

Ministry of Water Resources and Irrigation  
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**APRP – Water Policy Activity  
Contract PCE-I-00-96-00002-00  
Task Order 807**

**QUARTERLY REPORT**

**(APRIL-JUNE 2001)**

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**QUARTERLY REPORT  
(APRIL-JUNE 2001)**

**TABLE OF CONTENTS**

<b>I.</b>	<b>SUMMARY .....</b>	<b>3</b>
	SPECIFIC ACCOMPLISHMENTS- TRANCHE IV, PHASE II BENCHMARKS:.....	4
	SPECIFIC ACCOMPLISHMENTS-TRANCHE V BENCHMARKS .....	6
	STUDIES AND BENCHMARK RELATED ACTIVITIES .....	7
<b>II.</b>	<b>ACCOMPLISHMENTS DURING THE REPORT PERIOD.....</b>	<b>9</b>
	BENCHMARK SUPPORT-TRANCHE IV, PHASE II .....	9
	BENCHMARK SUPPORT-TRANCHE V .....	14
	STUDIES & BENCHMARK RELATED ACTIVITIES .....	19
	WORKSHOPS .....	20
	APRP/EPIQ COORDINATION .....	21
	REPORTS .....	22
<b>III.</b>	<b>ACTIVITIES PLANNED FOR NEXT QUARTER.....</b>	<b>23</b>
	BENCHMARK SUPPORT-TRANCHE IV, PHASE II .....	23
	BENCHMARK SUPPORT-TRANCHE V .....	25
	STUDIES AND BENCHMARK RELATED ACTIVITIES .....	27
<b>IV.</b>	<b>PROBLEMS AND ISSUES.....</b>	<b>28</b>
<b>V.</b>	<b>IMPORTANT TRIPS, VISITS AND MEETINGS .....</b>	<b>30</b>
<b>VI.</b>	<b>STAFF LEVEL OF EFFORT.....</b>	<b>36</b>
<b>VII.</b>	<b>STATUS OF FINANCES AND EXPENDITURES .....</b>	<b>38</b>
<b>VIII.</b>	<b>LIST OF REPORTS .....</b>	<b>39</b>

## I. SUMMARY

The EPIQ Water Policy Reform Program (Contract PCE-I-00-96-00002-00, Task Order 807) is responsible for advising and providing technical assistance to the Ministry of Water Resources and Irrigation (MWRI) of the Government of Egypt (GOE) with respect to improved policy assessment and planning, improved irrigation system management, and improved private sector participation. EPIQ is a component of the USAID Agricultural Policy Reform Program (APRP). EPIQ team members successfully completed Phase I of the Tranche IV Benchmarks and are currently implementing work plan activities related to the Tranche IV Phase II and Tranche V Benchmarks.

The Memorandum of Understanding (MOU) for Tranche IV was signed on 20 September 1999 and included four, two-year water policy benchmarks. These are:

- C.1. Reducing Mismatch of Irrigation Deliveries (since renamed Matching Irrigation Supplies with Demand)
- C.2. Urban Wastewater and Drainage Reuse.
- C.4. Irrigation Management Transfer.
- C.5. Revision of Law 12/1984 on Irrigation and Drainage.

Not listed above is Benchmark C.3, which was included in Tranche IV as a one-year benchmark and it was successfully completed in December 2000. The MWRI has sole responsibility for three of these benchmarks (C.2, C.4, C.5). The remaining benchmark (C.1 Mismatching) is a joint benchmark with the MALR. The benchmarks are multi-year benchmarks, which means they required partial completion in Phase 1 (December 2000) and final completion in Phase II (December 2001). One of the benchmarks is being coordinated by WPAU (C.5), two of the benchmarks are being coordinated by EPIQ (C.2, C.4); and EPIQ/RDI/PMU are jointly coordinating one benchmark (C.1).

The Tranche V MOU was not approved and signed at the end of the reporting period. The final draft Tranche V MOU contains three water policy benchmarks as follows:

- C.1 Integrated Water Management District
- C.2 Public Participation in Decision Making
- C.3 Environmental Management at MWRI

A joint decision was taken by USAID/EPIQ/WPAU early in the reporting period to proceed with the Tranche V benchmark work plan despite the lack of an approved MOU. The work plan was prepared and presented to the Steering Committee at a workshop held on 23-24 February. The Committee approved the work plan contingent on the final wording of the approved MOU.

**Specific accomplishments- Tranche IV, Phase II Benchmarks:**

***C.1. Matching Irrigation Supplies with Demands:***

The water monitoring programs that began March 1, 2000, continued in each of the five pilot districts and detailed analysis of these data was started. MWRI placed purchase orders for 30 planimeters and EPIQ purchased one. The EPIQ planimeter was delivered to the project in early June and is being used to train MWRI field staff. It is expected that the MWRI planimeters will be delivered at the start of the next reporting period. They are needed in each irrigation district to determine accurate command areas. A video was planned and developed for use in the MISD awareness program. MWRI purchased computers for the 26 new districts and conducted basic computer training courses for these district engineers. The EPIQ Computer Training Specialist and Irrigation Scheduling Specialist both began work during the quarter. The Computer Training Specialist completed an assessment of computer capabilities of staff in the irrigation districts. Subsequently, he prepared a training program on advanced computer skills directly related to MISD activities. This training effort was started and is being conducted in the District offices. The EPIQ Irrigation Scheduling Specialist began developing a simple tool for use by the district engineer to calculate crop consumptive use in the

branch canals within the district according to the semimonthly MALR cropping data. This tool could also be used in scheduling water deliveries.

### ***C.2. Urban Wastewater and Drainage Reuse***

The benchmark Working Group met regularly and all five pilot programs were initiated and actively pursued during the reporting period. In addition to the WG meetings, key WG members held numerous coordination meetings with individual pilot implementation teams and conducted a number of field trips. During one of these field trips, (to Pilot No. 3, utilization of treated wastewater to irrigate ornamental trees in urban areas) it was determined that the proposed area of tree planting did not meet the original selection criteria. The trip was extended to survey an alternative site and a decision was taken to shift this pilot effort to a new location that was much superior to the original location. The first of two public awareness workshop related to pilot No. 4, Health Concern Related to Irrigation with Treated Wastewater was successfully conducted during the reporting period.

### ***C.4. Irrigation Management Transfer:***

The MWRI IMT Benchmark Working Group, and the IMT Steering Committee (chaired by Eng. Gamil Mahmoud), both established specifically for this benchmark program, continued to play major roles in all activities and decisions. The IMT working group is comprised of the EPIQ Senior Sociologist (task manager), representation from the WPAU (Eng. Nasser Ezzat, Eng. Amira El Diasty, Eng. Moemen El Sharkawy), EPIQ Consultants Abdel Rahman Shalaby, MED (Eng. Ali Khalil Mohamed), IAS (Eng. Essam Barakat), EPADP (Dr. Mahmoud Moustafa), and the Horizontal Expansion sector (Dr. Tarek Abdallah Ahmed). Major benchmark activities initiated during the previous quarter were continued in accordance with the established official work plan. During this quarter a number of major field and policy formulation activities were initiated in support of the benchmark objectives. The second phase of the IMT Physical Rehabilitation exercise was started during this period, and is expected to be completed by September 15, with submission of final designs and tender documents. The IMT scio-economic baseline survey was submitted and is undergoing final editing prior to publication and

dissemination. Memoranda of Understanding (MOUs) between the BCWUAs and MWRI were officially signed by the MWRI and the BCWUA chairman of South Tahrir (Beheira), El Nazl (Dakahliya) and El Shabab (Sharkeya) pilot areas at a ceremony held in Mansoura. As part of the IMT planning process, multiple stakeholder focus group meetings were held in the selected pilot program areas. The plan for a study tour to Turkey as the second part of the IMT international exposure process was approved by USAID and negotiations are currently underway between the Turkish authorities and DT-2 (the USAID training provider). Nomination of participants is pending with MWRI. A major Public Awareness Campaign for the IMT benchmark was started during this period and will be complete during the next quarter, and will include prototype materials for a comprehensive public awareness campaign package. A proposal was drafted to design an MWRI monitoring and evaluation (M&E) system for the IMT program.

### ***C.5 Revision of Law 12/1984 on Irrigation and Drainage***

The benchmark working group met regularly during the reporting period. The first draft of the Executive Regulations to accompany the revised law was completed. Meetings were held with key personnel from MWRI to clarify questions regarding the draft law and to solicit feedback regarding the draft. A detailed final review of the proposed draft law and its executive regulations was started.

## **Specific Accomplishments-Tranche V Benchmarks**

### ***C.1. Integrated Water Management District***

The previously developed list of criteria for selection of pilot districts was modified to include at least one district having an established water board. From the seven irrigation districts nominated, two pilot IWMDs were selected: Ibrahimia District in West Sharkeya Directorate and South Zifta District in Menoufia Directorate. The concurrence of H.E. Minister Mahmoud Abu-Zeid was obtained. Boundaries of the irrigation and drainage districts were adjusted in the two pilots to give more complete matching of irrigation and drainage boundaries. One local and two expatriate STTA positions were filled. The computer capabilities and training needs of staff in each pilot district were assessed and a

training program was planned. Computers were placed in each of the two pilot IWMD offices. Assessment of present conditions and practices in each pilot district was begun. An IWMD workshop was planned for July in Port Said.

### ***C.2. Public Participation in Decision-Making (PP)***

The benchmark working group continued to hold regular meetings. The main focus of the groups efforts during the reporting period was on the continuation of the Pilot Demonstration Study that was initiated in the previous quarter. The local MWRI staff (Gharbiya Directorate) identified to participate in the demonstration were provided with training to prepare them to conduct their assigned tasks. Stakeholder focus group meetings and individual interviews were conducted. A one-day stakeholder meeting was conducted to present a summary of the focus group meetings and interviews to all interested stakeholders. A stakeholder workshop was held to reach agreement on issues and criteria for defining and evaluating alternative solutions. A team of MWRI engineers conducted a detailed survey of the two canals included in the pilot demonstration to obtain technical data for designing alternative solutions.

### ***C.3 Environmental Management at MWRI***

The benchmark working group met regularly during the reporting period. The group was finalized during the period with the addition of Dr. Abul Azm, Head of EIA Central Department of EEAA. A detailed survey of MWRI was conducted in order to assess organizational structure, past experience, resources and capabilities within MWRI for conducting environmental studies. The results were published in an Interim Progress Report. A one-day work session that included the WG members and 40 MWRI officials was conducted to review and discuss the report. Details regarding an Observational Study Tour were finalized during the period.

### **Studies and Benchmark Related Activities**

Negotiations between USAID and the EPIQ TA contractor for exercising the first six month contract option period covering 1 October 2001 through 29 March 2001 continued. Final resolution was not reached as of the end of the reporting period.

The EPIQ Team continued to provide support to MWRI with their Future Vision efforts. The project sponsored a one-day retreat on 19 April that was attended by MWRI Senior Staff, USAID, WPAU staff and the EPIQ Team.

Planning for implementation of the KAP Survey was started during the period. Expatriate SSTA was identified to assist with implementation and a preliminary timeline was developed.

The Memorandum of Understanding between the Branch Canal Water User Associations and MWRI defining the transfer of operation and maintenance of three branch canals to the BCWUAs was held in Mansoura on 5 June. The ceremony was sponsored by EPIQ and was attended by representatives of MWRI, USAID, the BCWUAs, WPAU and EPIQ.

Dr. Nadine El Hakeem, USAID Environmental Economist, presented a seminar on Market-Based Instruments on 20 June. The seminar was attended by representatives of USAID, MWRI, WPAU, EPIQ and the EEPP Solid Water Technical Assistance Team.

Dr. Doug Clark, EPIQ Project Coordinator, attended the MWRI Future Vision Retreat in April 2001.

## II. ACCOMPLISHMENTS DURING THE REPORT PERIOD

During the 2<sup>nd</sup> quarter, April to June 2001, the EPIQ TA team worked with USAID, Ministry for Water Resources and Irrigation (MWRI), Egyptian Environmental Affairs Agency (EEAA), Ministry of Agriculture and Land Reclamation (MALR), Water Policy Advisory Unit (WPAU) and the other Agriculture Policy Reform Program (APRP) TA units on the implementation of the Tranche IV Phase II and Tranche V water policy benchmark activities. The other TA units include the Program Management Unit (PMU), Monitoring, Verification and Evaluation Unit (MVE), and the Reform Design and Implementation Unit (RDI).

### Benchmark Support-Tranche IV, Phase II

#### *C.1. Matching Irrigation Supply and Demand (MWRI/MALR)*

Dr. Larry King, EPIQ Senior Irrigation Engineer, and Eng. Sarwat Fahmy, WPAU, have primary responsibility for this activity as co-task managers for the EPIQ/WPAU/WPRP team with support from EPIQ team members Dr. Ragab Abdel Azim, Irrigation Engineer, and Dr. El-Sayed Mahdy, Water Resource Economist, and part-time TA support from Eng. Hussein Elwan, Head of Central Directorate for Water Distribution, MWRI, and Eng. Sanaa Abdel Rashid (CDWD/MWRI). Eng. Mohamed Hamed and Eng. Mohamed El Margoshi of WPAU provide further technical assistance on a part-time basis. While the formal title of this benchmark is “Reducing Mismatch of Irrigation Deliveries”, the working group has adopted the title “Matching Irrigation Supply and Demand” (MISD) to emphasize the positive aspects of this activity. The core MISD Working Group of this joint MWRI/MALR benchmark is composed of Dr. Larry King, Dr. Jane Gleason (RDI), Dr. Ragab Abdel Azim, Eng. Hussein Elwan, and Eng. Mohamed El Shahed (Head, Economic Affairs Sector, MALR). The expanded joint group is the core group plus representatives from MWRI, MALR, EPIQ, RDI and PMU, WPAU, as well as the Undersecretaries, General Directors, Inspectors, District Engineers, and Agricultural Extensionists for the four selected directorates containing 31 irrigation districts within the four governorates: Sharkiya, Beheira, Beni Suef and Qena/Luxor.

Activities carried out by the EPIQ team during the reporting period were:

- ◆ Work on implementation of MISD plan was continued within the five pilot districts on their delivery of water based on cropping pattern data collected by the extension agents for each branch canal of the irrigation district. Contact was maintained by email between the EPIQ team and the pilot district engineers. The water monitoring programs in these pilot districts established during 2000 are being continued including the regular electronic data transfer to Cairo offices.
- ◆ Analysis was started of the water monitoring data collected in the five pilot districts for the period March 1, 2000 through June 30, 2001.
- ◆ By providing specifications for planimeters to the MWRI, the EPIQ team assisted their program for expansion of MISD activities to all 31 districts (26 new plus the 5 pilots) in the four directorates. MWRI purchased 30 units and EPIQ purchased 1 unit to cover all 31 districts. Delivery of all units is expected by the start of the next quarterly reporting period. These tools are needed to determine accurate canal command areas from the detailed maps in each district.
- ◆ Two STTA positions were filled (one local and one expatriate). The Computer Training Specialist (local) began work on June 3 and works on both MISD and IWMD benchmarks. The Irrigation Scheduling Specialist (expatriate) began work in Cairo on June 19.
- ◆ WCU (MWRI) developed a video with assistance from EPIQ and CDWD (MWRI) to be used as part of the MISD awareness campaign.
- ◆ MWRI purchased computers for the 26 new districts and conducted basic computer training courses for all the new district engineers as part of their MISD expansion program.
- ◆ Following assessment of computer capabilities of staff of the irrigation districts, a training program was started by the EPIQ Computer Training

Specialist to provide necessary additional training, especially in the 26 new districts, on advanced computer skills related specifically to MISD activities.

- ◆ The EPIQ Irrigation Scheduling Specialist began developing a simple tool for use by the district engineer to calculate crop consumptive use and schedule water in the branch canals within the district according to the semimonthly MALR cropping data. This tool will use well-accepted established computer routines as its basis. The tool will be easy for the district engineer to use and will allow the MALR data file to be input electronically without modification.

### ***C.2. Urban Wastewater and Drainage Reuse***

The MWRI/APRP wastewater task group leads the implementation of this benchmark. Dr. Zhongping Zhu, EPIQ co-task manager, and Eng. Nasser Ezzat, WPAU co-task manager, share responsibility for managing implementation activities. In year 2001, the task group includes: Eng. Hussein El Atfy and Dr. Hesham Kandil of MWRI Minister's Office, Eng. Mohamed Fathy, Eng. Hamza, Eng. Mohamed El Khazragy of MWRI EPADP, Dr. Ibrahim Ellassiouty and Dr. Ahmed Fakhry Khattab of EPIQ; Eng. Mohamed Hamed of WPAU; Dr. Seham Hendy of MOHP; Dr. Mamdouh Riad of MALR; Dr. Samia Galal of MEA, and Eng. Magda Gaballa and Eng. Mohsen Mamdouh of NOPWASD.

Activities carried out by the EPIQ Team during the reporting period consisted of pilot program implementation and coordination as follows

#### **Pilot No. 1 Wastewater Treatment Plant Construction Priorities**

- ◆ Established contact and a working relationship with the Dakahliya Public Economic Authority (DPEA) and the Dakahliya Office of NOPWASD.
- ◆ Collected and compiled data related to sewage discharge.
- ◆ Analyzed the magnitude of sewage discharges, wastewater treatment needs and the volume of drain water that is presently safe for reuse.

- ◆ Prepared GIS-based maps showing sewage discharge and existing treatment plant locations.
- ◆ Prepared an outline for the pilot program report and assigned responsibilities and timeline for completion.

#### Pilot No. 2 Agricultural Drain Classification

- ◆ Established contact and working relationship with five local drainage authorities (west, north and middle Dakahliya drainage directorates, and north and south Sharkiya drainage directorates) in the pilot area.
- ◆ Developed a criteria for classifying drains into categories applicable to the Faraskour, Swer, and Hadus drains adjacent to the Salam Canal.
- ◆ Discussed and studied policy implications of the drain classification work and results.
- ◆ Conducted meetings with local drainage authority office during seven field trips.

#### ***C.4. Irrigation Management Transfer***

Dr. Robert Cardinalli (task Manager) with support from the Co-Task Manager of the MWRI Water Policy Advisory Unit, Eng. Mohamed Nasser Ezzat, is responsible for this activity.

The major accomplishments during the reporting period included:

- ◆ The benchmark-Working Group continued its formal meeting schedule. The WG is comprised of the EPIQ Senior Sociologist (task manager), and representation from the WPAU (Eng. Nasser Ezzat, Eng. Amira El Diasty, Eng. Moamen El Sharkawy), MED (Eng. Ali Khalil Mohamed), IAS (Eng. Essam Barakat), EPADP (Dr. Mahmoud Moustafa), and Horizontal Expansion sector (Dr. Tarek Abdallah Ahmed).

- ◆ Multiple stakeholder focus group workshops were held involving farmers and ministry officials from the four pilot areas, at El Nazl (Dakahleya), El Shebab (Sharkaiya), South Tahrir (Beheira), and Beni Abed (El Minya). The purpose of the meetings was to continue discussions with stakeholders in formalizing the BCWUA transfer, and developing dialogue on cost sharing for O&M.
- ◆ The second phase of the IMT Physical Rehabilitation exercise was started during this period, and is expected to be completed by September 15.
- ◆ The IMT socio-economic baseline survey was submitted and is undergoing final editing.
- ◆ The Memorandum of Understanding between the BCWUAs and MWRI was officially signed by the MWRI and the BCWUA chairman of South Tahrir (Beheira), El Nazl (Dakahliya) and El Shebab (Sharkiya) pilot areas.
- ◆ The plan for a study tour to Turkey as the second part of the IMT international exposure process was approved by USAID. Nomination of participants is pending with MWRI. IIE/DT2 (the USAID training coordination project in Egypt) is currently negotiating with the Turkish government and private agencies involved in setting up this study tour.
- ◆ A major Public Awareness Campaign for the IMT benchmark was started during this period and will be completed by the end of August, and will include prototype materials for a comprehensive public awareness campaign package.
- ◆ A proposal was drafted for design of a MWRI monitoring evaluation system for the IMT program.

#### ***C.5. Revision of Law 12/1984 on Irrigation and Drainage***

This activity is being led by WPAU (Eng. Sarwat Fahmy and Eng. Nasser Ezzat). Dr. Ibrahim Ellassiouty (EPIQ Coordinator) is assisting. EPIQ has provided short-term TA for this activity through the EPIQ task order (Eng. Ahmed Maher, Local Irrigation Engineer and Dr. Mohamed Badran, Local Legal Advisor). Two WPAU engineers are supporting the law 12 group (Eng. Amira El Diasty and Eng. Moemen EL Sharkawy).

Activities carried out by the WPAU/EPIQ team during the reporting period area were as follows:

- ◆ The Working Group met every Monday in the 9<sup>th</sup> floor project conference room in order to review the previous weeks results and the plan for the coming week.
- ◆ The articles contained in the proposed draft law were investigated in detail to:
  - Identify issues that require additional study.
  - Determine articles that require amplification to achieve their intended purpose and prepare draft text if required.
  - Identify areas that require explanation or clarification.
  - Evaluate licensing implications of the draft law.
- ◆ Completed preparation of the first draft of the executive regulations to accompany the draft law.
- ◆ Conducted meetings with MWRI key personnel to solicit feedback on the proposed law and executive regulations.

## **Benchmark Support-Tranche V**

### ***C.1 Integrated Water Management District***

Dr. Larry King, EPIQ Senior Irrigation Engineer, and Eng. Sarwat Fahmy, WPAU, have primary responsibility for this activity as co-task managers for the EPIQ/WPAU/WPRP team with support from EPIQ team members Dr. Ragab Abdel Azim, Irrigation Engineer, Dr. Ibrahim Ellassiouty, Water Resource Management Specialist, Dr. Robert Cardinalli, Senior Sociologist, and Dr. Elsayed Mahdy, Water Resource Economist, and support from WPAU team members Eng. Tarek Nada, Eng. Mohamed Hamed, Eng. Amira El

Diasty, and Eng. Moemen El Sharkawy. The IWMD Working Group is composed of the above-named individuals plus two MWRI representatives Eng. Ali Morsi, Head of Irrigation Department, and Eng. Mohamed Fathy, Head of Egyptian Public Authority for Drainage. EPIQ team members, Dr. Robert Cardinalli, Senior Sociologist, and Dr. El-Sayed Mahdy, Water Resource Economist provide support as needed periodically.

Activities carried out by the EPIQ/WPAU team during the reporting period were:

- ◆ The IWMD Working Group gathered information concerning the seven irrigation districts nominated as pilot districts and made visits to several of these districts.
- ◆ The previously developed list of criteria for selection of pilot districts was modified to include at least one district having an established water board.
- ◆ The IWMD working group used the list of criteria and the information gathered to select two pilot districts: South Zifta District, Menoufia Directorate, and Ibrahimia District, West Sharkiya Directorate. Note that the South Zifta District overlaps the boundary between the Gharbia and Menoufia Governornates.
- ◆ The concurrence of H.E. Dr. Mahmoud Abu-Zeid on the naming of these two pilot districts was obtained.
- ◆ The irrigation district and drainage district boundaries were adjusted to make the district boundaries more closely match for each of the two pilot districts. These adjustments were performed by the local MWRI personnel directed by the respective General Directorates.
- ◆ One local and two expatriate STTA positions were filled. The Computer Training Specialist (local STTA) began work on June. This specialist works on both the IWMD and MISD benchmarks. The Irrigation District Management Specialist (expatriate STTA) began work on June 13. The Water Monitoring Specialist (expatriate STTA) is scheduled to begin work on July 7.
- ◆ Assessed each pilot district staff's computer capabilities and computer training needs and developed plans for conducting the necessary training programs.

- ◆ Provided the South Zifta District with a computer through loan of an EPIQ office computer. The MWRI will procure a computer for the Ibrahimia District because it is one of the 26 MISD expansion districts.
- ◆ Made several field trips to the two pilot districts to assess current conditions and practices in each district.
- ◆ Made plans for a workshop to be held in July in Port Said to bring MWRI personnel involved in the IWMD benchmark together with EPIQ, WPAU, and USAID personnel to discuss IWMD concepts, issues, concerns, and constraints. The main focus of the workshop is to be on issues of organizational structure for an IWMD.

### ***C.2. Public Participation in Decision-Making***

Adrian Hutchens, EPIQ co-task manager, and Eng. Sarwat Fahmy, WPAU co-task manager, share responsibility for managing this benchmark. They are supported by the remainder of the Public Participation Work Group (PPWG) who are: Dr. Elsayed Mahdy, EPIQ Water Resource Economist; Eng. Hussein El Atfy, Undersecretary of Minister's Office; Eng. Salah El Shazly, Undersecretary of Central Administration for Complaints; Dr. Hesham Kandil, Director for Technology and Information; Dr. Hesham Moustafa, Head Water Communication Unit; Eng. Essam Barakat, Undersecretary of Irrigation Advisory Service; Eng. Amira El Diasty, WPAU Technical Staff; and Eng. Moemen EL Sharkawy, WPAU Technical Staff.

The major accomplishments during the quarter included:

- ◆ The PPWG conducted a reconnaissance field trip on 7 April to verify that cleaning and maintenance of Ragabeya and Gannabeya secondary canals, in the El Santa District of Gharbeya Directorate, would meet the needs of the pilot study. The criteria was whether the issues were manageable within the timeframe of the benchmark. That site satisfied the criteria and was selected for conducting the pilot application of public participation principles and procedures.

- ◆ PPWG held a training workshop in El Fayed on 4-6 May to train the field survey team that would participate in field activities on the pilot study. The participants were trained to have, or be able to:
  - Understand the concept of public participation in decision-making with respect to water resources management.
  - Understand the need for the pilot study.
  - Understand the importance of their role in the pilot study.
  - Arrange for interviews and focus group meetings.
  - Have the basic communication skills to:
    - Identify and interview stakeholders
    - Extract appropriate information from different stakeholder groups
    - Ensure involvement of different stakeholders, including women
    - Document results
- ◆ A contract was let with the Central Lab for Environmental Quality Monitoring to collect and analyze samples of pilot-area canal bottom sediment to determine if it is suitable for supplementing field soils.
- ◆ During the second and third weeks of May, the field survey team identified stakeholders (both men and women) and issues of concern regarding cleaning and maintenance of the two pilot canals. The results of those surveys were reviewed by PPWG members in focus-group meetings on 21 and 22 May in Tanta. In summary, the field surveys accomplished the following:
  - 75 interviews were conducted with male landowner-farmers on Ragabeya Canal (14 head-end farmers, 27 middle section, and 34 tail-end farmers).
  - 71 interviews were conducted with farmers on El Gannabeya Canal, consisting of 65 with male landowner-farmers (27 head-end, 12 middle section, and 26 tail-end farmers) and 6 interviews of tenant farmers.
  - 11 interviews of non-landowner women on Ragabeya Canal were conducted.
  - 45 interviews were conducted with women on El Gannabeya Canal, 25 of whom are landowners with holdings ranging from 3 karats to 19 feddans.
  - 4 focus group meetings were held with farmers on the two canals.

- ◆ A meeting was held on June 5 in Tanta to inform stakeholders of the results of the field survey.
- ◆ A stakeholders' workshop was held on June 17 in Tanta for the purpose of reaching agreement on issues and criteria for resolving the issues. Three working groups, one from Ragabeya Canal stakeholders and two from Gannabeya Canal stakeholders, were formed. Results were reviewed. Results were reviewed and combined in a plenary session.
- ◆ A detailed survey was made on both canals to obtain the technical information necessary for designing alternative solutions for resolving the issues associated with cleaning and maintenance needs.

### ***C.3. Environmental Management in MWRI***

The MWRI/APRP environmental task group leads the implementation of this benchmark. Eng. Nasser Ezzat, WPAU co-task manager, and Dr. Zhongping Zhu, EPIQ co-task manager, share responsibility for managing implementation activities. The task group members are: Eng. Moemen El Sharkawy and Eng. Mohamed Hamed of WPAU; Dr. Ibrahim Ellassiouty of EPIQ; Dr. Diaa El Qousy, Dr. Hesham Kandil, and Eng. Hussein EL Atfy of MWRI; Dr. Ahmed Gaber, consultant; and Dr. Ahmed Abul Azm of EEAA.

The major accomplishments during the reporting period included:

- ◆ The make-up of the Working Group was finalized with the addition of Dr. Ahmed Abul Azm of EEAA as a member.
- ◆ Completed a literature search and review of EIA practices in the USA and other developed countries.
- ◆ Interviews were conducted with heads of all sectors, departments and authorities in MWRI that are charged with project development. The purpose of the interviews was to define present EIA activities, to identify units with resources in the environmental assessment area, and to assess the capability of these resources.

- ◆ Conducted a one day working session of the WG and 30 MWRI officials in order to review and verify the results of the interviews described above.
- ◆ Prepared an interim progress report on the activities conducted through the end of May.
- ◆ Details of the Observational Study Tour to the USA were finalized during the period.

### **Studies & Benchmark Related Activities**

The terms of reference for the EPIQ task order is structured around a results package, jointly designed by USAID and MWRI, consisting of integrated water policy and institutional reforms. To support this results package, the EPIQ team is able to carry out studies that support policy reform or have the potential of leading to future policy benchmarks. The EPIQ team is also involved in supporting select activities that relate directly to implementation of previous water policy benchmarks. Non-benchmark activities that fall into this category are discussed below.

### **Impact Assessment**

Adrian Hutchens (EPIQ economist) is coordinating this activity with support from Dr. Elsayed Mahdy (EPIQ economist). No work was programmed for this activity during the quarter.

### **Knowledge, Attitudes and Practices Survey (KAP)**

Dr. Robert Cardinalli (EPIQ Sociologist) is coordinating this study in cooperation with WPAU and the Ministry's Water Communication Study. This survey is intended to be a follow-on to the previous KAP survey conducted by Greencom in 1998. It is intended to provide information regarding the effectiveness of the policy reforms implemented under APRP and also provide input to the Impact Analysis.

Implementation planning for this activity commenced during the reporting period. Expatriate STTA was identified in the person of Ms. Louise Kemprecos and arrangements were finalized to mobilize her in July. A preliminary timeline was prepared and information regarding execution of the 1998 KAP Survey was obtained.

### Market-Based Instruments (MBI) Study

During the process of negotiating the contract option period, it was jointly decided by USAID and the EPIQ contractor that a new study related to environmental issues faced by MWRI should be defined and undertaken. Several alternatives were identified and were under discussion at the end of the previous reporting period. These discussions continued during the reporting period resulting in finalizing the topic as Market-Based Instruments. The objective is to study issues related to the use of MBIs and identify MBIs that have the potential to achieve additional improvements in irrigation efficiency and water quality. The intent is to define policy adjustments that will facilitate the use of MBIs by MWRI.

The EPIQ Team provided advice and assistance to WPAU and MWRI in support of the Ministry's future vision exercise. Mr. Clemence Weber was mobilized to assist the team and provide guidance regarding the process. EPIQ organized and hosted a one-day Vision Retreat that was attended by representatives from MWRI, WPAU, USAID and the EPIQ Team. Mr. Weber served as the facilitator and Dr. Doug Clark, EPIQ Contract Coordinator also attended the retreat.

### Workshops

A number of benchmark implementation seminars and benchmark-specific workshops were held during the reporting period. These are summarized as follows:

### Public Participation Training Workshop

EPIQ organized and hosted a one-day workshop to train MWRI field staff in conducting stakeholder interviews.

### Urban Wastewater & Drainage Reuse

EPIQ, jointly with MOHP organized and hosted a one-day seminar for local government officials on the topic of Health Issues Related to Wastewater Reuse.

### Public Participation Stakeholder Meeting

EPIQ organized and hosted a one-day information sharing meeting for pilot program stakeholders.

### Public Participation Stakeholders Workshop

EPIQ organized and hosted a one-day stakeholders workshop to arrive at final definition of issues related to the pilot demonstration and to arrive at mutually agreed upon criteria for evaluating alternatives.

### **APRP/EPIQ Coordination**

Close coordination between the EPIQ team and other units of APRP, USAID and MWRI continued.

Members of the EPIQ WPRP team participated in the bi-weekly APRP coordination meetings and the PPC meetings.

Regular water group coordination meetings were held at MWRI. USAID Ag policy water staff, WPAU, and EPIQ WPRP participated.

Regular meetings of all benchmark-working groups were held throughout the quarter. There were also numerous field trips and meetings with governorate and district level personnel.

**Reports**

Two reports were issued during the reporting period as follows:

No. 38-Quarterly Report (October-December 2000)

No. 39-IMT Public Awareness Campaign, Phase I: Strategy

### III. ACTIVITIES PLANNED FOR NEXT QUARTER

#### **Benchmark Support-Tranche IV, Phase II**

##### *C.1: Reducing Mismatch of Irrigation Deliveries*

The following activities are planned for the next quarter:

- ◆ Continue technical assistance to the MWRI and MALR for expansion of MISD activities to cover all irrigation districts in each of the four pilot directorates (Beheira, Beni Suef, Qena, and West Sharkaiya) primarily through training on computers, planimeters, and the MISD information transfer process.
- ◆ Continue assistance to MALR through RDI to ensure the MISD data gathering and information transfer process is sustainable, effective, and efficient and that the information on cropping patterns and calendars is accurate, timely, and adequate for matching irrigation deliveries to water demands.
- ◆ Complete the detailed analysis of the water monitoring data collected in the five pilot districts in both phases of this benchmark.
- ◆ Provide training to MWRI district engineers in the proper use of the planimeters and assist MWRI/MALR personnel in the districts in use of purchased maps of scale 1:2500 and planimeters for agreeing upon an accurate command area of each canal.
- ◆ Plan and conduct joint MALR/MWRI MISD awareness meetings for district/directorate level personnel. Use the developed video and other awareness materials in these meetings with the agricultural extension hood workers as the primary recipients of this training.
- ◆ When the computers are delivered to the new districts, establish email service connecting the district and directorate levels of MWRI. Encourage email communication between districts to overcome common problems. Establish a two-way information flow path within the MWRI from the district to the central level, and determine the role of each organization along this path.

- ◆ Complete the development of the district engineer's tool for calculating crop consumptive use and scheduling water releases to branch canals using the semimonthly MALR cropping data and train district engineers in its use.

### ***C.2. Urban Wastewater Discharge and Reuse***

The following activities are planned for the next quarter:

- ◆ Facilitate resolution of outstanding financial issues and complete all physical work related to the Mansoura City Greenland Irrigation pilot.
- ◆ Consult with stakeholders regarding the Agricultural Drain classification results and finalize this pilot.
- ◆ Conduct the Health Awareness seminar related to farmers and finalize this pilot.
- ◆ Obtain final agreement from NOPWASD regarding the Wastewater Treatment Plant Construction Priorities pilot and finalize this pilot.
- ◆ Finalize the Management of Industrial Wastewater Discharge pilot.
- ◆ Commence drafting final benchmark report.

### ***C.4 Irrigation Management Transfer***

The following activities are planned for the next quarter:

- ◆ The IMT benchmark working group will continue to meet regularly and report to the IMT Steering Committee on tasks associated with development of the IMT policy and its phased plan for implementation.
- ◆ IMT Socio-Economic baseline survey final report to be presented to the IMT Steering Committee.
- ◆ The designs and tender documents for the physical rehabilitation work of the four IMT pilot branch canals will be completed and officially processed by MWRI for contracting.
- ◆ Memoranda of Understanding (MOU) to be formalized between the BCWUA of El Minya governorate and MWRI in signing ceremony.

- ◆ IMT study tour to Turkey to start September 2001.
- ◆ IMT Public Awareness Campaign (PAC) will be completed by the end of August, and will include prototype materials for a comprehensive public awareness campaign package. The MWRI Water Communications Unit will commence the publication of the materials and dissemination to target audiences as per the PAC program, following approval and allocation of funding by MWRI.
- ◆ The monitoring and evaluation (M&E) system for the IMT program will be prepared by EPIQ for launching in a unit of MWRI to be determined by the IMT Steering Committee.
- ◆ MWRI to identify and determine permanent institutional placement of IMT program for pilot phase as well as expansion and replication phases.

### ***C.5 Revision of Law 12***

The following activities are planned for the next quarter:

- ◆ Continue meetings with MWRI officials to complete reviewing the proposed regulations and to identify other initiatives, which might contribute to the regulations.
- ◆ Review all parts of the law along with their corresponding executive regulations to ensure there will not be any conflict or repetition.
- ◆ Organize Stakeholders' Workshop to review and discuss the new regulations and solicit stakeholders' feedback.

### **Benchmark Support-Tranche V**

#### ***C.1 Integrated Water Management District***

The following activities are planned for next quarter:

- ◆ Hold the IWMD Port Said workshop with focus on organizational structure.

- ◆ Continue detailed assessment of conditions and practices in each pilot IWMD district.
- ◆ Establish internet and email accounts in the two pilot districts and in their corresponding directorates as needed.
- ◆ Assist the local and expatriate STTA people to complete their tasks: Computer Training Specialist, Irrigation District Management Specialist, and Water Monitoring Specialist.
- ◆ Identify additional workshop and training needs in the pilot districts and plan appropriate activities to satisfy these needs.
- ◆ Develop detailed work plans for each pilot district including schedules for workshop/training activities and incorporating a mechanism for continuing technical, operational, and managerial assistance to the districts following initial training of pilot district/directorate staff on IWMD concepts.
- ◆ Develop a clear statement of definition as to exactly what constitutes an Integrated Water Management District.
- ◆ Continue development and begin testing of plans for an organizational/institutional structure that will best support integrated water management in the two pilot districts and will include linkage and relationships between central irrigation management and the IWMD.

## ***C.2 Public Participation in Decision Making***

The following activities are planned for the next quarter:

- ◆ Confirm final plans for a study tour.
- ◆ Prepare a draft public participation users' manual.
- ◆ Develop alternative solutions for identified issues on the two pilot study canals.
- ◆ Hold a stakeholders' workshop to evaluate alternatives.
- ◆ Select a specific plan for cleaning and maintenance of the two pilot canals taking into consideration the issues and concerns expressed by stakeholders and constraints faced by the Ministry.

- ◆ Hold an informative seminar with stakeholders to explain the rationale for the plan.
- ◆ Document the pilot study in an appendix for inclusion in the final report.
- ◆ Prepare an interim draft report.
- ◆ Prepare a draft public participation policy statement.

### ***C.3 Environmental Management at MWRI***

The following activities are planned for the next period:

- ◆ Conduct Observational Study tour for MWRI officials to the USA. This tour will provide input to drafting of the policy and procedures and the final benchmark report in general.
- ◆ Plan, organize and conduct an EIA awareness workshop for MWRI officials.
- ◆ Complete preparation of the draft EIA Guideline for MWRI projects.
- ◆ Consult with EEAA and other stakeholders and obtain feedback on the draft EIA Guideline.
- ◆ Complete the study of organizational issues related to implementation of the EIA Guideline with MWRI.
- ◆ Commence drafting the final benchmark report.

### **Studies and Benchmark Related Activities**

Impact Analysis:

Detailed Planning for this activity will commence.

KAP Survey:

Complete  
procurement  
of  
subcontractor  
services and  
commence  
field data  
collection

Market-Based Instruments Study: Commence work on  
this study

#### **IV. PROBLEMS AND ISSUES**

No serious problems have arisen, however, there are a number of issues that are cause for concern and must be addressed by the Project Management Team in the near future.

These are:

- ◆ Release of funds obligated to the pilot program to irrigate trees using treated wastewater has not been resolved to date and is delaying this activity.
- ◆ Although the MISD expansion efforts in the four pilot Governorate are proceeding in both ministries, the actual training and data collection in the 26 new districts are lagging expectations. Delays in equipment delivery that have been experienced are part of the problem. There are proposals in both MALR and MWRI to expand the MISD program nationwide. At the time of writing this report, the EPIQ WPRP team is not approved to offer technical assistance for this nationwide expansion effort.
- ◆ The greatest issue facing the IWMD benchmark is how to reach agreement on the proper organizational structure for an Integrated Water Management District. The stakeholder workshop planned for July in Port Said will help but is not expected to produce an agreed upon final structure. The organizational structure must be developed not only for within the IWMD but also for how

the MWRI structure should be modified to best implement IWMDs throughout Egypt. This will be the major task for the IWMD Working Group during the rest of the work on this benchmark.

- ◆ Finalization of the Public Participation Observational Study Tour is on hold at present due to difficulties in identifying a training provider. DT2 was not able to come to terms with the provider recommended by EPIQ and no alternate has been identified to date. This issue must be resolved in the near future as it impacts on other benchmark activities.
- ◆ The Tranche V MOU has not been approved to date. This is a nuisance but does not have any adverse impact on progress.
- ◆ The EPIQ TA Contractor's contract presently carries a termination date of 30 September 2001. Negotiations to extend the termination date have not been concluded to date. While not considered a problem, staff morale is suffering due to the fact that management cannot make firm commitments on duration of employment until negotiations are complete.

## V. IMPORTANT TRIPS, VISITS AND MEETINGS

DATE	LOCATION	PURPOSE
April 2	MWRI 9 <sup>th</sup> floor conference room	Law 12 working group meeting
April 3	MWRI 9 <sup>th</sup> floor conference room	<ul style="list-style-type: none"> <li>◆ PPDM work group meeting</li> <li>◆ IMT task group meeting</li> <li>◆ MISD meeting with Water Communication Unit</li> </ul>
April 4	EEAA	UWDR meeting with Dr. Samia Galal
April 5	MWRI 9 <sup>th</sup> floor conference room	UWDR meeting with Eng. Mohsen and Magda, NOPWASD
April 7	Gharibya	PPDM working group field trip to Gharbeya pilot area
April 8	MWRI 9 <sup>th</sup> floor conference room	<ul style="list-style-type: none"> <li>◆ MISD working group meeting</li> <li>◆ ENVM working group kick off meeting</li> </ul>
April 9	MWRI 9 <sup>th</sup> floor conference room	<ul style="list-style-type: none"> <li>◆ UWDR meeting EPADP representatives</li> <li>◆ Law 12 working group meeting</li> </ul>
April 10	MWRI 9 <sup>th</sup> floor conference room	PPDM working group meeting

DATE	LOCATION	PURPOSE
	Sharkeya	MISD field trip to Sharkeya for WCU filming
April 11-12	Banha, Tanta, Zagazig	IWMD field trip, pilot district selection
April 15	Sharkeya	Follow-up MISD field trip to Sharkeya for WCU filming
April 17	MWRI 9 <sup>th</sup> floor conference room	<ul style="list-style-type: none"> <li>◆ PPDM working group meeting</li> <li>◆ Law 12 working group meeting</li> </ul>
April 17-18	Dakahleya	UWDR field trip to Dakahleya with EPADP representatives.
April 18	Beni Suef	IWMD field trip to Beni Suef, pilot selection
April 19	Conrad Hotel	MWRI future vision Retreat
April 22	MWRI 9 <sup>th</sup> floor conference room	IMT working group meeting
April 23	MWRI 9 <sup>th</sup> floor conference room	Law 12 working group meeting
April 26	MWRI 9 <sup>th</sup> floor conference room	ENVM working group meeting
April 28	Mansoura	UWDR meeting with Dr. Riad, MALR, and Dakahleya Irrigation Directorate staff for Tree Irrigation.
	MWRI, Library	ENVM information collection meeting
April 30	MWRI 9 <sup>th</sup> floor conference room	<ul style="list-style-type: none"> <li>◆ IWMD working group meeting</li> <li>◆ IMT Steering Committee meeting</li> <li>◆ Law 12 working group meeting</li> </ul>
May 2	EPADP	IWMD meeting
May 2-3	Dakahleya	Follow up UWDR field trip to Dakahleya
May 4	Fayed	PPDM local field training workshop
May 6	EPADP	ENVM visiting EPADP
May 7	MWRI 9 <sup>th</sup> floor conference room	Law 12 working group meeting

DATE	LOCATION	PURPOSE
May 8	NWRC	ENVM visit to NWRC
	Dakahleya	UWDR industrial wastewater management field trip to Dakahleya with Dr. Samia Galal
	MWRI	IWMD working group meeting, chairman's office
May 13	MWRI 9 <sup>th</sup> floor conference room	IMT working group meeting
May 14	MWRI 9 <sup>th</sup> floor conference room	Law 12 working group meeting
	APRP	MISD working group meeting
	Gharbeya	PPDM field trip to El Santa District, Gharbeya with NWRC central lab CLEQM team
May 15	USAID	WPAU/USAID vision coordination meeting
	MWRI 9 <sup>th</sup> floor conference room	<ul style="list-style-type: none"> <li>◆ PPDM working group meeting</li> <li>◆ IMT working group meeting</li> </ul>
May 15-16	Menoufia	IWMD pilot district selection field trip
May 15-17	Mansoura	UWDR/MOHP Wastewater Irrigation Health Impact Workshop
May 19	Zagazig	IMT MOU consensus building meeting with the pilot IMT BCWUA
May 20	Damanhour	IMT MOU consensus building meeting with the pilot IMT BCWUA
May 21	MWRI	IMT working group meeting
	MWRI 9 <sup>th</sup> floor conference room	Law 12 working group meeting
May 21-22	Gharbeya	PPDM women stakeholder identification field trip to El Santa district.
	Mansoura	IWMD pilot district selection field trip to Ibrahimiya District, Sharkeya
May 22-23	Mansoura/sharkeya	UWDR drain classification field trip to South Sharkeya

DATE	LOCATION	PURPOSE
	El Menya	IMT MOU consensus building meeting with the pilot IMT BCWUA
May 23	MWRI	IWMD working group meeting
	Sharkeya	MISD field trip to Sharkeya for WCU filming
May 24	MWRI 9 <sup>th</sup> floor conference room	PPDM working group meeting
May 26	Mansoura	IMT MOU consensus building meeting with the pilot IMT BCWUA
May 28	MWRI 9 <sup>th</sup> floor conference room	Law 12 working group meeting
	MWRI	IWMD working group meeting, chairman's office
May 29	MWRI 9 <sup>th</sup> floor conference room	WPAU/USAID vision coordination meeting
May 30	Zagazig	UWDR drain classification field trip to North Sharkeya and South Dakahleya
May 31	MWRI 9 <sup>th</sup> floor conference room	IMT working group meeting
June 3	MWRI 9 <sup>th</sup> floor conference room	Law 12 working group meeting
June 5	Tanta	PPDM stakeholder meeting with government and non-governmental leaders
June 5-6	Mansoura	IWMD field trip to assess pilot district training needs and PC facilities
June 6	MALR	UWDR meeting with Mamdouh Riad
	MEA	UWDR meeting with Dr. Samia Galal
	Mansoura	IMT MOU signing ceremony Delta BCWUA
June 7	EPADP	UWDR meeting
	MOHP	UWDR meeting with Dr. Seham
June 9	Beheira	IMT system Rehab design

DATE	LOCATION	PURPOSE
	Zagazig	IMT system Rehab design review field trip to Zagazig and El shebab Branch Canal
June 10	MWRI 9 <sup>th</sup> floor conference room	Law 12 working group meeting
June 10-11	Mansoura	IMT system Rehab design review field trip to Mansoura
June 11	MWRI 9 <sup>th</sup> floor conference room	<ul style="list-style-type: none"> <li>◆ ENVN management team meeting</li> <li>◆ Law 12 working group meeting</li> <li>◆ IMT public awareness meeting</li> </ul>
June 12	MWRI 9 <sup>th</sup> floor conference room	PPDM work group meeting
	Delta Barrage	WPAU/USAID vision coordination meeting
	Beni Suef	MISD computer assessment field trip to Beni Suef
June 13	Zagazig	IMT system Rehab design review field trip to Zagazig and El Shebab Branch Canal
June 14	IAS	PPDM meeting with pilot field staff
	Qalubiya	UWDR field trip to Qalubiya by EPADP representatives
June 17	Qena	MISD computer assessment field trip
June 18	MOPH	UWDR meeting with MOPH representative, Dr. Seham regarding planning for pilot no. 4
	Menoufia	IWMD field trip to South Zifta District, Menoufia Governorate
June 19	Mansoua	IMT system Rehab design review of field trip to El Nazl Canal
	MWRI	Economic instruments seminar, Mrs. Nadine El Hakim from USAID
June 20	MWRI 9 <sup>th</sup> floor conference room	ENVN working group meeting

DATE	LOCATION	PURPOSE
	Damanhour	IMT system Rehab design review field trip to El Azeema and Damanhour
June 20-21	Behiera	MISD computer assessment field trip to Behiera
June 21	MWRI 9 <sup>th</sup> floor conference room	<ul style="list-style-type: none"> <li>◆ IWMD coordination meeting</li> <li>◆ ENVM study tour preparatory meeting</li> </ul>
June 24	Mansoura	UWDR field trip to mansoura on Tree Irrigation
	MWRI 9 <sup>th</sup> floor conference room	MISD working group meeting
June 25	MWRI 9 <sup>th</sup> floor conference room	<ul style="list-style-type: none"> <li>◆ Law 12 working group meeting</li> <li>◆ PPDM working group meeting</li> </ul>
June 25-26	Beheira	MISD computer training field trip to Beheira Governorate
June 27	DAI	MISD working group meeting
June 27-28	Beheira	MISD field trip to Beheira Governorate
	Sharkeya	IWMD field trip to Sharkeya
June 28	MWRI 9 <sup>th</sup> floor conference room	Public participation meeting
June 30	Salam Canal	UWDR field trip to Salam Canal, water quality monitoring
June 29- July 1	Tanta	PP pilot field assessment, El Santa District, Gharbeya

## **VI. STAFF LEVEL OF EFFORT**

The EPIQ resident team has a technical consulting staff of ten people (6 expatriate and 4 local professionals) and an administrative support staff of ten people.

The LTTA and STTA staffing list for the quarter is shown below:

### **RESIDENT STAFF**

#### **EXPATRIATE**

<b>NAME</b>	<b>POSITION</b>
Mr. Andrew Tczap	Chief of Party
Greg Olson	Administrative Officer
Dr. Zhongping Zhu	Senior Water Resources Engineer
Dr. Larry King	Senior Irrigation Engineer
Adrian Hutchens	Senior Water Economist
Dr. Robert Cardinalli	Senior Sociologist

#### **LOCAL EGYPTIAN**

<b>NAME</b>	<b>POSITION</b>
Dr. Ahmed F. Khattab	Co-Team Leader
Dr. Ibrahim Elassiouty	Senior Water Resources Management Specialist
Dr. Elsayed Mahdy	Economist
Eng. Ragab Abdel Azim	Drainage Engineer

## SHORT TERM STAFF DURING THE REPORT PERIOD

### EXPATRIATE

NAME	POSITION
Clemence Weber	Vision Retreat Facilitator
Patrick Papania	Communications Specialist
Dr. Ken Mitchel	Irrigation District Specialist
Dr. Marshal English	Irrigation Scheduling Specialist

### LOCAL EGYPTIAN

NAME	POSITION
Hussein Elwan	Irrigation Management Specialist
Sanaa Abdel Rashid	Water Data Analysis Specialist
Hussein El Atfy	Senior Water Policy Specialist
Hesham Kandil	Senior Water Quality Specialist
Siham Hendy	Senior Public Health Specialist
Mamdouh Riad	Senior Forestry Specialist
Magda Gaballa	Senior Wastewater Treatment Specialist
Mohsen Mamdouh	Senior Wastewater Treatment Specialist
Abdel Rahman Shalaby	Senior Institutional Policy Specialist
Ahmed Maher Ghydan	Senior Irrigation Specialist
Mohamed Badran	Legal Specialist
Hesham Moustafa	Communications Specialist
Mohamed Fathy	Senior Drainage Specialist
Abdel Moniem Hamza	Drainage Engineer
Mahamed El Khazragy	Drainage Engineer
Essam Barakat	Senior IAS Specialist
Ali Morsi	Senior Irrigation Specialist
Salah El Shazly	Senior Institutional Specialist
Diaa El Qousy	Senior Water Resources Specialist
Ahmed Gaber	Environmental Consultant
Ali Hassan	Environmental Consultant
Amgad El Ansary	Environmental Consultant
Ashraf Ghanem	Environmental Consultant
Ahmed Abul Azm	Environmental Consultant

## VII. STATUS OF FINANCES AND EXPENDITURES

Financial summary for 2<sup>nd</sup> Quarter 2001 (April-June 2001)

	Itemized Budget	Prior Claimed	Current Claim	Claims to Date	Remaining Balance	Budget Claimed
<b>Direct Labor</b>	\$6,795,261	\$5,184,029	\$438,408	\$5,622,428	\$1,172,833	83%
<b>Travel and Transportation</b>	\$385,000	\$242,729	\$18,452	\$261,181	\$123,819	68%
<b>Per Diem</b>	\$235,281	\$221,055	\$15,756	\$236,811	(\$1,530)	101%
<b>Allowances</b>	\$1,233,887	\$1,008,482	\$68,896	\$1,077,378	\$156,509	87%
<b>Other Direct Costs</b>	\$1,668,793	\$1,190,054	\$143,431	\$1,333,485	\$335,308	80%
<b>Total</b>	\$10,318,222	\$7,846,350	\$684,934	\$8,531,284	\$1,786,938	83%

Source: IRG Invoice #47, #48, and #49

## VIII. LIST OF REPORTS

No.	NAME	DATE
1	APRP Tranche II Policy Benchmark Background Documentation	August 1997
2	Project Implementation Plan	October 1997
3	Annual Technical Progress Report (7 May-31 Dec 1997)	January 1998
4	Annual Work Plan (Jan.-Dec 1998)	April 1998
5	Quarterly Report (Jan.-March 1998)	April 1998
6	Assessment of Egypt's Rice Policy and Strategy for Water Manag.	June 1998
7	Egypt's Irrigation Improvement Program I. Performance Assessment II. Proposed National Strategy	June 1998
8	National Policy for Drainage Water Reuse	June 1998
9	Water User Association Formation Outside the Irrigation Improvement Program Area	June 1998
10	Hydrogeology of Deep Aquifers in the Western Desert and Sinai	August 1998
11	Quarterly Report (April-June 1998)	August 1998
12	WRRP Tranche III Benchmark Work Plan	November 1998
13	Quarterly Report (July-September 1998)	December 1998
14	Quarterly Report (October-December 1998)	January 1999
15	Quarterly Report (January-March 1999)	May 1999
16	Policies and Procedures for Free-Flowing Groundwater Management in Egypt's Western Desert	June 1999
17	Establishment of Branch Canal Water User Associations in the Egyptian Irrigation System	June 1999
18	Institutionalization of the Irrigation Advisory Service in the Ministry of Public Works and Water Resources	June 1999
19	Water Saving Through Utilization of Short Duration Rice Varieties: National Policy Package, 1999-2000	June 1999

<b>No.</b>	<b>NAME</b>	<b>DATE</b>
20	Intermediate Drainage Reuse in Bahr Bagar Drain Basin	June 1999
21	Revision of Law 48 of 1982 for the Protection of the Nile River and its Waterways from Pollution	June 1999
22	Short Duration Rice Variety Pilot Program Results	July 1999
23	Quarterly Report (April– June 1999)	August 1999
24	Tranche IV Water Policy Benchmark Implementation Plan (FY 99/00)	November 1999
25	Quarterly Report (July - September 1999)	November 1999
26	Rice Water Use Policy Phase1: Water Monitoring and Evaluation Program with Appendices	December 1999
27	Review of the Agricultural Sector Model of Egypt (ASME97): 1999 Version	December 1999
28	Quarterly Report (October-December 1999)	January 2000
29	Annual Report (January – December 1999)	February 2000
30	Quarterly Report (January- March 2000)	May 2000
31	Quarterly Report (April- June 2000)	August 2000
32	Quarterly Report (June-September 2001)	
33	Reducing Mismatch of Irrigation Deliveries, Phase I: Pilot Program	November 2000
34	Policies and Procedures for Improved Urban Wastewater Discharge and Reuse	November 2000
35	Water Management at the Directorate Level	November 2000
36	MWRI Policy on Irrigation Management Transfer (Phase I)	December 2000
37	Analysis and Review of Modifications in Law 12 of 1984 on Irrigation and Drainage	December 2000
38	Quarterly Report (October-December 2000)	May 2001
39	Irrigation Management Transfer Public Awareness Campaign Phase 1: Strategy	June 2001
40	Quarterly Report (January-March 2001)	July 2001