

### EnviroConsult's Project References During the Last 10 years

SN	Project Title	Project Description	Country of region	Project Duration ( Month)	Partners	Client	Financing institute	Project Value (L.E)
1	First Integrated Sanitation and Sewerage Infrastructure Project (ISSIP1)/ Funded by the Wold Bank (in association with Hydroplan)	<p>The purpose of this consultancy assignment is to provide day-to-day programme management technical assistance (PM/TA) support to ISSIP.</p> <p>The small communities' component of the Project builds WSC capacity to engage community associations in planning, O&amp;M management, and cost recovery of small wastewater schemes.</p> <p>The Project comprises three components:</p> <ul style="list-style-type: none"> <li>• Component 1: Provision of sanitation systems within selected drainage sub-basins.</li> <li>• Component 2: Establishment of a local result-based monitoring and evaluation system.</li> <li>• Component 3: Institutional Development and Capacity Building.</li> </ul> <p>The project includes also the design, tender document preparation of 222 rural centralized villages and 120 Decentralized villages. The construction management of the phase 1 and 2 of the project is also within the Scope of the PMC.</p>	Egypt (Delta Region)	48	Hydroplan	HCWW	World Bank	1,267,000,000
2	Second Integrated Sanitation and Sewerage Infrastructure Project (ISSIP1)/ Funded by the Wold Bank (in Association with CCERS)	<p>Consultancy services including feasibility study and design of wastewater management system for 24 villages in rural Sohag-Upper Egypt.</p> <p>The project is divided into two phases; the phase one include 5 villages and the second one includes 19 villages. The service includes:</p> <ul style="list-style-type: none"> <li>• Full Feasibility study</li> <li>• Full Design works and tender documents preparation for the 24 wastewater systems (collection- transport- treatment – disposal)</li> <li>• Technical assistance in tendeing process and contracts award.</li> </ul>	Egypt (Sohag – upper Egypt)	24	Center of civil Engineering Research and studies- Cairo University (CCERS)	HCWW	World Bank	525,000,000
3	Feasibility Study and full design , tender documents and construction supervision for Water Treatment Plants and wastewater / Sanitation systems in Sohag and Assuit Governorates (3 contracts)	<p>1. Consultancy services including feasibility study and full design and Tender documents of:</p> <ul style="list-style-type: none"> <li>• Wastewater management system for 8 villages in rural Sohag-Upper Egypt.</li> <li>• Wastewater management system for 5 villages in rural Assuit-Upper Egypt.</li> <li>• New Construction for one WTP by Slow Sand filtration technology (5,000 m3/day)</li> <li>• New Construction of three WTPs by Iron &amp; Manganese Removal (2x 75 L/S and 1x150L/S) in Assuit and Sohag Governorates.</li> </ul> <p>2. Technical assistance in tendeing process and contracts award.</p>	Sohag and Assuit Egypt	24	None	HCWW- Sohag and assuit WSCs	USAID	220,000,000

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		3. Construction Supervision and construction Management for whole designed WTPs and Sewerage projects in both Sohag and Assuit Governorates. These contracts are managed by FIDIC red book " Detailed design construction contracts"						
4	Master Planning For Water & Wastewater for Kafr El – Shiek Governorate	<p>Preparation of long-term Plans for Water / Wastewater Facilities up to year 2037 including Short- term Plans for 2012 including Hydraulic Modeling. Technical Support and Consultancy Services in cluding:</p> <ul style="list-style-type: none"> <li>• Data Collection, analysis and verification</li> <li>• Surveying of Existing situation</li> <li>• Evaluation of WTPs and WWTPs</li> <li>• Hydraulic analysis for Water and wastewater networks</li> <li>• Preparation of Mater-Planning for water and wastewater works for the period until 2037</li> <li>• Alternatives of WTPs and WWTPs modifications and updating to cope with population and water consumption increase</li> <li>• Preparation of upgrading plans for water and wastewater networks.</li> <li>• Preparation of all documentation in both of reports and GIS amps</li> <li>• Economic study for different alternative of future projects with the planning period until 2037</li> <li>• Quality report foe water resources</li> <li>• Water and wastewater flow-measurements</li> </ul>	Kafr El – Shiek Delta , Egypt.	12	Utilities Consulting Office.	HCWW	National budget GOE	200,000,000 For Short – term Plans.
5	National Project for providing of non-served 240 villages with drinking water (Contract B)	<p>The project was in the framework of a national plan for water supply for non-served rural communities. The project contains 31 small water plants mainly for iron and manganese removal with different capacities ranged between 25liter/sec and 125 liter/sec. the scope of work includes:</p> <p>Technical support and consultancy services for the contracting company (Arab Contractors) including:</p> <ul style="list-style-type: none"> <li>▪ Feasibility study for different treatment alternatives</li> <li>▪ Preparation of workshop drawings of mechanical and hydraulically works of ground water treatment plants. Work includes 36 plants with different capacities from 25 l/sec to 125 l/sec.</li> <li>▪ Specifications and equipment list</li> <li>▪ Bill of quantities for civil/ electromechanical works</li> </ul>	Egypt	24	Arab Contractors and the German consulting office (BAMAG)	NOPWASD	National budget GOE	1,012,000,000
6	Design of wastewater management system (collection, pumping, treatment and disposal) for different villages and cities in Sohag Governorate for Kawamel Bahri ; Awlad Gharib; Arabat (Abu-Aziz and Abu-Dahab); Wakdat ; Ghoreyzat ; Betakh; Ghabat; Al-Hagarsa villages	<p>Studies, design and tender documents preparation of wastewater management system including gravity sewer network, pumping stations (Hydraulic, civil, architectural, and electromechanical works), Force-mains and wastewater treatment plant (Hydraulic, civil, architectural, and electromechanical works including administrative and services buildings).</p> <p>Phase (1):</p>	Egypt	24	None	Sohag Rural Development Project, Sohag Governorate	World Bank	1,170,000,000

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		<ul style="list-style-type: none"> <li>▪ Design and preparation of Tender documents of all sanitation works for El-Hagarsa Village, Sohag.</li> <li>▪ Design and preparation of Tender documents of all sanitation works for El-Kawamel Bahary and Awlad Ghareeb Villages, Sohag</li> <li>▪ Design and preparation of Tender documents of all sanitation works for El- Ghoraizat Village, Sohag</li> <li>▪ Design and preparation of Tender documents of all sanitation works for El-Batakh Village, Sohag</li> </ul> <p>Phase (2): Construction supervision of all sanitation works for all Villages, Sohag</p>						
7	Wastewater system for Al-Azhary Area, Beni Suef Governorate	<ul style="list-style-type: none"> <li>▪ Consultancy services studies, design, and tender documents preparation and construction supervision including Studies, design and tender documents preparation of wastewater management system including gravity sewer network, pumping stations (Hydraulic, civil, architectural, and electromechanical works), Forcemains and wastewater treatment plant (Hydraulic, civil, architectural, and electromechanical works including administrative and services buildings).</li> <li>▪ Phase (1):</li> <li>▪ Design and preparation of Tender documents of all sanitation works for Zone no. 7 El-Azhry, Beni Suef City Beni Suef Governorate.</li> <li>▪ Phase (2):</li> <li>▪ Construction supervision of all sanitation works for Zone no. 7 El-Azhry, Beni Suef City Beni Suef Governorate.</li> <li>▪ These contracts are managed by FIDIC red book “ Detailed design construction contracts”</li> </ul>	Egypt	12	CCERS	Beni Suef WSC	USAID	27,800,000
8	Consultancy Service for Alexandria West Wastewater Treatment Plant PPP-Transaction within the framework of the Water Policy and Regulatory Refom Program,	<p>Technical Support and Consultancy Services including:</p> <ul style="list-style-type: none"> <li>• Data Collection and analysis</li> <li>• Master Plan review and existing data evaluation and assessment.</li> <li>• Summarize the demand for WWTP capacity for the planning period.</li> <li>• Assessment of required treatment levels and other regulatory issues including influent/ effluent quantity and quality for WW and sludge. Also discussing the regulatory issues related to noise, gaseous emmission, energy consumption, power saving, O&amp;M cost recovery.</li> <li>• Providing the process engineering for the secondary process options.</li> <li>• Conceptual design of idenitfed secondary treatment options including WW and sludge management.</li> <li>• Preparation of cost estimatefor O&amp;M on a life cycle basis.</li> <li>• Preliminary Design of secondary treatment for the WWTP including all of drawings, electromechanical machinery list, teable of CAPEXand OPEX. And equipment procurement list.</li> </ul> <p>Input for bidding and transaction documents.</p>	Egypt	14	None	Chemonics International INC.	USAID	760,000,000

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9	Consulting Services for Preliminary Design, Detailed Design, ESIA's, Tender Documents, Assistance in Tendering and Construction Supervision Upgrading of Pump Stations at four WTPs and Reinforcement of Delivery Mains in Beheira Governorate (Package Ref.: B-WS-P1B-1CF)	Preliminary Design, Detailed Design, ESIA's, Tender Documents, Assistance in Tendering and Construction Supervision for the Upgrading of Pump Stations at four WTPs and Reinforcement of Delivery Mains in Beheira.	Egypt	34	None	BWADEC	KFW- IWSP	50,000,000
10	Design of Water & Wastewater Facilities for New Fayoum City.	Design of Water & Wastewater Systems including Networks, PS, and Treatment.	Fayoum.	18	Urban Planning Consultant	GONC , MOH	National budget GOE	65,000,000
11	Consulting Works for Nazlet Badran Zone.	Design / Construction Supervision (CS) of Wastewater Systems.	Giza, Egypt.	48	None	CAPOW	National budget GOE	85,000,000
12	Consulting Works for Conveying Culvert between Ameria & Khosos P. Stations.	Design Review and Construction Supervision for 5 Vents Wastewater Culvert.	Cairo , Egypt	48	None	CAPOW	National budget GOE	180,000,000
13	Consulting Works for Water & Wastewater Systems at Sodec Area.	Design Review & Construction Supervision (CS) for water & Wastewater Systems.	El Sheik Zayed , Egypt.	24	None	CAPOW	National budget GOE	16,000,000
14	Consulting Works (CW) for Water & Wastewater at Family Housing Area.	Design Review & CS for water & Wastewater Systems.	15 <sup>th</sup> of May City , Egypt	12	None	CAPOW	National budget GOE	29,000,000
15	Design and Construction Supervision for Main Wastewater Collector from El Sheik Zayed city to Abu Rawash WWTP.	Design & construction Supervision for 1800 mm Wastewater Collector.	El Sheik Zayed , Egypt.	18	None	CAPOW	National budget GOE	75,000,000
16	Consultancy Works for Family Housing Area , Obour City .	Design Review & CS for water & Wastewater Facilities.	Obour city , Egypt.	12	None	CAPOW	National budget GOE	70,000,000
17	CW for Wastewater Facilities at New Cairo including PS No. 1.	Design Review & CS for water & Wastewater Facilities.	New Cairo City, Egypt.	18	None	CAPOW	National budget GOE	40,000,000
18	CW for Wastewater Systems at Nahya / El Mina & Shorafa Villages.	Design & CS for Wastewater systems.	Giza , Egypt	48	CERSS,CU	CAPOW	National budget GOE	220,000,000
19	CW for Water Treatment Compact 18 plants 30-120 e/s .	Design of GU units Water Treatment Plants.	Gharbya – Qena , Egypt.	18	None	HCWW, Nasr Co.	National budget GOE	46,000,000
20	CW for Water Distribution systems for 1200 fed. Irrigation at Toshka.	Design / CS of Water System.	Toshka , Egypt.	18	None	KADCO	Private Sector	25,000,000
21	Rural Sanitation at 3 Villages – Beni Seuif Governorate.	Non – Conventional Wastewater System for Rural Sanitation	3 Villages at Beni Seuif Governorate.	4	None	CARE	CARE	2,500,000
22	Wastewater System at Koneysa Village.	Design of Wastewater Systems.	Beni Seuif Governorate.	6	None	BSW WC, Danida Fund	DANIDA	5,500,000
23	Rural Sanitation for Naseria , Sereria / shabak and Malky WWTP. ( 4 Contracts )	Design & CS for Wastewater Collection & Treatment Systems.	Aswan , Egypt.	8	None	( Aswan WC, Danida Fund )	DANIDA	10,000,000
24	Water / Wastewater Facilities at EDASP, World Bank Fund Project. ( 4 Contracts )	Design & CS for 5 asp + 2 Main G.Lines + 3 E.Tanks + WWTP	Port Said , Egypt.	( 24 )	None	EDASP, WB – Fund.	World Bank	60,000,000

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25	Detailed Eng. For Wastewater Systems at Zenien / Bolak	Water Distribution system & Wastewater Rehabilitation.	Giza , Egypt.	18	None	Mokhtar Ibrahim Co. KFW Funded.	National budget GOE	13,000,000
26	Sohag Rural Development Project ( World Bank Fund ) Institutional Support More than 30 Training Modules. ( 4 Contracts )	Institutional Support in the field of Water / Wastewater Management, and Procurement.	Sohag , Egypt.	24	CERSS,CU	Sohag Governorate World Bank Fund.	World Bank	NA
27	Rural Satiation for 9 Villages at Beni Seuif.( 5 – Contract )	Design / CS for Wastewater Facilities.	Beni Seuif, Egypt.	18	CERSS,CU	BSWC	National budget GOE	52,000,000
28	Main water Trunk Line 800 mm from BS WTP ( USAID Fund)	Design / CS for water T. Line. This contract are is by FIDIC red book “ Detailed design construction contracts”	Beni Seuif , Egypt.	18	CERSS,CU	BSWC	USAID	7,000,000
29	Wastewater Project for Emergency Canal & Hykstep Zone ( 2 Contracts ).	Wastewater System & Conveyance to Main Wastewater Screw Pump.	Cairo, Egypt.	18	CERSS,CU	CAPOW	National budget GOE	40,000,000
30	Rural Satiation of Wastewater at 5 Villages In Giza.( 2 – Contract )	Design & Cs for Wastewater System & Conveyance to WWTP.	Giza , Egypt.	24	CERSS,CU	CAPOW	National budget GOE	180,000,000
31	Wastewater System at 12 V. in Qena Governorate.	Design & Cs for Wastewater Chester in Qena Governorate.	Qena , Egypt.	36	None	NOPWASD	National budget GOE	1,200,000,000
32	Water / Wastewater System for many Locations at New Valley Governorate.	Iron & Manganese Removal +Water Wastewater Facilities.	New Valley, Egypt.	24	None	NOPWASD	National budget GOE	200,000,000
33	Extension of salheya WTP +sludge handling system reuse irrigation.	Extension of WTP to 32000 M <sup>3</sup> – design / cs including sludge handling reuse	Salheya Egypt.	18	None.	NOPWASD	National budget GOE	80,000,000
34	Hydraulic models for water & waste water at nubareya city.	Hydraulic Modeling for water/ waste water system as step ahead to long / short term MP.	Alex, Egypt.	12	None	NOPWASD	National budget GOE	60,000,000
35	Master Plan of Water & Wastewater Facilities for Beni Suif Governorate.	Preparation of Long-term Plans for Water/Wastewater Facilities up to year 2037 including Short-term Plans for 2012 including Hydraulic Modeling.	Beni Suif, Egypt.	18	DRTPC,CU	BSWWC, HCWW	National budget GOE	200,000,000 For Short-term Plans.
36	Waste water& storm water system of 1000 ha zone in eastern part in Libya.	Design of storm / waste water system of E- ZONE (1000ha)	Libya	12	Entag Co.	I- Water & E- Authority	Libyan Water Authority	500,000,000
37	Detailed Water / Wastewater Master Plan for	Preparation Master Plans for water & wastewater Facilities for:	Upper & Lower	12	None.	General	National	50 ,000,000

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	<u>10 Cites :-</u>	<ul style="list-style-type: none"> <li>• Edwa City – El Mina Governorate.</li> <li>• Maragha City – El Mina Governorate.</li> <li>• Ahanasia – Beni Suif Governorate.</li> <li>• Farafra City – New Valley Governorate.</li> <li>• Deir Mowas – El Mina Governorate.</li> <li>• El Fayioum City Governorate.</li> <li>• Hehya –El Sherqeya Governorate.</li> <li>• The zone between Shooting Square and 26<sup>th</sup> of july – Cairo Alex Desert Road .</li> <li>• Koren City – El Sherqeya Governorate.</li> <li>• East Bank – Samalot City – El Mina Governorate.</li> </ul>	Egypt.			Organization for Physical Planning, <b>GOPP</b>	budget GOE	
38	Information Map for Water & Wastewater Facilities in Region 3 including Port Said , Suez , Ismailia , El Sharqeya , North Sinai , and South Sinai Governorates .	Data Collection Analysis, Step ahead to preparation of M – Planning and GIS for Water & Wastewater Facilities at 6 Governorates.	Suez Canal Cities – North / South Sinai – El Sharqeya Egypt.	12	Urban Planning Consultant	GOPP, Ministry of Housing & New Communities (MOH).	National budget GOE	600,000