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QUARTERLY REPORT

(January– March 1999)

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International Resources Group

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Winrock International

QUARTERLY REPORT
(JANUARY – MARCH 1999)

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I. SUMMARY

During the 1st quarter, January – March 1999, the EPIQ TA team continued to work with USAID, MPWWR, MALR, WPAU and the other APRP TA units on the accomplishment of the eight APRP Tranche III water policy benchmarks:

- C.1: Main System Management Program Utilization
- C.2: Free Flowing Groundwater Management
- C.3: Branch Canal Water User Organizations
- C.4: Irrigation Advisory and Support Service
- C.5: Sugarcane Water Use Policies (MPWWR/MALR)
- C.6: Rice Water Use Policies (MPWWR/MALR)
- C.7: Intermediate Drain Water Reuse
- C.8: Water Quality Regulation--Law 48

Two of these benchmarks, C.5: sugar cane and C.6: rice, are joint benchmarks with the Ministry of Agriculture and Land Reclamation (MALR). Activities for C.1 Main System Management are being supervised by the APRP MSM TA unit.

Specific Accomplishments:

C2. Data collection continued on crop cultivation, well discharge, and water supply and demand in the free-flowing groundwater areas of the El-Farafra Oasis. A number of field trips were made to the El-Farafra and the pilot area West Qasr El Farafra by the groundwater team. A program for developing Groundwater Water User Unions at Farafra Oasis was initiated.

C.3. Organizing process and detailed process documentation on three BCWUAs completed. Two, one week, Participatory Rural Appraisal training for 25 MPWWR staff to support the formation of Branch Canal Water User Associations was conducted. MPWWR Action Team completed a two week study tour (Feb 12 - 28) sponsored by DT-2 to US on Federating Water User Associations.

C.4. The necessary documentation required to initiate the process of Irrigation Advisory Service establishment as a permanent unit within MPWWR was prepared.

C.5 Site selection of sugar cane pilot areas for introducing improved irrigation techniques in Wakf, Naga Hammady, and Armante completed. Laser leveling completed. Pump and gated pipe installation at the selected sites (600 feddans) was started. Workshops for training of local extension personnel completed. Water measurement and monitoring sites selected.

C.6. A draft national plan was prepared to extend the introduction of short duration rice varieties to the six rice-growing governorates (approximately 100,000 feddans) in the Delta. Six specific canals were selected for extending the short duration rice variety activities, one in each rice-growing governorate. Training and orientation of MPWWR irrigation sector staff, village extension staff and farmers was conducted.

C.7. Engineering, economic, social, and environmental assessments continued on the benchmark activity to establish a model intermediate drain water reuse program in the pilot area of Abou Hammad district, Bahr Bagar drainage basin. A draft operations plan, pump station designs, and bid documents have been prepared. A focus group workshop was held in Abou Hammad district on Feb 10 to discuss intermediate reuse with stakeholders. More than 40 farmers and 10 local officials including MPWWR under secretary and city council chairman participated in the workshop

C.8. The TA team visited with all of the major institutions participating in the inter-ministerial committee established by MPWWR to discuss potential changes to Law 48/1982. Initial findings were presented at a Law 48 inter-ministerial committee meeting. A seminar was presented by short-term environment consultant Mr. Victor Kimm on "Water Pollution Control Activities in United States".

Other Activities

Dr. Tom Ley, resident senior irrigation specialist, resigned from the project for family reasons and departed Egypt on 4 February 1999.

Several short term expatriate specialists were mobilized to help support the EPIQ activities: Dr. Larry King (expatriate groundwater management specialist) from 22 March to 16 April, Dr. Ramchand Oad (water measurement specialist) from 6 - 19 March and Victor Kimm (expatriate environmental specialist) from 24 February to 5 March.

Ellen Corbin (EPIQ Project Administrator) and Dr. Ken Baum (USAID/EPIQ Project Coordinator) made separate visits to the project during the Quarter.

Work began on developing draft Tranche IV water policy benchmarks. An APRP Tranche IV Water Policy benchmark development workshop was held on 23 March at the MPWWR to discuss the draft Tranche IV benchmarks. USAID Ag Policy division staff, Eng. Shalaby (APRP MPWWR PPC member/ MPWWR First Deputy Minister), Eng. Gamil (Chairman USAID APRP MPWWR Steering Committee), EPIQ TA Team, and representatives from WPAU, MSM, RDI, MVE, and Greencom/WCU attended.

II. ACCOMPLISHMENTS DURING THE REPORT PERIOD

Staffing

The EPIQ resident team has a technical consulting staff of ten persons and an administrative support staff of eight people. Dr. Tom Ley (senior resident irrigation specialist) resigned due to personal reasons.

Several short term expatriate specialists were mobilized to help support the EPIQ activities: Dr. Larry King (expatriate groundwater management specialist) from 22 March to 16 April, Dr. Ramchand Oad (water measurement specialist) from 6 - 19 March and Victor Kimm (expatriate environmental specialist) from 24 February to 5 March.

The team was supported during the period by short term local Egyptian TA that included Eng. Essam Barakat (participatory irrigation management specialist), Eng Hussein Elwan (irrigation management specialist), Eng. Nagati (groundwater management specialist), Dr. Fatma Gory (local environmental specialist), Eng. Raouf Abou El-Nour (local sociologist/water user organization specialist), Dr. Mohamed Rami (computer modeling specialist), Dr. Mohhamed Mohieddin (sociologist), Dr. Fouad Abdulah (facilitator/trainer), a water measurement team for the rice pilot activity at Sidi Gamma, an ag economic survey team for the rice pilot activity, a water measurement team for the free flowing well benchmark, and a drainage measurement team for the intermediate use benchmark.

Ellen Corbin (EPIQ Project Administrator) visited Egypt from 23 – 30 January.

Dr. Ken Baum (USAID EPIQ Project Coordinator) visited the project offices on 23 February. He was accompanied by Dr. Craig Anderson (USAID Project Officer) and John Wilson (Environmental Officer Asia and Near East Bureau).

Benchmark Support

The Memorandum of Understanding (MOU) between USAID and GOE for Tranche III was signed on 27 September 1998. The Tranche III memorandum included 29 policy benchmarks to be completed by 30 June 1999. The MPWWR has sole responsibility for accomplishment of six of the benchmarks. Two of these benchmarks, rice and sugar cane, are joint benchmarks with the Ministry of Agriculture and Land Reclamation (MALR). The Tranche III water benchmarks were approved by the MPWWR Steering Committee and HE Minister MPWWR.

The water policy benchmarks for Tranche III are:

- C.1: Main System Management Program Utilization
- C.2: Free Flowing Groundwater Management
- C.3: Branch Canal Water User Organizations
- C.4: Irrigation Advisory and Support Service
- C.5: Sugarcane Water Use Policies (MPWWR/MALR)
- C.6: Rice Water Use Policies (MPWWR/MALR)

- C.7: Intermediate Drain Water Reuse
- C.8: Water Quality Regulation-Law 48

The EPIQ team will be working with several of the APRP TA teams to support the accomplishment of the water benchmarks. The MSM TA team is taking the lead on C.1: Main System Management Program Utilization; the WPAU is taking the lead on C.8: Water Quality Regulation-Law 48; and the EPIQ team is taking the lead with support from WPAU and Greencom/WCU on the remaining six water benchmarks. RDI and PMU are working with EPIQ, WPAU and Greencom/WPAU on the rice and sugarcane benchmarks.

C.2: Free Flowing Groundwater Management

Dr. F. Khattab replaced Dr. Tom Ley as task manager. Eng Saleh Nour and Dr. F. Khattab have primary responsibility for this activity for the EPIQ team. Two short term specialists have been assigned to assist with the activity, Dr. Larry King, expatriate groundwater management specialist, and Eng. Raouf Abou El-Nour, local sociologist/water user organization specialist.

The major accomplishments during this period were:

- Data on cultivated crops in EL-Farafra Oasis during the period 1993/1994 – 1998/1999 have been collected and analyzed.
- The outline of the BM C.2 draft report was prepared and its different chapters were assigned to the activity team.
- A draft assessment of the irrigation water supply and demand in West Qasr El-Farafra reclaimed area (model study area).
- Field measurements of well free-flowing discharges at 11 well sites in West Qasr El-Farafra area.
- Initiated a program for developing Groundwater Water User Unions at Farafra Oasis. A field trip to El-Farafra Oasis was conducted by Dr. R. Cardinalli, EPIQ sociologist, Eng. Raouf Abou El-Nour, local sociologist and Eng. Mohamed Hamed Abd El-Latif of WPAU on 7-9 March 1999. During this trip the group accomplished the followings:
 - Met with the head of El-Farafra city council, to discuss the issue of groundwater user union development in El-Farafra Oasis.
 - Made a site visit to West Qasr El-Farafra area, selected as pilot study area for development of a model policy package.
 - Met with some groundwater users and head of El-Farafra City Council and irrigation engineers to discuss the problems they usually face regarding irrigation and drainage, and the idea of establishing Groundwater User's Union in EL-Farafra.
 - Met with Mr. Nagati, the General Manager of Irrigation Dept. and irrigation engineers to discuss the irrigation problems in El-Farafra Oasis and the regulatory measures taken by the Irrigation Dept. to mitigate groundwater wastage.
 - Conducted a meeting on 8 March, attended by 40 water users. Problems facing the farmers were discussed including those of unofficial irrigated areas, outside the command areas. The issue of initiation Groundwater Users Union in EL-Farafra Oasis was also presented.

- A second field trip to El-Farafra Oasis was conducted by Eng. Saleh Nour and Dr. Larry King, expatriate water resources management specialist, on 22-25 March 1999. During this trip the following were accomplished:
 - Made site visits to free-flowing wells in West Qasr El-Farafra area, El-Nahda, Sheikh Marzuk and Abu Minqar reclamation areas.
 - Met with Mr.Nagati, General Manager of NVID and Dr. Mohamed Raafat, Head of El-Farafra City Council.

C.3: Branch Canal Water User Organizations

Dr. Robert Cardinalli (task manager) with local TA support from Eng. Essam Barakat is responsible for this activity for the EPIQ team. Dr. Fouad Abdulah (facilitator/trainer) conducted the Participatory Rural Appraisal training course.

The major accomplishments during the reporting period included:

- Implementation of training program in Monitoring and Evaluation and Participatory Rural Appraisal for District Engineers, and IIS and IAS engineers to carry out the benchmark.
- Ministerial decree issued allowing the formation of Branch Canal Water User Associations on Qemri Branch Canal (Sharkaiya), Bahr-el-Dharam Branch Canal (Dakhelaiya), Balaqtar Branch Canal (Damanhour), and El Raity Canal (Qena).
- Organizing process on three BCWUAs in Nile Delta largely completed, including preparations for election of BCWUA Executive Council.
- Detailed Process Documentation on 3 BCWUAs completed by IAS BCWUA organizing field teams.
- Establishment of MPWWR Action Team on Participatory Irrigation Mangement by ministerial decree.
- Implementation of orientation/training to MPWWR Action Team, including 2-week study tour to Colorado State University and study of Northern Colorado Conservancy District and New Cache La Poudre Irrigation Ditch Company.

C.4: Irrigation Advisory and Support Service

Dr. Robert Cardinalli (task manager) with local TA support from Eng. Essam Barakat is responsible for this activity for the EPIQ team.

The major accomplishments during the reporting period included:

- Review of the current MPWWR organizational structure, determining the appropriate and acceptable organizational unit for IAS (i.e., a MPWWR central directorate)
- Review of GOE policies and methods for establishing a new unit within the MPWWR
- Conducting visioning sessions for existing IAS staff to develop an IAS mission statement, outline of activities and programs for which it will be responsible, internal and external linkages, and staff job descriptions.

- Drafting IAS organizational structure (central directorate, directorate and field offices) and staffing plan with relevant job descriptions.
- Preparing all necessary documents required by the Central Authority for Organization and Management to establish an Irrigation Advisory Service Unit in the MPWWR Documents submitted to the Minister of MPWWR for signature preparatory to issuance of ministerial decree and onward official submission.

C.5: Sugarcane Water Use Policies (MPWWR/MALR)

Dr. John Keith (task manager) and Dr. El-Sayed Mahdy have primary responsible for this activity for the EPIQ team with short-term TA support from Eng. Hussein Elwan. Dr. T. Ley assisted prior to his departure. A joint working group with representatives from MPWWR, MALR, EPIQ, RDI and PMU was formed to study strategies on water management alternatives for sugar cane for Tranche II. For Tranche III activities this group has been expanded to include representatives from WPAU, GreenCom, and WCU. Dr. John Keith, EPIQ economist, chairs the working group. Members of the sugarcane working group include: Dr. J Keith (EPIQ), Dr. S. Mahdy (EPIQ), Dr. T. Ley (EPIQ), Dr. J Gleason (RDI), Dr. S. Hussein (RDI), Dr. A. Allam (MALR-SCRI), Eng. H. Elwan (MPWWR), Mr. M. Nour (PMU), Dr. A. El-Berry (MALR-AEnRI), Dr. A. Behery (MALR-AenRI), Dr. T. Rizk (National Consulting Firm), Dr. C. Anderson (USAID – observer), Eng. M. Mabrouk (USAID) and Eng T. Nada (WPAU).

Short Term Technical assistance from Dr. Ramchand Oad, water measurement specialist, Colorado State University, consisted of field visits with members of the Working Group to determine the appropriate placement and characteristics of water measurement and monitoring devices.

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

- Identification of specific sites in Wakf, Naga Hammady, and Armante was completed.
- Workshops for training of local extension personnel and farmers as related to the implementation of improved irrigation techniques was accomplished under the direction of Dr. A. Behery. An APRP member of the working group attended these workshops.
- Visits were made to each of the specific sites to determine the required water measuring devices and recorders, including weirs, automatic level recorders, and pump intake meters.
- The use of telemetry devices in two canals in the Armant area was recommended.
- Contracts were let and laser leveling completed. Pump and gated pipes installation on the selected sites (approximately 600 feddans) was started with an anticipated completion date of 15 April 1999.
- Contracts for construction of weirs at the agreed-upon locations were prepared.

C.6: Rice Water Use Policies (MPWWR/MALR)

Dr. John Keith (task manager) and Dr. El-Sayed Mahdy have primary responsible for this activity for the EPIQ team with short term TA support from Eng. Hussein Elwan. Dr. T. Ley assisted prior to his departure. A joint working group with representatives from MPWWR, MALR, EPIQ, RDI and PMU was formed to study strategies on water management alternatives for rice for Tranche II. For Tranche III activities, this group has been expanded to include representatives from WPAU, GreenCom, and WCU. Dr. John Keith, EPIQ economist, chairs the working group. Members of the rice working group include: Dr. J. Keith (EPIQ), Dr. S. Mahdy (EPIQ), Dr. T. Ley (EPIQ), Dr. J. Gleason (RDI), Dr. S. Hussein (RDI), Dr. A. Tantawi (MALR-RR), Eng. H. Elwan (MPWWR), Mr. M. Nour (PMU), Dr. C. Anderson (USAID – observer), and Eng. M. El-Margoushy (WPAU).

Dr. Ramchand Oad, short term water measurement specialist, Colorado State University, made field visits with members of the Working Group to determine the appropriate placement and characteristics of water measurement and monitoring devices. He also made a presentation at the MPWWR workshop on water measurement and monitoring.

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

- Analysis of the agriculture and agricultural economic data collected during the Sidi Gamee pilot program was completed, indicating that yields were at or above long duration varieties and applied water savings were 1,200 to 1,300 cubic meters per feddan.
- Draft sections of reports on both the agriculture and water results were prepared, and a final report on the pilot project is being prepared.
- An draft national plan was prepared for review and comments by the two Ministries describing the 1999 activities and the extension of those activities to 2000, in which short season rice varieties and the program begun on the Sidi Gamee pilot will be extended to all rice growing areas.
- Six specific canals were selected for the 1999 extension of the Sidi Gamee pilot package, one in each rice-growing governorate.
- A workshop was held which included MPWWR irrigation sector staff from each of the governorates (District Engineers and Under-Secretaries) and from the national staff. MALR and MPWWR personnel Orientation regarding the pilot program was presented.
- Training was completed for all village extension staff regarding the pilot package.
- Farmer orientation meetings were held at the villages on each of the canals, which included the MPWWR District Engineers. An APRP member of the Rice Working Group attended each of the village meetings.

C.7: Intermediate Drain Water Reuse

Dr. Zhongping Zhu (task manager), Dr. Ahmed Fakhry Khattab, Dr. Ibrahim Ellassiouti, Eng. Ragab Azim, Dr. S. Mahdy, and Dr. Rabert Cardinalli are the EPIQ team members participating to the various activities conducted under this benchmark during the report period.

Eng. Hussin Elwan (water management expert), Dr. Samia Galal (environmentalist), and Dr. Mohhamed Mohieddin (sociologist) were the local short-term consultants assisting with the benchmark activities during this period.

Conducted activities during the report period included:

- Organizing a focusing group workshop to survey the reactions of farmers and local irrigation engineers to intermediate reuse development.
- Organizing a social survey of gender issues in intermediate reuse development.
- Designing Abou Hammad intermediate reuse pump stations and producing a bid document for the needed pumps and station houses.
- Preparing draft chapters of the benchmark final report, including introduction, Bahr Bagar drain basin overview, Abou Hammad reuse potential, Abou Hammad reuse operations plan, intermediate reuse benefit-cost analysis, and intermediate reuse environmental assessment.
- Continuing Abou Hammad drain water quantity and quality monitoring.
- Planning intermediate reuse pump test on 1-2 selected drain sites in Abou Hammad.

C.8: Water Quality Regulation--Law 48

Eng. Nasser Ezzat, WPAU task manager, and Dr. Ibrahim Ellassiouty, EIPQ coordinator, are responsible for this activity. Short-term TA support is being provided by Dr. Fatma El-Gohary, local environmental specialist, and Mr. Victor Kimm, expatriate environmental specialist.

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

- Visited with all of the major institutions participating in the inter-ministerial committee established by MPWWR to discuss potential changes to Law 48/1982.
- A seminar was conducted by the expatriate short-term environment consultant Mr. Victor Kimm on “Water Pollution Control Activities in United States”. The meeting was attended by representatives from the Law 48 interministerial committee, USAID, WPAU and EPIQ staff.
- The general outline of the initial findings on revising Law 48 was presented by WPAU/EPIQ group during an inter-ministerial meeting and amendments and revisions to Law 48 and its by Laws were discussed.
- A visit was made to the Gebel El-Asfar secondary waste water treatment plant for eastern Cairo. This huge facility, when full operational, should make a significant contribution to local water quality of Eastern Delta.
- Arrangements for a workshop to be held in Conrad International, on May 3, 1999 are underway. The purpose of this workshop is to discuss the proposed amendments and review of Law 48 and its by laws. A program is set and letters of invitation for all concerned institutions have been delivered.

Studies

The terms of reference for the EPIQ task order is structured around a results package jointly designed by USAID and MPWWR consisting of integrated water policy and institutional reforms. To support this results package, the EPIQ team will carry out a number of studies. The primary focus of the studies is to develop future policy benchmarks. Draft work plans have been prepared for each of the following proposed studies, however only the Agriculture water demand study is ongoing.

- Management of Deep Groundwater
- Conjunctive Use of Shallow Groundwater
- Operations of Nile Water Delivery (Water Supply and Demand)
- Strengthening District Water Management Capability
- Agriculture Water Demand
- Water User Organizations in New Lands
- M&I Wastewater Treatment Economic Study

Agricultural Water Demand

A working group was formed that will examine the structure of and the data used in the Agricultural Sector Model for Egypt (ASME) with respect to: (1) estimation of agricultural water demand and the shadow value of water in irrigated agriculture, (2) projected or expected impacts of alternative policy changes, and (3) cropping pattern changes due to both policy and external perturbations. The working group is composed of Drs. Mansour, Siyam, Shaed (MALR), Bayoumi (MPWWR), Ms. Awatef and Evette (MALR Stat Center), Drs. Enders and Morsy (MVE), Gleason, Hussein (RDI), Keith (EPIQ). Keith chairs this working group. Dr. Mohamed Rami (water resources engineer) is assisting John Keith as a computer modeling specialist. The subcommittee, composed of Keith, Gleason, Awatef, Evette, Bayoumi, and Morsy met review technical aspects of the model and to develop a work plan to present to the working group.

Activities carried out by the EPIQ Team were:

- Problems within the ASME including inconsistent results and constrained solutions were reviewed by members of the subcommittee. It was determined that all data are 1995 base, although there was a data error in rice production which led to unacceptable results.
- The subcommittee was assigned specific tasks to review in detail the following aspects of the model: marketing and production costs, data input, demand elasticities and calculations, and livestock sectors.
- A compilation of all documentation is being completed.

Benefits from M&I Water Treatment

In order to provide a basis for economically efficient wastewater treatment, a review of the available economic studies of M&I pollution was accomplished. It was clear that no study to date has focused on the social value of treating M&I effluents. A TOR and LOE proposal was prepared through which short-term expatriate TA can be obtained to provide this information.

Activities carried out by the EPIQ Team were:

Contact was made with the identified expatriate TA, and a tentative date for the study was established.

TA Support

USAID and MPWWR have agreed to a third category of support under the EPIQ Task Order, which will use the EPIQ funds to help bring in expatriate TA to assist MPWWR in a few potential policy related areas not directly addressed in the EPIQ task order and the initial implementation work plan. These include short term TA to support :

- Development of the MPWWR Main Information Center
- Preparation of MPWWR GIS Standards
- Establishment of an Irrigation Technology Center

USAID has approved TA support for the MPWWR GIS Standards activity

Tranche IV Benchmarks

Work began on identifying and developing the Tranche IV water policy benchmarks. Seven possible benchmarks have been proposed:

1. Sugar Cane Water Management
2. Rice Water Management
3. Reducing Mismatch of Irrigation Deliveries
4. Water Quality and Drainage Reuse
5. Secondary Canal System Water Management
6. Branch Canal WUAs
7. Irrigation Management Transfer

Three of these benchmarks, sugar cane, rice, and mismatching are being proposed as joint benchmarks with the Ministry of Agriculture and Land Reclamation (MALR). Several of the benchmarks are being proposed as multi-year benchmarks: mismatching, water quality, secondary canal system, and irrigation management transfer.

An APRP Tranche IV Water Policy benchmark development workshop was held on 23 March at the MPWWR to discuss the draft Tranche IV benchmarks. USAID Ag Policy division staff, Eng. Shalaby (APRP MPWWR PPC member/ MPWWR First Deputy Minister), Eng. Gamil (Chairman USAID APRP MPWWR Steering Committee), EPIQ TA Team, and representatives from WPAU, MSM, RDI, MVE, and Greencom/WCU attended.

Workshops

EPIQ sponsored workshops on water measurement and monitoring were held in 6th October City for Under Secretaries and District Engineers associated with the rice benchmark activities.

MALR, MPWWR and EPIQ personnel presented project description and technical information regarding the activities to be undertaken on the selected canals.

APRP/EPIQ sponsored workshops on the short duration rice variety “package” were held in Sakha, Kafr El Shiekh, for MALR national rice extension personnel and MPWWR District Engineers. Information was presented by MALR, MPWWR, RDI and EPIQ personnel.

APRP/RDI/EPIQ sponsored farmer awareness meetings for the short season rice “package” for the selected canals were held in the associated villages in six governorates during the period from 20 to 28 March.

APRP/RDI/EPIQ sponsored farmer training meetings for improved irrigation in sugar cane were held in Luxor, Armant, and Qena from March 1 to March 16.

A seminar was conducted March 2 by the expatriate short-term environment consultant Mr. Victor Kimm on “Water Pollution Control Activities in United States”. The meeting was held at MPWWR and attended by representatives from the Law 48 interministerial committee, USAID, WPAU and EPIQ staff.

EPIQ sponsored a two day focus group workshop to survey the reactions of farmers and local irrigation engineers to intermediate reuse development in Abou Hammad and Ismaila on Feb 10-11. More than 40 farmers and 10 local officials including MPWWR under secretary and city council chairman participated in the workshop.

An APRP Tranche IV Water Policy benchmark development workshop was held on 23 March at the MPWWR to discuss the draft Tranche IV benchmarks. USAID Ag Policy division staff, Eng. Shalaby (APRP MPWWR PPC member/ MPWWR First Deputy Minister), Eng. Gamil (Chairman USAID APRP MPWWR Steering Committee), EPIQ TA Team, and representatives from WPAU, MSM, RDI, MVE, and Greencom/WCU attended. Steve Joyce (RDI) and Wilma Gromley (RDI) were the facilitators for the workshop.

Dr. Cardinelli accompanied the MPWWR Action Team on a 2-week study tour, Feb 12-28, on Federating Water User Associations held at Colorado State University, USA. The study tour was funded by DT-2. There were 11 participants.

EPIQ sponsored two, one week training courses on Monitoring and Evaluation and Participatory Rural Appraisal for District Engineers, and IIS and IAS engineers (25 participants) to carry out the Branch Canal Water User Association benchmark. The training was held in Tanta on Jan. 9-12 and Jan. 25-26.

EPIQ conducted a meeting on 8 March, attended by 40 water users in Farafra, to discuss problems facing the water users and the issue of initiation Groundwater Users Union in EL-Farafra Oasis.

EPIQ at the request of USAID provided financial assistance to MPWWR in conducting the Seventh Nile 2002 Water Conference on the Comprehensive Water Resources Development of

the Nile Basin held in Cairo from 15-19 March. EPIQ TA team members attended many of the workshop sessions.

APRP/EPIQ Co-ordination

Close co-ordination between the EPIQ team and other units of APRP, USAID and MPWWR continued.

WPAU, Greencom/WCU, and USAID staff routinely accompanied EPIQ TA staff on field trips.

Members of the EPIQ WPRP team participated in the weekly APRP co-ordination meetings and the monthly PPC meetings.

Regular (weekly) water group co-ordination meetings were held at MPWWR. Participation included members from WPAU, EPIQ WPRP, MSM, and Greencom/WCU. These meetings focused on development of Tranche IV benchmarks.

Regular Sugarcane and Rice Work Group meetings were held at APRP and MPWWR.

Reports

No major reports were issued.

Administrative Issues

Activities carried out by the EPIQ Team included:

- A search for a replacement for the EPIQ local assistant administrator continued.
- Vehicle Policy was finalized after discussions and consultation with David Barth (USAID legal advisor).

III. ACTIVITIES PLANNED FOR NEXT QUARTER

Staffing

Short term expatriate and local TA to support Tranche III benchmark activities and studies will be identified, approved and mobilized.

Benchmark Support

C.2: Free Flowing Groundwater Management

The following activities are planned for the next quarter:

- Completion of required data of West Qasr El-Farafra area regarding irrigation and drainage network, well discharges and pressures, location and area of cultivated lands in and outside the command areas, cost of well head rehabilitation and water measurement structures.
- Alternative strategies, including new well control technologies will be evaluated.
- Drainage practice and drainage reuse will be evaluated.
- Initiation, together with WCU, of a public awareness campaign regarding both the problems of groundwater scarcity and free-flowing condition.
- Evaluation of economic incentives, credits, cost sharing for structural improvements which can reduce water wastage.
- Initiation of a groundwater User Union (WUU) in West Qasr El-Farafra pilot study area, and assessing membership of users, planning and conducting an initial meeting of the Union general assembly and creating a plan for continuing union development.
- Complete report describing the recommended policy package and procedure for management of the free-flowing groundwater.

C.3: Branch Canal Water User Organizations

The following activities are planned for the next quarter:

- Completion of organizing procedures, and registration of three BCWUAs with the Under-Secretaries of appropriate Governorates.
- Completion of Process Documentation reports on 3 BCWUAs by IAS field teams.
- Continuation of work on formation of a BCWUA at El Reity Canal in Qena Governorate.
- Implementation of Cost-Sharing Plans on two BCWUAs (Bahr-el-Dharam and Qemri). To include review of cost-sharing experiences in Egypt, adopting appropriate and acceptable modalities for implementation, orientation to farmers and MPWWR staff, and negotiated cost-sharing plan preparation.
- One week training course on Monitoring and Evaluation and Participatory Rural Appraisal for IAS/IIS field agents and junior technicians.
- Completion of Tranche IV Benchmark C-3 Report.

C.4: Irrigation Advisory and Support Service

The following activities are planned for the next quarter:

- Submission of Required Documents by H.E. Minister of MPWWR to Central Authority for Organization and Management to establish an Irrigation Advisory Service Central Directorate in the MPWWR
- Completion of Tranche IV Benchmark C-4 Report.

C.5: Sugarcane Water Use Policies (MPWWR/MALR)

The following activities are planned for the next quarter:

- Installation of pumps and gated pipe (improved irrigation technology) will be completed on all pilot areas by April 30.
- Water measurement devices, including intake meters, weirs, telemetry equipment, and automatic water level recorders will be installed no later than May 10.
- A program of water measurement and monitoring will be initiated.
- A Tranche III benchmark report describing the activities related to the benchmark will be prepared and presented to MVE for evaluation.
- A Tranche IV benchmark to complete the APRP irrigation improvement activities will be prepared and submitted to MPWWR, MALR and USAID for approval.

C.6: Rice Water Use Policies (MPWWR/MALR)

The following activities are planned for the next quarter:

- A draft final report on the results from the Sidi Gamee pilot area will be prepared and submitted to MPWWR, MALR, APRP, and USAID for review and comments.
- A national plan for extension of the Sidi Gamee pilot program to a set of demonstration canals (1999) and then to all rice growing areas (2000) will be prepared and submitted to MPWWR and MALR for approval (this is the Tranche III verification indicator).
- Training of farmers about the short duration rice “package” will be initiated.
- The short duration rice “package” will be implemented on 6 selected canals.
- Automatic water level recorders and any recommended telemetry equipment will be installed on the selected canals by June 1.
- On-the-job training in water measurement and monitoring will be completed for all District Engineers and their staff involved in the 6 demonstration canals.
- A water measurement and monitoring program will be initiated by June 1.
- A Tranche IV benchmark to complete the APRP short duration rice variety activity will be prepared and submitted to MPWWR, MALR, and USAID for approval.

C.7: Intermediate Drain Water Reuse

The following activities are planned for the next quarter:

- Wrap-up the Abou Hammad drainage monitoring activities.
- Complete the two local short-term consultants' work on environmental and sociological assessment of Abou Hammad intermediate reuse development.
- Conduct intermediate reuse pump test in Abou Hammad.
- Produce Benchmark C7 final report.
- Consult with Irrigation Sector, and Sharkhia Irrigation Directorate on the benchmark final report.
- Finalize and submit the benchmark final report.
- Prepare for the Tranche III concluding workshop.

C.8: Water Quality Regulation--Law 48

The following activities are planned for next quarter:

- An Egyptian short-term legal specialist will be mobilized.
- Assistance to WPAU will be provided as required.
- Look at ways of using compliance agreements to provide a legal structures for steps towards full compliance.
- A workshop will be held in Conrad International-Cairo on May 3, 1999. The members of the Inter-ministerial Committee and representatives of the major concerned institutions and NGO are invited. The objective of this workshop is to discuss potential changes to Law 48 and its by Laws.
- Complete the draft final report by the end of May 1999.

Studies

It is anticipated that work on any new studies will be postponed until after completion of the Tranche III benchmark activities in June.

Agriculture Water Demand

The following activities are planned for the next quarter:

- A review of the literature describing the Agricultural Sector Model for Egypt will be completed.
- A subcommittee recommendation regarding the usefulness of the model and proposed activities related to the model will be presented to the ASME Working Group.

TA Support

The EPIQ team will recruit and mobilize STTA to support the following activity:

- Preparation of MPWWR GIS Standards

Other Activities

A final workshop on the Tranche III water policy benchmarks is scheduled for June 1999. Work will continue on development and modification of proposed Tranche IV water policy benchmarks.

Reports

The following reports are expected to be completed during the next report period:

- Sidi Gamee pilot project results
- A National Rice Plan will be prepared for presentation to the Ministers
- Interim report on the implementation of improved irrigation in sugar cane
- Policy recommendations on Free-Flowing Groundwater in the Western Desert
- Final report on formations of Branch Canal Water User Associations
- Final report on documentation prepared for IAS
- Final report on establishment of intermediate drain reuse program in Abou Hammad, Bahr Bagar drainage basin.
- Final report on recommended revisions to Law 48 and its bylaws.

Administration

The following activities are planned for the next quarter:

- Hire a replacement for the local assistant administrator.
- Begin search for replacement expatriate senior irrigation engineer.

IV. PROBLEMS AND ISSUES

Dr. Tom Ley, resident senior irrigation engineer, departed the project on 4 February 1999 for personal reasons. Until a replacement can be found his work will be carried out by the COP, long term resident staff, and short term TA.

USAID has extended the project through June 2000 in accordance with the Task Order option clause and obligated an additional US\$ 3 million. The remaining US\$2 million will be obligated after USAID receives a pipeline analysis.

V. IMPORTANT TRIPS, VISITS AND MEETINGS

DATE	LOCATION	PURPOSE	PARTICIPANTS
Weekly	APRP Dokki/ MPWWR	APRP Coordination Meeting	USAID; APRP TA Teams
Jan 5	Field Crops Research Institute (FCRI)	Plan for 1999 Rice Campaign	Rice Working Group (RWG)
Jan 6	Abou Hammad	Collect data of cropping patterns	Dr. Mahdy & Eng. Ragab (EPIQ), Engs. Reda Mahdi, Sayed Mansour, Mosa Ibrahim Attia, Fathi Elsayed Ali of Ahou Hammad district office, land holding dept, agricultural affair dept, and water works.
Jan 9-12	Tanta	Training Course in PRA & Communications	Dr. R. Cardinalli (EPIQ) Eng. Ramsis Bakhom (MPWWR) IAS/IIS Officers
Jan10-12	Dakhalia, Damietta, Sharkia Governorates	Identify demonstration canals for rice benchmark activities	Mahdy (EPIQ) Ley (EPIQ) Elwan (MPWWR)
Jan 16-17	Beheira, Kafr El Sheikh, Gharbai Gov.	Identify demonstration canals for rice activities	Mahdy (EPIQ) Ley (EPIQ) Elwan (MPWWR)
Jan 25	APRP	Discuss fund availability for sugar cane irrigation improvement activities	Sugar Cane Working Group (SCWG)
Jan 25-26	Tanta	Training Course – lecture presentations on PRA	Dr. R. Cardinalli (EPIQ) Dr. Fouad (EPIQ)
Jan 26	Abou Hammad	Field environmental investigation	Drs. Samia (EPIQ) and Ellassiouty and Eng. Ragab (EPIQ), Abou Hammad district engineers.
Jan 27	USAID	Project Vehicle Use	D. Barth (USAID) C. Anderson (USAID) E. Corbin (EPIQ) J. Fredericks (EPIQ)

DATE	LOCATION	PURPOSE	PARTICIPANTS
			T. Burolla (EPIQ)
Feb 2	Cairo	IIE/DT-2 Orientation Training for Action Team Study Tour	Dr. R. Cardinalli (EPIQ) Dr. H. El Atfi (MPWWR) Eng. Ramsis Bakhoun (MPWWR) Eng. Essam Barakat (MPWWR) Dr. M. Hegazi & Dr. S. Badran, MALR Other MPWWR Action Team Members
Feb 4	FCRI	Plan for national and village extension training for rice activities	Rice Working Group
Feb 7	APRP	Review sugar cane progress	SCWG
Feb 7	Delta Barrage	Dutch Advisory Panel Coordiantaion Meeting	Eng. Shalaby(MPWWR) Dr. Bayoumi (MPWWR) Dr. Samia (MPWWR) Dr. Hossam Fahmy (MPWWR) K. Veemingen (NWRP) J. Fredericks (EPIQ)
Feb 8	APRP	PPC Meeting	PPC, USAID Ag Policy team, APRP TA COPs
Feb 8	Bahr el Dharam, Sanafa	First BCWUA Organizing Meeting farmers to organize BCWUA	Dist. Engineer & IAS team 64 water users
Feb 8	Zagzig and Abou Hammad	Arranging the focusing group workshop	Dr. Ellassiouty and Tom Burola (EPIQ), local officials at Shakia Directorate and Abou Hammad district.
Feb 9	Luxor	Sugar Cane Pilot and training	SCWG + Abou

DATE	LOCATION	PURPOSE	PARTICIPANTS
		planning meeting	Krishna (MPWWR), Eng. Mourad (Sugar Factory)
Feb 11	Cairo	IIE/DT-2 Orientation for Action Team on Action Plan preparation	Dr. R. Cardinalli (EPIQ) Dr. H. El Atfi Eng. Ramsis Bakhoum Eng. Essam Barakat Dr. M. Hegazi & Dr. S. Badran, MALR Other MPWWR Action Team Members
Feb 10-11	Abou Hammad and Ismalia	Focusing group workshop of social, economic and environmental survey	8 EPIQ team members, and more than 40 farmers and 10 local officials including under Secretary and city council chairman participated the workshop.
Feb 12-28	Fort Collins, Colorado USA	Study Tour on “Federating Water User Associations”	Dr. R. Cardinalli (EPIQ) MPWWR Action Team on Participatory Irrigation Management
Feb 14	Qemry Canal, Fath Allah	First BCWUA Organizing Meeting with farmers to organize BCWUA	Dist. Engineer & IAS team 78 water users
Feb 16	EPIQ	Visit by IRG Contracts Manager	J. Webb(IRG Contracts Manager) J. Fredericks (EPIQ) T. Burolla (EPIQ)
Feb 16	MPWWR	Review problems with the ASME and assign tasks	ASME Subcommittee (ASMESC)*
Feb 20	Sakha, Kafr El Shiekh	National extension personnel and MPWWR governorate personnel training on the short duration	Keith, Tantawi (RWG), Rizk (RRTC), 4 MPWWR

DATE	LOCATION	PURPOSE	PARTICIPANTS
		variety “package.” There were 8 sessions held from 20 to 28 Feb, which were attended by various members of the RWG	governorate and district staff, 20 national rice ext. staff
Feb 21	Balaqtar Canal	First BCWUA Organizing Meeting with farmers to organize BCWUA	Dist. Engineer & IAS team 81 water users
Feb 23	EPIQ	Project Briefing	K. Baum (USAID/EPIQ) J. Wilson (USAID) C. Anderson (USAID) Eng. Gamil (WPAU) EPIQ TA team
Feb. 25	Environmental Monitoring and Occupational Health Center, Imbaba, Giza	Discuss constraints facing the enforcement of Law 48/1982 and Ministry of Health and Population (MHP) perception on water quality standards.	Dr. Ragaa Yossef, MHP EPIQ Law 48 group: <ul style="list-style-type: none"> • Dr. Fatma El-Gohary • Mr. Victro Kimm • Dr. Ibrahim Ellassiouty • EPIQ Law 48 Group
Feb. 25	National Organization for Potable Water and Sanitary Drainage (NOPWASD), Mohandessin	Wastewater treatment status and future plans.	From (NOPWASD): <ul style="list-style-type: none"> • Eng. M. Sirngawi, Chairman • Eng. Abdel Hamid Shayeb • Eng. Samira Nicola
Feb. 28	Egyptian Environment Affairs Agency (EEAA), Maadi, Cairo	Discuss the environmental compliance and enforcement program.	From (EEAA): <ul style="list-style-type: none"> • Dr. Yasser Sherif • Dr. Ahmed Hamza EPIQ Law 48 Group
Mar 1	Mansoura	Investigating the northern Bahr Bagar drainage development	Drs. Zhu and Khattab, and Eng. Ragab (EPIQ),

DATE	LOCATION	PURPOSE	PARTICIPANTS
			Rashad Romech (under secretary), Abd El Monen Said (Director of Salam canal), Edressi Ismail (M&E director), and Zaneib El Raies (Salam inspector)
Mar 1	APRP	Review of status of sugar cane improved irrigation installation	SCWG
March 2	Ministry of Public Works and Water Resources, Imbaba	Inter-ministerial Committee meeting. Presentation by Mr. Victor Kimm on the approach to Water Quality Management in USA.	USAID/MPWWR/WPAU/EPIQ/APRP /MHP/EEAA/ NOPWASD
March 3	General Organization of Industry (GOFI)	Discuss Industrial Wastewater Action Plan.	Eng. Galal Ghorab (GOFI) EPIQ Law 48 Group
Mar 4	FCRI	Schedule village extension and farmer orientation meetings	RWG
Mar 7-9	El-Farafra Oasis	Visiting the Free-Flowing GW study area for planning and establishment of GW User Union, Tranche III – C.2 Benchmark	- Eng. Nagati (New Valley Irrigation Dept.) - Dr. Cardinalli (EPIQ) - Eng. Abou El-Nour (EPIQ) - Eng. Hamed (WPAU) - Dr. Raafat (El-Farafra Mayor)
Mar 7 – 9	Farafra Oasis, Western Desert	Preparation Meetings for formation of Groundwater Water	Dr. R. Cardinalli (EPIQ)

DATE	LOCATION	PURPOSE	PARTICIPANTS
		User Unions	Eng. A. Abou El Nour (EPIQ) Eng. Md. Nagaty (MPWWR)
Mar 10	MPWWR	Review task reports from members. Identify specific focus for subcommittee work	ASMESC
Mar 11	Cairo	IIE/DT-2 Action Team Study Tour Re-Entry Seminar	Dr. R. Cardinalli (EPIQ) Dr. H. El Atfi (MPWWR) Eng. Ramsis Bakhoum (MPWWR) Eng. Essam Barakat (MPWWR) Dr. M. Hegazi & Dr. S. Badran, MALR Other MPWWR Action Team Members
Mar 11-13	6 th October City (MPWWR Tng. Center)	Water measurement training workshop for rice activity	RWG - MPWWR Distribution Center staff, MPWWR personnel from 6 governorates, Eng. Ragab (EPIQ) Dr. Oad (EPIQ)
Mar 15-16	MALR Governorate offices, Kafr El Shiekh, Damietta	Village extension training for short duration rice demonstrations	Mahdy (EPIQ), Rizk (RRTC), 20+ village extension personnel, District water engineers
Mar 15-16	Luxor	Site visits to pilot areas and canals	SCWG + Dr. Oad (EPIQ), Abou Krisha (MPWWR), local MALR personnel
Mar 20	Dakhalia Governorate	Attend farmer orientation meetings for short duration rice demonstrations	Dr. Keith (EPIQ), Dr. Tantawi (FCRI), Dr. Rizk (RRTC), national and village rice extension personnel; 5 meetings with 20+ farmers per

DATE	LOCATION	PURPOSE	PARTICIPANTS
			meeting
Mar 21-22	Port Said	APRP Tranche IV non-water policy benchmark development workshop	USAID Ag Policy Team APRP TA units
Mar 21-22, 25	Garbia, Kafr El Shiekh, Sharkia Governorates	Attend farmer orientation meetings for short duration rice demonstrations	Mahdy (EPIQ), Tantawi (FCRI), Rizk (RRTC), national and village rice extension personnel; 3-5 meetings with 20+ farmers per meeting
Mar 22	Abou Hammad	Investigating environmental impact with local doctors	Dr. Samia (TDY), Eng. Ragab (EPIQ), and ??? (local doctors).
Mar 22-25	El-Farafra Oasis	Visiting and follow-up of Tranche III – C. 2 Benchmark activity.	- Nagati (New Valley Irrigation Dept.) - King (EPIQ) - Nour (EPIQ) - Raafat (El-Farafra City Council)
Mar 23	MPWWR	APRP Tranche IV water policy benchmark development workshop	Eng Shalaby (MPWWR) USAID Ag Policy team Eng. Gamil (MPWWR) EPIQ TA team WPAU, WCU/Greencom, MSM, PMU, RDI, MVE APRP TA team representatives.
Mar 24	Abou Hamad	Review and Cross-Check of Drainage Reuse Focus Group Data	Dr. Mohammad Mohiedin (EPIQ)

VI. STAFF LEVEL OF EFFORT

Name	Position	Arrival	Departure	Reporting Period (pm)	Cumulative (pm)
Expatriate Long Term TA					
Dr. Jeff Fredericks	Chief of Party	25 Jan 98	30 Sep 99	3	14.1
Thomas Burola	Administrative Officer	12 Jun 97	30 Sep 99	3	21.60
Dr. Thomas Ley	Senior Irrigation Engineer Acting Team Leader	20 Jun 97	4 Feb 99	1	19.33
Dr. Zhongping Zhu	Senior Water Resources Engineer	13 Jun 97	30 Sep 99	3	21.60
Dr. John Keith	Senior Water Economist	1 Feb 98	30 Sep 99	3	14
Dr. Robert Cardinali	Senior Sociologist	20 Mar 98	30 Sep 99	3	12.9
Egyptian Long Term TA					
Dr. Ahmed Fakhry Khattab	Co-Team Leader	1 Aug 97	31 Jul 99	3	20
Dr. Ibrahim Elassiouti	Senior Water Resources Mgmt. Specialist	1 Aug 97	31 Jul 99	3	20
Eng. Saleh Nour	Senior Hydrogeologist	1 Sep 97	31 Aug 99	3	19
Dr. El-Sayed Mahdy	Economist	1 Mar 98	28 Feb 99	3	13
Eng. Ragab Abdel Azim	Drainage Engineer	1 Feb 98	31 Jan 99	3	14
Expatriate Short Term TA					
Dr. Larry King	Groundwater Management Specialist	22 Mar 99	16 Apr 99		
Dr. Ranchand Oad	Water Measurement Specialist	6 Mar 99	19 Mar 99		
Vic Kimm	Environmental Specialist	24 Feb 99	5 Mar 99		
Dr. Mike Rock	Technical Coordinator	31 Jan 98	6 Feb 98	0.25	0.75
		3 May 98	15 May 98	0.5	
		29 Apr 98	11 May 98	0.5	
Dr. Jack Keller	Senior Irrigation Engineer	31 Jan 98	6 Feb 98	0.25	1.25
		2 Mar 98	14 Mar 98	0.5	
		29 Apr 98	11 May 98	0.5	
Dr. Robert Young	Senior Economist	31 Jan 98	6 Feb 98	0.5	0.50
		3 May 98	15 May 98	0.5	
Dr. Max Lowdermilk	Senior Participation Specialist	6 Feb 98	5 May 98	2.8	3

Name	Position	Arrival	Departure	Reporting Period (pm)	Cumulative (pm)
Local Egyptian Short Term TA					
Eng. Essam Barakat	Senior Irrigation Participation Specialist	1 Feb 98	30 Jun 99	4.5	
Eng. Hussein Elwan	Irrigation Management Specialist	1 May 98	30 Jun 99	3.7	
Eng. Nagati	Groundwater management Specialist	1 Nov 98	31 May 99	2	
Dr. Fatma Gory	Environmental Specialist	1 Nov 98	30 April 99	2	
Eng. Abdel Abu Elnor	Sociologist/Organizational Specialist	1 Mar 99	30 Jun 99	2.7	
Dr. Mohamed Mohieddin	Sociologist	1 April 99	1 May 99	1	
Dr. Samia Galal	Environmental Specialist	1 Dec 98	1 June 99	2	
Dr. Mohamed Rami	Computer Modeling Specialist	1 Jan. 99	30 Jan. 99	2.4	
Dr. Fouad Abdalla Kheiralla	Trainer/Facilitator	1 Jan 99	30 Jan 99	0.5	
1. Eng. Adel Abdel Kader 2. Eng. Fawzy El Bishbihy 3. Eng. Mahmoud Rashad Nasef 4. Eng. Fawzy Ibrahim El Sobary 5. Eng. Sanaa Abdel Rashed 6. Mr.	Rice Water Measurement Team	1 May 98	30 Oct 98	5.8	5.8

Name	Position	Arrival	Departure	Reporting Period (pm)	Cumulative (pm)
7. Abdel El Sayed Abdel Hamid Mr. Fekry Ahmed Ibrahim					
1. Maher El-Khodary 2. Abdel Mageed Esamil 3. Nahed Mahmud Hanafy 4. Magdy Metry 5. Hany Hassan Refaat 6. Taghreed Rodwan Elleithy 7. Nahla Mohamed Assem	Drainage Monitoring Team	1 Aug 98	1 May 99	7.2	
1. Nasr Shazly Hafez 2. Mohamed Abdel Safar Moham	Groundwater Measurement Team	15 Nov 98	1 Mar 99	10.8	

Name	Position	Arrival	Departure	Reporting Period (pm)	Cumulative (pm)
3. Mohamed Omar Toleib					
4. Mohamed Raafat Omar					
5. Mansour Ibrahim Sayed					
6. Saad Youssef Abdou Bakr					
Egyptian Admin Staff					
Foaz El Mona Fouad	Executive secretary	15 Sep 97	30 Sep 99	3	18.5
Jacqueline Rizk	Accountant	3 Aug 97	2 Aug 99	3	20
Amira Serry	Secretary	14 Dec 97	30 Sep 99	3	15.5
Mona Zakhary	Secretary	2 Jun 98	1 Jun 99	3	10
Kalid Mokhtar	Messenger	1 Oct 97	30 Sep 99	3	18
Akmed Mahmoud	Messenger	20 Nov 97	30 Sep 99	3	16.2
Saeed Maebed	Driver	12 Feb 98	30 Sep 99	3	13.8
Adel Moustafa	Driver	17 Feb 98	30 Sep 99	3	13.5
Ahmed Saeed	Driver	10 Aug 98	9 Aug 99	3	7.66

VII. STATUS OF FINANCES AND EXPENDITURES

Financial summary for 1st quarter 1999 (January-March 1999)

	Itemized Budget	Prior Claimed	Current Claim	Claims to Date	Remaining Balance	Budget Claimed
Direct Labor	\$5,269,975	\$1,770,367	\$462,207	\$2,232,574	\$3,037,401	42%
Travel and Transportation	\$448,658	\$141,307	\$23,568	\$164,875	\$283,783	37%
Per Diem	\$221,277	\$77,948	\$13,045	\$90,993	\$130,284	41%
Allowances	\$881,375	\$421,097	\$79,793	\$500,889	\$380,486	57%
Other Direct Costs	\$1,177,769	\$549,750	\$107,176	\$656,926	\$520,843	56%
Total	\$7,999,054	\$2,960,469	\$685,788	\$3,646,257	\$4,352,797	46%

Source: IRG Invoice #22

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 Management	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 Workplan	November 1998
13	Quarterly Report (July-September 1998)	Decemeber 1998
14	Quarterly Report (October-December 1998)	January 1999