancy on O&M Cost Estimation and Maintenance Management	0	74,000
90032	TUNISIA: Socio Economic Database for WUAs Survey Design	0	52,000
90033	PAHO: WASH Assistance to Symposium Puerto Rico	<u>15,000</u>	<u>0</u>
	Subtotal	224,000	
	Unidentified Future Requests	<u>241,000</u>	
	<b>Total Buy-In Funds</b>		<b>\$1,103,000</b>
	<b>Total S&amp;T/H Funds</b>	<b>\$565,000</b>	

WASH III PROJECT FY 1990

TASK SHEET

BUREAU: LAC  
COUNTRY: BOLIVIA  
QUARTER: 1

CODE: 90012  
TASK:

DATES: BEGIN 10/01/89  
FIELD 11/27/89-12/12/89  
END 03/31/90

---

TASK TITLE: BOLIVIA: Project Start-up Workshop for Child Survival Project

TASK MANAGER: Rosensweig

TASK ORIGIN: PIO/T 500-0000 06-3-80117, La Paz 07122

AUDIENCE: USAID, MOH, Contractor

LOCATION: Bolivia

OBJECTIVES: Conduct a project start-up workshop for new child survival project.

SCHEDULE: 1. Identify main issues.  
2. Conduct workshop.  
3. Write a report.

SKILLS: Facilitation

PERSONNEL: Bill Hanson, co-facilitator TBD

FOLLOW-UP:

S&T CONTACT: A.D. Long

LEVEL OF EFFORT IN DAYS

APPROVED BY: \_\_\_\_\_

FY90/TOTAL: 35 /35

DATE: \_\_\_\_\_

FY90 COST: 24,000

TOTAL COST: 24,000

FY90 BUYIN:

WASH III PROJECT FY 1990

TASK SHEET

BUREAU: AFR  
COUNTRY: MALAWI  
QUARTER: 1

CODE: 90013  
TASK:

DATES: BEGIN 11/01/89  
FIELD Nov-Dec89&Feb-Mar90  
END 04/30/90

---

TASK TITLE: MALAWI: Willingness to Pay for Rural Maintenance Costs

TASK MANAGER: Walker

TASK ORIGIN: Cable: Lilongwe 2635 - 05/10/89

AUDIENCE: USAID/Malawi, Government of Malawi

LOCATION: Various districts in Malawi

OBJECTIVES: To estimate rural households willingness to pay for the operation & maintenance of gravity-fed rural piped water schemes. The study to be based on a recent model for Tanzania using the contingent valuation methodology.

SCHEDULE: 1. Nov/Dec 1989: Pretests and carry out initial survey and present findings to USAID; 2. Feb/March 1990: Additional data collection & analysis; 3. April 1990: Report prep and finalization.

SKILLS: Economist/financial analyst; research assistant with experience of statistics.

PERSONNEL: UNC staff/RTI staff

FOLLOW-UP: TBD

S&T CONTACT: A.D. Long

APPROVED BY: \_\_\_\_\_

DATE: \_\_\_\_\_

LEVEL OF EFFORT IN DAYS	
FY90/TOTAL:	120 /120
FY90 COST:	50,000
TOTAL COST:	50,000
FY90 BUYIN:	50,000

WASH III PROJECT FY 1990

TASK SHEET

BUREAU: AFR  
COUNTRY: MALAWI  
QUARTER: 2

CODE: 90014  
TASK:

DATES: BEGIN 01/01/90  
FIELD TBD  
END 10/31/90

---

TASK TITLE: MALAWI: Technical Assistance to Ministry of Works and Ministry of Health

TASK MANAGER: Hafner

TASK ORIGIN: Lilongwe 02635

AUDIENCE: USAID/Malawi; PHICs; MOW; MOH; S&T/H/WVC

LOCATION: Malawi; Washington, DC

OBJECTIVES: Provide technical assistance in the areas of computer assisted design, manpower needs assessment, and information management systems.

SCHEDULE: TBD

SKILLS: Specialists in computer applications, HRD planning, and information systems.

PERSONNEL: TBD

FOLLOW-UP: TBD

S&T CONTACT: A.D. Long

LEVEL OF EFFORT IN DAYS

APPROVED BY: \_\_\_\_\_

FY90/TOTAL: 120 /120  
FY90 COST: 83,000  
TOTAL COST: 83,000  
FY90 BUYIN: 83,000

DATE: \_\_\_\_\_

WASH III PROJECT FY 1990

TASK SHEET

BUREAU: AFR  
COUNTRY: ZAIRE  
QUARTER: 4

CODE: 90015  
TASK:

DATES: BEGIN 07/10/90  
FIELD August 1990  
END 11/30/90

---

TASK TITLE: ZAIRE: Evaluation

TASK MANAGER: Roark

TASK ORIGIN: Kinshasa 06319

AUDIENCE: USAID/Zaire; ST/H/WVC

LOCATION: Zaire

OBJECTIVES: To undertake a final evaluation of Project 110 and a mid-term evaluation of Project 107-W. Both projects are involved in the improvement of water systems, and one is involved in construction of VIP latrines.

SCHEDULE: Both evaluations are scheduled for 4th Quarter 1990.

SKILLS: Experience in conducting project evaluations; knowledge of WS&S.

PERSONNEL: TBD

FOLLOW-UP: TBD

S&T CONTACT: A.D. Long

LEVEL OF EFFORT IN DAYS

APPROVED BY: \_\_\_\_\_

FY90/TOTAL: 40 /40

DATE: \_\_\_\_\_

FY90 COST: 30,000

TOTAL COST: 30,000

FY90 BUYIN:

WASH III PROJECT FY 1990

TASK SHEET

BUREAU: AFR  
COUNTRY: ZAIRE  
QUARTER: 1

CODE: 90016  
TASK:

DATES: BEGIN 10/15/89  
FIELD November 1989  
END 01/31/90

---

TASK TITLE: ZAIRE: Project Amendment

TASK MANAGER: Roark

TASK ORIGIN: Kinshasa 06319

AUDIENCE: USAID/Zaire; S&T/H/WVC

LOCATION: Zaire

OBJECTIVES: To assist USAID in drafting a project paper amendment including revised budgets, workplans, etc.

SCHEDULE: Design of PP to begin 1st quarter of FY 90.

SKILLS: Good writing skills and knowledge of PPs and AID procedures.

PERSONNEL: TBD

FOLLOW-UP: TBD

S&T CONTACT: A.D. Long

LEVEL OF EFFORT IN DAYS

APPROVED BY: \_\_\_\_\_

FY90/TOTAL: 55 /55

DATE: \_\_\_\_\_

FY90 COST: 40,000

TOTAL COST: 40,000

FY90 BUYIN: 40,000

WASH III PROJECT FY 1990

TASK SHEET

BUREAU: AFR  
COUNTRY: ZAIRE  
QUARTER: 1

CODE: 90017  
TASK:

DATES: BEGIN 11/01/89  
FIELD November 89  
END 09/30/90

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TASK TITLE: ZAIRE: O&M Study - Phases II and III

TASK MANAGER: Roark

TASK ORIGIN: Kinshasa 06319

AUDIENCE: USAID/Zaire; SNHR; SHABA; S&T/H/WVC

LOCATION: Zaire

OBJECTIVES: Field test the recommendations devel. under Phase I. This task will begin w/the operational test at selected sites & continue with follow-up visits. Present test results at a wkshp with the principal objective being endorsement of a nat'l policy.

SCHEDULE: Site visits and data collection to begin in January 1990. Workshop to take place in mid-1990.

SKILLS: Water resources engineer; Anthropologist

PERSONNEL: Alan Malina; Robert Hall

FOLLOW-UP: Phase III

S&T CONTACT: A.D. Long

APPROVED BY: \_\_\_\_\_

DATE: \_\_\_\_\_

LEVEL OF EFFORT IN DAYS

FY90/TOTAL: 160 /160  
FY90 COST: 83,000  
TOTAL COST: 83,000  
FY90 BUYIN: 83,000

WASH III PROJECT FY 1990

TASK SHEET

BUREAU: LAC  
COUNTRY: ECUADOR  
QUARTER: 1

CODE: 90018  
TASK:

DATES: BEGIN 12/01/89  
FIELD TBD  
END 11/30/90

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TASK TITLE: ECUADOR: Technical Assistance to RWSS Project (Phase I)

TASK MANAGER: Rosensweig

TASK ORIGIN: Quito 09679

AUDIENCE: IEOS

LOCATION: Ecuador

OBJECTIVES: Provide TA in various aspects of the project including hygiene education, community participation, institutional development

SCHEDULE: TBD

SKILLS: Hygiene education, project monitoring, community participation, O&M

PERSONNEL: TBD

FOLLOW-UP:

S&T CONTACT: A.D. Long

APPROVED BY: \_\_\_\_\_

DATE: \_\_\_\_\_

LEVEL OF EFFORT IN DAYS

FY90/TOTAL:	400 /800
FY90 COST:	250,000
TOTAL COST:	500,000
FY90 BUYIN:	250,000

WASH III PROJECT FY 1990

TASK SHEET

BUREAU: LAC  
COUNTRY: ECUADOR  
QUARTER: 1

CODE: 90019  
TASK:

DATES: BEGIN 10/01/89  
FIELD various  
END 12/31/91

---

TASK TITLE: ECUADOR: T.A. to RHUDO/SA

TASK MANAGER: Sarai

TASK ORIGIN: Buy-in; telcon WASH/RHUDO

AUDIENCE: USAID/Quito; RHUDO/SA; Nat. Shelter Delivery System Program;  
Gov. of Ecuador;lending institutions

LOCATION: Ecuador; Washington, DC

OBJECTIVES: WASH will assist in the inst. strengthening of BEDE & YEOS's  
capability to advise municipalities in the design,  
implementation & admin. of infra.systems; and strengthening of  
the tech.& financial mgmt capabilities of municipal infra.  
agencies.

SCHEDULE: Phase I - Improve project design & evaluation criteria (4  
separate tasks) Phase II - Strengthening Municipal Financial  
Management (3 separate tasks) May 1990 - September 1990.

SKILLS: Financial Analysts; Facilitators; Engineers

PERSONNEL: TBD

FOLLOW-UP: Three additional Phase II activities to be carried out in FY 91.

S&T CONTACT: A.D. Long

LEVEL OF EFFORT IN DAYS

APPROVED BY: \_\_\_\_\_

FY90/TOTAL: 200 /200  
FY90 COST: 225,000  
TOTAL COST: 310,000  
FY90 BUYIN: 225,000

DATE: \_\_\_\_\_

WASH III PROJECT FY 1990

TASK SHEET

BUREAU: LAC  
COUNTRY: ECUADOR  
QUARTER: 1

CODE: 90020  
TASK:

DATES: BEGIN 10/15/89  
FIELD 11/01-15/89  
END 01/31/90

---

TASK TITLE: ECUADOR: Project Start-up Workshop

TASK MANAGER: Rosensweig

TASK ORIGIN: Quito 09679

AUDIENCE: USAID/Quito and IEOS staff

LOCATION: Quito

OBJECTIVES: 1. Address key issues  
2. Develop a work plan for first year

SCHEDULE: TPM - early November; In-country prep - November; Workshop - November; Reporting - November.

SKILLS: Facilitator

PERSONNEL: TBD

FOLLOW-UP:

S&T CONTACT: A.D. Long

LEVEL OF EFFORT IN DAYS

APPROVED BY: \_\_\_\_\_

FY90/TOTAL: 40 /40

DATE: \_\_\_\_\_

FY90 COST: 30,000

TOTAL COST: 30,000

FY90 BUYIN:

WASH III PROJECT FY 1990

TASK SHEET

BUREAU: Asia/Near East  
COUNTRY: INDONESIA  
QUARTER: 1

CODE: 90021  
TASK:

DATES: BEGIN 10/01/89  
FIELD Oct/Nov 1989  
END 01/31/90

---

TASK TITLE: INDONESIA: CARE Hygiene Study

TASK MANAGER: Yacoob

TASK ORIGIN: Field request from CARE Indonesia; Jakarta 03443

AUDIENCE:

LOCATION: Java, Bali, and Nisa Tenggara, Barat

OBJECTIVES: Assist CARE to prepare a hygiene education strategy focused on water use, storage, and prevention of diarrhea.

SCHEDULE: November 1989

SKILLS: Social, Behavioral Scientist (WASH Contribution alone)

PERSONNEL: May Yacoob (WASH); Dan O'Brien (CARE RTA/OHC); Peggy Thorpe (CIDA - Community Participation Hygiene Education Staff)

FOLLOW-UP: NOTE: This task will be done in collaboration with CARE and CIDA. Each agency will contribute its own staff members to carry out assignment.

S&T CONTACT: A.D. Long

LEVEL OF EFFORT IN DAYS

APPROVED BY: \_\_\_\_\_

FY90/TOTAL: 30 /30

FY90 COST: 25,000

DATE: \_\_\_\_\_

TOTAL COST: 25,000

FY90 BUYIN:

WASH III PROJECT FY 1990

TASK SHEET

BUREAU: LAC  
COUNTRY: BELIZE  
QUARTER: 1

CODE: 90022  
TASK:

DATES: BEGIN 10/15/89  
FIELD TBD  
END 09/30/90

---

TASK TITLE: BELIZE: Technical Assistance

TASK MANAGER: Roark

TASK ORIGIN: Belize 02391

AUDIENCE: USAID/Belize; S&T/H/WVC

LOCATION: Belize

OBJECTIVES: Provide technical assistance in the areas of management of information systems, maintenance/inventory, hydrogeology, and water well drilling techniques:

SCHEDULE: TBD

SKILLS: MIS expert, maintenance inventory specialist, hydrogeologist, well driller

PERSONNEL: TBD

FOLLOW-UP: TBD

S&T CONTACT: A.D. Long

LEVEL OF EFFORT IN DAYS

APPROVED BY: \_\_\_\_\_

FY90/TOTAL: 168 /168

DATE: \_\_\_\_\_

FY90 COST: 104,000

TOTAL COST: 104,000

FY90 BUYIN: 104,000

WASH III PROJECT FY 1990

TASK SHEET

BUREAU: LAC  
COUNTRY: HAITI  
QUARTER: 1

CODE: 90023  
TASK:

DATES: BEGIN 10/01/89  
FIELD 11/89  
END 12/31/89

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TASK TITLE: HAITI: PVO Workshop on Child Survival

TASK MANAGER: Roark

TASK ORIGIN: Telecon Roark/Hafner/Eckerson

AUDIENCE: USAID/Port-au-Prince; PVOs

LOCATION: Haiti

OBJECTIVES: To explain to local PVOs the elements involved in Child Survival & to identify what each PVO can contribute to Haiti's c.s. efforts. The workshop results will be used to design a c.s. project which will involve many of the PVOs in Haiti.

SCHEDULE: 1. Design Workshop - early November 1989  
2. Conduct workshop - one week in mid-November 1989

SKILLS: Facilitator; child survival expert

PERSONNEL: TBD

FOLLOW-UP: TBD

S&T CONTACT: A.D. Long

LEVEL OF EFFORT IN DAYS-

APPROVED BY: \_\_\_\_\_

FY90/TOTAL: 34 /34  
FY90 COST: 20,000  
TOTAL COST: 20,000  
FY90 BUYIN: 20,000

DATE: \_\_\_\_\_

WASH III PROJECT FY 1990

TASK SHEET

BUREAU: FVA/PVC  
COUNTRY: 5 African Countries  
QUARTER: 1

CODE: 90024  
TASK:

DATES: BEGIN 10/01/89  
FIELD TBD  
END 09/30/90

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TASK TITLE: World Vision: African Water Program Assistance

TASK MANAGER: Hafner

TASK ORIGIN: WASH II, ACT 442, 447, 448

AUDIENCE: World Vision Staff

LOCATION: U.S. and Africa

OBJECTIVES: Provide on-going technical assistance to World Vision Africa Water Program staff in Africa and headquarters. T.A. could include evaluation and a review of a training strategy.

SCHEDULE: October - Develop plan - TBD

SKILLS: Trainer, Organizational Development Specialist; Engineer

PERSONNEL: David Yohalem; Dee Hahn-Rollins; Bob Gearheart

FOLLOW-UP: TBD

S&T CONTACT: A.D. Long

LEVEL OF EFFORT IN DAYS

APPROVED BY: \_\_\_\_\_

FY90/TOTAL: 60 /60

DATE: \_\_\_\_\_

FY90 COST: 40,000

TOTAL COST: 80,000

FY90 BUYIN:

WASH III PROJECT FY 1990

TASK SHEET

BUREAU: S&T/H; AFR  
COUNTRY: TOGO  
QUARTER: 1

CODE: 90025  
TASK:

DATES: BEGIN 10/15/89  
FIELD 01/20-30/90  
END 03/31/90

---

TASK TITLE: Peace Corps: Guinea Worm Project Start-up Workshop

TASK MANAGER: Hafner

TASK ORIGIN: TAS 065

AUDIENCE: Peace Corps Staff

LOCATION: Lome, Togo

OBJECTIVES: Assist P.C. in designing and implementing a project start-up workshop for 10 Peace Corps West Africa country staff and respective ministries. PC/W staff, AID staff, UNICEF, CDC, and Global 2000.

SCHEDULE: Design workshop - October 1989; Plan logistics - November-December 1989; Implement Workshop - January 22-26, 1990.

SKILLS: Workshop facilitator; P. C. Water/sanitation specialist

PERSONNEL: David Yohalem; Craig Hafner

FOLLOW-UP: TBD

S&T CONTACT: A.D. Long

LEVEL OF EFFORT IN DAYS

APPROVED BY: \_\_\_\_\_

FY90/TOTAL: 35 /35

DATE: \_\_\_\_\_

FY90 COST: 75,000

TOTAL COST: 75,000

FY90 BUYIN: 50,000

WASH III PROJECT FY 1990

TASK SHEET

BUREAU: LAC  
COUNTRY:  
QUARTER: 4

CODE: 90026  
TASK:

DATES: BEGIN 07/01/90  
FIELD None  
END 10/31/90

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TASK TITLE: LAC BUREAU: Update of WS&S Coverage Planning Documents

TASK MANAGER: Mattson

TASK ORIGIN: LAC Bureau; follow-on to TAS 073

AUDIENCE: LAC Bureau

LOCATION: Washington, DC

OBJECTIVES: To update the WS&S Coverage Planning Documents produced by WASH for the LAC Bureau in 1989/90.

SCHEDULE: Begin data collection July/August 1990. Revise and finalize WS&S Coverage Planning Documents by December 1990.

SKILLS: Good writing skills, familiarity with LAC Planning documents; data analysis.

PERSONNEL: David Ey

FOLLOW-UP: Document update for the next three years.

S&T CONTACT: A.D. Long

LEVEL OF EFFORT IN DAYS

APPROVED BY: \_\_\_\_\_

FY90/TOTAL: 40 /40

DATE: \_\_\_\_\_

FY90 COST: 18,000

TOTAL COST: 18,000

FY90 BUYIN: 18,000

WASH III PROJECT FY 1990

TASK SHEET

BUREAU: AFR & S&T/H  
COUNTRY: FRANCE  
QUARTER: 1

CODE: 90027  
TASK:

DATES: BEGIN 10/01/89  
FIELD 11/89  
END 12/31/89

---

TASK TITLE: Collaborative Council Meeting/Health Benefit Presentation:  
CEFIGRE: France

TASK MANAGER: Turner

TASK ORIGIN: 1990 Collaborative Council Meeting, May-June 1989

AUDIENCE: S&T/H

LOCATION: France

OBJECTIVES: Prepare presentation; present presentation on health benefits,  
participate in meeting.

SCHEDULE: Review - October-November; Presentation - late November

SKILLS: Expert in health benefits, WASH staff

PERSONNEL: Dr. Sandy Cairncross, Hafner

FOLLOW-UP: TBD

S&T CONTACT: A.D. Long

LEVEL OF EFFORT IN DAYS

APPROVED BY: \_\_\_\_\_

FY90/TOTAL: 20 /20

DATE: \_\_\_\_\_

FY90 COST: 15,000

TOTAL COST: 15,000

FY90 BUYIN:

WASH III PROJECT FY 1990

TASK SHEET

BUREAU: S&T/H  
COUNTRY: INDIA  
QUARTER: 4

CODE: 90028  
TASK:

DATES: BEGIN 08/01/90  
FIELD 09/90  
END 11/30/90

---

TASK TITLE: Collaborative Council Meeting: New Delhi, India

TASK MANAGER: Hafner

TASK ORIGIN: 1990 Collaborative Council meeting in May-June 1990

AUDIENCE: S&T/H

LOCATION: New Delhi, India

OBJECTIVES: Participate in meeting; represent WASH

SCHEDULE: Prepare materials in August; attend meeting in New Delhi - September.

SKILLS: WS&S specialist

PERSONNEL: J. Ellis Turner

FOLLOW-UP: TBD

S&T CONTACT: A.D. Long

APPROVED BY: \_\_\_\_\_

DATE: \_\_\_\_\_

LEVEL OF EFFORT IN DAYS

FY90/TOTAL:	15 /15
FY90 COST:	10,000
TOTAL COST:	10,000
FY90 BUYIN:	

WASH III PROJECT FY 1990

TASK SHEET

BUREAU: S&T/H  
COUNTRY: PHILIPPINES  
QUARTER: 1

CODE: 90029  
TASK:

DATES: BEGIN 04/01/90  
FIELD 05/90  
END 06/30/90

---

TASK TITLE: 1990 Committee Meeting/ADB Meeting

TASK MANAGER: Hafner

TASK ORIGIN: 1990 Committee Meeting (May-June 1989)

AUDIENCE: S&T/H

LOCATION: Manila, Philippines

OBJECTIVES: Participate in 1990 meeting

SCHEDULE: Prepare materials for presentation - April 1990; Travel and participate - May 1990.

SKILLS: WASH staff, WS&S expert

PERSONNEL: Ellis Turner

FOLLOW-UP: TBD

S&T CONTACT: A.D. Long

APPROVED BY: \_\_\_\_\_

DATE: \_\_\_\_\_

LEVEL OF EFFORT IN DAYS

FY90/TOTAL:	15 /15
FY90 COST:	10,000
TOTAL COST:	10,000
FY90 BUYIN:	

WASH III PROJECT FY 1990

TASK SHEET

BUREAU: ANE  
COUNTRY: TUNISIA  
QUARTER: 1

CODE: 90030  
TASK:

DATES: BEGIN 09/01/89  
FIELD September; December  
END 02/28/90

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TASK TITLE: TUNISIA: Health Education and Development of Women's Interest Groups

TASK MANAGER: Yacoob

TASK ORIGIN: PIO/T No.: 664-0337-3-60078

AUDIENCE: UAG and CTDA Staff; USAID/Tunis

LOCATION: Kasserine

OBJECTIVES: Help UAG/CTDA develop women's interest groups, and institutionalize them within selected WUA's; integrate health/hygiene activities.

SCHEDULE: September: Initial field trip; December: Follow-up field trip.

SKILLS: Social Scientist; Community Participation/Health; Fluent French/Arabic

PERSONNEL: One local social scientist; one health specialist.

FOLLOW-UP: TBD

S&T CONTACT: A.D. Long

LEVEL OF EFFORT IN DAYS

APPROVED BY: \_\_\_\_\_

FY90/TOTAL: 116 /116  
FY90 COST: 54,000  
TOTAL COST: 54,000  
FY90 BUYIN: 54,000

DATE: \_\_\_\_\_

WASH III PROJECT FY 1990

TASK SHEET

BUREAU: ANE  
COUNTRY: TUNISIA  
QUARTER: 1

CODE: 90031  
TASK:

DATES: BEGIN 10/01/89  
FIELD 10/89 - 12/89  
END 02/01/90

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TASK TITLE: TUNISIA: Consultancy on O&M Cost Estimation and Maintenance Management

TASK MANAGER: Roark

TASK ORIGIN: PIO/T No.: 664-0337-3-60078

AUDIENCE: USAID/Tunis and CTDA Staff

LOCATION: Kasserine and Tunis

OBJECTIVES: Help CTDA develop O&M cost estimates, operating budgets; Help Office of Water Point Maintenance develop maintenance plan for Kasserine.

SCHEDULE: October 1989 - December 1989: Field Trip for each objective

SKILLS: Engineer, O&M Specialist, French/Arabic fluency

PERSONNEL: 1 local engineer, 1 O&M specialist

FOLLOW-UP: TBD

S&T CONTACT: A.D. Long

LEVEL OF EFFORT IN DAYS

APPROVED BY: \_\_\_\_\_

FY90/TOTAL: 160 /160  
FY90 COST: 74,000  
TOTAL COST: 74,000  
FY90 BUYIN: 74,000

DATE: \_\_\_\_\_

WASH III PROJECT FY 1990

TASK SHEET

BUREAU: ANE  
COUNTRY: TUNISIA  
QUARTER: 2

CODE: 90032  
TASK:

DATES: BEGIN 11/01/89  
FIELD 11/89, 01/90-02/90  
END 04/01/90

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TASK TITLE: TUNISIA: Socio Economic Database for WUAs Survey Design

TASK MANAGER: Roark

TASK ORIGIN: PIO/T No.:664-0337-3-60078

AUDIENCE: UAG Staff: USAID/Tunis

LOCATION: Kasserine and Tunis

OBJECTIVES: Design Survey to provide socioeconomic database for WUAs to find suitable water user fee system.

SCHEDULE: November 1989: Field trip to Tunis  
Jan/Feb 1990: Field trip to Tunis

SKILLS: Social Scientist, Anthropologist, Fluent French/Arabic

PERSONNEL: 1 local Social Scientist, 1 Anthropologist

FOLLOW-UP: TBD

S&T CONTACT: A.D. Long

APPROVED BY: \_\_\_\_\_

DATE: \_\_\_\_\_

LEVEL OF EFFORT IN DAYS

FY90/TOTAL: 113 /113  
FY90 COST: 52,000  
TOTAL COST: 52,000  
FY90 BUYIN: 52,000

WASH III PROJECT FY 1990

TASK SHEET

BUREAU: S&T/H  
COUNTRY:  
QUARTER: 4

CODE: 90033  
TASK:

DATES: BEGIN 01/01/90  
FIELD 09/03-10/90  
END 10/31/90

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TASK TITLE: PAHO: WASH Assistance to Puerto Rico Symposium

TASK MANAGER: Rosensweig

TASK ORIGIN: S&T/H request

AUDIENCE: Decision-makers in WS&S in LAC Region

LOCATION: Puerto Rico

OBJECTIVES: 1. Assist PAHO in design and implementation of three-day symposium. 2. Assist PAHO in design and implementation of two-day meeting with sanitary engineer professors from North and South American Universities.

SCHEDULE: 1. Planning (January - August, 1990); 2. Symposium (September 5-7, 1990); 3. Sanitary Engineering Schools (September 8-9, 1990)

SKILLS: Facilitator

PERSONNEL: TBD

FOLLOW-UP:

S&T CONTACT: A.D. Long

LEVEL OF EFFORT IN DAYS

APPROVED BY: \_\_\_\_\_

FY90/TOTAL: 20 /20

DATE: \_\_\_\_\_

FY90 COST: 15,000

TOTAL COST: 15,000

FY90 BUYIN:

### SECTION III

#### PROACTIVE TASKS

Proactive tasks are the new initiatives proposed by WASH, which are intended to facilitate the achievement of A.I.D.'s objectives in the areas of community participation, hygiene education, health, institutional and human resource development, financial management, engineering, operations and maintenance, information, and cross-cutting within the water supply and sanitation sector.

A total of 29 new initiatives with a total estimated budget of \$610,000 is proposed by WASH for FY 1990. These initiatives were developed by CDM and its subcontractors with A.I.D. and other organizations active in the water and sanitation sector. Approximately 45 new initiatives were developed for consideration over a period of several months. The following were determined to be of highest priority.

<u>CODE</u>	<u>TITLE</u>	<u>FY 90 COST</u>
<b>COMMUNITY PARTICIPATION/HYGIENE EDUCATION</b>		
90034	Operational Manual for Hygiene Education Implementation	30,000
90035	Village Committee Manual for Financial Management	25,000
90036	Community Participation: Issues Paper in Peri-Urban (Housing)	15,000
<b>HEALTH</b>		
90037	Preliminary Development of Training Guide for Designing Integrated WS&S/Child Survival Projects	20,000
90038	Improve Database on WS&S Impacts	15,000
90039	Review Methodologies for Identification of Behaviors and Practices Which Contribute to WS&S Related Diseases	15,000
90040	Rapid Assessment of High Risk Groups with WS&S Related Diseases in Peri-Urban Areas	20,000

**ID/HRD**

90041	Guidelines for Evaluating Training	15,000
90042	Development of O&M Training Guide (Phase III)	17,000
90043	Development of a Training Guide for the Training of Trainers (Phase II)	14,000
90044	Guidelines for Selecting and Training Long-Term Advisors (Phase II)	8,000
90045	Institutional Framework for RWSS (Phase III)	40,000
90046	Development of Hygiene Education Training Guide (Phase II)	15,000
90047	Personnel Management	20,000
90048	Performance Problem-solving (Phase I)	20,000

**FINANCE**

90049	Economic Benefits of Improved WS&S	12,000
90050	WS&S Sector MIS Development	28,000
90051	Macroeconomic Benefits of WS&S Investments	30,000
90052	Institutional and Financial Implications of Privatization of Water Systems	30,000

**ENGINEERING**

90053	Water Use Variation in Demand (Phases II and III)	50,000
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**OPERATIONS AND MAINTENANCE (O&M)**

90054	Models of O&M Management	25,000
90055	Field Test of Maintenance Management Guidelines	16,000

**INFORMATION**

90056	Promotional Activities	22,000
90057	Lessons Learned Video (Phase I)	8,000
90058	Development of A.I.D.'s WS&S Database (Phase II)	10,000
90059	Technical Materials	10,000

**CROSS-CUTTING**

90060	Environmental Issues in the Water and Sanitation Sector	20,000
90061	Solid Waste Management Lessons and Experience	20,000
90062	What Makes Community Management Work	40,000

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<b>TOTAL</b>	<b>\$610,000</b>
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WASH III PROJECT FY 1990

TASK SHEET

BUREAU:  
COUNTRY:  
QUARTER: 1

CODE: 90034  
TASK:

DATES: BEGIN 10/01/89  
FIELD  
END 12/31/90

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TASK TITLE: Operational Manual for Hygiene Education Implementation

TASK MANAGER: Yacoob

TASK ORIGIN: WASH research meeting and retreat and follow-up on "What Makes Hygiene Education Successful".

AUDIENCE: Proj. staff resp. for super./impl. of HE programs, specific. those involved in programatic design.

LOCATION: USA

OBJECTIVES: Develop an operational action oriented manual to assist field staff in the identification and implementation of all steps required in hygiene education programs.

SCHEDULE: 1. Team Planning - Nov, 1989. 2. Review of Specific Steps - Jan, 1990. 3. Solicit Collaboration - Feb, 1990. 4. Draft for Review - Mar-Apr, 1990.

SKILLS: Social/behavioral scientist, hygiene educator, education specialist

PERSONNEL: Barbara Pillsbury, M. Yacoob, (Health Com).

FOLLOW-UP: Field test

S&T CONTACT: A.D. Long

LEVEL OF EFFORT IN DAYS

APPROVED BY: \_\_\_\_\_

FY90/TOTAL: 40 /40

DATE: \_\_\_\_\_

FY90 COST: 30,000

TOTAL COST: 30,000

FY90 BUYIN:

WASH III PROJECT FY 1990

TASK SHEET

BUREAU:  
COUNTRY:  
QUARTER: 0

CODE: 90035  
TASK:

DATES: BEGIN 10/01/89  
FIELD  
END 12/31/90

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TASK TITLE: Village Committee Manual for Financial Management

TASK MANAGER: Yacoob

TASK ORIGIN: WASH Retreat

AUDIENCE: Trainers, designers & implementors of community mngmnt,  
specifically ext. agents working w/community

LOCATION: USA

OBJECTIVES: Develop guidelines document that will provide community water  
committees with financial management skills required in the  
collection and disbursement of funds of improved facilities.

SCHEDULE: 1. Team Planning - Dec, 1989. 2. Mission Interest  
Solicitation - Jan-Feb, 1989. 3. Skill Area Identification -  
Mar, 1990. 4. Guidelines Formulation - Apr, 1990. 5.  
Finalization for Review - Jun, 1990.

SKILLS: Social Scientists, Anthropologist, financial management  
specialist

PERSONNEL: Yacoob, Bob Hollister (RTI), Tim Smith (RTI Consultant),  
(possible REACH project).

FOLLOW-UP: Field test

S&T CONTACT: A.D. Long

LEVEL OF EFFORT IN DAYS

APPROVED BY: \_\_\_\_\_

FY90/TOTAL: 30 /30

DATE: \_\_\_\_\_

FY90 COST: 25,000

TOTAL COST: 25,000

FY90 BUYIN:

WASH III PROJECT FY 1990

TASK SHEET

BUREAU:  
COUNTRY:  
QUARTER: 1

CODE: 90036  
TASK:

DATES: BEGIN 10/01/89  
FIELD  
END 12/31/90

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TASK TITLE: Community Participation: Issues Paper in Peri-urban (Housing)

TASK MANAGER: Yacoob

TASK ORIGIN: WASH retreat

AUDIENCE: Project planners

LOCATION: Washington, DC

OBJECTIVES: The objective of this issues paper is to outline the sociological considerations at the family level that will impact on implementation of C.P. in peri-urban context.

SCHEDULE: 1. Team Planning Meeting - Nov. 30, 1989. 2. Literature Search of UNICEF Cases and other donors - Jan-Feb, 1990. 3. Final Report for Review - Feb, 1990. 4. Finalization - Apr, 1990.

SKILLS: Social Scientist/Anthropologist

PERSONNEL: Attah, Gebrill (Atlanta University), Yacoob

FOLLOW-UP:

S&T CONTACT: A.D. Long

APPROVED BY: \_\_\_\_\_

DATE: \_\_\_\_\_

LEVEL OF EFFORT IN DAYS

FY90/TOTAL:	20 /20
FY90 COST:	15,000
TOTAL COST:	15,000
FY90 BUYIN:	

WASH III PROJECT FY 1990

TASK SHEET

BUREAU:  
COUNTRY:  
QUARTER: 0

CODE: 90037  
TASK:

DATES: BEGIN 03/01/90  
FIELD 07/90  
END 09/30/90

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TASK TITLE: Preliminary Development of a Training Guide for Designing Integrated WS&S/CS Project

TASK MANAGER: Burns

TASK ORIGIN: Int'l workshop linking WS&S to CS (6/89)

AUDIENCE: A.I.D. staff, senior decision makers, MOH

LOCATION: Washington, DC, one country TBD

OBJECTIVES: 1. Clarify factors which impede and enhance linkages. Refine and further develop strategies. 2. Define management approaches. 3. Develop a training guide for team leaders and managers.

SCHEDULE: 3/90: Review of materials and issues; 5/90: First draft; 7/90: Initial field testing; 9/90: Draft for review.

SKILLS: Institutional development, child survival and WS&S management

PERSONNEL: Burns, D. Edwards, S. Brahman, J. Newmann

FOLLOW-UP: Field test, technical paper.

S&T CONTACT: A.D. Long

APPROVED BY: \_\_\_\_\_

DATE: \_\_\_\_\_

LEVEL OF EFFORT IN DAYS

FY90/TOTAL: 30 /30  
FY90 COST: 20,000  
TOTAL COST: 20,000  
FY90 BUYIN:

WASH III PROJECT FY 1990

TASK SHEET

BUREAU:  
COUNTRY:  
QUARTER: 0

CODE: 90038  
TASK:

DATES: BEGIN 02/01/90  
FIELD  
END 11/30/90

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TASK TITLE: Improve Database on WS&S Impacts

TASK MANAGER: Burns

TASK ORIGIN: WS&S and Health Paper

AUDIENCE: Decision-makers, A.I.D., MOH, bi-lateral and multi-lateral agencies

LOCATION: Washington, DC

OBJECTIVES: 1. Establish relationship between improved WS&S and quality of life factors; quantify synergistic effect between WS&S & CS, incl. Female literacy. 2. Produce technical report.

SCHEDULE: 2/90: Identify data resources; 3/90: Computer runs; 4/90: first draft. 5/90: outside review; 9/90: final; 10/90: technical report.

SKILLS: Senior epidemiologist, demographer

PERSONNEL: Steve Esrey, research assistant

FOLLOW-UP:

S&T CONTACT: A.D. Long

APPROVED BY: \_\_\_\_\_

DATE: \_\_\_\_\_

LEVEL OF EFFORT IN DAYS

FY90/TOTAL: 25 /25  
FY90 COST: 15,000  
TOTAL COST: 15,000  
FY90 BUYIN:

WASH III PROJECT FY 1990

TASK SHEET

BUREAU:  
COUNTRY:  
QUARTER: 0

CODE: 90039  
TASK:

DATES: BEGIN 01/01/89  
FIELD  
END 06/30/90

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TASK TITLE: Rev. Methodologies for Ident. of Behaviors and Practices That Contribute to WS&S Related Diseases

TASK MANAGER: Burns

TASK ORIGIN: WASH 1990 Planning Meeting

AUDIENCE: Ministry Mid-level Management, A.I.D. Health Officers, Evaluators

LOCATION: USA

OBJECTIVES: 1. Compare KAP, focus groups and household observations for use in evaluation project planning, etc. 2. Describe issues related to data collection and analysis. 3. Interpret applicability of each methodology.

SCHEDULE: 1/90--TPM; 2/90--Document and literature review; 4/90--Draft for review; 6/90--Final

SKILLS: Experience in WS&S program design, evaluation & social mkt, design & conduct a KAP survey, household obs. and focus grou

PERSONNEL: Senior technical person in behavioral research, graduate research assistant.

FOLLOW-UP: Field trials: Egypt and Malawi.

S&T CONTACT: A.D. Long

LEVEL OF EFFORT IN DAYS

APPROVED BY: \_\_\_\_\_

FY90/TOTAL: 25 /25

DATE: \_\_\_\_\_

FY90 COST: 15,000

TOTAL COST: 15,000

FY90 BUYIN:

WASH III PROJECT FY 1990

TASK SHEET

BUREAU:  
COUNTRY:  
QUARTER:

CODE: 90040  
TASK:

DATES: BEGIN 02/01/90  
FIELD  
END 10/31/90

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TASK TITLE: Rapid Assessment of High Risk Groups with WS&S Related Diseases in Peri-Urban Areas

TASK MANAGER: Burns

TASK ORIGIN: FY 1990 Planning Meeting

AUDIENCE: AID and Ministry Project Managers Housing Office, S&T Health, Peri-Urban Communities

LOCATION: Washington, DC

OBJECTIVES: Phase I: Identify most common WS&S related diseases in peri-urban areas; Phase II: Develop rapid assessment methodologies for use by managers at the district level or below.

SCHEDULE: 2/90 TPM; 3/90 Review of Materials & Issues; 6/90 First Draft; 8/90 Review; 10/90 Final.

SKILLS: Epidemiologist, Dev. Country & WS/S Relational Diseases Expert

PERSONNEL:

FOLLOW-UP: Field Test (Egypt, Malawi, Pakistan, India)

S&T CONTACT: A.D. Long

LEVEL OF EFFORT IN DAYS

APPROVED BY: \_\_\_\_\_

FY90/TOTAL: 35 /35

DATE: \_\_\_\_\_

FY90 COST: 20,000

TOTAL COST: 20,000

FY90 BUYIN:

WASH III PROJECT FY 1990

TASK SHEET

BUREAU: S&T/H  
COUNTRY:  
QUARTER: 1

CODE: 90041  
TASK:

DATES: BEGIN 10/01/89  
FIELD  
END 04/30/90

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TASK TITLE: Guidelines for Evaluating Training

TASK MANAGER: Rosensweig

TASK ORIGIN: WASH II (ACT 517)

AUDIENCE: Donor and lending agency staff, LDC training officers

LOCATION: Washington, DC

OBJECTIVES: Complete the guidelines begun in FY89 under WASH II. Draft is ready for field testing.

SCHEDULE: 1. Arrange a field test (November 1989)  
2. Revise the guidelines (January-February 1990)  
3. Editing and production (May 1990)

SKILLS: Training evaluation

PERSONNEL: TBD

FOLLOW-UP: Field test will be funded as a separate task.

S&T CONTACT: A.D. Long

LEVEL OF EFFORT IN DAYS

APPROVED BY: \_\_\_\_\_

FY90/TOTAL: 30 /80

DATE: \_\_\_\_\_

FY90 COST: 15,000

TOTAL COST: 40,000

FY90 BUYIN:

WASH III PROJECT FY 1990

TASK SHEET

BUREAU: S&T/H  
COUNTRY:  
QUARTER: 1

CODE: 90042  
TASK:

DATES: BEGIN 10/01/89  
FIELD  
END 09/30/90

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TASK TITLE: Development of O&M Training Guide (Phase III)

TASK MANAGER: Rosensweig

TASK ORIGIN: WASH II (ACT 332)

AUDIENCE: O&M Field Personnel

LOCATION: Washington, DC

OBJECTIVES: Complete the training guide for O&M for RWSS begun in WASH II.  
Draft is ready for field testing

SCHEDULE: 1. Revise the training guide after pilot test (January-March 1990). 2. Editing and production (July-September 1990).

SKILLS: O&M specialist, trainer

PERSONNEL: Steve Joyce

FOLLOW-UP: The costs for this activity only covers development, editing, and production. A field test will be funded through a buy-in, if possible

S&T CONTACT: A.D. Long

APPROVED BY: \_\_\_\_\_

DATE: \_\_\_\_\_

LEVEL OF EFFORT IN DAYS

FY90/TOTAL:	30 /30
FY90 COST:	17,000
TOTAL COST:	17,000
FY90 BUYIN:	

WASH III PROJECT FY 1990

TASK SHEET

BUREAU: S&T/H  
COUNTRY:  
QUARTER: 2

CODE: 90043  
TASK:

DATES: BEGIN 02/01/89  
FIELD  
END 09/30/90

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TASK TITLE: Development of a Training Guide for the Training of Trainers  
(Phase II)

TASK MANAGER: Rosensweig

TASK ORIGIN: TAS 032

AUDIENCE: Ministries of Health, Rural Development, etc., and other  
government agencies involved in WS&S.

LOCATION: Washington, DC

OBJECTIVES: Complete the training guide begun in FY89

SCHEDULE: 1. Revise training guide after a pilot test (March-April 1990)  
2. Editing and production (May-July 1990).

SKILLS: TOT

PERSONNEL: Graeme Frelick

FOLLOW-UP:

S&T CONTACT: A.D. Long

APPROVED BY: \_\_\_\_\_

DATE: \_\_\_\_\_

LEVEL OF EFFORT IN DAYS

FY90/TOTAL:	25 /73
FY90 COST:	14,000
TOTAL COST:	14,000
FY90 BUYIN:	

WASH III PROJECT FY 1990

TASK SHEET

BUREAU: S&T/H  
COUNTRY:  
QUARTER: 1

CODE: 90044  
TASK:

DATES: BEGIN 10/01/89  
FIELD  
END 02/28/90

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TASK TITLE: Guidelines for Selecting and Training Long-term Advisors (Phase II)

TASK MANAGER: Rosensweig

TASK ORIGIN: TAS 041

AUDIENCE: Long-term TA teams, project designers, A.I.D. staff

LOCATION: Washington, DC

OBJECTIVES: Complete the test begun in FY 89.

SCHEDULE: 1. Complete first draft (October). 2. Revisions (November).  
3. Editing and publication (January 1990).

SKILLS: Training and technical assistance

PERSONNEL: J. McCaffery

FOLLOW-UP:

S&T CONTACT: A.D. Long

LEVEL OF EFFORT IN DAYS

APPROVED BY: \_\_\_\_\_

FY90/TOTAL: 13 /43

DATE: \_\_\_\_\_

FY90 COST: 8,000

TOTAL COST: 8,000

FY90 BUYIN:

WASH III PROJECT FY 1990

TASK SHEET

BUREAU: S&T/H  
COUNTRY:  
QUARTER: 3

CODE: 90045  
TASK:

DATES: BEGIN 04/01/90  
FIELD  
END 11/30/90

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TASK TITLE: Institutional Framework for RWSS (Phase III)

TASK MANAGER: Rosensweig

TASK ORIGIN: TAS 027

AUDIENCE: Donor and lending agency staff; senior decision-makers in LDC

LOCATION: Washington, DC

OBJECTIVES: Complete the task begun in FY 89. This phase will involve synthesizing lessons learned in the field report and writing the final document.

SCHEDULE: 1. Outline the document (April). 2. Write first draft (May-June). 3. Revisions (August). 4. Editing and publication (Sept.-Oct.).

SKILLS: Institutional Development

PERSONNEL: Dan Edwards, Ed Salt

FOLLOW-UP:

S&T CONTACT: A.D. Long

LEVEL OF EFFORT IN DAYS

APPROVED BY: \_\_\_\_\_

FY90/TOTAL: 55 /151

DATE: \_\_\_\_\_

FY90 COST: 40,000

TOTAL COST: 40,000

FY90 BUYIN:

WASH III PROJECT FY 1990

TASK SHEET

BUREAU: S&T/H  
COUNTRY:  
QUARTER: 1

CODE: 90046  
TASK:

DATES: BEGIN 10/01/89  
FIELD  
END 12/31/89

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TASK TITLE: Development of Hygiene Education Training Guide (Phase II)

TASK MANAGER: Rosensweig

TASK ORIGIN: ACT 417 (WASH II)

AUDIENCE:

LOCATION: Washington, DC

OBJECTIVES: Complete WASH training guide on hygiene education

SCHEDULE: Final revisions after Nigeria field test (October 1989).  
Editing and production (November-December)

SKILLS: Training materials developer

PERSONNEL: Graeme Frelick

FOLLOW-UP:

S&T CONTACT: A.D. Long

LEVEL OF EFFORT IN DAYS

APPROVED BY: \_\_\_\_\_

FY90/TOTAL: 30 /30

DATE: \_\_\_\_\_

FY90 COST: 15,000

TOTAL COST: 15,000

FY90 BUYIN:

WASH III PROJECT FY 1990

TASK SHEET

BUREAU: S&T/H  
COUNTRY:  
QUARTER: 2

CODE: 90047  
TASK:

DATES: BEGIN 01/01/90  
FIELD  
END 12/31/90

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TASK TITLE: Personnel Management

TASK MANAGER: Rosensweig

TASK ORIGIN: WASH III Project Start-up Workshop

AUDIENCE: Project Designers

LOCATION: Washington, DC

OBJECTIVES: Write a concept paper to define the key personnel management needs of WS&S institutions (e.g., career advancement, recruitment, selection, incentives, etc.)

SCHEDULE: 1. Determine key personnel management issues for atypical WS&S institutions; 2. Review existing documents on personnel management, both for LDC's and for U.S. institutions; 3. First draft; 4. Outside review; 5. Revisions.

SKILLS: Personnel Management

PERSONNEL: TBD

FOLLOW-UP:

S&T CONTACT: A.D. Long

LEVEL OF EFFORT IN DAYS

APPROVED BY: \_\_\_\_\_

FY90/TOTAL: 40 /40

DATE: \_\_\_\_\_

FY90 COST: 20,000

TOTAL COST: 20,000

FY90 BUYIN:

WASH III PROJECT FY 1990

TASK SHEET

BUREAU: S&T/H  
COUNTRY:  
QUARTER: 2

CODE: 90048  
TASK:

DATES: BEGIN 02/01/90  
FIELD  
END 09/30/90

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TASK TITLE: Performance Problem-solving (Phase I)

TASK MANAGER: Rosensweig

TASK ORIGIN: 1989 WASH Annual Planning Meeting

AUDIENCE: LDC Agency staff

LOCATION: Washington, D.C.

OBJECTIVES: 1. Develop a methodology for analyzing performance problems in the WS&S sector (Phase I). 2. Apply the methodology to causes of WS&S system failures.

SCHEDULE: PHASE I: 1. Review existing performance problem-solving methodologies. 2. Adapt methodology to WS&S. 3. Write first draft. PHASE 2: 1. Field test of methodology

SKILLS: Performance technology, O&M

PERSONNEL: TBD

FOLLOW-UP: FY 91 - Field test of methodology on O&M issues

S&T CONTACT: A.D. Long

LEVEL OF EFFORT IN DAYS

APPROVED BY: \_\_\_\_\_

FY90/TOTAL: 40 /80

DATE: \_\_\_\_\_

FY90 COST: 20,000

TOTAL COST: 40,000

FY90 BUYIN:

WASH III PROJECT FY 1990

TASK SHEET

BUREAU: S&T/H/WVC  
COUNTRY:  
QUARTER: 1

CODE: 90049  
TASK:

DATES: BEGIN 10/01/89  
FIELD  
END 06/30/90

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TASK TITLE: Economic Benefits of Improved Water Supply and Sanitation

TASK MANAGER: Walker

TASK ORIGIN: Completion of TAS 056

AUDIENCE: Policy makers in developing countries, international banks, and consulting engineering firms

LOCATION: UNC-Chapel Hill, and Washington, DC

OBJECTIVES: To complete the development of the methodology and detailed research designs required for quantifying the economic benefits of community water supply systems both urban and rural in LDCs

SCHEDULE: Complete work started under TASK 056; completion 6/30/89

SKILLS: Economics, planning, statistical analysis

PERSONNEL: UNC: Dale Whittington; graduate assistants

FOLLOW-UP: This step will enable WASH and/or other agencies to conduct further research on this subject.

S&T CONTACT: A.D. Long

LEVEL OF EFFORT IN DAYS

APPROVED BY: \_\_\_\_\_

FY90/TOTAL: 54 /54

DATE: \_\_\_\_\_

FY90 COST: 12,000

TOTAL COST: 12,000

FY90 BUYIN:

WASH III PROJECT FY 1990

TASK SHEET

BUREAU: S&T/H/WVC  
COUNTRY: USA  
QUARTER: 1  
CODE: 90050  
TASK:  
DATES: BEGIN 12/01/89  
FIELD  
END 04/30/90

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TASK TITLE: Water Supply and Sanitation Sector MIS Development

TASK MANAGER: Walker

TASK ORIGIN: Discussions at WASH. RTI

AUDIENCE: USAID Missions, Host country WS&S Agencies and Development Planners

LOCATION: Washington, DC; Research Triangle Inst.

OBJECTIVES: Country Level Management Information Systems on WS&S Sector data can be very useful for planning and implementing activities. WASH Task to spin off of RTI work in Nepal, link with CESI.

SCHEDULE: Research: Dec., 1989 and Jan., 1990. Writing: Jan. and Feb., 1990 Editing: March, 1990.

SKILLS: Management information systems, public administration

PERSONNEL: Dan Goetz and Hazel Ryon

FOLLOW-UP: Applying guidelines in various countries particularly those expressing interest such as Malawi and Belize.

S&T CONTACT: A.D. Long

APPROVED BY: \_\_\_\_\_

DATE: \_\_\_\_\_

LEVEL OF EFFORT IN DAYS

FY90/TOTAL:	50 /50
FY90 COST:	28,000
TOTAL COST:	28,000
FY90 BUYIN:	

WASH III PROJECT FY 1990

TASK SHEET

BUREAU:  
COUNTRY:  
QUARTER: 0

CODE: 90051  
TASK:

DATES: BEGIN 09/01/89  
FIELD  
END 06/30/90

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TASK TITLE: Macroeconomic Benefits of WS&S Investments

TASK MANAGER: Walker

TASK ORIGIN: FY 90 Planning Retreat

AUDIENCE: Developing country policy makers, donor agency program staff

LOCATION: Washington DC; Research Triangle Prk, NC

OBJECTIVES: Desk top research on aggregate, macroeconomic benefits to region or country of investment in WS&S. Companion to TAS 056 microeconomic benefits.

SCHEDULE: 1. Define benefits. 2. Review literature. 3. Develop field research designs. 4. Write state-of-art paper

SKILLS: Regional economics, urban-rural development

PERSONNEL: Dennis Rondinelli, Ron Johnson

FOLLOW-UP: Carry out field research in conjunction with TAS 056 microeconomic benefits

S&T CONTACT: A.D. Long

APPROVED BY: \_\_\_\_\_

DATE: \_\_\_\_\_

LEVEL OF EFFORT IN DAYS

FY90/TOTAL:	40 /40
FY90 COST:	30,000
TOTAL COST:	30,000
FY90 BUYIN:	

WASH III PROJECT FY 1990

TASK SHEET

BUREAU:  
COUNTRY:  
QUARTER: 0

CODE: 90052  
TASK:

DATES: BEGIN 10/01/89  
FIELD  
END 04/01/90

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TASK TITLE: Institutional and Financial Implications of Privatization of Water Systems

TASK MANAGER: Walker

TASK ORIGIN: Discussions with WOC Staff and A.I.D. Housing Office.

AUDIENCE: USAID, Project Officers, International donor agencies (IBRD)

LOCATION: Research Triangle Park & Wash., DC

OBJECTIVES: 1) Examine competitive techniques by local authorities to select contractors. 2) Determine the feasibility and desirability of privatization. 3) Approaches to structuring privatization transactions.

SCHEDULE: 1) Review of existing literature 2) Collection of documents and case materials piggy-backing on other field based visits (WASH and non-WASH); 3) Prepare Report on alternative methods and skills required of public sector officials to manage privatization.

SKILLS: Institution Development Specialist, Financial Management

PERSONNEL: Dennis Rondinelli, Stephen Pereira (RTI)

FOLLOW-UP:

S&T CONTACT: A.D. Long

LEVEL OF EFFORT IN DAYS

APPROVED BY: \_\_\_\_\_

FY90/TOTAL: 35 /35

DATE: \_\_\_\_\_

FY90 COST: 30,000

TOTAL COST: 30,000

FY90 BUYIN:

WASH III PROJECT FY 1990

TASK SHEET

BUREAU:  
COUNTRY:  
QUARTER: 0

CODE: 90053  
TASK:

DATES: BEGIN  
FIELD  
END

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TASK TITLE: Water Use Variation in Demand (Phases II and III)

TASK MANAGER: Mattson

TASK ORIGIN: Discussion at WASH and in North Carolina; TASK 60

AUDIENCE: Design engineers and planners

LOCATION: Tunisia, another Afr. country TBD; USA

OBJECTIVES: Collect additional data on variation in rural water demand in additional location, to build on work conducted in FY 1989.

SCHEDULE: 1. Start 1st quarter FY 1990. 2. Identify locations. 3. Develop/adapt measurement procedures. 4. Collect data. 5. Analyze, prepare report.

SKILLS: Water supply engineering

PERSONNEL: A. Wyatt, local engineers

FOLLOW-UP: TBD. Should lead into development of a handbook for storage tank and system design.

S&T CONTACT: A.D. Long

APPROVED BY: \_\_\_\_\_

DATE: \_\_\_\_\_

LEVEL OF EFFORT IN DAYS	
FY90/TOTAL:	25 /25
FY90 COST:	50,000
TOTAL COST:	50,000
FY90 BUYIN:	

WASH III PROJECT FY 1990

TASK SHEET

BUREAU: S&T/H/WVC  
COUNTRY:  
QUARTER: 1

CODE: 90054  
TASK:

DATES: BEGIN 10/01/89  
FIELD  
END 07/31/90

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TASK TITLE: Models of O&M Management

TASK MANAGER: Roark

TASK ORIGIN: WASH and USAID Mission interest

AUDIENCE: USAID Missions and Bureaus and LDC policy planners

LOCATION: Washington, DC and Burlington, VT

OBJECTIVES: To describe various O&M management policies and practices utilizing a case study approach and define features contributing to successful and unsuccessful O&M systems.

SCHEDULE: Overall framework for the analy. of O&M manag. systems will be dev. Series of case studies based as much as possible on the direct exp. of authors will be written within the framework developed. Concluding sec. of the document will analyze O&M exp's.

SKILLS: LDC water supply O&M management experience.

PERSONNEL: Hodgkin, Roark, Wyatt

FOLLOW-UP: Field studies may be required to supplement case study material.

S&T CONTACT: A.D. Long

LEVEL OF EFFORT IN DAYS

APPROVED BY: \_\_\_\_\_

FY90/TOTAL: 40 /40

FY90 COST: 25,000

DATE: \_\_\_\_\_

TOTAL COST: 25,000

FY90 BUYIN:

WASH III PROJECT FY 1990

TASK SHEET

BUREAU: S&T/H/WVC  
COUNTRY: TBD  
QUARTER: 1

CODE: 90055  
TASK:

DATES: BEGIN 10/01/89  
FIELD TBD  
END 06/30/90

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TASK TITLE: Field Test of Maintenance Management Guidelines

TASK MANAGER: Roark

TASK ORIGIN: WASH Activity 421

AUDIENCE: HC WS&S Agenices, USAID Missions

LOCATION: LDC country

OBJECTIVES: WASH developed guidelines on maint. management. Usefulness of guidelines and applicability of the systems proposed need to be field tested. Best way to do this would be actual adaptation and implementation in real country context, probably pilot scale.

SCHEDULE: 1) Identify site for field test. Nepal or Tunisia are good possibilities. 2) Conduct field test, and 3) Revise guidelines and disseminate.

SKILLS: Maintenance Management, Water Systems Engineering

PERSONNEL: A. Wyatt, RTI; J. Hodgkin, ARD; others

FOLLOW-UP:

S&T CONTACT: A.D. Long

LEVEL OF EFFORT IN DAYS

APPROVED BY: \_\_\_\_\_

FY90/TOTAL: 20 /20

DATE: \_\_\_\_\_

FY90 COST: 16,000

TOTAL COST: 16,000

FY90 BUYIN:

WASH III PROJECT FY 1990

TASK SHEET

BUREAU: S&T/H  
COUNTRY:  
QUARTER: 1

CODE: 90056  
TASK:

DATES: BEGIN 10/31/89  
FIELD  
END 03/30/90

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TASK TITLE: Promotional Activities

TASK MANAGER: Bendahmane

TASK ORIGIN: WASH Staff Retreat

AUDIENCE: The development community in the water and sanitation sector.

LOCATION: Washington, DC

OBJECTIVES: To promote the WASH Proj. & the benefits of WS&S to development thru capturing WASH "lessons learned" & extending the lessons-learned exercise, promoting key activities thru seminars, & updating & refining the WASH Cat, & produce a new WASH conf. display

SCHEDULE: Ongoing-October 1989 - March 1990

SKILLS: Knowledge of WASH operations, familiarity with promotional activities, skill in publications and writing.

PERSONNEL: WOC staff

FOLLOW-UP: None

S&T CONTACT: A.D. Long

LEVEL OF EFFORT IN DAYS

APPROVED BY: \_\_\_\_\_

FY90/TOTAL: 30 /30

DATE: \_\_\_\_\_

FY90 COST: 22,000

TOTAL COST: 22,000

FY90 BUYIN:

WASH III PROJECT FY 1990

TASK SHEET

BUREAU: S&T  
COUNTRY:  
QUARTER: 1

CODE: 90057  
TASK:

DATES: BEGIN 11/01/89  
FIELD  
END 03/31/90

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TASK TITLE: Lessons Learned Video (Phase I)

TASK MANAGER: Bendahmane

TASK ORIGIN: WASH III - FY90 Strategies/Tasks for Promotion

AUDIENCE: USAID: S&T/H, Regional Bureaus; other donors and contractors

LOCATION: Washington, DC

OBJECTIVES: Produce a "lessons learned" video to supplement and complement the Lessons Learned report.

SCHEDULE: Phase I: Planning for production - Q1 1990  
Phase II: Production of the video - Q3 1990

SKILLS: Information promotion, video technology, WS/S

PERSONNEL: Diane Bendahmane, ISTI staff, other WOC staff, video specialist

FOLLOW-UP:

S&T CONTACT: A.D. Long

APPROVED BY: \_\_\_\_\_

DATE: \_\_\_\_\_

LEVEL OF EFFORT IN DAYS

FY90/TOTAL:	15 /15
FY90 COST:	8,000
TOTAL COST:	8,000
FY90 BUYIN:	

WASH III PROJECT FY 1990

TASK SHEET

BUREAU: S&T/H  
COUNTRY:  
QUARTER: 0

CODE: 90058  
TASK:

DATES: BEGIN 10/01/89  
FIELD  
END 09/30/90

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TASK TITLE: Development of A.I.D.'s Computerized Water and Sanitation Database (Phase II)

TASK MANAGER: Campbell

TASK ORIGIN: WHO/Geneva

AUDIENCE: A.I.D. Washington and USAID Missions

LOCATION: Washington, DC

OBJECTIVES: 1. Complete development of water and sanitation database

SCHEDULE: Complete by end of FY 90.

SKILLS: Computer skills, database management.

PERSONNEL: D. Campbell, S. Brahman

FOLLOW-UP:

S&T CONTACT: A.D. Long

APPROVED BY: \_\_\_\_\_

DATE: \_\_\_\_\_

LEVEL OF EFFORT IN DAYS

FY90/TOTAL: 20 /20  
FY90 COST: 10,000  
TOTAL COST: 10,000  
FY90 BUYIN:

WASH III PROJECT FY 1990

TASK SHEET

BUREAU: S&T/H/WVC  
COUNTRY: USA  
QUARTER: 2

CODE: 90059  
TASK:

DATES: BEGIN 01/01/90  
FIELD  
END 07/01/90

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TASK TITLE: Technical Materials

TASK MANAGER: Bendahmane

TASK ORIGIN: WASH III Contract

AUDJENCE: Water supply designers, operators, and trainers

LO N: USA

OBJECTIVES: Develop basic technical materials for "training packages" on various subjects which might include such topics as disinfection, leak detection, and unaccounted for water.

SCHEDULE: TBD

SKILLS: Skill in publications and writing, knowledge of WS&S

PERSONNEL: WASH staff

FOLLOW-UP:

S&T CONTACT: A.D. Long

LEVEL OF EFFORT IN DAYS

APPROVED BY: \_\_\_\_\_

FY90/TOTAL: 35 /35

DATE: \_\_\_\_\_

FY90 COST: 10,000

TOTAL COST: 10,000

FY90 BUYIN:

WASH III PROJECT FY 1990

TASK SHEET

BUREAU: S&T/H  
COUNTRY:  
QUARTER: 1

CODE: 90060  
TASK:

DATES: BEGIN 02/01/90  
FIELD  
END 06/30/90

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TASK TITLE: Environmental Issues in the Water and Sanitation Sector

TASK MANAGER: Mattson

TASK ORIGIN: S&T/FEN and ANE Bureau

AUDIENCE: Project Designers, Administrators

LOCATION: USA

OBJECTIVES: Identify major environmental issues in the water and sanitation field for AID'S attention and to assist in project selection and design.

SCHEDULE: First half of 1990

SKILLS: Knowledge and experience in environmental problems in developing countries.

PERSONNEL: TBD

FOLLOW-UP: Can help identify future projects.

S&T CONTACT: A.D. Long

LEVEL OF EFFORT IN DAYS

APPROVED BY: \_\_\_\_\_

FY90/TOTAL: 50 /50

DATE: \_\_\_\_\_

FY90 COST: 20,000

TOTAL COST: 20,000

FY90 BUYIN:

WASH III PROJECT FY 1990

TASK SHEET

BUREAU: S&T/H/WVC  
COUNTRY:  
QUARTER: 1

CODE: 90061  
TASK:

DATES: BEGIN 10/01/89  
FIELD  
END 09/30/90

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TASK TITLE: Solid Waste Management Lessons and Experience

TASK MANAGER: Roark

TASK ORIGIN: S&T/H, WASH meeting

AUDIENCE: Donors, project design specialists

LOCATION:

OBJECTIVES: To identify research and experience already done in this area.  
Develop more precise areas for investigation of this sector

SCHEDULE: TBD

SKILLS: Environmental specialist, institution developist, social scientist, management specialists, health specialists

PERSONNEL: UNC, RTI, Atlanta U., Morehouse

FOLLOW-UP: More specific areas for investigation in specific areas.

S&T CONTACT: A.D. Long

LEVEL OF EFFORT IN DAYS

APPROVED BY: \_\_\_\_\_

FY90/TOTAL: 40 /40

DATE: \_\_\_\_\_

FY90 COST: 20,000

TOTAL COST: 20,000

FY90 BUYIN:

WASH III PROJECT FY 1990

TASK SHEET

BUREAU: S&T/H/WVC  
COUNTRY:  
QUARTER: 1

CODE: 90062  
TASK:

DATES: BEGIN 10/01/89  
FIELD TBD  
END 09/30/90

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TASK TITLE: What Makes Community Management Work?

TASK MANAGER: Hafner

TASK ORIGIN: TAS 025; WASH/World Bank collaboration on community management

AUDIENCE: Project planners

LOCATION: TBD

OBJECTIVES: To collect field data of various successful WS&S projects from World Bank and USAID. Develop critical factors/characteristics contributing to sustainable community managed projects. Develop guidelines for designing successful community managed projects

SCHEDULE: October 1989-90: Identify consultants, draft scope; December 1989-January 1990: Develop protocol, identify potential projects; February - June 1990: Gather data; July - August 1990: Refine protocol, draft guidelines.

SKILLS: Economists, institution development specialists and social scientists

PERSONNEL: Yacoob, Rosensweig, Hafner, Roark

FOLLOW-UP:

S&T CONTACT: A.D. Long

LEVEL OF EFFORT IN DAYS

APPROVED BY: \_\_\_\_\_

FY90/TOTAL: 65 /65

DATE: \_\_\_\_\_

FY90 COST: 40,000

TOTAL COST: 80,000

FY90 BUYIN:

## ANNEX

### A) WASH III Continuing Tasks

Listed below are 52 tasks initiated under WASH III, FY 1989 as of 20 September 1989, that will be continued and worked on in FY 1990. These tasks are in various stages of completion. Although no FY 1990 funds are budgeted or required for these tasks, they are included in this work plan because they will require management and administrative support from the WASH Operations Center.

TAS 012	WASH III Implementation
TAS 024	W.H.O. Collaboration in O&M
TAS 025	World Bank: Concept Paper on Community Management
TAS 027	Institutional Framework for RWSS
TAS 029	Progress Report No. 12
TAS 031	Guidelines for Rehabilitation to Sustain Rural Water Supply Systems
TAS 032	Development of a Training Guide for the Training of Trainers
TAS 035	The Relationship Between WS&S and Health: Synthesis of Existing Knowledge
TAS 036	ZAIRE: O&M Study of Water Systems
TAS 038	Background Paper: Strengthening Linkages Between WS&S and Child Survival
TAS 039	Private Sector Water Supply in Peri-urban Areas
TAS 040	Models for Institutionalization of Community Participation Programs
TAS 041	Guidelines for Selecting Long-term Advisors
TAS 042	Strategy for Developing a Training Capability
TAS 044	African Development Foundation: WS&S Guidelines for Staff and Communities
TAS 045	Peri-urban Information Network
TAS 046	Guinea Worm Disease Information Center
TAS 048	EGYPT: Pre-implementation Workshops for Cairo Water Authority
TAS 049	Enhancement of USAID's Computerized Registry of AID-funded Projects
TAS 052	Rainwater Harvesting Information Center
TAS 053	Collaboration with the Applied Diarrheal Disease Research Center
TAS 054	Brochure for WASH III
TAS 055	Dissemination of Information on WASH
TAS 056	Economic Benefits of Improved Water Supply and Sanitation
TAS 057	TUNISIA: Consultancy on Water Systems Design
TAS 058	Field Test of Guidelines for Conducting Financial Management Assessment
TAS 059	World Vision Collaboration
TAS 060	Variation in Rural Water Demand
TAS 063	Factors Affecting Mobilization for Rural Sanitation

TAS 064 RHUDO/ROCAP Central America Initiative  
 TAS 065 Peace Corps: Guinea Worm Project Coordination  
 TAS 066 Indicators and Methodologies for Evaluating  
 Community Participation  
 TAS 067 ECUADOR: Environmental Impact Report  
 TAS 068 TUNISIA: Task Planning for the UAG  
 TAS 069 TUNISIA: Action Plan for Water Users Association  
 TAS 070 Guidelines for Financial Planning of WS&S  
 Institutions  
 TAS 071 Technical Material on Water Loss and Leak  
 Detection  
 TAS 072 Alternatives for Capital Financing of WS&S  
 TAS 073 LAC Bureau: WS&S Coverage Planning Documents  
 TAS 075 WASH Update  
 TAS 076 BENIN: Management and Supervision Workshop  
 TAS 077 Lessons Learned: Final Production  
 TAS 078 Upgrading the Team Planning Meeting Guide  
 TAS 079 OMAN: Preliminary Groundwater Recharge  
 Investigation  
 TAS 080 ECUADOR: Coordination Activities for T.A. to  
 RHUDO  
 TAS 082 HAITI: Survey of PVO Capabilities  
 TAS 083 Cost-of-Illnesses Methodologies  
 TAS 084 EGYPT: Relationship Between WS&S and Diarrheal  
 Morbidity  
 TAS 085 ZAIRE: Visual Aids Specialist  
 TAS 086 EL SALVADOR: Environmental Impact Assessment  
 TAS 087 PERU: Evaluation of Peru Water Systems and  
 Environmental Projects  
 TAS 088 SWAZILAND: WS&S Sector Planning

**ANNEX**

**B) TASKS AWAITING FUNDING**

This section of the Annex contains 13 tasks for which no FY 90 funds have been allocated at this time. The tasks include specific mission, bureau, and PVO requests for WASH assistance, follow-on tasks, and new initiatives which have been placed on hold until additional funding sources can be identified.

<u>CODE</u>	<u>TITLE</u>	<u>FY90 COST</u>
<b>COMMUNITY PARTICIPATION/HYGIENE EDUCATION</b>		
90063	Creative Hygiene Education Tools for Children/Mothers/Community Health Workers	25,000
90064	Approaches for Community Involvement in Peri-Urban Water Supply Systems	11,000
90065	Community Water Committees Skills Development	22,000
<b>HEALTH</b>		
90066	Apply Methodologies for Identification of Behaviors Which Contribute to WS&S Related Diseases (Phase II)	20,000
<b>INSTITUTIONAL DEVELOPMENT/HRD</b>		
90067	Strategy for Promoting WASH ID/HRD Products	15,000
90068	Training Guide for Pump Selection	23,000
90069	Development of Training Guide on Management and Supervision	50,000

**FINANCE**

90070	Handbook on Water Billing Software	12,000
90071	Study Effects of Inflation, Structural Adjustment, and Economic Recession on Financial Resources of LDC Utility	25,000
90072	Field Research on Economic Benefits of WS&S	25,000
90073	Financing Strategies for Water Distribution in Peri-Urban Areas	30,000

**OPERATIONS AND MAINTENANCE (O&M)**

90074	Guidelines on Contract O&M	14,000
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**CROSS-CUTTING**

90075	Private Sector Participation in Peri-Urban Water Supply (Phase II)	20,000
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**TOTAL** **\$292,000**

WASH III PROJECT FY 1990

TASK SHEET

BUREAU: S&T/H/WVC  
COUNTRY:  
QUARTER: 1

CODE: 90063  
TASK:

DATES: BEGIN 10/01/89  
FIELD Future  
END 11/30/89

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TASK TITLE: Creative Hygiene Education Tools for Children/Mothers/and  
Community Health Workers

TASK MANAGER: Yacoob

TASK ORIGIN:

AUDIENCE: Mothers, children (age 3-10 years), community health workers

LOCATION: Any dev. country in need of hygiene educ

OBJECTIVES: 1. Provide strategies for creative educ. of young children,  
mothers & community health workers in principles of water safety  
& sanitation. 2. Develop educ. tools in the context of the  
culture which will offer a sustained impact. Integration w/est.  
CHP

SCHEDULE: Oct.- Nov.: Desk research/preparing script & book/contacting  
appropriate personnel/literature review

SKILLS: Institutional health, child development, hygiene, graphic  
artists and community development

PERSONNEL: Sharon Benoit; Nancy Schoellkopf (RTI)

FOLLOW-UP: Field test of strategies. Such a tool would lend itself to  
transferability to multi-countries, & would assist field staff  
in the implemen. of all steps required for Hyg. Ed. Program

S&T CONTACT: A.D. Long

APPROVED BY: \_\_\_\_\_

DATE: \_\_\_\_\_

LEVEL OF EFFORT IN DAYS

FY90/TOTAL:	30 /30
FY90 COST:	25,000
TOTAL COST:	25,000
FY90 BUYIN:	

WASH III PROJECT FY 1990

TASK SHEET

BUREAU: S&T/H/WVC  
COUNTRY:  
QUARTER: 2

CODE: 90064  
TASK:

DATES: BEGIN 01/01/90  
FIELD 03/01/90  
END 05/31/90

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TASK TITLE: Approaches for Community Involvement in Peri-urban Water Supply Systems

TASK MANAGER: Yacoob

TASK ORIGIN: WASH Activity in O&M in Peri-urban Areas

AUDIENCE: Designers and implementers of the CP and Hygiene Education components of peri-urban water supply

LOCATION: US and Sudan

OBJECTIVES: To develop appropriate community participation and hygiene education approaches for peri-urban populations based on the political, social, and income characteristics of peri-urban populations.

SCHEDULE: Literature review and field visit to the peri-urban areas of Khartoum Sudan during the first or second quarter of FY 90

SKILLS: Anthropologist/sociologist with CP/water supply experience

PERSONNEL: Dr. Alfred Waldstein

FOLLOW-UP: Possible rapid assessments of peri-urban populations in additional peri-urban areas

\$&T CONTACT: A.D. Long

LEVEL OF EFFORT IN DAYS

APPROVED BY: \_\_\_\_\_

FY90/TOTAL: 20 /20

DATE: \_\_\_\_\_

FY90 COST: 11,000

TOTAL COST: 11,000

FY90 BUYIN:

WASH III PROJECT FY 1990

TASK SHEET

BUREAU: S&T/H/WVC  
COUNTRY:  
QUARTER: 1

CODE: 90065  
TASK:

DATES: BEGIN 10/01/90  
FIELD  
END 03/31/90

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TASK TITLE: Community Water Committees Skills Development

TASK MANAGER: Yacoob

TASK ORIGIN: WASH Project Planning Meeting

AUDIENCE: USAID & Water Supply Implementing Agencies in LDCs

LOCATION: Burlington, VT

OBJECTIVES: Enhance participation of local organizations to operate and manage their rural water supply systems after construction or rehab. Guidelines will be developed that will lead to improved basic skills of local orgs. in resource mgmt and decision-making.

SCHEDULE: Review literature relevant to local organization development and synthesize lessons from development of water users associations -- first quarter FY 90. Draft guidelines -- second quarter FY 90.

SKILLS: Anthropologist/economist with water supply experience, engineer with community participation experience.

PERSONNEL: Dr. Alfred Waldstein and Dr. Robert Mohammed

FOLLOW-UP: Field test of guidelines on sites in LDCs where systems are to be constructed. Modify guidelines to more effectively address needs of the local population.

S&T CONTACT: A.D. Long

APPROVED BY: \_\_\_\_\_

DATE: \_\_\_\_\_

LEVEL OF EFFORT IN DAYS

FY90/TOTAL:	40 /40
FY90 COST:	22,000
TOTAL COST:	22,000
FY90 BUYIN:	

WASH III PROJECT FY 1990

TASK SHEET

BUREAU:  
COUNTRY:  
QUARTER: 0

CODE: 90066  
TASK:

DATES: BEGIN 07/01/90  
FIELD  
END 09/30/90

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TASK TITLE: Apply Methodologies for Iden. of Behaviors Which Contribute to WS&S Related Diseases (Phase II)

TASK MANAGER: Burns

TASK ORIGIN: 1990 WASH Planning Meeting

AUDIENCE: Mid-level Managers, A.I.D., MOH

LOCATION: Mali, Egypt, Guatemala or Bolivia

OBJECTIVES: 1. Conduct field studies applying three data collection methods. 2. Review, relate and compare results. 3. Interpret applicability of each methodology.

SCHEDULE: 5/90: Preparation of tools. 6/90: Field trials. 9/90: First draft. 10/90: Outside review. 11/90: Final draft.

SKILLS: Experience in design and conduct of KAP, household observation, focus grps, WS&S programs, evaluation social marketing.

PERSONNEL: Senior technical person in behavioral research, HEALTHCOM. Other to be determined.

FOLLOW-UP:

S&T CONTACT: A.D. Long

LEVEL OF EFFORT IN DAYS

APPROVED BY: \_\_\_\_\_

FY90/TOTAL: 0 / 0  
FY90 COST: 20,000  
TOTAL COST: 20,000  
FY90 BUYIN:

DATE: \_\_\_\_\_

WASH III PROJECT FY 1990

TASK SHEET

BUREAU: S&T/H  
COUNTRY:  
QUARTER: 3

CODE: 90067  
TASK:

DATES: BEGIN 04/01/90  
FIELD  
END 09/30/90

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TASK TITLE: Strategy for Promoting WASH ID/HRD Products

TASK MANAGER: Rosensweig

TASK ORIGIN: WASH III Project Start-up Workshop

AUDIENCE: Donors and lending agency staff and LDC training officers

LOCATION: Washington, DC

OBJECTIVES: 1. Increase the visibility and use of ID/HRD products developed by WASH

SCHEDULE: 1. Develop a strategy (April 1990); 2. Develop any products (June-August 1990).

SKILLS: Visual aids, writing

PERSONNEL: TBD

FOLLOW-UP:

S&T CONTACT: A.D. Long

APPROVED BY: \_\_\_\_\_

DATE: \_\_\_\_\_

LEVEL OF EFFORT IN DAYS

FY90/TOTAL:	25 /25
FY90 COST:	15,000
TOTAL COST:	15,000
FY90 BUYIN:	

WASH III PROJECT FY 1990

TASK SHEET

BUREAU: S&T/H/WVC  
COUNTRY:  
QUARTER: 1

CODE: 90068  
TASK:

DATES: BEGIN 10/01/89  
FIELD  
END 07/01/90

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TASK TITLE: Training Guide for Pump Selection

TASK MANAGER: Rosensweig

TASK ORIGIN: WASH Project and interest shown by Missions

AUDIENCE: LDC engineers, planners and policy makers

LOCATION: Burlington, VT

OBJECTIVES: Use the Pump Selection Manual as the basis for developing a training guide to examine the technology selection issues of issues of institutional capability, operation and maintenance requirements, economic analysis and technical capability.

SCHEDULE: Design and write a draft of a training guide first and second quarter FY90

SKILLS: Authors of the Pump Selection Manual and a trainer familiar with technical topics

PERSONNEL: Rick McGowan and Jonathan Hodgkin, trainer TBD

FOLLOW-UP: Pilot test, revise and publish a completed workshop guide.

S&T CONTACT: A.D. Long

LEVEL OF EFFORT IN DAYS

APPROVED BY: \_\_\_\_\_

FY90/TOTAL: 45 /65

DATE: \_\_\_\_\_

FY90 COST: 23,250

TOTAL COST: 28,250

FY90 BUYIN:

WASH III PROJECT FY 1990

TASK SHEET

BUREAU: S&T/H  
COUNTRY:  
QUARTER: 2

CODE: 90069  
TASK:

DATES: BEGIN 01/01/90  
FIELD  
END 09/30/91

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TASK TITLE: Development of Training Guide on Management and Supervision

TASK MANAGER: Rosensweig

TASK ORIGIN: TAS 043

AUDIENCE: LDC trainers of district level supervisors

LOCATION: Washington, DC

OBJECTIVES: Provide a training guide to use in conducting management and supervision workshops for district level supervisors of extension personnel who are responsible for WS&S activities

SCHEDULE:

SKILLS: Supervisory Training

PERSONNEL:

FOLLOW-UP:

S&T CONTACT: A.D. Long

LEVEL OF EFFORT IN DAYS

APPROVED BY: \_\_\_\_\_

FY90/TOTAL: 45 /90

DATE: \_\_\_\_\_

FY90 COST: 25,000

TOTAL COST: 50,000

FY90 BUYIN:

WASH III PROJECT FY 1990

TASK SHEET

BUREAU:  
COUNTRY:  
QUARTER: 0

CODE: 90070  
TASK:

DATES: BEGIN  
FIELD  
END

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TASK TITLE: Handbook on Water Billing Software

TASK MANAGER: Walker

TASK ORIGIN: WASH/RTI Finance Work

AUDIENCE: Local, Municipal and Regional Water Distribution Agencies

LOCATION: U.S.A.

OBJECTIVES: Produce an information handbook on available billing software for use in WS&S agencies. This handbook would help potential users evaluate the usefulness of such packages to their situation and aid in selection of software.

SCHEDULE: Collect information, manuals and demonstration software on commercially available billing packages. Collect any data on software in use in LDC's. Compile a handbook which describes experiences and outlines desirable software features.

SKILLS: System analysis, programming, writing user documentation.

PERSONNEL: D. L. Goetz, RTI; H. J. Ryon, RTI

FOLLOW-UP: TBD

S&T CONTACT: A.D. Long

APPROVED BY: \_\_\_\_\_

DATE: \_\_\_\_\_

LEVEL OF EFFORT IN DAYS

FY90/TOTAL:	20 /20
FY90 COST:	12,000
TOTAL COST:	12,000
FY90 BUYIN:	

WASH III PROJECT FY 1990

TASK SHEET

BUREAU:  
COUNTRY:  
QUARTER: 0

CODE: 90071  
TASK:

DATES: BEGIN 01/01/90  
FIELD  
END 05/01/90

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TASK TITLE: Study Effects of Inflation, Structural Adjustment & Econ. Recession on Fin. Resources of LDC Utility

TASK MANAGER: Walker

TASK ORIGIN: A perceived tendency in LCDs that O&M suffers for various reasons.

AUDIENCE: Project managers, financial directors of water utilities and sewerage companies.

LOCATION: North Carolina, USA

OBJECTIVES: To measure effects of inflation and economic recession on investment alternatives of water utility companies. To understand and evaluate the financial effects on the structure financial resources.

SCHEDULE: 1) Review existing literature, 2) Collect and analyze data, 3) Develop report and findings.

SKILLS: Financial and cost accounting, O&M cost data collection.

PERSONNEL: Stephen Pereira, Alan Wyatt (RTI)

FOLLOW-UP: Develop guidelines and techniques, field test and disseminate findings.

S&T CONTACT: A.D. Long

APPROVED BY: \_\_\_\_\_

DATE: \_\_\_\_\_

LEVEL OF EFFORT IN DAYS	
FY90/TOTAL:	45 /45
FY90 COST:	25,000
TOTAL COST:	25,000
FY90 BUYIN:	

WASH III PROJECT FY 1990

TASK SHEET

BUREAU:  
COUNTRY:  
QUARTER: 0

CODE: 90072  
TASK:

DATES: BEGIN  
FIELD  
END

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TASK TITLE: Field Research on Economic Benefits of WS&S (TAS 056 follow-on)

TASK MANAGER: Walker

TASK ORIGIN: Follow-on TAS 056

AUDIENCE: Developing country policy makers, donor agency program staff

LOCATION: country to be determined

OBJECTIVES: Carry out field research to demonstrate empirically the micro and macroeconomic benefits of WS&S investment.

SCHEDULE: 1. Identify country and local support staff. 2. Identify partial buy-in. 3. Field data collection. 4. Analysis and report.

SKILLS: Economics, urban-rural development

PERSONNEL: Dale Whittington, UNC; Dennis Rondinelli, RTI

FOLLOW-UP:

S&T CONTACT: A.D. Long

LEVEL OF EFFORT IN DAYS

APPROVED BY: \_\_\_\_\_

FY90/TOTAL: 160 /160

DATE: \_\_\_\_\_

FY90 COST: 25,000

TOTAL COST: 25,000

FY90 BUYIN: 25,000

WASH III PROJECT FY 1990

TASK SHEET

BUREAU:  
COUNTRY:  
QUARTER: 0

CODE: 90073  
TASK:

DATES: BEGIN  
FIELD  
END

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TASK TITLE: Financing Strategies for Water Distribution in Peri-Urban Areas

TASK MANAGER: Walker

TASK ORIGIN: Discussions at RTI, with USAID Housing Office and USAID/Senegal.

AUDIENCE: Managers of urban water supply agencies, municipal managers, host country planners, donor agencies.

LOCATION: USA

OBJECTIVES: Agencies or municipalities which wish to extend water lines into peri-urban areas are often blocked due to lack of capital resources and difficulties recovering costs in peri-urban areas. Often to provide some service a few standposts are installed and

SCHEDULE: 1) collect infor./case study mater. (Indonesia, Senegal, Ivory Coast); 2) analyze diff. finan. strategies; 3) synthesize exp. to arrive at criteria for strat. selection; 4) develop easy to use decision tools; 5) prepare and disseminate report.

SKILLS: Finance, water supply engineering, management

PERSONNEL: S. Pereira, A. Wyatt, RTI

FOLLOW-UP: Field Application in one or more pilot countries; Senegal a likely candidate as need has been identified and USAID Mission has shown some interest.

S&T CONTACT: A.D. Long

LEVEL OF EFFORT IN DAYS

APPROVED BY: \_\_\_\_\_

FY90/TOTAL: 45 /45

FY90 COST: 30,000

DATE: \_\_\_\_\_

TOTAL COST: 30,000

FY90 BUYIN:

WASH III PROJECT FY 1990

TASK SHEET

BUREAU:  
COUNTRY:  
QUARTER: 0

CODE: 90074  
TASK:

DATES: BEGIN  
FIELD  
END

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TASK TITLE: Guidelines on Contract O&M

TASK MANAGER: Roark

TASK ORIGIN: Various WASH activities, discussions among WASH

AUDIENCE: H.C. Agency Staff, policymakers, USAID Missions

LOCATION: USA

OBJECTIVES: Contract O&M is an interesting option for improving service and reducing cost. However, the nature of the contracting arrangement is very important for ensuring success. A contract must assure that the agency gets the cost and performance it wants, and

SCHEDULE: 1. Collect contracts and contracting guidelines. 2. Analyze and synthesize. 3. Prepare report with guidelines. 4. Disseminate.

SKILLS: Operations and Maintenance, Management

PERSONNEL: A. Wyatt, RTI; H.P Minis, RTI

FOLLOW-UP: Dissemination

S&T CONTACT: A.D. Long

LEVEL OF EFFORT IN DAYS

APPROVED BY: \_\_\_\_\_

FY90/TOTAL: 20 /20

DATE: \_\_\_\_\_

FY90 COST: 12,000

TOTAL COST: 12,000

FY90 BUYIN:

WASH III PROJECT FY 1990

TASK SHEET

BUREAU: S&T/H/WVC  
COUNTRY: TBD  
QUARTER: 3

CODE: 90075  
TASK:

DATES: BEGIN 01/01/90  
FIELD 04/01/90-05/15/90  
END 07/31/90

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TASK TITLE: Private Sector Participation in Peri-Urban Water Supply (Phase II)

TASK MANAGER: Hafner

TASK ORIGIN: Continuation FY89 activity, interest expressed by PRE Bureau, and Missions

AUDIENCE: Planners and policy makers, USAID Missions

LOCATION: TBD (Zaire/Malawi/Tunisia/Sudan/Belize)

OBJECTIVES: To field test propositions developed on phase one of the activity about institutional arrangements adapted to encourage greater user participation in peri-urban water supply operation and maintenance.

SCHEDULE: Commence with the refinement of a field instrument for gathering field data. Follow with an extended field trip to 3 study sites for data collection. Complete with preparation of case studies and analysis of results and a peer review of the document.

SKILLS: WS&S eng. comp. & emphasis on small-scale sys.; expertise in inst. analysis concerning peri-urban water supply, communit

PERSONNEL: Dr. Jamie Thomson, Dr. Alfred Waldstein and Engineer Jonathan Hodgkin

FOLLOW-UP: Distribution of report, oral presentation

S&T CONTACT: A.D. Long

LEVEL OF EFFORT IN DAYS

APPROVED BY: \_\_\_\_\_

FY90/TOTAL: 100 /100

DATE: \_\_\_\_\_

FY90 COST: 20,000

TOTAL COST: 20,000

FY90 BUYIN: