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Quarterly Report

Year 4: 1st Quarter
(October - December 2007)
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QUARTERLY REPORT
Year 4: 1st Quarter
(October - December 2007)

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ACRONYMS AND ABBREVIATIONS

| | |
|--------|---|
| AAU | Agricultural Administrative Unit |
| AED | Academy for Educational Development (a US based entity providing USAID funded assistance regarding environmental education and awareness) |
| APRP | Agricultural Policy Reform Program |
| ASC | Alliance Steering Committee |
| BC | Branch Canal |
| BCWUA | Branch Canal Water User Association |
| CADI | Computer Assisted Development Inc. (a Ft. Collins, Colorado based consulting firm) |
| CD | Central Directorate |
| CDA | Community Development Association |
| CDIAS | Central Directorate, Irrigation Advisory Service |
| CEDARE | Centre for Environment & Development for Arab Region and Europe |
| CTO | Cognizant Technical Officer. The USAID person responsible for supervising a technical assistance contractor |
| CY | Calendar Year |
| DAI | Development Alternatives, Inc. (a Washington DC based consulting firm working with IRG to implement the project) |
| DBAF | Dual Biological Aerated Filter (waste water treatment process) |
| EEAA | Egyptian Environmental Affairs Agency |
| EEPP | Egyptian Environmental Policy Program (a USAID funded program aimed at achieving environmental policy reform) |
| EPADP | MWRI Egyptian Public Authority for Drainage Projects |
| EPIQ | Environmental Policy and Institutional Strengthening Indefinite Quantity Contract |
| ET | Evapotranspiration |
| FAQ | Frequently Asked Questions |
| FWUO | Fayoum Water Users' Organization Project |
| GDA | Global Development Alliance |
| GD | General Directorate |
| GIS | Geographic Information System |
| GOE | Government of Egypt |
| GPS | Global Positioning System |
| GW | Groundwater |
| GWS | Groundwater Sector |
| HD | (Aswan) High Dam |
| IAS | Irrigation Advisory Service |
| IBRD | International Bank for Reconstruction and Development or World Bank |
| ID | Irrigation Department |
| IDS | Irrigation and Drainage system |
| IIIMP | Integrated Irrigation Improvement and Management Project |
| IIP | Irrigation Improvement Project |
| IRG | International Resources Group (a Washington DC based consulting firm that is prime contractor for the IWRMP) |
| IRU | MWRI Institutional Reform Unit |
| IRs | Intermediate Results |
| IS | Irrigation Sector of the MWRI |
| IT | Information Technology |

| | |
|--------|--|
| IWMD | Integrated Water Management District |
| IWMU | MWRI Integrated Water Management Unit |
| IWRM | Integrated Water Resources Management |
| IWRMP | Integrated Water Resource Management Project |
| LAN | Local Area Network |
| LIFE | Livelihood and Income from the Environment (Project) |
| LOE | Level of Effort |
| LTTA | Long-term Technical Assistance |
| M&E | Monitoring and Evaluation |
| MALR | Ministry of Agriculture and Land Reclamation |
| MED | MWRI Mechanical and Electrical Department |
| MIC | MWRI Ministry Information Center |
| MISD | Matching Irrigation Supply and Demand |
| MOE | Ministry of Education |
| MOH | Ministry of Housing |
| MOU | Memorandum of Understanding |
| MSEA | Ministry of State for Environmental Affairs |
| MS | Master of Science |
| MWRI | Ministry of Water Resources and Irrigation |
| NGO | Non-Governmental Organization |
| NWRC | MWRI National Water Research Center |
| O&M | Operation and Maintenance |
| OJT | On-the-Job Training |
| PB | Performance Benchmarking |
| PM&E | Performance Monitoring and Evaluation |
| PWM | Participatory Water Management |
| RSC/WP | Red Sea Coastal/Water Project, short name for USAID Red Sea Coastal and Improved Water Resource Management Project |
| RWP | Relative Water Supply |
| SIRs | Sub-Intermediate Results |
| SOs | Strategic Objectives |
| STTA | Short-term Technical Assistance |
| TA | Technical Assistance |
| TOR | Terms of Reference |
| TOT | Training of Trainers |
| UNICEF | United Nations International Children's Emergency Fund. |
| USA | United States of America |
| USAID | United States Agency for International Development |
| USCID | US Committee on Irrigation and Drainage |
| WCU | MWRI Water Communication Unit |
| WDC | MWRI Central Water Distribution Center |
| WPRP | Water Resources Results Package |
| WQU | MWRI Water Quality Unit |
| WRI | Water Resource Inventory |
| WUA | Water User Association |
| WWTF | Waste Water Treatment Facility |
| WWHC | Water and Waste Water Holding Company |

I. SUMMARY

International Resource Group (IRG) under the USAID/Egypt funded Livelihood and Income from the Environment Integrated Water Resources Management Project (LIFE IWRM), Contract No. EPP-I-802-03-00013-00 Task Order 802 is responsible for assisting the Government of Egypt (GOE) to promote integrated water resources management. The period of performance of the project is from October 1, 2004 to September 30, 2008.

The purpose of this report is to present the status and performance of LIFE IWRM for Year 4 (2007/2008) 1st Quarter covering the period from October to December 2007. The quarterly report has the following content: summary of project activities, accomplishments for this quarter, planned activities for the following quarter, problems and issues, staff level of effort, status of finance and expenditures, and list of reports.

A summary of the activities for the quarter follows:

Fourth Amendment to assistance agreement between GOE and USAID for LIFE Project signed.

Year 3 Annual Report submitted to USAID. Year 4 Workplan was sent to USAID for approval. Year 4 STTA was approved by USAID. Contract MOD 4 was issued by USAID obligating remainder of USD amount.

Doug Clark, IRG Corporate Vice President, arrived for a one week coordination visit on 24 October.

Eng. Wafaa (CTO) attended monthly LIFE Project coordination meetings at MWRI, Cairo.

Integrated Water Management Unit (IWMU) continued to provide excellent coordination for the Project with MWRI entities to achieve Project objectives and facilitate implementation of Project activities in the field. IWMU purchase order renewed for 2007/2008.

The 23 new IWMDs are fully functioning. The total number of IWMDs, including those formed under RSC/WP, is now 27 and includes all the Districts in the 5 target Directorates (New Zifta, W. Sharkiya, E. Qena, W. Qena, and Aswan). One of the 5 General Directors, 3 of the 27 IWMD managers, and 25% of the section heads are women. Monthly Directorate coordination meetings were held and monthly reports were prepared by all IWMD managers and General Directors. Monthly maintenance coordination meetings were held.

Formation of BCWUAs has been completed. The total number of BCWUAs in the 27 IWMDs is now 600. The BCWUAs serve 500,000 branch canal water users and cover more than 1000 branch canals. Activation activities have been completed. This included preparation of internal regulations, annual maintenance priorities, and action plans. Organizational and process documentation was compiled and transmitted to all BCWUAs. Participatory Water Management (PWM) activities continued for all BCWUAs in all 27 IWMDs. Monthly water advisory meetings were held at Directorate level to improve IWMD coordination on BCWUA activities. Participatory water management training of trainer training was held for IWMD staff. Winter season seasonal meetings were held by all IWMDs with all BCWUAs chairpersons. Specific tasks and activities were assigned to all BCWUAs board members. 304 BCWUAs now have permanent offices. BC maintenance activities

implemented using local labors jointly supervised by BCWUA and Districts continued in 7 IWMDs on 10 BCs. 400 BCWUAs have documented success stories.

Information on water quality and water quantity data is being recorded, analyzed, and reported by all of the 27 IWMDs. The water monitoring/discharge measurement program continued at 84 irrigation canal inflow/outflow and 64 drain sites. A prioritized calibration program for branch canals was started. Daily water level data for over 1000 sites are being entered by IWMD staff into a water level database. Seven Campbell Scientific data loggers supplied by Project for continuous flow monitoring have been successfully installed at various critical water measurement locations. Monthly water distribution meetings were held at Directorate level to improve IWMD coordination on assessment of water needs and allocation of water resources. The implementation of the Matching Irrigation and Supply and Demand (MISD) program continued. Biweekly data from the Ministry of Agriculture is being collected by the IWMDs on crops and cropping patterns. Seasonal coordination meetings between MWRI and MALR were held (one in each Directorate) to review MISD procedures and irrigable areas. Water quality and groundwater monitoring continued in all IWMDs. Consolidation of water level, complaint, groundwater, water quality, and MISD databases at directorate-level was completed. Digital base maps showing canals, drains, and water monitoring sites for all 27 IWMDs have been completed. The field surveys by IWMD staff using hand held GPS devices to confirm branch canal areas have been completed. Reconciliation of branch canal areas between MALR and MWRI has been completed in 21 IWMDs. Data collection for water resource inventory was completed for each IWMD.

To support Task 4: Improved Maintenance and Upgrading of Water Management Equipment, a consultant was hired to prepare a training module on irrigation pump maintenance for BCWUAs.

Task 5 activities continued in Senbo Village, Gharbiya Governorate, the pilot area selected for demonstrating environmental services for improving water quality management. The water quality monitoring program is on-going. The 600 m³/day Dual Flow Aerated Bio-filters (DBAF) waste water treatment facility constructed under the Project is under operation. Five persons have been employed under an OJT program by the Project to operate the DBAF. Discussions were initiated between MWRI, LIFE IWRM, Water & Waste Water Holding Company, and CDA on transfer of the DBAF to the Gharbiya W&WW Company.

GDA “Environmental Services for Improving Water Quality Management in Rural Areas in Egypt” between Coca Cola, USAID, MWRI, IRG, and UNICEF is under implementation. A GDA Steering Committee meeting was held. The implementation plan was approved. Activities were initiated in the villages of Damanhour El Wahsh & Shobra Kas (Gharbiya Governorate) and El Toud & Odiesat (Luxor, Qena Governorate). Local councils committed land for construction of waste water treatment facilities (WWTF). Data collection for the design of 3 WWTF and 2 agriculture recycle schemes completed. RFQ for design, build, and transfer of WWTF for 3 locations was drafted.

The Luxor wastewater reuse demo site is operational. This activity is under direction of EEAA with support from MALR. Five crops are under cultivation. Olive trees were planted. Marketing of flowers from the demo site continued. Seven new graduates are under training. Draft Environmental Evaluation report was prepared.

Nine persons have been sponsored for MS Graduate Degree Training. Two persons completed their programs at Utah State University, USA, in irrigation and hydraulic engineering. Two persons are attending American University Cairo in environmental engineering. Five persons are attending local universities.

The MWRI Water Communication Unit continued compiling IWMD and BCWUA success stories from each of the 27 IWMDs. WCU published and distributed over 1500 copies of the 3rd issue of quarterly newsletter on success stories.

Year 3 Farmers Field Survey and Year 3 M&E reports were published. A monthly District Performance monitoring report was introduced.

The Project conducted 17 training events and sponsored 12 Directorate monthly meetings, 10 Maintenance Monthly Meetings, 10 Water Advisory Monthly Meetings, 11 water distribution meetings and 5 MALR/MWRI Seasonal Meetings during the reporting period with 1611 participants (12 % female). Project sponsored 3 MWRI participants to attend US Committee on Irrigation and Drainage (USCID) Conference held in Sacramento, California, USA from 28 September to 8 October.

II. ACCOMPLISHMENTS DURING THE REPORT PERIOD

Task 1: Formation of Integrated Water Management Districts

Eng. Nabil Fawzi (LTTA, Local Water Resources Management Specialist) is the LIFE Regional Advisor for Upper Egypt. He is supported by Eng. Yehia Youssef (IWMU). Eng. Maher Khodary (LTTA, Water Resources Management Specialist) is the LIFE Regional Advisor for Lower Egypt. He is supported by Eng. Mohamed El Hamrawy (IWMU). Activities carried out during the report period:

- Monthly coordination meetings held with Undersecretaries, General Directors, and IWMD managers in the five target Directorates (New Zifta, W. Sharkiya, E. Qena, W. Qena, and Aswan). The meetings are used for dissemination of information, monitoring of progress, discussion of upcoming events, identification of roadblocks, and sharing of experiences.
- IWMD managers prepared and submitted IWMD monthly reports to General Directors, who in turn prepared Directorate monthly reports.
- Translation of “Guidelines for Implementation of Integrated Water Management Districts” into Arabic completed and reviewed.
- IWMU sponsored meeting held with Irrigation Department and Drainage Authority (EPADP) to discuss budget arrangements for IWMDs.
- Conducted monthly coordination meetings at Directorate level for the maintenance engineers. These meetings are held to coordinate, monitor, and follow up maintenance activities among IWMDs in each Directorate.
- Started Directorate Canal/Drain Maintenance Inventory Data Base design and development.

Task 2: Formation of Branch Canal Water Users’ Associations

Eng. Moamen Mohamed Said El Sharkawy (IWMU) and Eng. Amira Abdel Hady (IWMU) are coordinating this task. Activities carried out during the report period under Task 2:

- Sayalet Badran BCWUA in Luxor IWMD was merged with El Salamayi BCWUA. There are now 600 BCWUAs covering all the branch canals in the 27 IWMDs.
- Compiled and transmitted organizational and process documentation to all BCWUAs in IWMDs. Process documentation includes decrees, MOUs, internal regulations, maintenance priorities, and action plans for each all BCWUA.
- Assigned water advisory coordinators at Directorate level.
- Conducted monthly coordination meetings at Directorate level for the water advisory engineers. These meetings are held to coordinate, monitor, and follow up participatory water management activities among IWMDs in each Directorate.
- Assigned specific tasks and activities to all BCWUAs board members under the framework of participatory water management.
- Conducted BCWUAs Participatory Water Management training course for the 27 IWMDs. The training objective was to assist IWMD staff to be able to raise awareness of all BCWUA board members about participatory water management concepts, framework, activities, outputs and benefits. IWMDs initiated training their BCWUAs board members on PWM activities
- Assisted with the winter season seasonal meetings held by all IWMDs with all BCWUAs chairpersons. These seasonal meetings are used for district-level

information sharing and discussions between IWMD staff and BCWUAs representatives.

- Followed up BCWUAs activation and participatory water management activities. These activities are provided for IWMD staff to engage BCWUAs in water management through specific activities regarding operation and maintenance of waterways, improvement of waste management and water quality, and communications with and within BCWUAs.
- Compiled all guidelines on BCWUA formation.
- Monitored BC maintenance activities using local labors jointly supervised by BCWUA & Districts in 7 IWMDs on 10 BCs in Qena E. & W. Directorates. Worked with W. Sharkiya, N. Zifta and Aswan USs/DGs to initiate similar activities.
- Assisted IWMDs in identifying permanent office locations for BCWUAs. 304 BCWUAs now have permanent offices.
- Assisted IWMDs in preparing membership cards for all board members. Membership cards for all chairpersons have already been prepared.

The status of the BCWUA activities is summarized below:

| Directorate | W. Sharkiya | New Zifta | E. Qena | W. Qena | Aswan | Total |
|----------------------|-------------|-----------|---------|---------|------------------|------------|
| Established | 151 | 105 | 101 | 124 | 119 | 600 |
| MOUs | 151 | 105 | 101 | 124 | 118 ¹ | 599 |
| Internal regulations | 151 | 105 | 101 | 124 | 118 ¹ | 599 |
| BC priorities | 151 | 105 | 101 | 124 | 118 ¹ | 599 |
| Action Plans | 151 | 105 | 101 | 124 | 118 ¹ | 599 |

¹ Malikia BCWUA, E. Edfu IWMD

Task 3: Equitable Allocation of Water Resources

Dr. Ragab Ali Abdel Azim (Water Resources Management Specialist) is coordinator for this task with assistance from Eng. Alaa Abbas (IWMU), Eng. Mohamed Hamed (IWMU), Eng. Hisham Shehab (IWMU), and Dr. Mohamed Rami Mahmoud (MWRI). Dr. Tom Sheng (IRG) provides expat short-term technical assistance. LIFE IWRM activities carried out during the report period under Task 3:

- A calibration report compiling all 84 canal inflow/outflow sites & 65 drainage sites were prepared. Monitoring and flow measurements at these sites continued. A prioritized calibration program for branch canals started in all IWMDs.
- Water resources inventory data were compiled and reports prepared for each IWMD and Directorate.
- Calculation of biweekly water supply to all 27 IWMDs continued.
- Data logger operations continued at 7 sites.
- Directorate IT teams made monthly visits to IWMDs. The IT teams now prepare monthly reports on the status of computers and submit these to their Directorate.
- MISD process ongoing in all 27 IWMDs and Directorates. Calculation of biweekly water demands continued.
- MISD database consolidation at Directorate installed. Under this activity, canal coding system was devised so that IWMDs canals can be linked to Directorate main canals. This canal coding system will be used as input to maintenance database.

- MISD database manuals were prepared for Directorates and IWMDs.
- Consolidation of water level & complaint, groundwater, and water quality databases completed. Manuals for these databases were prepared for IWMDs and Directorates.
- Water quality monitoring continued (over 380 sites).
- Well inventory continued in all IWMDs; 7000 wells inventoried.
- Directorate water distribution meetings held on monthly basis.
- Targeted releases for IWMDs for year 2007/2008 prepared and approved by irrigation sector. TA provided on preparation of Directorate water management plans for Year 2007/08.
- Water control structure inventory started in all IWMDs.
- All BC command areas previously surveyed using GPS were reviewed with each IWMD and Directorate.
- Five Seasonal coordination meetings between MWRI and MALR were held (one in each Directorate) to review MISD procedures and irrigable areas.
- Digital map consolidation at Directorate was initiated.
- Training of technicians on canal operation was started in all IWMDs. It is expected to be completed in January 2008.

Task 4: Improved Maintenance and Upgrading of Water Management Equipment

Dr. Wadie Fahim Mankarious (Senior Organization/Institutional Development Specialist) is coordinator for this task. Activities carried out during the report period:

- A consultant was hired to prepare a training module on irrigation pump maintenance for BCWUAs.

Task 5: Environmental Services for Improving Water Quality Management

Dr. Wadie F. Mankarious (Senior Organization/Institutional Development Specialist) is coordinator for this task. He is assisted by Eng. Mohamed Hamed (IWMU). STTA is being provided by Dr. Mohamed El-Hussaini (Waste Water Treatment Consultant). Activities carried out during the report period:

Senbo Pilot

- Senbo DBAF is operational. O&M is being conducted by local technicians selected by the CDA and trained by the project. O&M costs are being covered by the Project.
- Continued to collect water samples to monitor DBAF system performance.
- Meetings were held with Tanta Water & Wastewater Company and the Wastewater Holding Company concerning turn-over of the DBAF facility to Tanta Water & Wastewater Company.
- H.E. Minister MWRI sent a letter to Minister of Housing informing him of the success of the DBAF facility in Senbo and requested that after successful completion of performance testing Tanta Water & Wastewater Company assume responsibility for O&M with the assistance of CDA.

GDA:

- Final implementation plan was approved by the Alliance Steering Committee (ASC)
- Focus group meetings were held with the representatives of the two villages: Shobra Kas (Gharbiya) and El Toud (Qena).

- Damanhour El Wahsh & Shobra Kas (Gharbiya Governorate) and El Toud & Odiesat (Luxor, Qena Governorate) sent their commitments on providing land area for WWTFs
- El Toud and Odiesat (Luxor, Qena Governorate) sent their commitments on providing land area for agricultural waste recycling.
- Final draft report on data collection for the design of WWTF prepared.
- Ag recycle consultant finished data collection.
- A draft RFQ for design, build, and transfer of WWTF for 3 locations was prepared and is under review.
- A Project Fact Sheet was drafted and sent to USAID and WADA to review.
- A GDA Steering Committee meeting was held on 19 Nov.

Task 6: Improved Wastewater Reuse Practices

Dr. Wadie Fahim Mankarious (Senior Organization/Institutional Development Specialist) is coordinator for this task. He is assisted by Eng. Mohamed Hamed (IWMU). Short term technical assistance is also being provided by Eng. Ayad Thapet Kariakos (ECODIT-Demo site coordinator) and Eng. Awad Shafik (Demo Site Manager Consultant). Karim El-Jisr (ECODIT) is providing expat short-term technical assistance. Activities carried out during the report period:

- Marketing of flowers from the demo site in Luxor continued.
- Environmental monitoring continued.
- Training of the new graduates started.
- Draft Environmental Evaluation report prepared and under review.

Task 7: Graduate Degree Training

Dr. Ibrahim Ellassiouti (LLTA, Deputy Chief of Party) is the coordinator for this task. He is being assisted by Dahlia Hamdy (LTTA, Organizational and Institutional Development Specialist). Activities carried out during the report period by LIFE IWRM team included:

- Continued monitoring status and progress of local MS Trainees: two at American University Cairo and 5 at local universities.
- Provided financial and logistical support for local trainees.

Monitoring and Evaluation

Dr. Ibrahim Ellassiouti (LLTA, DCOP) is coordinator for this activity. Eng Alaa Abbas (IWMU) is providing local STTA support. Dr. Mark Svendsen (DAI) is providing expatriate STTA support. Activities carried out during the report period:

- Submitted Year 3 M&E report to USAID.
- Submitted Year 3 Field Survey of Farmers in 27 IWMDs report in both English and Arabic to USAID.
- Consolidated M&E Secondary data for Summer 2007.
- Initiated monthly District Performance monitoring report.

Education, Communication, Public Awareness and Participation

Dr. Khalid Wassif (MWRI) provided STTA support for this Task. Patrick Papania (AED) is providing expatriate STTA support. Six members of the MWRI Water Communication Unit staff have been engaged in various cross-cutting communication activities including

planning, shooting and editing video; still photography; and writing and design for program materials. Activities carried out during the reporting period by the communications team:

- Continued collection of IWMD and BCWUA success stories by WCU. Over 400 have been written up in Arabic; and translation to English has been completed on 270 stories.
- WCU published the third issue of the quarterly newsletter on success stories. The newsletter was distributed by WCU as follows: 27 IWMDs (40 copy each); 30 journalists; 200 ordinary irrigation & drainage districts; all Irrigation/ Drainage/ Groundwater Directorates & Undersecretaries (1 copy each); MWRI staff in Ministry Building Cairo (1 copy each); related projects i.e. World Bank, IIIMP, W. Delta, Fayoum, CDIAS, & IIP (1 copy each).
- WCU prepared the fourth issue of the quarterly newsletter on success stories.
- WCU finished all the required modification for Task 5 brochure. Pretest was conducted in Aswan IWMDs.
- WCU produced the New Year Calendar.
- WCU is developing a script for Video Film of BCWUA.
- WCU is developing printed material for most frequent asked questions (FAQ) regarding IWMDs.
- Presentation on LIFE IWRM was given at “DSS in IWRM” conference sponsored by Centre for Environment & Development for Arab Region and Europe (CEDARI) on November 7.
- Maintained project web-site and photo archive.

Training

Dahlia Hamdy (LTTA, Organization/Institutional Development Specialist) is coordinator for this component. Activities carried out during the report period by LIFE IWRM team:

- Project sponsored 3 MWRI participants to attend USCID Conference held in Sacramento, California, USA from 28 Sep to 8 Oct.
- Prepared, coordinated, and followed-up with the regional offices in Lower and Upper Egypt for all project related training programs.
- Compiled documentation for each training event.
- Monitoring status and progress of local MS Trainees: two at American University Cairo, and 5 at local universities.
- Provided financial and logistical support for all trainees.
- Maintained Project training database.

The following table shows the number of participants which have been trained under the project through the end of the reporting period.

| Total to Date | | | Quarterly Total | | |
|---------------|------|--------|-----------------|------|--------|
| Total | Male | Female | Total | Male | Female |
| 8443 | 6989 | 1454 | 1633 | 1429 | 204 |

Training conducted during the reporting period is listed below:

| ID | Course Title | Task | Events | Date | Venue |
|-----|-----------------------------|------|--------|---------|------------------|
| 8.2 | Directorate Monthly Meeting | 1 | 12 | Monthly | Each Directorate |
| 1.8 | Maintenance Monthly Meeting | 1 | 10 | Monthly | Each Directorate |

| ID | Course Title | Task | Events | Date | Venue |
|--------|---------------------------------|------|--------|--------------|---------------------|
| 2.4.6 | Water Advisory Monthly Meeting | 2 | 10 | Monthly | Each Directorate |
| 2.4.1 | BCWUA Part. Management | 2 | 6 | Nov – Dec 07 | Each Directorate |
| 2.4.3 | BCWUA Part. Management 2 | 2 | 5 | Dec 07 | Each Directorate |
| 3.4.4 | MALR/MWRI Seasonal Meeting | 3 | 5 | Nov 07 | Each Directorate |
| 3.3.14 | Water Distribution Meeting | 3 | 11 | Monthly | Each Directorate |
| 3.4.1 | Digital Mapping Refresher | 3 | 3 | Dec 07 | W. Sharkiya & Aswan |
| 3.4.5 | Internal Auto Cad Training | 3 | 1 | Dec 07 | Qena |
| 3.4.2 | Canal Operation | 3 | 2 | Dec 07 | Lower Egypt |
| 3.3.9 | Water Quality Reporting | 3 | 1 | Dec 07 | Zifta |
| 5.4.1 | GDA Steering Committee Meeting | 5 | 1 | Nov 07 | Cairo |
| 6.4.2 | Improving Water Reuse Practices | 6 | 1 | Nov 07 | Luxor |

Procurement

Mahmoud Said, (LLTA Procurement Officer) is responsible for this activity. Activities carried out during the report period by LIFE IWRM team included:

- Continued preparation of specifications and procurement of project equipment as required.
- Continued to install and transfer all supplied equipment to MWRI.
- Continued to maintain equipment supplied under project.
- Supplied 7 air conditioners: 3 Aswan, 4 Qena
- Procured 1 Xerox machine for W. Sharkiya Directorate.

III. ACTIVITIES PLANNED FOR NEXT QUARTER

Task 1: Formation of Integrated Water Management Districts

The following activities are planned for the next quarter:

- Conduct monthly coordination meetings with MWRI managing staff.
- Finalize Canal/Drain Maintenance Inventory DB design and development.
- Publish “Guidelines for Implementation of Integrated Water Management Districts”.

Task 2: Formation of Branch Canal Water Users’ Associations

The following activities are planned for the next quarter:

- Follow up BCWUAs activation in all IWMDs.
- Assist Directorates in conducting annual coordination meetings with BCWUAs.
- Support IWMD staff in implementing participatory water management activities with all BCWUAs.
- Support IWMD staff in raising awareness and assigning tasks to all their BCWUAs on participatory water management activities.
- Continue assisting IWMDs in compiling process documentation.
- Complete production of BCWUA boundary digital maps.
- Support IWMDs in assisting BCWUAs to identify permanent offices.
- Assist IWMDs in completing preparation of membership cards for all BCWUAs members.

Task 3: Equitable Allocation of Water Resources

The following activities are planned for the next quarter:

- Dr. Tom Sheng’s (Expat. STTA) next visit is scheduled for February/March 2008.
- Finalize the approval on MISD and BCs areas through coordination between MALR and MWRI.
- Continue support to all water monitoring activities (water levels, discharges, and water quality).
- Collect BC flow measurements and tabulate data for calibration.
- Conduct monthly water distribution coordination meetings.
- Conduct Integrated Water Management training for IWMDs and Directorate staff
- Purchasing 10 current meters; 3 for Zifta, 3 for West Sharkiya, and 4 for Aswan.
- Continue support to MISD activities and MISD database consolidation. The approved MISD areas will be used in the database.
- Complete canal operation training.
- Continue water structure inventory.
- Continue support to digital map consolidation at Directorate.

Task 4: Improved Maintenance and Upgrading of Water Management Equipment

The following activities are planned for the next quarter:

- Prepare the training material for pump maintenance course.
- Training of trainers on the material for pump maintenance.

Task 5: Environmental Services for Improving Water Quality Management

The following activities are planned for next quarter:

Senbo Pilot:

- Transfer the DBAF in Senbo to Tanta Water & Wastewater Company as recommended by MWRI.

GDA:

- Issue RFQ, select contractors, sign contracts, complete design, and start construction of the 3 WWTF.
- Review Agricultural Waste recycling program implementation alternatives.
- Procure and install equipment for ag waste recycle program for 2 locations.

Task 6: Improved Wastewater Reuse Practices

The following activities are planned for the next quarter:

- Continue monitoring of water quality and cultivated crops.
- Continue training of the new graduates.
- Continue marketing of crops.
- Prepare a brochure on the activity.
- Issue the Environmental Evaluation report
- Conduct a special Feasibility Economic Study on Jatropha as requested by EEAA.
- Prepare conditions and procedures for transfer of the Demo site.

Task 7: Graduate Degree Training

The following activities are planned for the next quarter:

- Continue monitoring status and progress of all trainees.
- Provide financial and logistical support for trainees.

Monitoring and Evaluation

The following activities are planned for the next quarter:

- Dr. Mark Svendsen's (Expat. STTA) next visit is scheduled for February/March 2008.
- Analyze Secondary M&E data from all project IWMDs for summer 2007.
- Work with General Directorates and District Managers to interpret the meaning and implication of year 3 performance indicator values relative to baseline values.
- Coordinate with the Project team to improve the quality and reliability of data coming through the General Directorate Information System.
- Prepare terms of reference for the fourth round of the M&E Field Survey and select contractor who will carry out the survey.
- Implement a training program for district staff who will serve as survey enumerators and supervisors for the field survey.

Education, Communication, Public Awareness and Participation

The following activities are planned for the next quarter:

- Produce a film about BCWUAs.

- Follow up the success stories gathering.
- Continue success stories translation.
- Produce the fifth issue of IWMD newsletter.
- Print Task 5 brochure.
- Produce BCWUAs fact sheets (4).
- Start brochure on Participatory Water Management.
- Design a strategy for producing and broadcasting TV airtime for awareness of project messages.

Training

The following training courses are planned for the next quarter:

| ID | Course Title | Task | Events | Date | Venue |
|-----------|--|------|--------|--------------------|------------------|
| 8.2.119 | Directorate Monthly Meeting | 1 | 12 | Jan. 08 – Mar.08 | Each Directorate |
| 1.8.11 | Maintenance Monthly Meeting | 1 | 15 | Jan. 08 – Mar.08 | Each Directorate |
| 2.4.6.11 | Water Advisory M. Meeting | 2 | 15 | Jan. 08 – Mar.08 | Each Directorate |
| 2.4.5.1 | BCWUAs Annual Coordination Meeting | 2 | 9 | Jan. 08 – Mar.08 | Each Directorate |
| 3.3.14.66 | Water Distribution Meeting | 3 | 15 | Jan. 08 – Mar.08 | Each Directorate |
| 3.4.1.4 | Digital Mapping Refresher | 3 | 3 | Jan. 08 | Qena & Zifta |
| 3.4.2.3 | Canal Operation | 3 | 3 | Jan. 08 | Upper Egypt |
| 3.4.3.1 | Integrated Water Management Plan | 3 | 5 | Feb.08 - March 08 | Each Directorate |
| 3.4.5.1 | Violation Database Installation | 3 | 5 | Feb. 08 - March 08 | Each Directorate |
| 5.4.1 | GDA Monthly Meeting | 5 | 2 | Feb. 08 - March 08 | Cairo |
| 6.2.26 | OJT for Graduates on Reuse of Treated Waste Water in Agriculture | 6 | 3 | Jan. 08 – Mar.08 | Luxor |

Procurement

Projected procurement activities for next quarter include the following activities:

- Continue procurement, supply, and installation of commodities.
- Prepare MWRI equipment transfer procedures as required.
- Procure 10 current meters from USA.

IV. PROBLEMS AND ISSUES

Task 1: Formation of Integrated Water Management Districts

Sustainability of the IWMDs after completion of the Project is dependent on appropriate budget and support from MWRI. The Project is working with USAID and MWRI to address these issues.

WCU is developing printed material for most frequent asked questions (FAQ) regarding IWMDs.

Shortage of managing staff (engineers) in Aswan directorate remains an issue. This has been raised to the attention of the MWRI.

IWMDs are responsible for more tasks than the previous irrigation districts. Their needs in terms of budget, facilities, and resources are greater. The Project is working with MWRI to identify those needs and address them.

The drainage maintenance budgets have not yet been transferred from EPADP to the Irrigation Department. This creates serious delays and issues for drainage maintenance. The Project is working with MWRI to solve this problem.

Task 2: Formation of Branch Canal Water Users' Associations

The establishment of BCWUAs will be sustainable only if these associations bring tangible benefits to their members and thus achieve credibility.

The Project has trained the IWMD staff in all 27 IWMDs on Participatory Water Management. The IWMD staff has been provided with tools and procedures for working with the BCWUAs. A BCWUAs board members training program is being planned to better explain roles and responsibilities of the BCWUAs regarding their participation in specific water management activities such as operation and maintenance of waterways, improvement of waste management and water quality, and communications with and within BCWUAs.

Task 3: Equitable Allocation of Water Resources

Activities such as water monitoring and data management require continuing technical support to IWMD staff. In order to ensure the sustainability of such activities, the Project is mobilizing and building the capacity of support staff at Directorate level.

10 current meters will be provided to IWMDs to support water monitoring program particularly at BC level.

Because of the success of the data logger activity, using their own funds MWRI procured 26 data loggers from Campbell Scientific Instrument and is planning to procure an additional 54.

Task 4: Improved Maintenance and Upgrading of Water Management Equipment

None at this time.

Task 5: Environmental Services for Improving Water Quality Management

Ownership of the Senbo WWTF and costs for O&M must be transferred from the Project. Discussions were initiated between MWRI, LIFE IWRM, Water & Waste Water Holding Company, and CDA on transfer of the DBAF WWTF.

MWRI and LIFE IWRM recommended to hold procurement of agricultural waste recycle equipment until Senbo CDA can ensure availability of land for the activity.

Task 6: Improved Wastewater Reuse Practices

It is anticipated that procedures for transfer of the Luxor demo site from the Project to EEAA will take time and may need USAID involvement.

Task 7: Graduate Degree Training

The two Utah State University MS trainees returned to USA to pursue PhDs. USAID has agreed to provide them a deferment of the 2 year residency requirement until 2010 if they agree to return to Egypt after they complete their PhDs.

Monitoring and Evaluation

None at this time.

Education, Communication, Public Awareness and Participation

None at this time.

Training

None at this time.

Procurement

None at this time.

V. STAFF LEVEL OF EFFORT

The LIFE IWRM LTTA and STTA professional, technical, and administrative support staff for the quarter are shown below:

RESIDENT STAFF

EXPATRIATE

| NAME | POSITION |
|---------------------|----------------|
| Dr. Jeff Fredericks | Chief of Party |

LOCAL EGYPTIAN

| NAME | POSITION |
|----------------------------|--|
| Dr. Ibrahim El Assiouty | Deputy Chief of Party |
| Dr. Wadie Fahim Mankarious | Senior Organization/Institutional Development Specialist |
| Nabil Fawzi | Water Resource Mgt Specialist (Upper Egypt) |
| Maher Khodary | Water Resource Mgt Specialist (Lower Egypt) |
| Dr. Ragab Abdel Azim | Water Resources Management Specialist |
| Mahmoud Said | Financial/Procurement Officer |
| Dahlia Hamdy | Organization/Institutional Development Specialist |
| Amany Mahmoud | Office and Personnel Manager |
| Nahid Nabil | Administrative Assistant (Upper Egypt) |

SHORT TERM STAFF DURING THE REPORT PERIOD

EXPATRIATE

| NAME | POSITION |
|-----------------|---|
| Mark Svendsen | Senior M&E Specialist |
| Tom Sheng | Senior Information Specialist |
| Bonnie Grover | English Language Technical Editor |
| Patrick Papania | Sr. Environmental Educ & Awareness Specialist |

LOCAL EGYPTIAN

| NAME | POSITION |
|-----------------------------|---|
| Eng. Alaa Abass | Information Specialist |
| Eng. Hisham Shehab | Water Monitoring Specialist |
| Eng. Moamen El Sharkawy | Water Resource Organizational/Institutional Specialist |
| Eng. Amira Abdel Hady | Water Resource Organizational/Institutional/Gender Specialist |
| Eng. Mohamed Hamed A. Latif | Water Quality Environmental Specialist |
| Eng. Ayad Thapet Kariakos | Demo Site Coordinator |
| Dr. Hussein El Atfy | Senior Management/Institutional Specialist |
| Dr. Khaled Wassif | Senior Ed., Comm. and PA Specialist |
| Dr. Mohamed Rami Mahmoud | Senior Water Resources Information Specialist |
| Eng. Safaa Khodary | IT Specialist |
| Eng. Mohamed El Hamrawy | Water Resources and Irrigation Specialist |
| Eng. Yehia Mohamed Youssof | Water Resources and Irrigation Specialist |

VI. STATUS OF FINANCES AND EXPENDITURES

Financial summary for the reporting period October – December 2007 is presented below:

USD Budget

| Budget Line Item | Budgeted | Obligated | Current Claim | Claims to Date | Remaining Balance | % Budget Claimed | Remaining Obligation Balance | % Obligation Claimed |
|----------------------------------|------------------|------------------|----------------|------------------|-------------------|------------------|------------------------------|----------------------|
| Direct and Consultant Labor | 1,337,507 | | 147,227 | 1,194,831 | 142,676 | 89 | | |
| Other Direct Costs | 4,756,111 | | 332,717 | 3,379,647 | 1,376,464 | 71 | | |
| Subcontractor Handling Fee | 53,486 | | 1,305 | 36,072 | 17,414 | 67 | | |
| Fixed Fee | 338,090 | | 26,469 | 253,683 | 84,407 | 75 | | |
| Total Cost Plus Fixed Fee | 6,485,194 | | 507,717 | 4,864,233 | 1,620,961 | 75 | | |
| GDA Component | 230,000 | | 9,018 | 9,365 | 220,635 | 4 | | |
| Total Cost Plus Fixed Fee | 6,715,194 | 6,715,194 | 516,735 | 4,873,598 | 1,841,596 | 73 | 1,841,596 | 73 |

Source: IRG Invoices #1 – 39

LE Budget

| Budget Line Item | Budgeted | Obligated | Current Claim | Claims to Date | Remaining Balance | % Budget Claimed | Remaining Obligation Balance | % Obligation Claimed |
|----------------------------------|-------------------|-------------------|---------------|-------------------|-------------------|------------------|------------------------------|----------------------|
| Direct and Consultant Labor | 6,777,427 | | 0 | 5,014,477 | 1,762,950 | 74 | | |
| Other Direct Costs | 15,290,311 | | 0 | 16,721,213 | -1,430,902 | 109 | | |
| Subcontractor Handling Fee | 98,769 | | 0 | 54,658 | 44,111 | 55 | | |
| Fixed Fee | 1,219,157 | | 0 | 1,198,469 | 20,688 | 98 | | |
| Total Cost Plus Fixed Fee | 23,385,664 | | 0 | 22,988,817 | 396,847 | 98 | | |
| GDA Component | 1,539,000 | | 218 | 218 | 1,538,782 | 0 | | |
| Total Cost Plus Fixed Fee | 24,924,664 | 24,924,664 | 218 | 22,989,035 | 1,935,629 | 92 | 1,935,629 | 92 |

Source: IRG Invoices #1 – 27

VII. LIST OF REPORTS

| No. | NAME | |
|-----|---|----------------|
| 1 | Annual Work Plan Year 1 (October 2004 – September 2005) | December 2004 |
| 2 | Quarterly Report (October - December 2004) | January 2005 |
| 3 | Monitoring and Evaluation Plan | February 2005 |
| 4 | Quarterly Report (January - March 2005) | April 2005 |
| 5 | Quarterly Report (April - June 2005) | July 2005 |
| 6 | Task 5: Senbo Village Household Survey | April 2005 |
| 7 | Task 5: Alternative Methods for Solid Waste Management and Treatment and Disposal of Wastewater | July 2005 |
| 8 | Task 5: Technical Report with Specifications & Table of Quantities of Sewage Pump Station & Treatment Plant for Senbo Village Zifta Markaz – Gharbiya Governorate | July 2005 |
| 9 | Task 4: Assessment of Egyptian Farmers' Need for Improved Maintenance of Irrigation Equipment and Training to Manage Water Users' Associations | August 2005 |
| 10 | Monitoring and Evaluation: Field Survey of Farmers in Twenty Seven Integrated Water Management Districts | September 2005 |
| 11 | Task 1: Establishing Integrated Water Management Districts | August 2005 |
| 12 | Violations Data Base User Manual (Arabic) | August 2005 |
| 13 | Complaints Data Base User Manual (Arabic) | August 2005 |
| 14 | MISD Software User Manual (Arabic) | August 2005 |
| 15 | Task 5: Design and Cost Analysis of Agriculture Wastes Recycling Alternatives for Senbo Village – Gharbiya Governorate | August 2005 |
| 16 | Annual Work Plan Year 2 (October 2005 – September 2006) | August 2005 |
| 17 | Annual Report Year 1 (2004 – 2005) | October 2005 |
| 18 | Water Level Data Base User Manual (Arabic) | October 2005 |
| 19 | Monitoring and Evaluation Report Year 1 | October 2005 |
| 20 | Information System Year 1 Assessment | October 2005 |
| 21 | Task 6: Design of Irrigation Network for the Luxor Demonstration Site | September 2005 |
| 22 | Task 6: Environmental Monitoring Plan for the Luxor Demonstration Site | November 2005 |
| 23 | Quarterly Report (October - December 2005) | January 2006 |
| 24 | Quarterly Report (January - March 2006) | April 2006 |
| 25 | Task 6: Irrigation and Crop Management Plan (Draft) | May 2006 |
| 26 | Monitoring and Evaluation: Field Survey of Farmers in Twenty Seven Integrated Water Management Districts (Year 2) | September 2006 |
| 27 | Annual Work Plan Year 3 (October 2005 – September 2006) | September 2006 |
| 28 | Information System Year 2 Assessment | October 2006 |
| 29 | Annual Report Year 2 (2005 - 2006) | October 2006 |
| 30 | Task 4: Updated Assessment of Egyptian Farmers' Need for Improved Maintenance of Irrigation Equipment and Training to Manage Water Users' Associations | October 2006 |
| 31 | Monitoring and Evaluation Report Year 2 | October 2006 |
| 32 | Quarterly Report (September - December 2006) | January 2007 |
| 33 | Task 6: Economic Feasibility Study of Using Treated Wastewater in Irrigation | March 2007 |
| 34 | Quarterly Report (January - March 2007) | April 2007 |
| 35 | Quarterly Report (April – June 2007) | July 2007 |
| 36 | Monitoring and Evaluation: Field Survey of Farmers in Twenty Seven Integrated Water Management Districts (Year 3) | September 2007 |
| 37 | Information System Year 3 Assessment | September 2007 |
| 38 | Monitoring and Evaluation Report Year 3 | September 2007 |
| 39 | Annual Work Plan Year 4 (October 2006 – September 2007) | September 2007 |
| 40 | Annual Report Year 3 (2006 - 2007) | October 2007 |