



CHEMONICS EGYPT



**C**ORPORATE **E**XPERIENCE

PROJECTS FACT SHEETS



PROJECT NAME	<b>Feasibility Study for the Upgrading of the Kima Drain and Road in Aswan</b>
PROJECT LOCATION	Aswan City
CLIENT	Aswan Governorate/DANIDA
PRIME CONSULTANT	Chemonics Egypt
PROJECT DURATION	May - July 1999
REQUIRED EXPERTISE	<b>Municipal Engineering:</b> physical planning, wastewater and solid waste management, public awareness
PROJECT DESCRIPTION	<p>Through a participatory process to mobilize and involve decision-makers and stakeholders, the project aims to:</p> <ul style="list-style-type: none"> <li>• Assess the overall physical state of the drain, its bridges and roads</li> <li>• Formulate alternative project proposals which aim at contributing to a healthier environment in the drain and its immediate surroundings</li> <li>• Anchor selected projects with relevant stakeholders, and assess their commitment to undertake project implementation</li> <li>• In the event of stakeholder shortcomings in financial and managerial capacity, identify other possible financing sources, assess training needs and prepare training plans</li> <li>• Prepare an implementation plan for each individual project, including required public awareness campaigns.</li> </ul>

## PROJECTS FACT SHEETS



PROJECT NAME	<b>Drain Pollution Sources Study for the Northern and Middle Delta and Fayoum</b>
PROJECT LOCATION	Northern and Middle Delta and Fayoum
CLIENT	Drainage Research Institute - Monitoring and Analysis of Drainage Water Quality Project
SOURCE OF FUNDING	Netherlands Government
PRIMARY FIRM	Chemonics Egypt
PROJECT DURATION	August 1996 - August 1997
REQUIRED EXPERTISE	<b>Environmental Management:</b> pollution source identification and remediation
PROJECT DESCRIPTION	<p>This study examined the main drains in the Fayoum and the Delta region to:</p> <ul style="list-style-type: none"> <li>• Identify the location of pollution sources with respect to drains and provide basic information about the type and order of magnitude of the pollution at the source</li> <li>• Identify possible locations where a reduction of drainage water pollution may be achieved</li> </ul> <p>The project's major activities were divided into three phases as follows:</p> <p><i>Phase I:</i> Collected and reviewed data pertaining to the drainage network (hydraulic data), the boundaries of cities and settlements, industrial activities, wastewater treatment plants, agricultural lands, and the existing monitoring points. Phase I also included analysis of data and preparation of the work plan for Phase II.</p> <p><i>Phase II:</i> The field survey was divided into initial reconnaissance, initial field survey and detailed field investigations to identify the location of industry, agriculture watershed, communities and complete database. When necessary, sampling at selected locations was conducted.</p> <p><i>Phase III:</i> The data analysis and reporting included the identification of drainage pollution sources and the possible locations where a reduction of drainage water pollution might be achieved.</p>

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PROJECT NAME	<b>EIA Guidelines for the Ministry of Water Resources and Irrigation</b>
CLIENT	Ministry of Water Resources and Irrigation
PROJECT DURATION	April 2001 – December 2001
PRIME CONSULTANT	Environics/Chemonics Egypt
REQUIRED EXPERTISE	Environmental Impact Assessment, Institutional Set-up
PROJECT DESCRIPTION	<p>This project provides support to the Ministry of Water Resources and Irrigation to integrate environmental aspects in its standard project cycle by incorporating the environmental assessment process into its planning and decision making phases. The assignment includes:</p> <ul style="list-style-type: none"><li>- The development of an EIA source book that provides guidance to the preparation of an EIA for the Ministry's projects. The projects are categorized according to the Egyptian EIA system.</li><li>- The operational procedures for the actions undertaken to fulfill the Ministry's responsibilities towards the preparation and review of the EIA.</li><li>- Institutional arrangement for the environmental unit responsible for the follow-up and review of the EIA.</li></ul>

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PROJECT NAME	<b>Sources and Impacts of Drain-Borne Pollution on Egyptian Coastal Lakes</b>
PROJECT LOCATION	Delta area: Manzala, Burullus, Edku, Maryut lakes
CLIENT	DANIDA
CONTRACTED BY	DANIDA
PROJECT DURATION	November - December 1994
REQUIRED EXPERTISE	<p><b>Environmental Management:</b> wetland management, fisheries, coastal and lake resource management</p> <p><b>Municipal Engineering:</b> municipal, industrial and agricultural wastewater characteristics and treatment</p>
PROJECT DESCRIPTION	<p>This project was undertaken to determine the probable impacts of a demonstration, large-scale engineered wetland for treating municipal, industrial and agricultural wastewater pollution of the northern coastal lakes. Recommendations for the possible location and appropriate design criteria for this wetland were provided.</p> <p>The project entailed reviewing existing literature on the water quality and fishery resources of Manzala, Burullus, Edku, and Maryut lakes. The impacts of drain-borne pollution on the lake and lagoon ecology and on the economics of fisheries were also reviewed. An analysis of the information led to the completion of a report that presented the following:</p> <ul style="list-style-type: none"> <li>• Location, area and uses of coastal lakes and lagoons</li> <li>• Population, livelihoods and economic characteristics of lakeshore inhabitants</li> <li>• Current quality of lake water and historical trends as they relate to major lake use</li> <li>• Present and historical ecological and economic conditions of fisheries in the area (including employment conditions and the composition, volume and value of catches) and of other uses of the water bodies</li> <li>• Drains that discharge into the water bodies, including flows (m<sup>3</sup>/day, minimum and maximum monthly averages), loads of significant pollutants and major sources of pollution</li> </ul>

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PROJECT NAME	<b>Suez Bay Water Quality Monitoring</b>
PROJECT LOCATION	Suez
CLIENT	NOPWASD
CONTRACTED BY	ABB Susa/Dillingham Joint Venture, USAID-funded project
PROJECT DURATION	December 1993 - September 1997
REQUIRED EXPERTISE	<p><b>Municipal Engineering:</b> water quality sampling and analysis, monitoring program development</p> <p><b>Technical Assistance:</b> database development and implementation</p> <p><b>Institutional Development:</b> develop capabilities to sustain water monitoring program within the wastewater treatment plant operations center</p>
PROJECT DESCRIPTION	<p>For this project, Chemonics Egypt designed and implemented a water quality sampling and analysis program for the Suez Bay, which samples discharge before and after treatment at the wastewater treatment plant. The capacity for continuing the program was institutionalized through the wastewater treatment plant operations center.</p> <p>A database for managing water quality data obtained through the monitoring program was delivered to the client.</p>

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PROJECT NAME	<b>Survey of Water Quality and Flow in Bahr el-Baqar Drain, Egypt</b>
CLIENT	VKI Water Quality Institute
SOURCE OF FUNDING	DANIDA
PRIMARY FIRM	Chemonics Egypt
PROJECT DURATION	July - August 1995
REQUIRED EXPERTISE	<b>Environmental Management:</b> hydrographic survey, water sampling and analysis, flow pattern investigation
PROJECT DESCRIPTION	<p>Preliminary investigations indicated that the implementation of an engineered wetland near the outlet of Bahr el-Baqar drain would significantly improve the environmental conditions in Lake Manzala. The main objective of this study was to define a suitable location to dispose of the effluent from the engineered wetland. The project involved the following activities:</p> <ul style="list-style-type: none"> <li>• A hydrographic survey to define the spatial extension and depth of the different compartments of Lake Manzalla adjacent to the project area</li> <li>• The collection and analysis of water samples to define the water quality in the different compartments</li> <li>• An examination of the interconnections among the different compartments</li> <li>• The preparation of a report defining the most suitable dumping site</li> </ul>

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PROJECT NAME	<b>Evaluating Netherlands Assistance to Water Management and Drainage in Egypt (1975 – 1995)</b>
PROJECT LOCATION	Egypt
CLIENT	Netherlands Inspectorate of International Development Cooperation (IOV)
CONTRACTED BY	Matrix Consultants in Development Management (Utrecht)
PROJECT DURATION	March - June 1995
REQUIRED EXPERTISE	<b>Institutional Development:</b> evaluation of capacity and sustainability of water and drainage programs
PROJECT DESCRIPTION	<p>Assistance from the Netherlands to the Egyptian irrigation and drainage sector began in 1975 and has included 17 projects. Client organizations include the Water Research Center (Groundwater Research Institute and Drainage Research Institute), the General Authority for Drainage Projects and the Fayoum Irrigation Department.</p> <p>This evaluation assessed the policy relevance, effectiveness, efficiency and sustainability of the program at the project, organizational and sectoral levels. Activities included a review of project documentation, project site visits, interviews with client organizations and project end-users, focus group discussions with stakeholders, and a reconstruction of the history of sector policy.</p>

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PROJECT NAME	<b>Legal Assessment of Decentralization and Private Sector Participation in Egypt's Irrigation and Drainage Sector</b>
PROJECT LOCATION	Cairo, Egypt
CLIENT	Royal Haskoning (Netherlands)
PROJECT DURATION	October – November 2002
PROJECT DESCRIPTION	<p>The Government of the Netherlands is providing technical assistance to a newly-established Institutional Reform Unit (IRU) in Egypt's Ministry of Water Resources and Irrigation (MWRRI) in extending and upscaling the processes of water sector reform successfully initiated through the development of water user associations in the 1990s. Among its activities, the IRU stages an annual "round-table conference" which brings together concerned ministries and donors to discuss reform policy options and strategies.</p>
DESCRIPTION OF PROVIDED SERVICES	<p>Chemonics Egypt was contracted by Royal Haskoning to prepare a study and presentations on legal and regulatory constraints and options for establishing user-based district-level water boards and for introducing private sector participation for the second round-table conference, the study presented:</p> <ul style="list-style-type: none"> <li>• Analysis of the framework laws governing the various types of corporate entity in Egyptian law, with a view to assessing the most appropriate form under which to establish district water boards</li> <li>• Review of legal and administrative constraints to board water user charge imposition, revenue retention, and financial management</li> <li>• Proposed legalization measures and institutional strengthening needs</li> <li>• Analysis of legal and regulatory constraints on private sector participation, with emphasis on "killer risks" entailed by existing legislation</li> <li>• Review of reform measures adopted in other infrastructure sectors</li> <li>• Proposed legalization measures and elements of a reform program roadmap.</li> </ul>

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PROJECT NAME	<b>Proposal Formulation Mission for Abd el-Aal Canal in Boulaq el-Daqrour in Giza</b>
PROJECT LOCATION	Giza Governorate
CLIENT	Royal Netherlands Embassy, Cairo
SOURCE OF FUNDING	Netherlands Government
PRIMARY FIRM	Chemonics Egypt
ULTIMATE BENEFICIARY	Giza Governorate
PROJECT DURATION	June 1996 - July 1996
REQUIRED EXPERTISE	<b>Municipal Engineering:</b> water resources management, urban development
PROJECT DESCRIPTION	<p>Chemonics Egypt assisted the Governorate of Giza in formulating a technically, socially and economically feasible solution to the environmental and aesthetic problems associated with existing canal contamination at Abd el-Aal canal in Boulaq el-Daqrour.</p> <p>The specific tasks of the formulation mission included:</p> <ul style="list-style-type: none"> <li>• Preparing a general description of the project, the immediate local community, the existing environmental and physical problems and the community's development priorities</li> <li>• Identifying and describing various ongoing upgrade and development initiatives (i.e. extension of services, basic education programs, etc.) in the area</li> <li>• Identifying the various parties responsible and/or involved in project decision making, design, implementation and O&amp;M, and funding</li> <li>• Determining the project's technical feasibility (including factors such as method and design, capital and labor costs, bill of quantities, etc.) and its economic, social, environmental and health impacts</li> <li>• Preparing a detailed budget for the design dealing with the use of created spaces, taking into account the financial contribution of the Governorate</li> <li>• Preparing a project implementation work plan and organizational framework for all phases of the project's "life cycle" including supervision, monitoring and evaluation</li> </ul>

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PROJECT NAME	<b>Administrative Support to the GreenCOM Program in Egypt</b>
PROJECT LOCATION	Egypt (project also undertaken in other countries by other contractors)
CLIENT	Ministry of Public Works and Water Resources, Egypt
CONTRACTED BY	Chemonics International, USAID-funded project
ASSOCIATED FIRMS	Academy for Educational Development (primary) North American Association for Environmental Education Chemonics International Global Vision, Inc. The Kingsbury Group Porter/Novelli The Futures Group PRC Environmental Management, Inc. World Resources Institute
PROJECT DURATION	1993 - 2001
REQUIRED EXPERTISE	<b>Institutional Development:</b> promotion of public awareness and community support, environmental education
PROJECT DESCRIPTION	<p>The Environmental Education and Communication Project, known as GreenCOM, works through environmental education and communication components of USAID Mission and regional projects to promote public awareness and community support for new environmental policies and practices and to encourage changes in individual behaviors and institutional practices.</p> <p>GreenCOM project staff work with host country partner institutions to provide short- and long-term assistance for a broad range of environmental education and communication activities. These activities rely on practical, field-driven research.</p> <p>The role of Chemonics Egypt in this project has been to provide administrative and financial management for the program in Egypt.</p>

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PROJECT NAME	<b>Administrative Support to the Project in Development and Environment (PRIDE): Egypt Water Quality Monitoring Buy-In</b>
PROJECT LOCATION	Throughout Egypt
CLIENT	Ministry of Public Works and Water Resources, Egypt
CONTRACTED BY	Chemonics International, USAID-funded project
PROJECT DURATION	April 1994 - October 1995
REQUIRED EXPERTISE	<p><b>Institutional Development:</b> assistance in establishing a new water quality monitoring unit and setting policies and procedures for this department</p> <p><b>Technical Assistance:</b> water sampling program, database design and implementation, publications</p>
PROJECT DESCRIPTION	<p>The objective of this project was to create a national water quality-monitoring unit within the Water Research Center (WRC) of the Ministry of Public Works and Water Resources (MPWWR). The new unit will provide leadership in the national water quality monitoring program and will oversee the following activities:</p> <p>Collecting and analyzing water samples</p> <ul style="list-style-type: none"> <li>• Maintaining a database and publishing periodic reports on water quality</li> <li>• Disseminating information to other GOE agencies, the EEAA, NGOs and the public</li> </ul> <p>The overall goal of the unit is to provide accurate and up-to-date information on Egypt's water quality to policy makers, water resource managers and other public and private groups, including the public at large. Chemonics Egypt provided administrative and financial management for the project.</p>