

**WATER AND SANITATION  
FOR HEALTH PROJECT**



**COORDINATION AND  
INFORMATION CENTER**

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**Telephone: (703) 243-8200  
Telex No. WUI 64552  
Cable Address WASHAID**

**SUMMARY OF  
WASH PROJECT  
ACTIVITIES FOR  
BUREAU FOR NEAR EAST**

**September 1, 1980 - May 26, 1984**

The WASH Project is managed by Camp Dresser & McKee Incorporated. Principal Cooperating Institutions and subcontractors are: International Science and Technology Institute; Research Triangle Institute; University of North Carolina at Chapel Hill; Georgia Institute of Technology—Engineering Experiment Station.

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Summary of WASH Project Activities for Bureau for Near East  
September 1, 1980 - May 26, 1984

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- Computer print-out of potable  
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Summary of WASH Project Activities  
for Near East Bureau.

WASH Costs as of 5/26/84: Near East Bureau  
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WASH Publications List

Orders of Technical Direction (OTDs)  
from the Office of Health to WASH

Summary of AID Water Supply and Sanitation Projects by Bureaus: 1976-1984

Bureau	FY 76+T.Q. Actual (\$000's)	FY 77 Actual (\$000's)	FY 78 Actual (\$000's)	FY 79 Actual (\$000's)	FY 80 Actual (\$000's)	FY 81 Actual (\$000's)	FY 82 Actual (\$000's)	FY 83 OYB (\$000's)	FY 84 CP (\$000's)
<b>Africa</b>									
DA	--	500	992	3,360	6,359	10,206	7,885	4,675	2,445
SH	--	--	1,000	4,168	2,914	2,809	4,022	--	--
ES	--	--	--	--	--	--	--	--	--
FDA	500	--	--	--	--	2,000	6,000	6,445	--
<b>Asia</b>									
DA	20,000	6,800	3,684	3,500	16,104	10,150	3,033	5,200	--
ES	--	--	--	--	--	--	--	--	--
<b>Latin America</b>									
DA	--	4,748	581	8,754	18,621	676	5,520	5,700	1,000
ES	--	--	--	--	--	--	--	9,700	--
<b>Near East</b>									
DA	3,627	11,738	5,752	4,450	3,363	5,650	3,800	3,079	1,077
ES	22,500	87,000	120,000	158,921	23,500	125,100	10,000	344,500	215,000
FDA	--	--	--	--	--	--	--	2,800	--
<b>Science &amp; Technology</b>									
DA	241	253	340	962	4,426	3,706	2,450	2,400	2,300
<b>TOTAL Development Assistance (Includes Sahel)</b>									
	23,868	24,039	12,349	25,194	51,787	33,197	26,710	21,054	6,818
<b>TOTAL Economic Support (Includes FDA)</b>									
	23,000	87,000	120,000	158,921	23,500	127,100	16,000	363,445	215,000
<b>Sub-TOTAL (appropriated)</b>									
	46,868	111,039	132,349	184,115	75,287	160,297	42,710	384,499	221,818
<b>Using WS&amp;S Components</b>									
			45,000	55,000	70,500	42,000	46,000	46,000	60,000
<b>Grand Total WS&amp;S</b>									
	46,868	111,039	177,349	239,115	145,787	202,297	88,710	430,499	281,818

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## A.I.D. PROJECT DATA LISTINGS

The following section has three parts:

1. An explanatory description of the A.I.D. Water Resources and Environmental Health Information Data Base developed by the WASH Project for the Office of Health using an Apple II Microcomputer. It includes definitions and comments on procedures used and data sources, a sample computer terminal display layout of the input format, and an Appendix A that identifies the alphabetical coding of project characteristics - functional subcategories, activity codes, scope, agents and service level.
2. A computer print-out of Regional Bureau projects identified as having a water supply and/or environmental sanitation component. It includes country project title, project number, beginning and ending fiscal years, appropriation source, functional subcategories included in the projects and fiscal year funding from 1976 through 1984. Funding is sub-totalled by year for each country.
3. A computer print-out similar to the above. It includes only potable water supply and sanitation projects. Funding data for these projects covers fiscal years 1980-1985.

AID WATER SUPPLY AND ENVIRONMENTAL HEALTH PROJECTS  
INFORMATION DATA BASE: FY 1973 - Present

DEFINITION OF PROJECTS INCLUDED IN DATA BASE:

Those A.I.D. supported projects in which water, its development, use, management, and environmental sanitation activities appears as an element in any project as a development activity.

PROCEDURES USED TO IDENTIFY PROJECTS:

1. A.I.D. ST/DIU Design and Evaluation computer files were reviewed for initial identification of projects which included water as a key word in the description of the project.

2. A.I.D. Congressional Presentations were reviewed from FY 1978-1983 for project identification and funding data.

3. A.I.D. PPC Reports on Summaries of Obligations by Appropriation and Functional Subcategories for FY 1983 Congressional Presentation have been used as current sources of project funding data for FY 1978 through requested FY 1983.

4. Early historical Health Account funding files maintained in ST/Health provided additional references for project identification and funding data. Office of Financial Management provided obligation information on a limited number of projects funded between FY 1973 and FY1978.

5. Reports on Active and Completed projects prepared by A.I.D.'s Office of Financial Management (W-253 Reports) were also used for funding references.

PROCEDURES USED TO ENTER DATA INTO SYSTEM:

1. Initial project identification has been done by reviewing projects for each A.I.D. Regional Bureau and the Central Bureau for Science and Technology.

2. Data has been entered on an Apple II+ microcomputer. Use has been made of software programs such as VISICALC, VISIFILE, VISITREND/VISIPILOT, CONDOR, and APPLE II BUSINESS GRAPHICS.

3. Data is stored on floppy disks. Files are maintained on the disks by Bureau. Project data include: Title, Project Number, Beginning and End Year, Life of Project Funding, Appropriation code (from which project funded), Agent(Implementor), Scope(National, Pilot, etc.), No. of Beneficiaries(where info available), Cost per Beneficiary(where available), Service level(taps,springs,etc.), Activity Codes and SUBCATS (See attached for description), Water Component Code to determine whether water is major project activity or only a component part of the project, and Fiscal Year funding data FY 1973 to present.

4. Printouts of the data can be made easily by selecting out desired information through search procedures of files stored in the data base.

5. The data base currently contains over 600 records.

DATA ANALYSIS:

1. Graphics software is being used to plot and chart a variety of presentations based on information contained in the data base. Separate files have been created of computed funding data by Activity codes, SUBCATS, Appropriation codes, Bureaus, and Fiscal Year.

2. A variety of graphic and statistical summaries are possible using the APPLE II and a compatible printer. Line, bar, area and pie charts can be produced as well as funding trend forecasting.

<<< W A T E R >>>

[REG].....: ---  
[COUNTRY]....: -----  
[TITLE].....: -----  
[PROJ#].....: -----  
[LOP#].....: -----  
[APPR].....: -----  
[AGENT].....: -----  
[BEG].....: ---  
[END].....: ---

[FY73] \_\_\_\_\_ [FY74] \_\_\_\_\_ [FY75] \_\_\_\_\_ [FY76] \_\_\_\_\_  
[FY77] \_\_\_\_\_ [FY78] \_\_\_\_\_ [FY79] \_\_\_\_\_ [FY80] \_\_\_\_\_  
[FY81] \_\_\_\_\_ [FY82] \_\_\_\_\_ [FY83] \_\_\_\_\_ [FY84] \_\_\_\_\_

[SCOPE].....: -----  
[#BENEF].....: -----  
[COST/BENEF].: -----  
[SVC.LEVEL]..: -----  
[ACT.CODE]...: -----  
[SUBCAT].....: -----

[WTRCOMP].....: -----  
<<< G L O B A L >>>

[REG]: ---  
[OFFICE]: -----  
[TITLE]: -----  
[PROJ#]: -----  
[LOP#]: -----  
[APPR]: -----  
[AGENT]: -----  
[BEG]: ---  
[END]: ---

[FY73]: \_\_\_\_\_ [FY74]: \_\_\_\_\_ [FY75]: \_\_\_\_\_ [FY76]: \_\_\_\_\_  
[FY77]: \_\_\_\_\_ [FY78]: \_\_\_\_\_ [FY79]: \_\_\_\_\_ [FY80]: \_\_\_\_\_  
[FY81]: \_\_\_\_\_ [FY82]: \_\_\_\_\_ [FY83]: \_\_\_\_\_ [FY84]: \_\_\_\_\_

[SCOPE]: -----  
[SERVICE LEVEL]: -----  
[ACT.CODE]: -----  
[SUBCAT]: -----  
[WTRCOMP]: -----

APPENDIX A  
FUNCTIONAL SUBCATEGORIES:

WSS	WATER SUPPLY AND SANITATION	IRG	IRRIGATION
WRM	WATER RESOURCES MANAGEMENT	FSH	FISHERIES
FHC	PRIMARY HEALTH CARE	NUT	NUTRITION
HIG	HOUSING INVESTMENT GUAR.	ENG	ENERGY
WLS	WATER FOR STOCK PONDS	WRD	WATER RESOURCES DEV.
WSD	WATER SUPPLY DEVELOPMENT	WAT	WATER SUPPLY (POT.)
ST	SCIENCE AND TECHNOLOGY		
GWD	GROUND WATER DEVELOPMENT	EVH	ENVIRONMENTAL HEALTH
TDC	TROPICAL DISEASE CONTROL	SST	SEW. OR SEWAGE TREAT.

ACTIVITY CODES:

TT TECHNOLOGY TRANSFER/TECHNICAL ASSISTANCE  
HR HUMAN RESOURCES DEVELOPMENT (TRAINING)  
RD RESEARCH AND DEVELOPMENT  
ID INFRASTRUCTURE DEVELOPMENT  
CP COMMUNITY PARTICIPATION  
PV PRIVATE SECTOR INVOLVEMENT  
FE FEASIBILITY STUDIES  
HE HEALTH EDUCATION

SCOPE:

NATIONAL	PILOT
PROVINCIAL	REGIONAL
MULTI-PROVINCIAL	URBAN
DISTRICT	RURAL

AGENT:

UNC UNIVERSITY CONTRACT  
PVD PRIVATE VOLUNTARY AGENCY  
NGO NON-GOVERNMENT AGENCY  
PSC PERSONAL SERVICES CONTRACT  
PVC PRIVATE SECTOR CONTRACT  
MLT MULTILATERAL AGENCY  
HCC HOST COUNTRY CONTRACTOR  
LDC HOST COUNTRY GOVERNMENT  
PEC PEACE CORPS  
PAS PASA (INTERAGENCY AGREEMENT)

SERVICE LEVEL:

SPRING CAPTATION	WELLS	SEWERS
PIT LATRINES	DIKES	PONDS
COMMUNITY TAPS	DAMS	HAND PUMPS
INDIVIDUAL HOUSE CONNECTIONS		PERCOLATION
METERED HOUSE CONNECTIONS		STORAGE TANKS

NEAR EASI PROJECTS WITH A WATER SUPPLY AND OR SANITATION COMPONENT

DATE: 04/15/83

PAGE: 1

COUNTRY	TITLE	PROJ#	APPR	BEG	END	AGENT	ACT.CODE	SUBCAT	LOP\$	FY76	FY77	FY78	FY79	FY80	FY81	FY82	FY83	FY84
Afghanistan	Nat. Agric. Develop. Hydrology	G 3060002	FN	52	73	PAS	FE, ID	IRG, WAT, ENG	11566	0	0	0	0	0	0	0	0	0
								Subtotal	11566	0	0	0	0	0	0	0	0	0
Egypt	Basic Village Services	G 2630103	ES	80	83	LDC	CP, FE, ID, TT	WAT	70000	0	0	0	0	70000	0	0	0	0
Egypt	Housing	L	HIG	78	78	LDC	TT, PV	WSS, HIG, WAT	13640	0	0	13640	0	0	0	0	0	0
Egypt	Low Income Housing	G 2630066	ES	78	84	PVC	ID, IT	WSS, HIG, WAT	80000	0	0	13640	0	28100	1900	0	0	0
Egypt	Technical & Feas. Studies II	G 2630013	ES	76	76	PVC	TI, FE	WAT, IRG, SST	15000	15000	0	0	0	0	0	0	0	0
Egypt	Technical & Feas. Studies III	G 2630042	ES	78	81	PVC	TI, HR, FE	WAT, IRG	31000	0	0	31000	0	0	0	0	0	0
								Subtotal	209640	15000	0	58280	0	98100	1900	0	0	0
Jordan	Technical Serv. Feasibility II	G 2780224	ES	79	80	PVC	FE, TT	WSS, SST	5700	0	0	0	5700	0	0	0	0	0
Jordan	Technical Services Feasibility	G 2780181	ES	76	78	PVC	FE, TT	WAT, IRG	5417	1450	2000	1980	13	0	0	0	0	0
Jordan	Village Development II	L 2780205	ES	78	82	PVC	CP, TT	WSS, HIG, WAT	8000	0	0	8000	0	0	0	0	0	0
Jordan	Village Development Services	L 2780183	ES	75	77	PVC	TT, ID	WSS, WAT	14150	0	0	0	0	0	0	0	0	0
Jordan	Zarqa Tria/Irrigation	L 2780179	FN	75	75		TT, HR	IRG, WAT	4500	0	0	0	0	0	0	0	0	0
								Subtotal	37767	1450	2000	9980	5713	0	0	0	0	0
Lebanon	Health Sector Rehabilitation	G 2680305	ES	78	79		TT	WSS, WAT	4900	0	0	4900	0	0	0	0	0	0
Lebanon	Housing Guarantee Program	L 268HG02	HIG	78	78	LDC	TT	WSS	15000	0	0	0	0	0	0	0	0	0
Lebanon	Wastewater Management	G 2680321	ES	83	85		ID, TT	SST, EVH	6500	0	0	0	0	0	0	0	2000	0
								Subtotal	26400	0	0	4900	0	0	0	0	2000	0
Morocco	Housing Investment Guarantee	L 608HG01	HIG	79	80	LDC	TT, ID, PV	HIG, WAT, WSS	25000	0	0	0	12500	12500	0	0	0	0
Morocco	Housing Investment Loan II	L 608HG02	HIG	81	81	LDC	TI, ID	HIG, WSS, WAT	65387	0	0	0	0	0	65387	0	0	0
Morocco	Low Cost Housing	G 6080156	SD	80	83	PVD	TT, ID, CP	HIG, WAT, SST	900	0	0	0	0	600	199	100	0	0
Morocco	Renewable Energy Development	G 6080159	SD	83	84	PVC	RD, HR	ENG, IRG, WAT	9200	0	0	0	0	0	0	0	1500	1880
								Subtotal	100487	0	0	0	12500	13100	65586	100	1500	1880
Portugal	Azores Rehabilitation II	G 1500025	ES	81	81	PVC	TT, ID	HIG, WAT	5000	0	0	0	0	0	5000	0	0	0
								Subtotal	5000	0	0	0	0	0	5000	0	0	0
Regional	Project Develop. & Support	G 2980035	HE	67	C	USAID	FE, TT	WAT, WSS	0	0	0	0	0	0	0	0	100	200
Regional	Project Development & Support	G 2980150	ES	78	88	PSC	FE, TT	WSS, EVH, WAT	2324	0	0	28	207	317	2890	1000	1000	1000
Regional	Regional Cooperation	G 2980158	ES	81	88		FE, IT	WSS, EVH, WAT	16592	0	0	0	0	0	4572	4000	7500	7000
Regional	West Bank/Gaza Development	G 2980159	ES	75	85	PVD	TT, CP	EVH, WSS, WAT	21001	0	3000	3000	3001	0	0	6000	6500	7000
								Subtotal	39917	0	3000	3028	3208	317	7482	11000	15100	15200
Syria	Technical Feas. Studies II	G 2760005	ES	77	77	PSC	FE, IT	WSS, EVH, WAT	3500	0	3500	0	0	0	0	0	0	0
Syria	Technical Feas. Studies III	G 2760026	ES	78	78		FE, IT	WSS, WAT	2000	0	0	2000	0	0	0	0	0	0
								Subtotal	5500	0	3500	2000	0	0	0	0	0	0
Tunisia	Housing Guarantee Loan	L 664HG03	HIG	78	82	PVC	TT	HIG, WAT	2960	0	0	2960	0	0	0	0	0	0
Tunisia	Rural Community Health	G 6640296	HE	78	81	PVC	TT, CP, HR	PHC, EVH, WAT	2239	0	0	1000	0	0	630	0	0	0
Tunisia	Rural Community Health	L 6640296	HE	81	83	PVC	TT, CP, HR	PHC, EVH, WAT	5390	0	0	0	0	0	5390	0	0	0
								Subtotal	10589	0	0	3960	0	0	6020	0	0	0
Yemen	Community Based Rural Dev. I	G 2790031	FN	78	80	PVD	CP, HR	WAT	1390	0	0	1040	350	0	0	0	0	0
Yemen	Pre-Development Studies	G 2790023	SD	73	74	PVC	FE	WSS, WAT	437	14	0	0	0	0	0	0	0	0
Yemen	Iihana Primary Health Care	G 279065	HE	81	87	PVD	TT, HR, CP	PHC, WAT	11500	0	0	0	0	0	2270	1000	2000	2000
								Subtotal	13327	14	0	1040	350	0	2270	1000	2000	2000
								Total	460193	16464	8500	83188	21771	111517	88258	12100	20600	19080

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NEAR EAST WATER SUPPLY AND SANITATION PROJECTS

DATE: 07/13/84

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COUNTRY	TITLE	PAPPR	BEG	END	AGENT	ACT.CODE	SUBCAT	LOP#	FY73	FY74	FY75	FY76	FY77	FY78	FY79	FY80	FY81	FY82	FY83	FY84	FY85	
Yemen	Sanaa Water Supply	G 2790021	HE	73	75	PSC	TT, ID	WAT	743	300	160	283	0	0	0	0	0	0	0	0	0	0
Yemen	Small Rural Water Systems	G 2790044	HE	79	83	PVO	ID, HR, HE, CP	WAT, EVH	8700	0	0	0	0	0	144	1527	650	1500	3656	1400	3500	
Yemen	Taiz Water & Sewer Design	G 2790027	FN	76	78	FE	FE	WSS, SST, WAT	1475	0	0	0	1475	0	0	0	0	0	0	0	0	
Yemen	Taiz Water & Sewer Design	G 2790027	HE	76	78	FE	FE	WSS, SST, WAT	185	0	0	0	65	0	0	0	0	0	0	0	0	
Yemen	Taiz Water and Sewage	G 2790039	HE	77	83	PVC	TT, ID, HR	WSS, SST, WAT	11200	0	0	0	0	10000	0	0	0	1200	0	0	0	
Yemen	Taiz Water and Sewers	L 2790039	HE	81	83	PVC	TT, ID, HR	WAT, SST, NSS	5000	0	0	0	0	0	0	0	5000	0	0	0	0	
Yemen	Taiz Water Rehabilitation	G 2790017	FN	73	74	PVC	TT, HR	WAT	457	330	161	0	0	0	0	0	0	0	0	0	0	
Yemen	Water Supply System Management	G 2790028	HE	77	82		HR, TT, PV	WAT	6100	0	0	0	0	620	1580	2014	786	0	1100	0	0	
							SUBTOT		38754	630	1116	1500	3265	11510	1790	2158	2313	5650	3800	3656	1400	3500
							TOTAL		1410823	630	1116	69605	26127	98738	125752	163371	26863	130750	13800	220906	133300	101500

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Summary of WASH Project Activities for Near East Bureau  
September 2, 1980 - May 26, 1984

WASH Number	Country/Bureau	Title	Person Days Authorized	Estimated Costs	Status*
T- 3	NE Bureau	Project Design Manual - References Development	3	\$ 6,338	C
T-15	Tunisia	Well Drilling Equipment Specifi- cations and Procedures	21	\$ 6,543	C
	Tunisia	Technical Assistance in Local Manufacturing and Installation of AID Handpumps and Robovalves (Georgia Tech contract - 1 yr.)		\$ 100,000	C
T-20	Lebanon	Design and Analysis of Small Wastewater Stabilization Ponds	35	\$ 11,444	C
T-31	Jordan	Wastewater Treatment Design Review and Guideline Preparation	33	\$ 8,681	C
T-39	Yemen	Evaluation of the Water Supply Systems Management Project for the National Water and Sewage Authority (NWSA)	80	\$ 45,838	C
T-51	NE Bureau	Implementation of Workshop on Excreta Disposal in Non-Sewered Areas	61	\$ 21,853	C
T-52	Tunisia	Participation in Workshop on Primary Health Care, 31 August 1981, in Sousse, Tunisia	28	\$ 7,532	C
T-55	Jordan	Analysis of Human Resources Develop- ment Needs for the Hashemite Kingdom of Jordan	118	\$ 45,297	C
T-59	Jordan	Technical Assistance for Water Conservation Seminar	60	\$ 17,183	C

\*Status

C: Completed  
O: Ongoing

Summary of WASH Project Activities for Near East Bureau (Cont.)  
September 2, 1980 - May 26, 1984

WASH Number	Country/Bureau	Title	Person Days Authorized	Estimated Costs	Status*
T-61	Morocco	Technical Assistance in Operation and Maintenance of Water Pumping Systems	65	\$ 11,656	C
T-62	Egypt	Technical Assistance with Health Sector Assessment	176	\$ 69,440	C
T-63	Tunisia	Technical Assistance in Local Handpump Manufacture	166	\$ 63,349	C
T-77	Egypt	Planning for Improved Excreta and Wastewater Pilot Demonstration	185	\$ 96,185	C
T-92	Tunisia	Assist Organization RWS Conference	192	\$ 96,103	C
T-111	Morocco	In-Service Training for Peace Corps Volunteers in Potable Water Projects	38	\$ 22,791	C
T-120	Tunisia	Evaluation of Spring Capping Component of Irrigation Project	60	\$ 18,140	C
T-124	Lebanon	Assess Present Activities and Future Needs for Liquid and Solid Wastes and Water Supply	140	\$ 92,287	C
T-134	Lebanon	Development Plan for Collection and Disposal of Solid Wastes	36	\$ 20,237	C
T-146	Tunisia	Design of Research/Action Demonstration Study on Community Participation	20	\$ 7,736	C

\*Status

C: Completed  
O: Ongoing

Summary of WASH Project Activities for Near East Bureau (Cont.)  
September 2, 1980 - May 26, 1984

WASH Number	Country/Bureau	Title	Person Days Authorized	Estimated Costs	Status*
T-158	Tunisia	Sanitation Sector Assessment	115	\$ 52,822	C
T-159	Near East Bureau	Institutional Development Assistance	85	\$ 25,771	O
T-160	Near East Bureau	Human Resources Development Assistance	73	\$ 18,055	O
T-161	Yemen	Evaluation of Rural Water Systems Project	97	\$ 26,450	C
T-171	Turkey	Disaster Assistance	15	\$ 10,260	C
T-177	Egypt	Evaluation of Basic Village Services Project	62	\$ 22,915	O
T-180	Egypt	Assistance in Evaluation of Provincial Cities Project	45	\$ 21,163	O
T-181	Tunisia	Project Paper for RHUDO/Tunisia	75	\$ 18,251	O
T-183	Jordan	Wastewater Site Review	26	\$ 282	O
C-185	Egypt	Demonstration Projects for Unserved Areas of Cairo		\$ 9,592	C
C-292	Lebanon	Disaster Assistance		\$ 24,670	

\*Status

C: Completed  
O: Ongoing

Wash Costs as of 5/26/84

NEAR EAST BUREAU

USAID BUREAU: NE

-	:B-0413	Yeman-Evaluation of Rural Water Systems Project	
		WS&S Tech Assist	1,831
		Boston Support	2,068
		CIC Co-ordin.	461
		Supplies	91
			-----
			4,451
	B-0449	NE Bureau-Assistance on Waste Water Recovery	
		Supplies	31
		CIC Co-ordin.	44
			-----
			75
	C-0112	Summarize WASH OTDs by Country Information	723
			-----
			723
	C-0113	Sanitation for Unsewered Areas - NE	
		WS&S Tech Assist	50
		Information	320
			-----
			370
	C-0140	Planning & Implementation Support for Appropriate Technology Seminar for Arid Areas	
		CIC Co-ordin.	4
		Training	2,274
		Travel	394
			-----
			2,672
	C-0285	Purchase of Documents for the Near East Bureau	

	CIC Co-ordin.	9
		-----
		9
C-0394	HRD Assistance to NE Bureau	
	CIC Co-ordin.	733
	WS&S Tech Assist	2,599
	Miscellaneous	250
	Supplies	174
	Training	2,814
	Travel	86
		-----
		6,656
C-0398	Institutional Development Assistance for NE Bureau	
	WS&S Tech Assist	1,815
	Boston Support	10,798
	CIC Co-ordin.	392
	Supplies	1
	Training	1,028
	Travel	21
		-----
		14,055
C-0443	Development of Evaluation Methodology for Large Scale WS&S Project	
	WS&S Tech Assist	794
		-----
		794
T-0003	Standard References for Near East Bureau (30 copies)	
	Supplies	390
	Information	5,948
		-----
		6,338
T-0159	Near East Bureau: Institutional Development Assistance	

Supplies	325
Training	2,922
Miscellaneous	635
Travel	112
WS&S Tech Assist	6,327
Boston Support	12,035
CIC Co-ordin.	3,415
	-----
	25,771

T-0160 Near East Bureau: Human Resources Development Assistance

Travel	28
Training	2,472
Supplies	1,539
Miscellaneous	1,265
CIC Co-ordin.	2,283
WS&S Tech Assist	10,468
	-----
	18,055

Totals for Not Mission Specific: 79,969

- Egypt

:B-0433 Egypt-Technical Assistance to BVS Program

CIC Co-ordin.	145
Supplies	26
Travel	3,212
WS&S Tech Assist	2,261
	-----
	5,644

B-0437 Egypt - Evaluation of Provencial Cities Project

WS&S Tech Assist	965
	-----
	965

C-0086 Briefing of Haratani on Low Cost Sanitation Options in Cairo, Egypt

	WS&S Tech Assist	106
		-----
		106
C-0159	Egypt: Preliminary Activities Leading to Possible OTD	
	WS&S Tech Assist	1,850
	CIC Co-ordin.	14
		-----
		1,864
C-0185	Egypt: Demonstration Projects for Unserved Areas of Cairo	
	WS&S Tech Assist	4,584
	Travel	595
	Training	780
	Miscellaneous	55
	CIC Co-ordin.	667
	Boston Support	2,921
		-----
		9,592
C-0245	Obtain information on water faucets that minimize wastage, etc.	
	WS&S Tech Assist	1,635
	Information	16
		-----
		1,651
T-0062	Egypt: Environmental Health Sub-sector Assessment	
	Tech. Transfer	4,719
	Travel	5,877
	Supplies	1,716
	Miscellaneous	15
	WS&S Tech Assist	37,497
	CIC Co-ordin.	5,453
	Information	14,163
		-----
		59,440

T-0077 Egypt: Planning of Unsewered Areas  
of Greater Cairo

Miscellaneous	127
Information	6,216
CIC Co-ordin.	2,549
WS&S Tech Assist	44,934
Supplies	8,070
Training	6,216
Travel	21,857
Tech. Transfer	6,216
	-----
	96,185

T-0177 Egypt-Evaluation of Basic Village  
Services Project

Miscellaneous	343
CIC Co-ordin.	576
WS&S Tech Assist	20,501
Supplies	178
Travel	1,317
	-----
	22,915

T-0180 Egypt - Assistance in Evaluation of  
Provencial Cities Project

Supplies	9
Travel	2,057
CIC Co-ordin.	331
Boston Support	2,177
WS&S Tech Assist	16,589
	-----
	21,163

	-----	
Totals for Egypt:		229,525

- Jordan

:B-0427 Jordan - Water Supply/Sewage  
Collection Practice

WS&S Tech Assist	193
CIC Co-ordin.	3
	-----

		196
C-0135	Jordan: Preliminary Activities Leading to OTD	
	Training	880
	WS&S Tech Assist	442
	CIC Co-ordin.	208
	Information	147
		-----
		1,677
C-0156	Jordan: Preliminary Activities Leading to OTD	
	CIC Co-ordin.	53
	WS&S Tech Assist	948
		-----
		1,001
C-0313	Identify consultants for Jordan	
	WS&S Tech Assist	209
	CIC Co-ordin.	144
		-----
		353
T-0031	Technical Assistance to Jordan	
	CIC Co-ordin.	578
	Supplies	125
	Travel	4,032
	WS&S Tech Assist	3,946
		-----
		8,681
T-0055	Jordan: Analysis of Human Resources Development Needs for Jordan	
	Supplies	1,430
	Miscellaneous	25
	Information	5,410
	Travel	8,735
	Tech. Transfer	2,702
	Training	11,239
	Equipment	26

CIC Co-ordin.	3,706
Boston Support	1,064
WS&S Tech Assist	10,960
	-----
	45,297

T-0059 Jordan: Water Conservation Seminar

CIC Co-ordin.	782
Information	2,043
WS&S Tech Assist	4,566
Training	3,065
Travel	4,464
Tech. Transfer	2,041
Supplies	222
	-----
	17,183

T-0193 Jordan Wastewater Site Review

WS&S Tech Assist	193
CIC Co-ordin.	89
	-----
	282

Totals for Jordan: 74,670

- Lebanon

:T-0020 Pilot Waste Stabilization Pond  
Asst. to Lebanon

Boston Support	125
CIC Co-ordin.	402
Information	26
Supplies	73
Travel	3,104
WS&S Tech Assist	7,714
	-----
	11,444

T-0124 Lebanon: Assess Present Activities  
and Future Needs for Liquid and  
Solid Wastes and Water Supply

Travel	10,452
--------	--------

Supplies	8,346
Miscellaneous	2,676
CIC Co-ordin.	1,026
Boston Support	58,987
WS&S Tech Assist	10,800
	-----
	92,287

T-0134 Lebanon: Plan for Collection and Disposal of Waste

Supplies	724
Travel	3,483
Miscellaneous	29
CIC Co-ordin.	469
WS&S Tech Assist	15,532
	-----
	20,237

Totals for Lebanon: -----  
123,968

- Morocco :T-0061 Morocco: Water Pumping Specialist

WS&S Tech Assist	1,482
CIC Co-ordin.	852
Information	1,023
Supplies	838
Training	3,046
Travel	3,905
Tech. Transfer	510
	-----
	11,656

T-0111 Morocco: In-service Training for Peace Corps Volunteers in Potable Water Project

WS&S Tech Assist	6,118
CIC Co-ordin.	468
Miscellaneous	782
Supplies	70
Training	1,024
Travel	2,673
	-----

11,135

Totals for Morocco:

-----  
22,791

- Tunisia

:B-0393 Tunisia: Preliminary Planning  
Leading to Possible OTD to Assist  
RHUDD/Tunis

CIC Co-ordin. 878  
Miscellaneous 38  
Boston Support 9,316  
Supplies 5  
Travel 31  
WS&S Tech Assist 3,436  
-----  
13,704

B-0430 Tunisia: Preliminary planning for  
project paper team for RHUDD

WS&S Tech Assist 1,906  
CIC Co-ordin. 182  
Supplies 2  
-----  
2,090

C-0048 Advise Tunis Mission About PVC Well  
Supply (became OTD No. 15)

Supplies 2  
WS&S Tech Assist 104  
CIC Co-ordin. 7  
-----  
113

C-0179 Establish & Maintain Conference  
Call for Every 20 Days of Work on  
OTD 63, Tunisia

CIC Co-ordin. 29  
-----  
29

C-0199 Tunisia: Organizing a Water Supply

Seminar in Tunisia

Supplies	74
CIC Co-ordin.	157
WS&S Tech Assist	229
Training	89
	-----
	549

C-0319 Assist Mission in Evaluation of  
Spring Capping Component of  
Irrigation Project

CIC Co-ordin.	24
	-----
	24

C-0352 Tunisia: Assistance to CTDA in CP  
Study

Supplies	38
CIC Co-ordin.	353
WS&S Tech Assist	169
	-----
	560

T-0015 Advise on Specifications for Well  
Drilling Rig

Travel	1,454
WS&S Tech Assist	2,806
CIC Co-ordin.	2,283
	-----
	6,543

T-0052 Tunisia: USAID Workshop on Primary  
Health Care

Equipment	49
CIC Co-ordin.	810
WS&S Tech Assist	4,126
Travel	605
Tech. Transfer	289
Information	577
Supplies	499
Training	577

		-----
		7,532
T-0063	Tunisia: Handpump Program Assistance	
	Training	7,926
	Supplies	13,610
	Miscellaneous	226
	Information	82
	Travel	14,591
	CIC Co-ordin.	988
	Tech. Transfer	19,008
	WS&S Tech Assist	6,626
	Boston Support	292
		-----
		63,349
T-0092	Tunisia Assist Organization RWS Conference	
	Information	1,256
	CIC Co-ordin.	7,196
	Travel	15,306
	Training	6,011
	Boston Support	743
	WS&S Tech Assist	57,621
	Supplies	7,939
	Miscellaneous	31
		-----
		96,103
T-0120	Tunisia: Evaluation of Spring Capping Component of Irrigation Project	
	WS&S Tech Assist	13,315
	CIC Co-ordin.	2,670
	Information	14
	Miscellaneous	190
	Supplies	1,637
	Travel	314
		-----
		18,140
T-0146	Tunisia: Design of Research-Action	

Study on C.P.

Travel	1,516
Supplies	571
Information	45
CIC Co-ordin.	1,057
WS&S Tech Assist	4,547
	-----
	7,736

T-0181 Tunisia - Project Paper for RHUDD/Tunis

Travel	7,034
Supplies	1,384
Miscellaneous	611
CIC Co-ordin.	1,419
WS&S Tech Assist	7,803
	-----
	18,251

Totals for Tunisia:

-----  
234,723

- Yemen

:C-0073 Identification of Potential Candidates for TA to Yemen

CIC Co-ordin.	1,386
	-----
	1,386

T-0039 Technical Assistance to Yemen

Travel	4,085
Supplies	8
Information	3,683
Equipment	448
CIC Co-ordin.	1,298
Boston Support	181
WS&S Tech Assist	36,135
	-----
	45,838

T-0161 Yemen Evaluation of Rural Water Systems Project

Travel	10,141
Supplies	302
CIC Co-ordin.	833
Boston Support	87
WS&S Tech Assist	15,087
	-----
	26,450

Totals for Yemen:	-----
	73,674

T-0051 Workshop - Excreta Disposal in  
Non-Sewered Areas

WS&S Tech Assist	1,572
CIC Co-ordin.	537
Information	3,144
Miscellaneous	1,323
Supplies	591
Training	7,850
Travel	3,682
Tech. Transfer	3,144
	-----
	21,853

T-0158 Tunisia: Sanitation Sector  
Assessment

WS&S Tech Assist	35,956
Boston Support	639
CIC Co-ordin.	1,755
Information	139
Miscellaneous	959
Travel	7,012
Supplies	6,312
	-----
	52,822

T-0171 Turkey - Disaster Assistance

WS&S Tech Assist	7,615
CIC Co-ordin.	165
Supplies	57
Travel	2,423
	-----
	10,260

C-0292 Lebanon: Disaster Assistance

Information	59
Travel	17
CIC Co-ordin.	202
Supplies	51
WS&S Tech Assist	4,525
Boston Support	19,816
	-----
	24,670

Totals for NE: 839,320

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2. WASH Technical Report 2. *Possible Disinfection of Oral Rehydration Solutions*. Notes from November 13, 1980 meeting with Richard Cash and Lincoln Chen, by Raymond B. Isely.
3. WASH Technical Report 3. *Training of Rural Community Development Workers in Health Education, with Special Reference to Water Supply Protection and Use Maintenance of Sanitation Facilities*. March, 1981. Prepared for Mandara Mountains Water Resource Project, USAID Mission, Yaounde Cameroon by Guy Steuart and Carla Rull. C-Task No. 49.
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6. WASH Technical Report 6. *Women, Water and the Decade*. Presented at the International Affairs Session of the American Water Works Association, St. Louis, Missouri, June 9, 1981 by Mary Elmendorf. OTD #35.
7. WASH Technical Report 7. *Facilitation of Community Organization: An Approach to Water and Sanitation Programs in Developing Countries*. June 17, 1981. Prepared by Raymond B. Isely. C-Task # 94.
8. WASH Technical Report 8. *Integration de L'Approvisionnement en Eau et de L'Assainissement du Milieu dans les Programmes de Soins Primaires*. Presented in Sousse, Tunisia, August 31, 1981 by Raymond B. Isely. OTD #52.
9. WASH Technical Report 9. *Toward an Asia Bureau Water and Sanitation Policy Statement*. September, 1981. Prepared for the Office of Health, Population and Nutrition of the Asia Bureau, USAID by James Thomson. C-Task #98.
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11. WASH Technical Report 11. *The Role of Women as Participants and Beneficiaries in Water Supply and Sanitation Programs*. December, 1981. Prepared for the Office of Health by Mary L. Elmendorf and Raymond B. Isely. C-Task #51. (Also available in French and Spanish.)
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13. WASH Technical Report 13. *Participants Manual for Sessions on Water Supply and Sanitation: USAID Workshop on Primary Health Care in Africa, November 15-20, 1981. Lome, Togo*. February, 1982. Prepared for the Africa Bureau, USAID by Raymond B. Isely, Craig R. Hafner, Daniel A. Okun, Morris A. Shiffman, Thomas Talbert and Marjorie L. Kupper. OTD #53. (Also available in French.)
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18. WASH Technical Report 18. *Community Participation and Women's Role in Water Supply and Sanitation in Developing Countries: A Three-Part Bibliography by Author, Subject and Country.* November 1982. Prepared by Ellen Kendall. C-Task #235.
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8. WASH Field Report 8. *Tanzania - Health and Environmental Monitoring Project (HEMP): Recommendations for Project Paper Design Team.* February 22-March 13, 1981. Prepared for USAID by Dennis B. Warner and Kenneth Woolf. OTD #26.
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13. WASH Field Report 13. *Proyecto de Sistema de Entrega de Salud Rural Integrado - Saneamiento Rural.* March, 1981. Prepared for USAID Mission, Ecuador, by Gonzalo Medina. OTD #24.
14. WASH Field Report 14. *Targets of Opportunity for WASH: Report of a Reconnaissance Visit to India and Bangladesh, February 20-March 7, 1981.* Prepared for USAID by Raymond B. Isely. OTD #28.
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  20. WASH Field Report 20. *Technical Assistance in the Manufacture and Quality Control of the AID/Battelle Handpump in the Dominican Republic.* June, 1981. Prepared for the USAID Mission, Dominican Republic, by Robert Knight. OTD #1.
  21. WASH Field Report 21. *Plan for a Health Education Component for the Health Sector II Bilateral Assistance Project in the Dominican Republic.* July, 1981. Prepared for the USAID Mission, Dominican Republic, by Charles Llewellyn. OTD #21.
  22. WASH Field Report 22. *Evaluation of Yemen Water Supply Systems Management Project.* August, 1981. Prepared for the USAID Mission, Yemen Arab Republic, by Martin Lang and Clarence Calbert. OTD #39.
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  24. WASH Field Report 24. *Community Water Supply and Sanitation in Burundi: Report of an Evaluation Team.* October, 1981. Prepared for the USAID Mission, Burundi, by Raymond Isely, David R. Goff and Herbert Blank. OTD #36.
  25. WASH Field Report 25. *Water and Sanitation Alternatives for Southern Italy Disaster Relief.* December, 1980. Prepared for USAID Washington by David R. Goff and Michael A. Kostur. OTD #13.
  26. WASH Field Report 26. *Appropriate Technology for Rural Water Supply and Sanitation in El Salvador: A Brief Review and Bibliography.* September, 1981. Prepared for the USAID Mission, El Salvador, by Charles S. Pineo. OTD #17.
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  28. WASH Field Report 28. *Rural Sanitation and Manpower Development Project: Appropriate Technology and Information Dissemination.* October, 1981. Prepared for the USAID Mission, Indonesia, by Robert A. Gearheart. OTD #44.
  29. WASH Field Report 29. *Participation in a Workshop on Primary Health Care, August 31-September 3, 1981, Sousse, Tunisia.* October, 1981. Prepared for Bureau of the Near East, USAID, by Raymond B. Isely. OTD #52.
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  31. WASH Field Report 31. *Intensive Session on Water Sanitation and Health Education: A Workshop Held at UNICEF Headquarters, New York, April 22-23, 1981.* December, 1981. Prepared by Raymond B. Isely. OTD #37.
  32. WASH Field Report 32. *Hydrogeological Reconnaissance of the Yelimare-Tambacara Area of Mali with Reference to the Village Wells Project.* February, 1982. Prepared by George Taylor. OTD #64.
  33. WASH Field Report 33. *Environmental Health in Egypt: A Sectoral Assessment and Recommendations.* April, 1982. Prepared by Dennis B. Warner and David Donaldson. OTD #62.
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  37. WASH Field Report 37. *Community Water Supply and Sanitation in Sudan.* April, 1982. Prepared for the USAID Mission to the Democratic Republic of Sudan by Charles G. Chandler, Frank P. Araujo and Eddy K.C. Lo. OTD #60.
  38. WASH Field Report 38. *Recommendations for the Rural Water and Environmental Sanitation Project in Peru.* April, 1982. Prepared for the USAID Mission, Peru by David Donaldson and Charles S. Pineo. OTD #74.
  39. WASH Field Report 39. *Integration of Health Education in the CARE Water and Sanitation Project in Indonesia.* April, 1982. Prepared for the

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USAID Mission to the Republic of Indonesia by David Drucker. OTD #73.

40. WASH Field Report 40. *Para Village Water Supply: Pre-Feasibility Report*. April, 1982. Prepared for the Social Development Attache, U.S. Embassy, Brazil, by William M. Turner. OTD #66.
41. WASH Field Report 41. *Testing of the Portable Water Purification and Disinfection Units of the Office of Foreign Disaster Assistance (OFDA)*. April, 1982. Prepared for the Office of Health, AID, by the WASH Project. OTD #83.
42. WASH Field Report 42. *Water Supply and Sanitation and Diarrheal . Disease Control in the Comprehensive Health Improvement Project -- Province Specific (CHIPPS) in Indonesia*. April, 1982. Prepared for the USAID Mission to the Republic of Indonesia by James Thomson. OTD # 79.
43. WASH Field Report 43. *Technical Training of Peace Corps Volunteers in Rural Water Supply Systems in Morocco*. May, 1982. Prepared for the USAID Mission to the Kingdom of Morocco by Keith Sherer. OTD #61.
44. WASH Field Report 44. *Evaluation of Practical Training of Sanitation Agents: Sine-Saloum, Senegal Primary Health Care Project*. June, 1982. Prepared for USAID Mission Senegal, by Thomas C. Leonhardt and Felix Awantang. OTD #78.
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49. WASH Field Report 49. *An Assessment of the Method of Training Promoters . of the Ecuadorian Institute of Sanitary Works Ambato, Ecuador, May 17 to June 4, 1982*. July, 1982. Prepared for USAID Mission, Ecuador, by Hortense Dicker. OTD #96.
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53. WASH Field Report 53. *Recommendations for Initial Water and Sanitation Decade Planning Activities in the Central African Republic*. September, 1982. Prepared by Dennis Warner. OTD #106. (Also available in French.)
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58. WASH Field Report 58. *Environmental Sanitation Master Plan for Training and Education in Tanzania*. September, 1982. Prepared for the USAID Mission, Tanzania, by Robert Gearheart, John Briscoe and Eugenia Eng. OTD #75.
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60. WASH Field Report 60. *Second Training of Trainers Workshop for Technology Transfer in Water Supply and Sanitation*. November, 1982. Prepared by Fred Rosensweig and James Carney. OTD #90.
61. WASH Field Report 61. *In-Service Technical Training and Program Review of Peace Corps Volunteers in Rural Water Supply Systems in Morocco*. November, 1982. Prepared by Keith Sherer. OTD #111.
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63. WASH Field Report 63. *A Workshop for the Design of Low Cost Water Systems in Ecuador*. November, 1982. Prepared by Donald T. Lauria. OTD #105.
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69. WASH Field Report 69. *Diagnosis and Recommendations for Rural Water and Sanitation Systems in Honduras*. January, 1983. Prepared by Charles S. Pineo and Henry Van. OTD #101.
70. WASH Field Report 70. *Training of Indian Health Service Engineers and Sanitarians as Trainers for the Peace Corps: Workshop Report and Trainer Guidelines*. February, 1983. Prepared by Wilma Gormley. OTD #121.
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80. WASH Field Report 80. *Comparative Costs of the AID Type Pump Fabricated in the Dominican Republic and the U.S. Manufactured Moyno-Pump*. April 1983. Prepared by Justin H. Whipple. OTD #130.

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83. WASH Field Report 83. *Evaluation of CARE/Indonesia Water Supply Projects*. May, 1983. Prepared by Robert A. Gearheart. OTD #136.
84. WASH Field Report 84. *Evaluation of health and Social Benefit of Springs Capped for Irrigation, Further Adapted for Domestic Use in Central Tunisia*. May, 1983. Prepared by Raymond B. Isely. OTD #120.
85. WASH Field Report 85. *Technical Assistance to Manufacturers of AID Handpumps and Roboscreeens in Honduras: Phase I*. May, 1983. Prepared by Ben E. James, Jr. OTD #29.
86. WASH Field Report 86. *An Assessment of the Water and Sanitation Sector in the Peace Corps Program: Role of the Office of Program Development*. May, 1983. Prepared by John B. Tomaro. OTD #109.
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89. WASH Field Report 89. *Evaluation of the Feasibility of Manufacturing and Marketing the AID-Design Handpump and Roboscreen in Peru*. June, 1983. Prepared by the WASH Project. OTD #144.
90. WASH Field Report 90. *The Minyambou Community Development Water Project and Water Supply in Irian Jaya*. June, 1983. Prepared by Scott Faiia. OTD #133.
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92. WASH Field Report 92. *Public Health Education for Low-Cost Sanitation in Tanzania*. June, 1983. Prepared by John W. Hatch. OTD #142.
93. WASH Field Report 93. *Latrine Construction Workshops, Las Mata de Forfan, Dominican Republic, April 4-15, 1983, April 25-May 6, 1983*. June, 1983. Prepared by Winanne Kreger and Henry Van. OTD #143.
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95. WASH Field Report 95. *Sanitation Feasibility for Kanye Vallage, Botswana*. July, 1983. Prepared by Joseph Gadek and Hildegard M. Vanlankveld. OTD #95.
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99. WASH Field Report 99. *Training in Health Education and Sanitation Promotion for Rural Water Projects in Malawi*. August, 1983. Prepared by Lousie McCoy. OTD #144.
100. WASH Field Report 100. *USAID Handpump program in Tunisia*. September, 1983. Prepared by Phillip W. Potts. OTD #63. (Also available in French).
101. WASH Field Report 101. *Technical Assistance for Handpump Component of the Health Sector Loan II Project in the Dominican Republic*. ; August, 1983. Prepared by Paul F. Howard and Robert Knight. OTD #48.
102. WASH Field Report 102. *Endurance Tests of Robovalves*. September, 1983. Prepared by Yaron M. Sternberg and Robert Knight. OTD #71.
103. WASH Field Report 103. *Evaluation of Locally Available Handpumps in Honduras*. October, 1983. Prepared by Terrence L. Moy. OTD #85.

PROJECT DESIGN MANUAL REFERENCES DEVELOPMENT - NEAR EAST BUREAU

The Near East Bureau is developing a manual to assist USAID staff in identifying and describing water supply and sanitation projects in the field. An important component of the WS&S PID Manual is its "reference library" consisting of seventeen texts, papers and reports, some of which are unpublished. Twenty "library sets" of these items will cost about \$3,500 (some texts now cost \$43.00 each). The PID Manual Library is expected to be distributed in March 1981, pending final approval of the manual. The references are listed below. Similar "library sets" and bibliographies on relevant water supply and sanitation themes will be developed on request from Missions and Bureaus. For further information, contact James E. Beverly, Information Director.

OTD #3

MISSION WS&S REFERENCE COLLECTION

- Agency for International Development. HEALTH SECTOR POLICY PAPER. AID, Washington, DC, 1981.
- Agency for International Development. WATER SUPPLY AND SANITATION POLICY PAPER. AID, Washington, DC 1981.
- Badran, Margot. LOW COST WATER SUPPLY AND SANITATION, SUDAN. United Nations Development Programme, 1980.
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- Johnson, Pamela. SANITATION AND HYGIENE IN THE NEAR EAST. Agency for International Development, NE/TECH, 1980.
- National Academy of Science. MORE WATER FOR ARID LANDS: PROMISING TECHNOLOGIES AND RESEARCH OPPORTUNITIES. Washington, DC, 1974.
- Pacey, Arnold, editor. SANITATION IN DEVELOPING COUNTRIES. John Wiley and Sons, Ltd. Chichester, England, 1978.
- Saunders, Robert J. and Jeremy J. Warford. VILLAGE WATER SUPPLY: ECONOMICS AND POLICY IN THE DEVELOPING WORLD. Johns Hopkins University Press, Chicago, 1972.
- Van Wijk-Sijbesma, Christine. PARTICIPATION AND EDUCATION IN COMMUNITY WATER SUPPLY AND SANITATION PROGRAMMES: A LITERATURE REVIEW. World Health Organization, IRC, 1979.
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October 6, 1980

Water and Sanitation For Health Project

Order of Technical Direction Number 3

TO: WASH Contract Project Director, Mr. J. Arbuthnot, P.E.

FROM: A.I.D. WASH Project Managers  
Mr. Max Batavia, P.E. *MS*  
Mr. Victor Wehman, Jr., P.E., R.S. *QWW*

SUBJECT: Near East Bureau Water Supply and Sanitation PID Manual Library

The Near East Bureau sometime back had asked the Office of International Health (OIH) to develop a manual to assist USAID staff in identifying and describing water supply and sanitation projects in the field. A final draft has recently been submitted by OIH to Mr. Joe Haratani of the Near East Bureau (NE/TECH).

This draft will be distributed to the appropriate missions in the Near East Bureau for comments.

One of the components of the manual is a reference library. Mr. Haratani is requesting 20 copies of each of the documents listed on the attached sheet in order to complete his manual.

We have some of the publications that are requested. Please contact Mr. Haratani at 632-0215 for a copy of those publications not available in DS/Health. Since most of the publications are useful and may be requested periodically by other people, we suggest that 30 copies of each document be made available (10 for storage in WASH Information Center for future use and 20 for Mr. Haratani's use).

Thank you.

Attachment  
as stated

MB:ja

MEMORANDUM

October 2, 1980

TO: DS/HEA, Mr. Victor Wehman

FROM: NE/TECH/HPN, Joe Haratan *JH*

SUBJECT: NE Bureau Water Supply and Sanitation PID Manual Library

Over the past years your office has provided excellent support to the Near East Bureau. Recently DS/HEA was instrumental in providing inter-agency resources through the RSSA with the Office of International Health (OIH), HHS (formerly HEW). NE/TECH/HPN asked OIH to develop a manual to assist USAID staff in identifying and describing water supply and sanitation projects in the field. OIH has recently submitted a final draft "PID Manual" to this office. While this document will be distributed to the field for review and comment, I expect no significant changes in the major components.

One of the components of the manual is a full-text reference library. In its present form, this reference library consists of 8 unpublished papers and 8 published texts. (See attached lists of titles.)

When the manual has been reviewed and approved, I plan to distribute the total package including the full-text reference library to specific USAID staff responsible for water supply and sanitation sector programs in the Near East Bureau countries. To accomplish this distribution I am requesting the support of your office in providing 20 copies of each document listed through the Water and Sanitation for Health (WASH) IQC.

If you need additional information pertaining to this request, please call me at 632-0215.

Att: as stated

WATER AND SANITATION FOR HEALTH (WASH) PROJECT  
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 3

AMENDMENT NO. 1

December 14, 1981

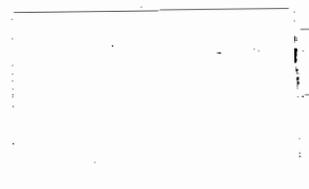
TO: Dr. Dennis Warner, Ph.D., P.E.  
WASH Contract Project Director

FROM: Victor W.R. Wehman, Jr., P.E., R.S. *W.R.*  
AID WASH Project Manager  
S&T/HEA/CWSS

SUBJECT: Near East Water Supply and Sanitation PID Manual Library

1. WASH contractor authorized to expend up to 3 person days of effort to accomplish this technical assistance effort. No per diem is authorized.
2. Purchase of documents involved plus packing and distribution costs authorized up to but not to exceed \$4,000.
3. No travel or per diem is authorized under this OTD.
4. Nothing follows.

VWW:ja





OTD #15 - December 12, 1980

WELL DRILLING EQUIPMENT SPECIFICATIONS AND PROCEDURES - TUNISIA

As part of its rural potable water subproject, the AID Mission in Tunisia is examining the use of low-cost technology for drilling relatively shallow wells (maximum 200 meters) having low to moderate yields. The government of Tunisia is experienced in drilling larger and deeper wells for irrigation water and needed assistance in preparing a suitable invitation for bidders for the purchase of a smaller, less expensive drilling rig. The Mission is also interested in the use of PVC in well casing and screens.

An experienced well driller spent eight days in Tunisia in December 1980 conferring with AID and Tunisian officials and drafting bid specifications and the personnel specifications for a well drilling adviser to train Tunisians in the use of top head drive rotary drills.

The consultant provided technical information and guidance on the use of PVC well casing and screens, but recommended that steel casing and screening be used initially. Later on PVC could be used in areas where drilling is relatively uncomplicated and straightforward and the crews are more experienced with the new drilling rig.

There are two Tunisian government agencies interested in using the proposed technology. One has had considerable experience with operating and maintaining heavy equipment. If the other agency is assigned the technology, an intensive training program will be required. Twenty-one days were authorized for this OTD. Fifteen were used. Further information may be obtained from Mr. James Arbuthnot.

WATER AND SANITATION FOR HEALTH PROJECT  
Order of Technical Direction Number 15

December 12, 1980

TO: Mr. James Arbuthnot, P.E.  
WASH Contract Project Director

FROM: Mr. Max K. Batavia, P.E. *MKB*  
Mr. Victor W.R. Wehman, Jr., P.E., R.S. *VW*  
AID WASH Project Managers

SUBJECT: Provision of Technical Assistance Under WASH Project  
Scope of Work for USAID/Tunisia

1. WASH contractor requested to provide technical assistance to USAID/Tunis.
2. WASH contractor/subcontractor/consultants authorized to expend up to 21 person days effort to accomplish this technical assistance effort.
3. Contractor to coordinate directly with USAID/Tunis. Please check with Mr. Paul Holmes (Regional Bureau Staff-NE/PD; telephone No. 632-9220) for name of Mission contact. Also, keep Mr. Holmes and Mr. Haratani, NE/TECH fully informed.
4. International travel, local travel and miscellaneous expenses authorized as necessary to carry out services including phone calls or cables.
5. Mission and Regional Bureau should be contacted immediately and technical assistance initiated ASAP (see para. 6 of Ref. (A)).
6. WASH Project Officers recommend that the services of an internationally and nationally recognized expert in well drilling be procured to perform services as per scope of work in para. 5 of Ref. (A).
7. Contractor shall provide draft final report to Mission before leaving Mission.

DS/HEA/EH:M.Batavia:ja:12/12/80

UNCLASSIFIED  
Department of State

INCOMING  
TELEGRAM

T. 1. 1

PAGE 01 TUNIS 09517 100554Z  
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ACTION OFFICE NEPD-03  
INFO NEOP-02 NETC-04 NENA-03 PPCE-01 PDKR-01 PPPB-03 PPEA-01  
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AIDAC

E.O. 12065: N/A  
SUBJ: TECHNICAL ASSISTANCE FOR RURAL POTABLE WATER  
SUBPROJECT (664-0312.7)

REF: SUBPROJECT PP PP. 12A-E AND ANNEX J.

1. FOR PAUL HOLMES NE/PD AND VIC WEMMAN, DS/NEA/EH.

2. USAID/TUNIS REQUESTS TECHNICAL ASSISTANCE OF TOY  
EXPERT IN WELL DRILLING TO ASSIST MISSION, CTDA AND  
MINAG'S WELL DRILLING BRANCH REGIE DE SONDAGE IN  
PREPARATION OF IFB FOR DRILLING RIG TO BE GRANT-  
FINANCED BY RURAL POTABLE WATER SUBPROJECT. WE  
REQUEST THAT THIS SERVICE BE FUNDED UNDER WASH PROJECT  
WHICH WE UNDERSTAND IS DESIGNED TO RESPOND RAPIDLY TO  
THIS TYPE OF REQUEST. OUR OBJECTIVE IN MAKING THIS  
REQUEST IS TO ASSIST GOT AND MISSION IN PREPARING IFB  
TO MAXIMIZE INTENDED USE OF SUBPROJECT GRANT FUNDS  
IN PURCHASE OF DRILLING RIG FOR EXPERIMENTAL PURPOSES:  
TO PROMOTE TECHNOLOGY OF DRILLING RELATIVELY SHALLOW  
(MAXIMUM 200 METERS) LOW-COST WELLS WITH LOW-TO-  
MODERATE YIELDS.

3. CTDA, WHICH HAS EXPERTISE IN WELL DRILLING, HAS  
DELEGATED RESPONSIBILITY OF PREPARING IFB TO REGIE  
DE SONDAGE. REGIE HAS EXTENSIVE EXPERIENCE IN DRILLING  
AND OPERATES 23 RIGS ALL OF WHICH ARE FULLY EMPLOYED  
IN DRILLING DEEP (400 METERS OR MORE), HIGH YIELD  
(UP TO 100 LITERS/SECOND), EXPENSIVE WELLS PRIMARILY FOR  
IRRIGATION. DISCUSSIONS TO DATE WITH REGIE INDICATE  
THEY, IN THEIR APPROACH TO DRILLING, ARE ORIENTED  
TOWARDS "CADILLAC" MODELS AND ACCESSORIES (E.G.  
THREE MOBILE SHELTERS TO HOUSE AND FEED RIG OPERATORS) WHICH  
WE BELIEVE ARE NOT REQUIRED FOR THIS SUBPROJECT. MISSION  
HAS NO PERSONNEL IN THIS FIELD TO CONDUCT TECHNICAL DIALOGUE  
NEEDED TO INSURE THAT ALL THREE PARTIES - USAID, CTDA AND  
REGIE DE SONDAGE - AGREE UPON AND FORMULATE AN IFB FOR A  
RIG WHICH IS TECHNICALLY SUITABLE AND ALSO SATISFIES PROJECT  
INTENT. REQUESTED TECHNICAL ASSISTANCE WILL ENABLE US TO  
JOINTLY PREPARE IFB AND THEREBY REDUCE POSSIBILITY OF MIS-  
UNDERSTANDINGS, AND DELAY IN PROJECT IMPLEMENTATION.

4. THE TERMINAL DATE FOR MEETING OFF-SHORE PROCUREMENT  
CONDITION PRECEDENT IS 31 DECEMBER 1980. TO DATE,  
REGIE HAS PRODUCED OUTLINE OF SUGGESTED SPECIFICATIONS FOR  
ROTARY RIG WITH MUD, AIR, AND FOAM DRILLING CAPACITY  
AND HAS REQUESTED THAT WE PROVIDE DRILLING EXPERT TO  
ASSIST IN PREPARING IFB.

5. WELL DRILLER EXPERT SERVICES WILL BE NEEDED FOR  
APPROXIMATELY TWO WEEKS. SUGGESTED SCOPE OF WORK  
IS AS FOLLOWS:

A. REVIEW SUBPROJECT LITERATURE IN TUNIS.

B. MAKE RECONNAISSANCE TRIPS TO REGIE DE SONDAGE,  
SIF AND EQUIPEMENT HYDRAULIQUE. VISIT THEIR YARDS  
AND MAINTENANCE CENTERS. PROVIDE MISSION WITH BRIEF  
ASSESSMENT OF CAPABILITIES OF EACH INSTITUTION.

C. MAKE RECONNAISSANCE VISIT TO FIELD DRILLING  
OPERATION.

D. REVIEW DRILLING RIG SPECIFICATIONS AND ACCESSORIES  
SUGGESTED BY REGIE DE SONDAGE AND MEET JOINTLY WITH  
USAID, CTDA, REGIE TO FINALIZE BOTH. REVIEW DRAFT  
IFB AND SUGGEST MODIFICATIONS.

3. RECOMMEND LOW COST APPROACHES TO DRILLING,  
APPROPRIATE FOR CONDITIONS IN CENTRAL TUNISIA.

6. TECHNICAL ASSISTANCE IS NEEDED NOV. WOULD  
APPRECIATE YOUR ASSESSMENT OF WHEN EXPERT COULD BE  
FIELDIED IN ORDER TO INFORM GOT.

7. PLEASE CONFIRM THAT THIS ASSISTANCE CAN BE  
PROVIDED UNDER THE WASH PROJECT. ADVISE.  
BOSWORTH

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Technical Assistance in Local Manufacturing  
and Installation of AID Handpumps  
and Robovalves-Tunisia

This work is being performed by Georgia Tech under contract with DS/HEA and includes the following tasks:

1. Render technical assistance to the local Mission, host government and private volunteer organizations (PVOs) implementing rural water supply programs associated with hand-operated water pumps, valves (faucets) for piped water schemes .
2. Place order with selected foundries, machine shops and plastics manufacturers for the manufacture of no less than 40 A.I.D. handpumps and 200 Robovalves. These orders are to be filled no more than ten months after issuing of contract.
3. Provide working drawings, prototypes and technical assistance to the selected foundries, machine shops and plastics manufacturers in proper production techniques and quality control for manufacturing the A.I.D. handpumps and Robovalves.
4. Inspect, test and accept A.I.D. handpumps and Robovalves when manufacturing is complete.
5. Develop no less than ten sanitary wells and upper structures, install handpumps and Roboscreens, disinfect well waters, perform chemical analysis on well waters for chlorine residual and other tests as necessary, and monitor and evaluate performance of the handpumps. This task will also involve the installation, monitoring and evaluation of the Robovalves manufactured in Tunisia at sites where appropriate. In cases where manufacturing defects are discovered in the field the data will be fed back to the manufacturer for tightening of quality control.

The contract period is August 30, 1980 to July 31, 1981.  
Contract cost is \$99,900.

I. Hand Pump and Robodevice Testing

A. TUNISIA

CONTRACT: For Local Manufacture of AID Handpump and Robo-  
devices - Project No. 93-1176

A study was carried out in Tunisia by a team from Georgia Tech under Contract No. AID/ta-C-1354 to determine the feasibility of locally manufacturing the AID hand pump and the Robodevices. Based on this study and with the authorization to USAID/Tunisia to obligate \$60,000, a contract was signed by USAID with Georgia Tech for technical assistance in the local manufacture and testing of the pump and devices.

NEGOTIATED CONTRACT NO.: USAID/Tunisia 664-724 8/26/80  
CONTRACTOR: Georgia Tech Research Institute  
TECHNICAL OFFICE: DS/HEA  
OBLIGATION NUMBER: 3606697  
APPROPRIATION NUMBER: 72-11021-8  
ALLOTMENT NUMBER: 048-36-099-00-2-01  
ESTIMATED CONTRACT COST: \$99,895  
ESTIMATED COMPLETION DATE: 7/30/81

The contract was amended in March 1981, deleting the manufacture of the small Robovalve and Roboscreen because of lack of national interest. An additional \$36,000 was obligated bringing the total obligation for the contract to \$96,000. As a result of eliminating the Roboscreen and the family type Robovalve from the contract, the contract was reduced by \$4,000 in March, 1981.

OBJECTIVES

The objectives of the contract are for the Contractor to provide technical assistance to the Government of Tunisia and USAID/Tunisia in locally manufacturing handpumps and the larger Robovalves, and in developing no less than ten sanitary wells and upper structures, installing handpumps, disinfecting the well water and performing chemical analysis on well waters for chlorine residual and other tests as necessary, also to monitor and evaluate the performance of the handpumps. The Contractor will also install, monitor and evaluate the larger public hydrant type Robovalves.

ESTIMATED BUDGET

The estimated budget based on the original contract figure was as follows:

Salaries and wages (220 persons days)	\$ 20,300
Fringe benefits (10.51% of salaries)	2,134
Overhead (in country) 51% of 195 person days	9,282
Overhead (U.S.) 73% of .75 months salaries	1,533
Defense Base Act Insurance	2,066
Travel (international and in-country)	15,200
Per diem (\$82/day for 240 days)	19,680
Consultants	5,400
Equipment (handpumps, Robodevices)	23,300
Other direct costs	<u>1,000</u>
 Total	 \$ 99,895

The contractor is to place orders with selected foundries, machine shops and plastics manufacturer, for the manufacture of no less than 40 AID handpumps and 200 Robovalves (per original contract).

The contractor is to provide a project director and a mechanical engineer (consultant)

Based on the contract arrangement we made with Les Fonderies Reunies for the manufacture of 40 AID hand pumps at a cost of \$232.75 each during April and May 1981 the handpump will be installed in the field after capping pre-selected open, existing wells. Installation will be a joint effort of Georgia Tech, CAIZE and the Ministry of Agriculture. If the pump tests out as expected the Government of Tunisia and CARE will use it on upcoming hand pump installations.

It is expected that arrangements will be made with the Societe des Applications Plastiques to produce 200 of the public hydrant Robovalves. Because of the reluctance of the Tunisian Ministry of Agriculture engineers to accept the concept of a plastic well screen, the Roboscreen will not be introduced into Tunisia at this time.



OTD #20 - January 16, 1981

DESIGN AND ANALYSIS - LEBANON

Under a current Environmental Subproject, AID is supporting the American University in Beirut, Lebanon, and the Ministry of Public Health in the design, construction and testing of small wastewater stabilization ponds to treat sewage from small towns. The Mission has requested technical advice on design alternatives to minimize construction costs.

The WASH Project will provide a consultant for twenty-two days over a two month period. After reviewing the situation, plans, sites, operation, budgets and schedules with AID and Lebanese officials, the consultant will develop recommendations on the most appropriate and acceptable approaches to small wastewater stabilization pond utilization.

A WASH consultant left for Lebanon February 27, 1981. For further information, contact Mr. Dennis Warner.

January 16, 1981

Water and Sanitation For Health Project  
Order of Technical Direction #20

TO: Mr. James Arbuthnot, P.E.  
WASH Contract Project Contractor

FROM: Mr. Manoj K. Batavia, P.E. *MKB*  
Mr. Victor W.R. Wehman, Jr., P.E., R.S. *VW*

SUBJECT: Provision of Technical Assistance Under WASH Project Scope  
of Work for USAID/Lebanon

REFS: [ AA) Memo, Haratani/Wehman, 14 Jan 81  
A) Beirut Cable #0062. 6 Jan 81  
B) Beirut 06662, 30 Oct 81  
C) State 285329  
D) Project Proposal "Environmental Sanitation"  
E) Contract between Council for Development and Reconstruction  
and American University of Beirut, Nov. 29, 1979  
F) Environmental Sanitation Project Steering Committee Meeting  
No. 1, 8 Jan 80  
G) ESPSCM No. 2, 11 Jan 80  
H) ESPSCM No. 3, 16 Jan 80  
I) ESPSCM No. 4, 25 Jan 80  
J) ESPSCM No. 5, 5 Feb 80  
K) ESPSCM No. 6, 12 Feb 80  
L) ESPSCM No. 7, 31 Mar 80  
M) ESPSCM No. 8, 11 Apr 80  
N) ESPSCM No. 9, 9 Jun 80  
O) Memo NE/TECH (Rnadlov) to USAID/Lebanon (Cody), 15 Oct 80  
P) Letter Keshishian/Cody, 3 Sept. 80  
Q) Environmental Sanitation Project Interim Report by  
Steering Committee, 10 July 80  
R) Functional Specifications for the Supply, Installation and  
Commissioning of Two Wastewater Treatment Plants at  
RABIEH and KEIFOUN

1. WASH Contractor requested to provide technical assistance to USAID/Lebanon as per Ref. AA and A Scope of Work.
2. [ WASH Contractor/sub-contractor/consultants authorized to expend up to 22 days effort over a two (2) month period to accomplish this technical assistance effort.
3. Contractor to provide draft final report to Mission before leaving Mission. Final report due DS/HEA and Mission within 30 days of consultant leaving Mission.
4. Contractor to coordinate directly with USAID/Lebanon, probably with Program Officer, Mission engineer or Mission health officer. Inform Mr. Haratani, NE/TECH, phone: 632-0215, of progress on effort, along with NE/PD project officer (unknown - check with Mr. Haratani) and Lebanon desk officer.

5. WASH Contractor authorized to allow one (1) consultant to spend up to 14 person days of effort in Lebanon if necessary plus two travel days going and two travel days returning.
6. Consultant should receive briefing before leaving and debriefing upon return. For debriefing at least invite NE/TECH (Haratani) NE/PD officer, NE/PD/ENGR (Fedel - 632-7327) Lebanon desk officer, and DS/ENGR (Mr. John Zedalis, 235--9827) and DS/HEA project officers.
7. Per diem and miscellaneous expenses authorized as per contract.
8. { Mission and Haratani should be contacted immediately and technical assistance initiated as soon as possible and convenient to USAID/Lebanon.
9. Individual chosen to represent WASH should be thoroughly expert on scientific, engineering, and operation/maintenance/management aspects of waste stabilization pond systems. Individual chosen must be approved by aid project officer. Mission does not want solely academic and research background.
10. Appreciate your prompt attention to this matter. Good luck.

January 14, 1981

MEMORANDUM

TO: DS/HEA, Mr. Vic Wehman

FROM: NE/TECH/HPN, Joe Haratani *jh*

SUBJECT: Lebanon: Request for Technical Assistance from WASH

As noted in Beirut 0062, dated January 6, 1981 and described in the attached documents, the A.I.D. Mission in Lebanon has requested technical assistance on Environmental Sanitation Subproject (268-0305) in which the American University of Beirut (AUB) is to design, build and test small wastewater stabilization ponds to treat sewage from small towns for the Ministry of Public Health (MOH).

The Mission is requesting the professional services of an expert consultant on the design and construction of waste stabilization ponds to advise the pertinent AUB and MOH staff on design alternatives to keep construction costs at a minimum. The expert should arrive in mid-February and remain for a period of from 1 to 2 weeks. Upon arrival in Beirut he will be briefed by the A.I.D. Representative or his designee on the purpose and scope of the Subproject and provide additional information relevant to his assignment. The A.I.D. staff will arrange meeting(s) with appropriate officials and introduce the consultant to them.

The consultant will familiarize himself with the project's purpose, design, implementation and evaluation plans as agreed between the MOH, AUB, and A.I.D. He will be briefed by the pertinent AUB staff on their specific technical design ideas and plans for implementation of the project along with an implementation schedule and budget. The consultant will visit the selected sites and review existing technical data to verify their choice as representative and appropriate for the subproject. He will visit alternative or control sites and/or existing sewage treatment plants as he deems necessary for his study.

Based on the above meeting, field visits and review of technical data, the consultant shall develop recommendations on the most appropriate and acceptable methodology for achieving the subprojects outputs and purpose. The consultant will prepare his report of findings, analysis and recommendations in writing and submit it in draft to the A.I.D. Representative before leaving the country.

A final report shall be submitted to NE/TECH/HPN within 30 days of his departure from Lebanon for review, approval and transmission to the A.I.D. Representative in Lebanon.

cc: A.I.D. Rep/Lebanon, Ernie Popp



OTD 31 Summary      March 11, 1981

Wastewater Treatment Design Review and Guideline  
Preparation - Jordan

USAID/Amman and the National Planning Commission have been discussing the need and value of the "standardization" of design, construction, operation and maintenance of wastewater treatment processes and plants in the cities and rural towns of Jordan. The number of projects and feasibility studies underway and planned (over a dozen) merit the development of a set of wastewater treatment guidelines for the use of all concerned, hence this OTD.

WASH Project is authorized 33 person days over a three month period, including one international round trip by its consultant, for this OTD.

The WASH consultant will: a) review and evaluate the feasibility studies and designs for all wastewater treatment plants and processes under review in Jordan, including plant visits with consideration of "appropriateness" and of effluent quality, standards, and self-purification of receiving waters as a function of treatment; b) participate in a round-table conference on design review and discussion of guideline scope and contents with Jordanian and AID officials and consultants; and c) prepare an outline of guidelines and recommendations for the National Planning Commission.

For further information, contact Mr. James Arbuthnot.

MAR 11 1981

MEMORANDUM

March 11, 1981

Water and Sanitation for Health (WASH) Project  
Order of Technical Direction (OTD) Number 31

TO: Mr. James Arbuthnot, P.E.  
WASH Contract Project Director

FROM: Mr. Victor W.R. Wehman, Jr., P.E., R.S.,  
AID WASH Project Manager

SUBJECT: Provision of Technical Assistance Under WASH Project Scope of Work  
for USAID/Jordan

REFS: A) Memo Mohn/Arbuthnot, 23 Feb 81  
B) Amman 1269, 19 Feb 81  
C) State 40927, 18 Feb 81  
D) Memo Arbuthnot/Mohn, 3 Feb 81  
E) State 24987, 31 Jan 81  
F) Amman 00594, 26 Jan 81  
G) Amman 08393, 18 Dec 81  
H) Amman 08230, 11 Dec 81

1. WASH Contractor requested to provide technical assistance to USAID/Jordan as per Ref. C and Ref. B.
2. WASH Contractor/sub-contractor/consultants authorized to expend up to 33 person days efforts over a three-month period to accomplish this technical assistance.
3. Contractor to provide draft final (typed) report to mission before leaving mission. Final report due DS/HEA and mission with 30 days of consultant leaving Jordan.
4. Contractor to coordinate directly with USAID/Jordan, with Mr. Tom Pearson (See Ref. B); with Jordan AID desk officer (as appropriate); with NE/PD/ENGR, Mr. Montanari; and with NE/PD Project Officer, Ms. Mohn (as appropriate).
5. WASH AID Project Manager recommends that WASH Contractor use technical assistance personnel recommended by mission and NE/PD/ENGR for this effort.
6. WASH Contractor authorized to allow consultant to make one (1) international round trip into and out of Amman, Jordan to his/her home base through Washington, D.C., as appropriate, during the technical assistance effort. Consultant should definitely come to Washington for briefing before consultation and debriefing after consultation.

7. WASH Contractor authorized up to 29 days international and domestic per diem to accomplish effort.
8. WASH Contractor authorized local Jordan travel as necessary to ensure consultant accomplishes mission.
9. WASH Contractor authorized secretarial services, xerox services, graphic services, and miscellaneous expenses as necessary to accomplish mission.
10. Suggest consultant periodically phone contractor to report progress at suitable intervals to ensure consultant adequately backstopped in the field.
11. Mission and coordination points in Washington should be contacted immediately and technical assistance initiated as soon as possible and convenient to USAID/Jordan.
12. As this is a team effort involving AID direct-hire staff, mission PSC staff and WASH consultants, WASH consultant will report to Mr. Tom Pearson (representing client) while in-country or his representative and to WASH Project Director while in U.S.
13. Appreciate your prompt attention to this matter. Good luck.

VWW: ja:3/11/81

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INCOMING  
TELEGRAM

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ACTION AID-35

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AMMAN 06230 111142Z

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ACTION OFFICE NEJL-03  
INFO NEPD-03 NECP-03 NETC-04 STA-10 ENGR-02 CH8-01 RELO-01  
DAEN-01 MAST-01 /028 A1 11

ARE BEING CONSIDERED, USAID BELIEVES THAT, IF THE ASSISTANCE IS TO BE PROVIDED, IT NEEDS TO BE PROVIDED IN THE VERY IMMEDIATE FUTURE. WE WOULD APPRECIATE AID/W COMMENTS AND SUGGESTIONS. USAID ACCUMES YOU CAN REACH CASSANOS IF YOU WISH DISCUSS ABOVE WITH HIM. VELIOTES

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E.O. 12065:H/A

SUBJECT: WASTEWATER TREATMENT SYSTEM

1. USAID AND HPC HAVE BEEN DISCUSSING ON A VERY INFORMAL BASIS THE NEED AND VALUE TO CONSIDER "STANDARDIZATION" OF PLANTS AND PROCESSES FOR THE TREATMENT OF WASTEWATER. AS AID/W AWARE THERE ARE ONLY TWO WASTEWATER TREATMENT PLANTS IN JORDAN - AMMAN AND SALT -.

THERE ARE A NUMBER OF PROJECTS UNDER CONSIDERATION, INCLUDING FEASIBILITY STUDIES FOR MAJOR CITIES AND SMALLER RURAL CITIES. HPC, MMREA, WSC AND OTHERS ARE NOW IN THE PROCESS OF REVIEWING THE DESIGNS FOR TWO PLANTS AND CONSIDERING ALTERNATIVES PRESENTED IN VARIOUS FEASIBILITY STUDIES. EACH CONSULTANT RECOMMENDS A DIFFERENT TYPE OF TREATMENT. SOME ARE CAPITAL INTENSIVE, HIGH TECHNOLOGY, RELATIVELY HIGH OPERATION COST (INCLUDING POWER COST), OTHERS MORE SIMPLIFIED EASY TO OPERATE. ALL RECORDEDLY PROVIDE THE SAME QUALITY OF EFFLUENT. KNOWLEDGEABLE PEOPLE TO EVALUATE AND PROVIDE EXPERT GUIDANCE AND OPINION ON ALL OF THE ALTERNATIVES BEING PRESENTED TO THE GOJ ARE LIMITED. THEREFORE, IT MIGHT BE DESIRABLE TO PROVIDE ASSISTANCE TO THE GOJ IN THE FORM OF A STUDY OF THE VARIOUS TYPES OF TREATMENT PLANTS TO ESTABLISH SOME SORT OF CRITERIA FOR BEST MEETING THE REQUIREMENT. SHOULD THIS NOT BE PRACTICAL, OR EVEN IF IT IS, IT MIGHT BE DESIRABLE TO PROVIDE IMMEDIATE ASSISTANCE TO GOJ IN CONSIDERING THE DESIGN AND SELECTION OF VARIOUS PLANTS NOW BEING EVALUATED BY THE GOJ. THESE WOULD INCLUDE IRBIO, AQABA, ZARQA-RUSEIFA AND THE PLANTS BEING RECOMMENDED IN THE FEASIBILITY STUDIES FOR GREATER AMMAN.

2. IN ADDITION TO THE ABOVE PLANTS, THE GOJ IS IN THE PROCESS OF CONDUCTING FEASIBILITY STUDIES FOR FOUR CITIES IN THE SOUTHERN REGION OF JORDAN AND WILL BE VERY SOON REQUESTING PROPOSALS FOR A STUDY COVERING FIVE CITIES IN THE NORTH.

3. USAID WOULD LIKE TO INVESTIGATE WAYS AND MEANS OF PROVIDING SUCH SERVICES SO THAT THIS SUBJECT CAN BE DISCUSSED FURTHER WITH THE GOJ. WE BELIEVE THAT THE CONTRACTOR FOR THE "WASH PROJECT" WOULD BE MORE APPROPRIATE IN THIS CASE THAN SEEKING ASSISTANCE THROUGH THE IQC ROUTE. WE BELIEVE IT IS NECESSARY TO ASSIST GOJ TO ACQUIRE SERVICES OF A VERY HIGHLY QUALIFIED ENGINEER AND POSSIBLY FINANCIAL EXPERT PARTICULARLY SINCE GOJ IS INTERESTED IN EVALUATING THE COST OF POWER AND OTHER OPERATING COSTS VERSUS CAPITAL COST.

4. SINCE PROJECTS MAY BE DELAYED WHILE ALTERNATIVES

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OUTGOING <sup>Ref</sup>  
TELEGRAM

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CTIONS AND INFORMATION PERTINENT TO JORDAN AND ITS CONDI-  
TIONS.

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APPROVED BY AID/NE/PC/ENGR:R FEDEL

AID/NE/PD/SJILC:D MCCALL

AID/NE/PD/ENGR:F MONTANARI

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TAGS:

SUBJECT: WASTE WATER TREATMENT GUIDELINES - SCOPE OF WORK  
FOR HARRIS SEIDEL

REF: (A) AMMAN 08230 (B) AMMAN 08393 (C) AMMAN 00595  
(D) STATE-PRIORITY 2/11/81 (E) AMMAN 01105

1. FOLLOWING IS SUGGESTED PROGRAM FOR SEIDEL: TOTAL 25  
CALENDAR DAYS: TRAVEL 4 DAYS - ETA JORDAN MARCH 20; WORK-  
DAYS - 18 (2 IN AID/W, 15 IN JORDAN); REST DAYS - 3 (MAR.  
21, 27, APRIL 3). FINANCING AND TRAVEL ARRANGEMENTS - TO  
BE PROVIDED BY AID THROUGH WASH PROJECT.
2. PROPOSED PROGRAM FOR 18 WORK DAYS: 2 DAYS PRIOR REVIEW;  
1 DAY - CONSULTATION IN AID/W; FIRST 3 DAYS - CONSULTATION  
NPC AND USAID, TREATMENT PLANT SITE VISITS; THEN 3 DAYS -  
ROUNDTABLE DISCUSSIONS WITH USAID, NPC AND OTHER GOJ AGEN-  
CIES, AND PERTINENT CONSULTANTS; THEN 2 DAYS - PREPARATION  
OF OUTLINE OF RECOMMENDED GUIDELINES; 1 DAY - DISCUSSION OF  
OUTLINE; 3 DAYS - PREPARATION OF FINAL REPORT; 1 DAY -  
FINAL PRESENTATION TO NPC.
3. PROPOSED TERMS OF REFERENCE: (A) PURPOSE AND (B) BACK-  
GROUND: AS OUTLINED IN REFTELS, A AND B AND C; (C) SPE-  
CIFIC SCOPE OF WORK AS FOLLOWS:  
(A) THE CONSULTANT WILL REVIEW AND EVALUATE THE FEASIBILITY  
STUDIES AND DESIGNS FOR ALL WASTEWATER TREATMENT PLANTS AND  
PROCESSES UNDER CONSIDERATION BY THE GOJ IN A GENERAL WAY  
FOR APPROPRIATENESS TO JORDAN. IN ADDITION TO FIRST COST,  
SPECIAL ATTENTION WILL BE DEVOTED TO EASE AND COST OF OPER-  
ATION AND MAINTENANCE IN JORDAN. THESE WOULD INCLUDE  
IRBIO, AGABA, ZARQA-RUSEIFA AND THE PLANTS BEING RECOMMEND-  
ED IN THE FEASIBILITY STUDIES FOR GREATER AMMAN AND NINE  
SMALLER TOWNS;  
(B) HE WILL DEVELOP THE BASIS FOR GUIDELINES BY PARTICI-  
PATING IN A ROUND-TABLE CONFERENCE WITH JORDANIANS AND CON-  
SULTANTS SELECTED AND INVITED BY THE NPC, AND USAID PERSON-  
NEL.  
(C) HE WILL PREPARE AN OUTLINE OF THE GUIDELINES TO BE RE-  
COMMENDED FOR NPC REVIEW AND COMMENTS. THE CONSULTANT  
SHALL THEN PREPARE A FINAL REPORT CONTAINING RECOMMENDA-  
TIONS. THE RECOMMENDATIONS SHALL BE SUPPORTED BY OBSERVA-

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OTD 39

May 5, 1981

Evaluation of the Water Supply Systems  
Management Project for the National Water  
and Sewage Authority (NWSA) - Yemen

WASH assistance has been sought to evaluate the on-going Water Supply Systems Management Project in the Yemen Arab Republic. The project evaluation will include:

- A. Evaluation of progress towards attainment of project objectives and goals.
- B. Recommended revision of project objectives and goals as appropriate and recommended project modifications/reductions if appropriate.
- C. Identification and evaluation of problems of conditions which may impede progress towards those objectives.
- D. Assessment of steps that can be taken to overcome or minimize those problems.

The request is for a two-person team consisting of a senior water and sewage authority advisor with experience in water and sewage operations and administration in developing countries, and a training/personnel advisor with water and sewage experience. The team will, among other tasks, review all relevant projects, contracts and contractor documents; examine status, capabilities and effectiveness of NWSA's plans, policies, organization, procedures and operations; and make appropriate recommendations towards achievement of project objectives and its goal.

This OTD authorizes a maximum of 80 person days including one round trip for each consultant.

JEB/CIC  
5/15/81

Water and Sanitation for Health (WASH) Project  
Order of Technical Direction (OTD) No. 39

May 5, 1981

TO: Mr. James Arbuthnot, P.E.  
AID WASH Contract Project Director

FROM: Mr. Victor W.R. Wehman, Jr., P.E., R.S.  
AID WASH Project Manager

SUBJECT: Provision of Technical Assistance Under WASH Project Scope of  
Work to USAID/Yemen (Water Supply Systems Management 279-0028)

REFS: A) SANAA 2163, B) STATE 089706, C) SANAA 2555, D) PIO/T 279-0028-  
398118, E) STATE 102592, F), SANAA 1800, G) SANAA 1959

1. WASH contractor/subcontractor/consultants requested to provide two senior water supply specialists to assist USAID/Yemen in an independent outside field evaluation of subject project.

2. WASH contractor/subcontractor/consultants authorized to expend up to 40 persons days, each, for 2 individuals during the period May-July 1981 with a total level of effort authorized of 80 days.

The evaluation will be conducted by a team consisting of a senior water and sewerage authority advisor with experience in water and sewerage operations and administration, preferably in developing countries, and a training/personnel advisor also with water and sewerage experience. It is estimated that the above scope of work requires four weeks of senior water and sewerage authority specialist and two weeks of the training/personnel specialist in Yemen and one additional week each in the U.S.A. for preparation of the final evaluation reports for a total of eight persons weeks. The senior water and sewer authority specialist will be the team leader.

Up to a total of 60 person days of international per diem authorized.

Up to a total of 20 person days of domestic per diem authorized.

3. Consultant tasks include (subject to modification by mission with concurrence from AID WASH Project Manager) an evaluation of the subject project.

The project evaluation will include the following:

- A. Evaluation of progress towards attainment of project objectives and goal.
- B. Recommended revision of project objectives and goal as appropriate and recommended project modifications/reductions if appropriate.
- C. Identification and evaluation of problems of conditions which may impede progress towards those objectives.
- D. Assessment of steps that can be taken to overcome or minimize those problems.

4. In conducting the project evaluation, the consultant specifically shall include the following:

A. Review of all project documentation including the Project Paper, Project Grant Agreement, Project Implementation Letters, the Technical Management Services, Inc. (TMSI) contract and TMSI's periodic and monthly reports. The team will spend one to two days in AID/W prior to travel to Yemen to review documentaiton and hold background discussions with relevant project personnel.

B. To the extent possible, identification and quantification of project progress to date, e.g. person-months of technical assistance provided, person-months of training received, project equipment procured, and contract reports prepared by TMSI, etc.

C. Description of NWSA's functons and process and recommendation of improvements in its:

- (1) Ability to function effectively without outside technical assistance.
- (2) Ability to obtain and utilize data, to make and carry out decisions based on such data.
- (3) Ability to procure and maintain equipment.
- (4) Overall ability to plan, construct, manage and operate urban water and sewerage systems. Determine the project's role in these functions.

5. Assessment of project work plans and contractor scope of work to determine:

- a) Whether type and quantity of project inputs are appropriate and can reasonably achieve project objectives and goal.
- b) Whether sequence and priority of inputs are reasonable. Support any recommended modifications.

6. Assessment of NWSA's ability to recruit, train and retain personnel.

7. Review of NWSA's short and long-term staffing and training plans and evaluation of their reasonableness in terms of: a) Requirements for institutional development; b) existing financial, personnel and language limitations; and c) the mix among short and long-term, degree and non-degree, and U.S./third country and on-the-job training. Support any recommended modifications.

8. Assessment of the effectiveness of project training to date, for NWSA and for the participants.

9. Description of the extent to which technical assistance advisors are serving as surrogate NWSA staff rather than as advisors. Assessment how this effects project purposes. Recommendation of how current technical assistance might be made more effective.

10. Additional recommendations as might promote progress towards achievement of project objectives and goal, including supporting rationale.

11. The two-member team will make an oral presentation and submit an outlined report, with preliminary conclusions and recommendations to NWSA and USAID prior to departure from Yemen. Within 30 days of receipt of comments from NWSA and USAID, the contractor will submit five copies of its final report in English to NWSA and five copies to USAID.
12. One round trip authorized for each consultant from consultant's home base to WASH headquarters to Sanaa and return through Washington to home base: In-country travel authorized if not available through mission. Vehicle rental chauffeur hire is authorized as necessary under Scope of Work. Local hire of translators, sociologist, typist, draftsmen, and cost estimators is authorized to \$2,000.
13. Seven-day work-week is authorized if necessary and appropriate and certified as necessary by project team leader. (Note: Consultant will be paid only for days actually worked).
14. WASH contractor will bring consultants in for a 2-day briefing in WASH before they go to Yemen. Contractor to ensure that NE Bureau and DS/HEA briefings are provided for consultants.
15. WASH contractor will hold formal debriefing upon return from field.
16. Ensure AID/Yemen desk officer and NE/PD (P. Holmes) are fully coordinated with and informed throughout this effort.
17. Mission and desk officers should be contacted immediately and technical assistance initiated as soon as possible or convenient to missions
18. Appreciate your prompt attention to this matter. Good luck.

VWW/ja/5/5/81

## memorandum

DATE: April 22, 1981

PLY TO  
ATTN OF:

NE/PD/NENA: Paul Holmes *Paul*

SUBJECT: Yemen Project 279-0028 Water Supply Systems Management

TO: DS/HEA: Eugene McJunkin

In accordance with a request from USAID/Yemen, please prepare an Order of Technical Direction enabling the WASH project to provide the services of a senior water and sewerage authority consultant and of a training/personnel specialist to carry out a mid-project evaluation.

The required scope of work is more completely described in the attached PIO/T. For your information PDS funding is not available for this evaluation and no provision for evaluation was incorporated into the original project budget.

41141

PROJECT	DEPARTMENT OF STATE AGENCY FOR INTERNATIONAL DEVELOPMENT	Cooperating Country Yemen Arab Republic	Page 1 of 1 Pages
	PROJECT IMPLEMENTATION ORDER/TECHNICAL SERVICES	2. PID/F No. 279-0028 3-50116	Original or Amendment No.
		4. Project/Activity No. and Title 279-0028 Water Supply Systems Management	

DISTRIBUTION	6. Appropriation Symbol 72-1191021	8. Attachment Symbol and Number 948-50-279-00-69-13
	7. Obligation Status <input type="checkbox"/> Administrative Reservation <input checked="" type="checkbox"/> Implementing Document	9. Project Assistance Completion Date (MM, Day, Year) March 31, 1983
	9. Authorized Agent AID/W	10. This PID/F is in full conformance with PRO/FA Grant Agreement <u>8/31/77</u>
	11a. Type of Action and Governing AID Handbook <input type="checkbox"/> AID Contract (HS 14) <input type="checkbox"/> FASA/RSSA (HS 12) <input checked="" type="checkbox"/> AID Grant (HS 13) <input type="checkbox"/> Other	11b. Contract/Grant/FASA/RSSA Reference Number (if this is an Amendment) N/A
	12. Estimate Financing (A detailed budget in support of column (2) is attached as attachment no. _____)	

	(1) Previous Total	(2) Increase	(3) Decrease	(4) Total to Date
A. Dollar Maximum AID Financing		\$30,000		\$30,000
B. U.S. Owned Local Currency				

NE/NEHA  
3/23/80  
Christopher D. Lewis  
NE/NEHA

13. Mission References	14a. Instructions to Authorized Agents
1. Pro-Ag dated 8/31/1977  USAID letter to NWSA dated 1/14/81  3. State cable 032877	Negotiate a work order for the services of a senior water and sewerage authority consultant and a training/personnel specialist to conduct an independent, in-depth, outside field evaluation as described in Attachment No. 1.  It is desirable for the services to commence on or after May 1, 1981.
	14b. Address of Voucher Paying Office  USAID CONTROLLER, SANAA, Y.A.R.

15. Clearances—include typed name, office symbol, telephone number and date for all clearances.			
A. The project officer certifies that the specifications in the statement of work are technically adequate CD:BA11	Photo No. Date 7/28/81	B. The statement of work lies within the purview of the initiating and approved agency program: PROG:ELJohnson	Date 2/28/81
C. EEO:TBartotti	Date 3/2/81	D. Funds for the services requested are available CONT:ESBarford	
E. D/DIR:KB Beckman	Date 7 May 81		
16. For the cooperating country: This terms and conditions set forth herein are hereby agreed to		17. For the Agency for International Development	
Signature Date Title Director General, NWSA		Signature Date Title USAID, Director	



OTD #52

August 27, 1981

Participation in Workshop on Primary Health Care, 31 August to 3 September, 1981 in Sousse, Tunisia

WASH contractor is requested to provide consultant services to NE/TECH/HPN for the above workshop. The purpose of this workshop is to bring together key health representatives of Near East nations, A.I.D. and other institutions to share their experience with primary health care programs and to discuss the technical, institutional and operational aspects of primary health care programs and their component parts.

The WASH consultant will participate in the total workshop and will act as a leader and technical resource person for a working session which will address the role of water supply and sanitation in primary health care programs. Special attention will be focussed on the need for positive water supply and sanitation service models operating in all health facilities, especially in peri-urban and rural areas.

The consultant must have a sanitary, civil or public health engineering degree and/or an M.P.H. or M.S. She/he must have at least 5 years of professional experience including significant overseas experience. Arabic and/or French language ability is required.

For further information, contact Dr. R. Isely.

Up to ten (10) person days are authorized for preparation, participation and debriefing on the workshop for this OTD. Six (6) days of international travel and per diem plus miscellaneous expenses in Sousse for one person are also authorized.

JEB/CIC  
9/04/81

WATER AND SANITATION FOR HEALTH (WASH) PROJECT  
ORDER OF TECHNICAL DIRECTION NUMBER 52

August 27, 1981

MEMORANDUM

TO: Dennis Warner  
WASH Project Director (Acting)

FROM: S&T/HEA, John H. Austin *John H. Austin*

THRU: S&T/HEA Victor W.R. Wehman, Jr., P.E., R.S. *VWRW*  
AID WASH Project Manager *WWRW*

SUBJECT: Participation in Workshop on Primary Health Care, 31 August to  
3 September, 1981 in Sousse, Tunisia

REFS: 1. Memo from Barbara Turner to John Austin, 14 Aug. 1981  
2. Draft Agenda for Workshop on Primary Health Care: Intervention  
for Widespread Coverage; Aug. 31-3 Sept. 1981; Sousse, Tunisia

1. WASH contractor is requested to provide consultant services to NE/TECH/HPN (See Ref. 1) as outlined in Barbara Turner's memo.
2. Consultant is to be able to deliver a presentation and lead a workshop in French and/or Arabic of about 1 1/2 hours duration on the integration of water and sanitation concerns into primary health care programs. Consultant will also be available throughout the workshop to interact as a technical resource person during all sessions.
3. Authorization of up to 10 days is provided for preparation for the workshop, participation in the workshop and debriefing on return. This includes assistance of others in preparation of materials for the workshop.
4. Authorization is provided for 6 days of international travel and per diem plus miscellaneous expenses for the workshop in Sousse for one person.
5. Clarification on details of the workshop should be obtained from Sarita Henry of S&T/HEA. (Phone: 235-9649). She will provide liaison with APHA.
6. Discussions on content of material, and desired emphasis should be arranged with Joe Haratani and Julia Weissman before preparation of material.
7. A debriefing should be held within 30 days of returning from the workshop for NE/TECH/HPN and S&T/HEA.

WATER AND SANITATION FOR HEALTH (WASH) PROJECT  
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 52

AMENDMENT NUMBER 1

December 16, 1981

TO: Dr. Dennis Warner, Ph.D., P.E.  
WASH Contract Project Director

FROM: Victor W.R. Wehman, Jr., P.E., R.S. ( )  
AID WASH Project Manager  
S&T/HEA/CWSS

SUBJECT: OTD Number 52

1. Para. 3 and 4 of subject OTD #52 amended to read as follows:  
"WASH contractor authorized to expend up to 25 person days of effort over a 4 month period to accomplish this technical assistance effort. Seven days of international and/or domestic per diem is authorized for the accomplishment of this effort."
2. Nothing follows.

VWW:ja

August 14, 1981

MEMORANDUM

FOR: S&T/HEA, Mr. John Austin  
FROM: NE/TECH/HPN, Barbara Turner   
SUBJECT: Consultant Services for Workshop on Primary Health Care, Aug. 31 to Sep 3, 1981, Sousse, Tunisia

This is to request the services of an experienced Sanitary or Public Health Engineer to participate in the subject workshop. The purpose of this workshop is to bring together key health representatives of Near East nations, A.I.D. and other institutions to share their experience with primary health care programs and to discuss the technical, institutional and operational aspects of primary health care programs and their component parts.

The expert consultant will participate in the total workshop and will act as a leader and technical resource person for a working session (sub-workshop) which will address the role of water supply and sanitation in primary health care programs. Special attention will be focussed on the need for positive water supply and sanitation service models operating in all health facilities, especially in peri-urban and rural areas.

The expert must have a sanitary, civil or public health engineering degree and/or an M.P.H. or M.S. She/he must have at least 5 years of professional experience including significant overseas experience. Arabic and/or French language ability is highly desirable.

Due to the short lead-time provided, we request that you place high priority to this request. Please direct any questions to: Joseph Haratani, NE/TECH/HPN, Phone: 632-0215.



OTD #55

September 12, 1981

Analysis of Human Resources Development  
Needs for the Hashemite Kingdom of Jordan

The AID Mission in Amman, Jordan, requested two consultants to assist in developing a national water resources training program. Following intensive preparation in the U.S., the scope of work includes: reviewing the human resources development (HRD) situation in Jordan with AID and relevant agencies, visiting agencies and facilities, reviewing documentation and preparing a preliminary HRD plan, program and schedule. These will be discussed with Mission staff and government officials and modified appropriately before formal presentation to the concerned institutions. The consultants will prepare a final report and plan after this presentation and after receiving comments and recommendations from those involved.

For further information, contact Mr. Craig Hafner.

This OTD authorizes up to sixty (60) days of international travel and per diem for two (2) consultants, ten (10) person and up to five (5) days of U.S. travel, and up to \$3,000 for task related expenses in Jordan.

JEB/CIC  
9/10/81

WATER AND SANITATION FOR HEALTH (WASH) PROJECT  
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 55

SEPTEMBER 12, 1981

TO: Dennis Warner, Ph.D.  
WASH Project Director (Acting)

FROM: S&T/HEA, John H. Austin 

THRU: S&T/HEA, Victor W.R. Wehman, Jr., P.E., R.S.  
AID WASH Project Manager

SUBJECT: Analysis of human resources development needs for the Hashemite Kingdom of Jordan

- REFS: 1. Memo Andrea Mohn to Vic Wehman, 30 June 1981.  
2. Excerpt: Training recommendations, water resources, Jordan, Francis Montanari, NE/PD/ENGR, 2 pages.  
3. Excerpt: Scope of work, water resources, Jordan, 1 page.  
4. AMMAN 04429.  
5. AMMAN 05540.  
6. WASHAID 084.  
7. Human Resource Development Plan for Water Resources Programs in Jordan.  
8. AMMAN 06110  
9. AMMAN 06265

1. The WASH contractor is requested to provide training assistance to USAID/AMMAN, Jordan per Scope of Work (REFS. 1 - 6).
2. The WASH contractor authorized up to 60 days of international travel and per diem for two consultants. This includes two round trips from consultants home base, through Washington, D.C. to Amman and return through Washington, D.C. on return home.
3. Local travel is authorized in Jordan to make any trips necessary to conduct the study. Each trip should be cleared with AID.
4. The WASH contractor authorized to make expenditures for secretarial assistance, interpreters, field assistance, local transportation, reproduction of materials and other miscellaneous expenses up to \$3,000.
5. Authorization is given for up to 10 person days before departure for Jordan to prepare the following information for use during the task:
  - a. Refinement of the human resource development plan for water resources programs in Jordan (Ref. 7).
  - b. Compilation of data available in U.S. that pertains to points raised in a. above.
  - c. An action plan, based on the proposed scope of work and any more recent information, that lays out the work schedule for the duration of the assignment in Jordan, keeping in mind: GOJ works 8:00 - 2:00 Saturday thru Thursday; AID/Amman works 8:00-4:30 Sun thru Thursday.

5. Domestic travel and per diem of up to 5 days is authorized, if needed, to meet with Jordanian, other Arabic countries or international agency officials to collect information.

6. A briefing should be held prior to the trip and a debriefing after the trip with NE/PD and S&T/HEA personnel.

7. Near East bureau and mission personnel must be kept appraised of arrival and departure times. These include Andrea Mohn, NE/PD/SJILO (632-1123), Francis Montanari, NE/PD/ENGR (632-7327) and James Cassanos, sanitary engineer, AID Mission, Amman. All messages from the U.S. are to be channelled through NE/PD/SJILO in AID/W.

8. Draft reports should be left with the mission prior to departure as well as given to NE/PD and S&T/HEA on return. This report should be finalized within one month after receipt of comments from the mission, Jordanian government and AID.

TRAINING

As expressed in a paper prepared by Boulos Kefaya of the NPC, a national training program for operation and maintenance should be instituted to assure effective and continuous operation of water and wastewater facilities in Jordan. The objective of the training effort is to develop the capacity to meet manpower development needs of Jordan in the water resources area. In any case, the actual establishment of this capability will probably be accomplished in an incremental fashion.

There are two dimensions of the need which are apparent at this juncture. The immediate need is to prepare adequate operation of the facilities just completed or nearing completion (Salt and Jarash) and these in the design phase and soon to be constructed. Thus, the immediate need has two parts. The longer range needs are for a national training capability to develop the manpower Jordan requires to manage its water resources.

As everyone is aware, the full gamut of training capability from unskilled laborer to supervisors, managers and administrators is needed to meet the manpower development requirements. Today there are three wastewater treatment plants, Ain Ghazal and Salt and King Hussein Medical Center, actually operating. With the projects nearing completion (Jarash) and construction (Zarqa-Ruseifa, Irbid, Greater Amman Metropolitan Area, Aqaba and others), the need for qualified personnel will more than skyrocket. And manpower development is the key to success of the projects. This is the immediate need: the WSC has an acute need of developing a capability to satisfactorily operate Salt and Jerash plants. Salt is actually in operation and Jerash is expected in about 4 months. This can and should be accommodated on an ad hoc basis.

For the short range objective, the individual project reports will provide a listing of the basic needs and some method to meet these. Obviously, they will vary and will be quite different. They should be evaluated and quite possibly combined into a single package as the first phase of national training. Funds from each project might pay proportionally for the training.

The longer range needs are for a national training capability to develop the manpower Jordan requires to manage its water resources. The identification and selection of a small cadre of key personnel to be trained abroad who would return to staff critical positions in the operation and management of water resource facilities, is a necessary first step which can be quickly implemented.

Memorandum

DATE: June 30, 1981

REPLY TO ATTN OF: Andrea Mohn <sup>Am</sup> NE/PD/SJILO

SUBJECT: Jordan-Water Resources Manpower Training Program

TO: Vic Wehman DS/HEA (Room 709E, SA-18)

As we discussed, enclosed is a 4 - 6 weeks scope of work for a consultant to help develop a water resources manpower training program for Jordan. Let me know whether this task can be financed under WASH. (My telephone is 632-1123). If so, I have included information for calling Dr. Walter Pinto Costa in Brazil and what sketchy biodata we have at this time for him as USAID/Jordan has asked specifically to ascertain his availability for this assignment (See attached Amman Cable No. 04429).

If WASH can finance this consultant service, in addition to advising me as per above, I need your suggestions with biodata on any other interested candidates that you feel are of similar caliber to Pinto Costa.

The original recommendation was a team of two with John Austin DS/HEA as the other member. Official cable approval of the team concept has not yet been received. Call me as you get more information. I'll do the same. Thanks.

Attachments:

Received DS/HEA (WEHMAN) 7/2/81  
Passed to WASH 7/2/81



Buy U.S. Savings Bonds Regularly on the Payroll Savings Plan

OPTIONAL FORM NO. 10  
(REV. 7-78)  
GSA FPMR (41 CFR) 101-11.6  
5010-112

11-

( Scope of Work )  
water resources / Jordan

- (1) Review all available reports, data and other pertinent information, including NPC survey, and prepare for trip - 2 days.
- (2) Travel to Amman, receive briefing from USAID/J and NPC to more precisely define objectives of Jordan regarding manpower development in water resources. Review training plans and needs for various projects, agencies, and on national level, summarize total needs and timing. Prepare and discuss training objectives with USAID/J and NPC - 2 days.
- (3) Visit appropriate institutions and agencies, scheduled by NPC, to confer with appropriate personnel and inspect facilities and equipment which might be used for training both short- and long-term - 5 days.
- (4) Prepare preliminary manpower development plan and organization of training and recommendations on how training should be carried out - 3 days.
- (5) In consultation with USAID/J and the NPC, finalize water sector master training plan and strategy, prepare tentative schedule of training activities and preliminary budget for a 5-year period, including development of an institutional base for responsibility and management of the proposed training program. This may include recommendations for the development of a National Water Resources Training Center. The plan will include an overall strategy and a recommendation of the institution deemed most appropriate. First emphasis and detailed analyses and planning shall be devoted to immediate needs - 4 days.
- (6) Present finalized plan and budget to NPC and educational and training institutions and agencies which may have resources and which may be involved, both as contributors and recipients of training - 2 days.
- (7) Receive, consider and utilize, where appropriate, comments and recommendation from agencies, institutions and individuals involved in (6). Prepare final report within four weeks after receiving comments from Mission USAID/J (in country of origin of consultants) - 3 days.

An effort by the German Academic Exchange will provide a teaching professor and equipment to start the introduction of a sanitary engineering program at the University of Jordan. U.S. efforts in manpower development have been singularly successful in Latin America and we should take advantage of this experience for Jordan. While the German effort will provide a good scientific contribution, it should be carefully evaluated and designed into the overall national training program. Building on the base of previous actions such as the Hazen Report, the U.S. is prepared to assist the University of Jordan in curriculum development related to water resource development and management.

It is conceivable, though somewhat doubtful, that the University will produce junior engineers in time to be utilized in meeting some of the immediate need.

Jordan is by no means barren of resources which can be mobilized and applied to this important task. Jordan University, Yarmouk University, the AWSA training efforts, the Royal Scientific Society and the agencies themselves are among sources of talent and experience.

The training responsibility is crucial to the success of the capital investments being made. It is much too serious an activity to be undertaken without careful design which includes consideration of local resources. Therefore the use of highly qualified professionals with actual overseas experience with training programs is indicated.

#### Recommendation

(1) Obtain short term services of Dr. John Austin DS/HEA, or acceptable candidate from WASH project, if deemed necessary to develop a training course designed to immediately meet the Salt and Jerash needs of WSC as the first specific response to Jordan's Water Resources Manpower Development needs. The consultant should work with Mr. Sa'id Beano and the WSC under approval of NPC. (Approx 1 week field time and 3 days AID/W).

(2) Retain services of professionals experienced in the field of training and manpower development to perform following range of services in collaboration with NPC and other agencies. It is recommended that a team composed of professionals such as Dr. Daniel Okun, University of North Carolina (or as an alternate, or John Austin DS/HEA), and Walter Pinto Costa, ABES, Brazil carry out following tasks:

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PAGE 01 AMMAN 04429 110652Z 3244 025680 AID0893  
ACTION AID-35

ACTION OFFICE NEPD-04  
INFO NETC-04 NEJL-03 PPCE-01 PDPR-01 PPPB-03 PPEA-01 ENGR-02  
CH8-01 RELO-01 MAST-01 /022 A4 711

INFO OCT-01 INR-10 NEA-07 /053 W  
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FM AMEMBASSY AMMAN  
TO SECSTATE WASHDC 1831

UNCLAS AMMAN 04429

AIRAC

E. O. 12065: N/A  
SUBJECT: WATER AND WASTEWATER PROJECTS

1. GOJ HAS REVIEWED MONTANARI'S RECOMMENDATIONS ON A NATIONAL TRAINING PROGRAM TO MEET JORDAN'S WATER RESOURCES MANPOWER NEEDS. GOJ HAS REQUESTED ASSISTANCE OF ONE PERSON FOR 4 TO 6 WEEKS TO DEVELOP SUCH A TRAINING PROGRAM, SUGGESTING THAT THE EXPERT BE FINANCED UNDER THE WASH PROJECT.
2. PLEASE INDICATE WHETHER THIS REQUIREMENT CAN BE FINANCED UNDER THE WASH PROJECT, AND FORWARD BIO-DATA OF ALL INTERESTED CANDIDATES, PARTICULARLY THAT OF DR. WALTER PINTO COSTA, TO USAID FOR DISCUSSION WITH THE GOJ. PLEASE ADVISE.
3. FYI BECAUSE OF GOJ PERSONNEL VACATION SCHEDULES, USAID FEELS EXPERT SHOULD BEGIN WORK IN SEPTEMBER END FYI. ZWEIFEL

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PAGE 01 AMMAN 05540 281409Z

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ACTION AID-35

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ACTION OFFICE NEPD-04

INFO NEDP-02 NETC-04 NEJL-03 NEEM-01 AAST-01 CMGT-02 CTR-02

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FM AMEMBASSY AMMAN

TO SECRETARY WASHDC 2431

UNCLAS AMMAN 05540

AIDAC

E.O. 12065: N/A

SUBJECT: WATER AND WASTEWATER MANPOWER TRAINING

REF: STATE 192666

WE CONCUR WITH MONTANARI ABOUT ENHANCED VALUE OF  
TEAM OVER SINGLE CONSULTANT AND SHALL DISCUSS WITH  
NATIONAL PLANNING COUNCIL THE POSSIBILITY OF HAVING  
TWO CONSULTANTS. WE HAVE FORMALLY SUBMITTED BIO  
DATA OF PINTA COSTA AND AUSTIN TO NPC AND SHALL  
ADVISE NPC THAT BIO DATA OF ONE ADDITIONAL CANDIDATE  
IS EXPECTED. REACTION TO AUSTIN HAS BEEN FAVORABLE.  
WE SHALL ADVISE AS SOON FINAL GOJ DECISION IS  
REACHED.  
ZWEIFEL

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Western Union International, Inc

OUR TELEX 084

TO: AID/AMMAN  
FROM: WASH PROJECT  
REF: CONSULTANT REQUEST

1) WE ARE PROCEEDING WITH ARRANGEMENTS FOR AUSTIN AND PINTO COSTA TO ARRIVE IN JORDAN ON OR ABOUT OCT. 8. AUSTIN THE TEAM LEADER IS ONLY AVAILABLE FOR 2 1/2 WEEKS.

2) WE HAVE A NUMBER OF QUESTIONS RE: AVAILABLE MATERIALS AND INFO WHICH AUSTIN HAS ASKED TO HAVE PRIOR TO THEIR ARRIVAL. ALSO GIVEN THE DRAFT SCOPE OF WORK AND THE TIME AVAILABILITY OF CONSULTANTS WE RECOMMEND A THIRD CONSULTANT AS PART OF THE TEAM. HE IS DR. KENNETH WOOLF. HE HOLDS A M.S. CIVIL ENG. AND ED.D. IN EDUCATION, IS THE DIRECTOR OF TRAINING AT CDM'S INT'L DIVISION AND HAS CONSULTED IN EGYPT ON TRAINING NEEDS FOR CAIRO SEWERAGE SYSTEM AND IN TANZANIA ON HUMAN RESOURCE DEVELOPMENT OF ENVIRONMENTAL SANITATION PERSONNEL.

3) WE WILL CALL YOU MONDAY AUG. 24 BY 8:30 A.M. EST TO DISCUSS.

REGARDS

21510 USEMB JO

WASHAID 64552  
MMMMM  
003.5 MIN

Telex

International, Inc.

International Telex

Western

WATER AND SANITATION FOR HEALTH (WASH) PROJECT  
ORDER OF TECHNICAL DIRECTION #55  
Amendment #2  
February 11, 1982

TO: Dennis Warner, Ph.D., P.E.  
WASH Contract Project Director

FROM: Victor W.R. Wehman, Jr., P.E., R.S.  
A.I.D. WASH Project Manager  
A.I.D./S&T/HEA/WS

SUBJECT: Provision of Technical Assistance Under WASH Project Scope of Work  
to U.S. A.I.D./Jordan

REF: A) OTD #55, dated September 12, 1981  
B) Amendment Number 1 to OTD #55, dated September 21, 1981

1. Paragraph 2 of existing OTD #55 is cancelled. New paragraph 2 of OTD #55 is to read as follows:

"WASH contractor/subcontractor/consultants authorized to expend up to ninety (90) person days of effort over a six (6) month period to accomplish this technical assistance effort. The WASH contractor authorized up to sixty-five (65) person days of international/domestic travel and per diem for two (2) consultants. This includes two (2) round trips from consultants' home base, through Washington, D.C. to Amman and return through Washington, D.C. to consultants' home base."

2. Introduction of paragraph 5, page 1 of OTD #55 is cancelled. Amendment #1 to OTD #55 is cancelled. New introduction to paragraph 5 of OTD #55 is to read as follows:

"Authorization is given for up to eighteen (18) person days of effort before departure of Jordan to prepare the following information for use during the technical assistance effort:"

3. Paragraph 5, page 2 of OTD #55 now renumbered by Mr. Wehman to read "paragraph 6" due to numbering error on original OTD #55. Old paragraph 6 now new paragraph 7; old paragraph 7 now new paragraph 8; old paragraph 8 now new paragraph 9, page 2 of reference A.

4. New paragraph 6, page 2 of OTD #55 is cancelled. New paragraph 6 wording on page 2 of OTD #55 is now to read as follows:

"Contractor is authorized up to four (4) domestic travel round trips from Boston to WASH CIC in Washington, D.C. area and return for purposes of briefing are rewriting OTD #55 final report and coordinating report with A.I.D. officials in Washington. Contractors/consultants should be working under the direct guidance,

supervision and direction of S&T/HEA Project Officer and Team Leader (Dr. John Austin). Contractor authorized up to ten (10) person days of domestic per diem to accomplish briefing, debriefing, rewriting of final report and staffing of final report."

5. Nothing follows.



OTD 59

October 5, 1981

Technical Assistance for Water Conservation  
Seminar - Jordan

WASH contractor is requested to support USAID/Jordan in planning and conducting a day and a half interactive water conservation seminar for Jordan's water supply institutions. The scope of work for this task includes: consultant preparation in the U.S.; discussions with relevant officials in Jordan; orientation visits to water supply/conservation areas in Jordan; planning and implementing the seminar; and preparing a report on the seminar and recommendations to improve water conservation practices in Jordan.

For further information, contact Dr. D. Warner.

Up to sixty (60) person days over a three (3) month period are authorized for this OTD, including fifty-five (55) person days of international and/or domestic per diem. Seven day work weeks, local travel expenses, and seminar documentation preparation expenses not to exceed \$3,000 are also authorized.

JEB/CIC  
10/21/81

MEMORANDUM

October 5, 1981

WATER AND SANITATION FOR HEALTH (WASH) PROJECT  
ORDER OF TECHNICAL DIRECTION NUMBER 59

TO: Dr. Dennis Warner, Ph.D., P.E.  
WASH Project Director

FROM: Mr. Victor W.R. Wehman, Jr., P.E., R.S.  
AID WASH Project Manager

SUBJECT: Provision of Technical Assistance Under WASH Project Scope of  
Work for USAID/Jordan - Water Conservation Seminar

REFS: A) Mohn/Wehman memo dated 2 Oct. 81  
B) AMMAN 7104  
C) STATE 243691  
D) Mohn/Wehman memo dated 9/4/81  
E) AMMAN 6076  
F) Draft cable  
G) STATE 215807  
H) AMMAN 200949  
I) AMMAN 05411  
J) AMMAN 00630  
K) AMMAN 06475  
L) Biodata - Ogilvie

1. WASH contractor requested to provide technical assistance to USAID/Jordan as per references A, B, and C. Scope of work is contained in Ref. C using two (2) people instead of one (1).
2. WASH contractor/sub-contractor/consultants authorized to expend up to 60 person days effort over a 3 month period to accomplish this technical assistance effort.
3. Contractor to develop draft and final reports according to Ref. C, para. E. and G.
4. Contractor to coordinate directly with USAID/Jordan representative. Ensure that this OTD is provided to and discussed with NE/PD (Ms. A. Mohn), NE/TECH/HNP (J. Haratani), and Jordan desk officer. Above should be notified of all ETA's and subject matter changes of work effort. See Ref. A, last para. for communication instructions.

5. Fifty-five (55) person days of international and/or domestic per diem is authorized.

6. Two international round trips (one each per person) are authorized from the consultants' home base to Washington, D.C., to Jordan, to return through Washington to their home bases.

7. Local travel in Jordan to be provided for by USAID as per Ref. C., para. 4, first sentence. If this should not turn out to be the case, contractor is authorized to obtain sufficient local ground transportation, as necessary, to meet mission requirements, i.e., taxis, motorcycles, cars, or animal rentals.

8. Seven day work week is authorized, if necessary and proper, to perform technical assistance.

9. Miscellaneous expenses NTE \$800 are authorized.

10. Local graphics, printing and material costs for the workshop are authorized NTE \$3,000.

11. Mission and consultants should be contacted immediately and technical assistance initiated as soon a possible or convenient to USAID/Jordan. WASH C.I.C. should ensure that consultants are properly backed up during period of technical assistance.

12. Appreciate your prompt attention to this matter. Good luck.

October 2, 1981

MEMORANDUM

TO: DS/HEA, Victor Wehman  
THRU: NE/PD/SJILO, Davy McCall *DMMC*  
FROM: NE/PD/SJILO, Andrea Mohr *AM*  
SUBJECT: Jordan - Water Conservation Seminar

NE/PD/SJILO requests that WASH thru your office be authorized to undertake the scope of work as described in the attached cables, e.g. State 243691 and Amman 07104.

We are awaiting from WASH, for review and approval, the name and biodata of their candidate experienced in recent technological applications in municipal water conservation that will be accompanying James Ogilvie.

In keeping with our understanding to channel all communications with USAID/Jordan through NE/PD, please advise me of the ETA of Ogilvie and second consultant when their flight numbers and Amman arrival times are firm. I will subsequently advise the Mission and request reservations for them at the Sheperd Hotel.

PAGE 01 AMMAN 07104 281519Z 064 089394 AID0778  
ACTION AID-35

ACTION OFFICE NEPD-04  
INFO NETC-04 NEJL-03 RELO-01 MAST-01 /013 A4 728  
INFO OCT-01 /036 W -----214366 281519Z /46

P 281513Z SEP 81  
FM AMEMBASSY AMMAN  
TO SECSTATE WASHDC PRIORITY 3329

UNCLAS AMMAN 07104

AIDAC

FOR NE/PD

E. O. 12065: N/A  
SUBJECT: WATER CONSERVATION SEMINAR - OGILVIE/WASH

REF: STATE 243691

1. NPC HAS REVIEWED PROPOSED SCHEDULE AND SCOPE OF WORK IN REFTEL AND CONCURS.
2. IN RESPONSE TO REFTEL PARAS 5, 6 AND 7, NPC DESIRES SEMINAR TO BE MANAGEMENT/POLICY AND TECHNOLOGY ORIENTED. PARTICIPANTS WILL INCLUDE MOSTLY ENGINEERS AND SENIOR MANAGEMENT PERSONNEL AND POSSIBLY SOME FIELD OPERATIONS PERSONNEL, AND SEMINAR FORMAT TO BE INTERACTIVE WORKSHOP.
3. BECAUSE OF UPCOMING JORDANIAN HOLIDAYS, NPC WOULD LIKE OGILVIE AND SECOND CONSULTANT (WITH TECHNOLOGICAL APPLICATIONS EXPERIENCE) TO SCHEDULE TRIP SO THAT THEY CAN BEGIN WORK IN AMMAN ON OCTOBER 13. NPC WOULD LIKE SEMINAR TO BEGIN OCT. 24.
4. PLEASE CABLE ETA AND HOTEL PREFERENCE.  
VIETS

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23

ORIGIN OFFICE NEPD-02  
INFO NETC-04 NEPL-03 NEEM-01 AAST-01 SALL-01 ENGR-02 RELO-01  
7P-00 /017 AQ

INFO OCT-00 NEA-07 CES-09 /051 R

DRAFTED BY AID/NE/PO/SJLO:AMNH:MM  
APPROVED BY AIG/NE/PO/SJLO:DMCCALL  
AID/NE/PO/ENGR:JHFERON (DRAFT)  
WASH:DWARNER (DRAFT)

-----133775 121439Z /43

P 120546Z SEP 81  
FM SECSTATE WASHDC  
TO AMEMBASSY AMMAN PRIORITY

UNCLAS STATE 242591

AIDAC

E.O. 12065: N/A

TAGS:

SUBJECT: WATER CONSERVATION SEMINAR - OGILVIE/WASH

REF: (A) AMMAN 6076, (B) AMMAN 5411

1. OGILVIE AGREES TO ACCEPT ASSIGNMENT UNDER WASH.  
REQUEST AND FOLLOWING DRAFT SCOPE OF WORK SENT TO WASH BY  
NE/PO.

2. PROPOSED SCHEDULE: (ACTUAL APPOINTMENTS WILL GOVERN  
TIME AND ORDER). APPROXIMATELY 21 DAYS TOTAL.

2 DAYS - WASH., D.C. - CONSULTATIONS AID, WASH, WSSC.

2 DAYS - TRAVEL

3 DAYS - CONSULTATION WITH USAID, NPC, OTHER AGENCIES.

1 DAY - PREPARE OUTLINE OF SEMINAR.

3 DAYS - FIELD TRIPS TO JORDAN VALLEY, ACABA, SMALLER  
TOWNS AND VILLAGES, PERHAPS ZARQA-RUSEIFA.

1 DAY - WEEK - END.

1 DAY - FINALIZE SEMINAR AGENDA WITH NPC.

2 DAYS - 1-1/2 DAY SEMINAR (ROUNDTABLE)

1 DAY - CONF. AWSA IF NEEDED.

2 DAYS - PREPARE DRAFT FINAL REPORT, CONF. WITH USAID/NPC.

2 DAYS - TRAVEL

1 DAY - WASH., D.C. DEBRIEFING WASH, AID.

3. PURPOSE OF CONSULTATION:

(A) DEVELOP AN AGENDA APPROPRIATE FOR THE CONDITIONS OF  
JORDAN AND ITS WATER SUPPLY INSTITUTIONS, FOR A 1-1/2 DAY  
SEMINAR ON WATER CONSERVATION PRACTICES.

(B) HOLD SUCH A SEMINARY WITH THE RESPONSIBLE AND  
INVOLVED AGENCIES AND INDIVIDUALS AND,

(C) AS A RESULT OF THE SEMINAR, CONSULTATIONS WITH THE  
APPROPRIATE OFFICIALS AND USAID STAFF PREPARE A  
DRAFT REPORT CONTAINING RECOMMENDATIONS AND GENERAL PLAN  
TO ACHIEVE WATER CONSERVATION IN JORDAN BOTH IN THE SERVICE  
AREAS OF THE WATER SUPPLY ENTITIES AND IN THE PUBLIC AREAS  
IN GENERAL.

4. SCOPE OF WORK:

FIELD SUPPORT AND TRANSPORTATION IN JORDAN WILL BE  
FURNISHED BY USAID.

(A) PRIOR TO TRAVEL TO JORDAN, CONSULTANT(S) WILL STOP  
IN WASHINGTON, D.C. FOR CONSULTATION WITH NE/PO AND  
AID/W, WASH, AND WASHINGTON SUBURBAN SANITARY COMMISSION  
TO REVIEW BACKGROUND INFORMATION ON JORDAN AND FINALIZE  
CONTRACT REQUIREMENTS.

(B) UPON ARRIVAL IN JORDAN, CONSULTANT(S) WILL CONFER  
WITH USAID, NPC, AWSA, WSC, JVA, OTHERS AS APPROPRIATE,  
TO BROADEN FAMILIARIZATION WITH SITUATION IN JORDAN AND  
TO FURTHER REFINE THE OBJECTIVES/OUTCOME DESIRED.

(C) MAKE FIELD VISITS TO SITES REPRESENTATIVE OF A RANGE  
OF POPULATION CONCENTRATIONS TO FURNISH FIRST HAND  
EXPERIENCE WITH WATER CONSERVATION PRACTICES AND  
POSSIBILITIES IN JORDAN.

(D) CARRY OUT A 1-1/2 DAY SEMINAR WITH APPROPRIATE  
OFFICIALS AND OTHER PERSONNEL. SECRETARIAL AND OTHER  
NECESSARY SUPPORT WILL BE PROVIDED BY USAID AND NPC.

(E) USING THE INFORMATION DEVELOPED AT THE SEMINAR, AND  
SUCH ADDITIONAL CONSULTATION AND CONFERENCE AS MAY BE  
NECESSARY, CONSULTANT(S) WILL PREPARE A DRAFT REPORT  
WITH RECOMMENDATIONS FOR A PLAN OF ACTION TO PROMOTE  
GOOD WATER CONSERVATION PRACTICES IN JORDAN. THE DRAFT  
REPORT WILL BE DISCUSSED WITH USAID AND NPC PRIOR TO  
CONSULTANT(S) DEPARTURE FROM JORDAN. A COPY OF THE DRAFT  
WILL BE LEFT WITH USAID. SUPPORT AND SECRETARIAL SERVICES  
WILL BE FURNISHED BY USAID.

(F) UPON COMPLETION OF THE DESCRIBED FIELD ACTIVITIES  
IN JORDAN CONSULTANT(S) WILL SPEND UP TO TWO (2) DAYS IN  
DEBRIEFING AND ADMINISTRATIVE ACTIVITIES WITH WASH AND  
NE/PO IN WASHINGTON.

(G) FINAL REPORT WILL BE SUBMITTED TO NE/PO WITHIN 30  
DAYS OF RETURN OF CONSULTANT(S) TO BASE. UP TO 5 ADDITION-  
AL WORK DAYS WILL BE ALLOWED FOR THIS AND SUCH OTHER  
STATESIDE ACTIVITY AS IS DEEMED NECESSARY BY NE/PO.

5. PLEASE CLARIFY WHETHER EMPHASIS OF SEMINAR IS  
MANAGEMENT/POLICY OR TECHNOLOGY/HARDWARE OR BOTH. IF  
BOTH, WASH SUGGESTS A SECOND CONSULTANT WITH EXPERIENCE  
IN RECENT TECHNOLOGICAL APPLICATIONS IN MUNICIPAL WATER  
CONSERVATION TO COMPLEMENT OGILVIE.

6. WILL PARTICIPANTS BE ENGINEERS, SENIOR MANAGEMENT  
OR FIELD OPERATIONS PERSONNEL?

7. IS FORMAT OF SEMINAR CONCEIVED AS INTERACTIVE WORK-  
SHOP OR STANDARD LECTURE? CLARK

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OTD 61

October 5, 1981

Technical Assistance in Operation and Maintenance of Water Pumping Systems - Morocco

WASH contractor is requested to provide training for fifteen (15) Peace Corps volunteers in Morocco in the installation, maintenance and repair of selected water pumping systems. The scope of work includes: collection and preparation of training materials; briefings with Peace Corps staff in the U.S. and Morocco; detailed planning of a four week training course; conducting training; and preparation of a final report. There will be a follow-up visit for review of training results, and preparation of additional recommendations no later than five months after initial training was completed.

For further information, contact Mr. D. Donaldson.

Up to sixty-five (65) person days over a six (6) month period, sixty (60) person days of international and/or domestic per diem, and two (2) international air trips are authorized for this OTD. Seven day work week, local travel, training material preparation, translation costs, etc., not to exceed \$4,000 are also authorized.

JEB/CIC  
10/21/81

45

MEMORANDUM

October 5, 1981

WATER AND SANITATION FOR HEALTH (WASH) PROJECT  
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 5761

TO: Dr. Dennis Warner, Ph.D., P.E.  
WASH Project Director

FROM: Victor W.R. Wehman, Jr., P.E., R.S. *VWR*  
AID WASH Project Manager

SUBJECT: Provision of Technical Assistance Under WASH Project Scope of Work  
for USAID/Morocco

REFS: A) RABAT 6664, 16 Sept. 81  
B) NE/TECH/HNP Memo 22 Sept. 81,

1. WASH contractor requested to provide technical assistance to USAID/Morocco as per para. 2 of Ref. A Scope of Work.
2. WASH contractor/sub-contractor/consultants authorized to expend up to 65 person days effort over a six (6) month period to accomplish this technical assistance effort.
3. Contractor to provide draft final report to mission on all elements of scope of work before leaving mission, including lesson plans, training curriculum, detailed training outline, set of lecture notes, handouts, texts, and other training material, etc. Final report due according to contract.
4. Consultant to brief with Peace Corps (PC) and NE/TECH, NE/PD, USAID indepth before going to Morocco. Very likely that considerable preparation will be necessary in obtaining technical information on specific pumping brands and models anticipated to be used in PC/UNICEF/USAID project.
5. Contractor to coordinate directly with USAID/Morocco and/or PC/Morocco and with Mr. Gary Hartz at USPHS/IHS as well as Mr. Jim Bell/OPIC/PC/WASH (see para. 4 Ref. A).
6. Ensure this OTD is provided to and discussed with NE/TECH/HNP officer (B. Turner), NE/PD/Morocco officer, NE/PD/ENGR, and Morocco desk officer in an expeditious manner. Keep them informed of progress, ETA's, etc.
7. Sixty (60) person days of international and/or domestic per diem is hereby authorized.
8. Two international airfares from consultant's home base through Washington, D.C. to Morocco and return are authorized.
9. Local travel within Morocco for training purposes authorized as necessary.

10. Contractor authorized to rent vehicle for official travel outside of Rabat if PC and/or USAID vehicles unavailable to support efforts to degree necessary to accomplish mission.

11. Contractor should not initiate international travel until assured by PC that the PCVs will be available in Morocco for training and subsequent assignment to provincial potable water projects.

12. Contractor authorized up to \$4,000 for printing, graphics, translation, training materials development, secretarial services, etc. in Morocco. Additional funds must be requested if needed and justified to WASH project manager.

13. Seven-day work week authorized if indicated proper by WASH consultant and certified by PC Project Officer.

14. Miscellaneous expenses authorized, NTE \$1,200.

15. Contractor should contact mission immediately and technical assistance be initiated as soon as possible (see Ref. A) or convenient to USAID/PC/Morocco. Ensure WASH consultant is technically and logistically backstopped.

16. Appreciate your prompt attention to this matter. Good luck.

VWV:ja

September 22, 1981

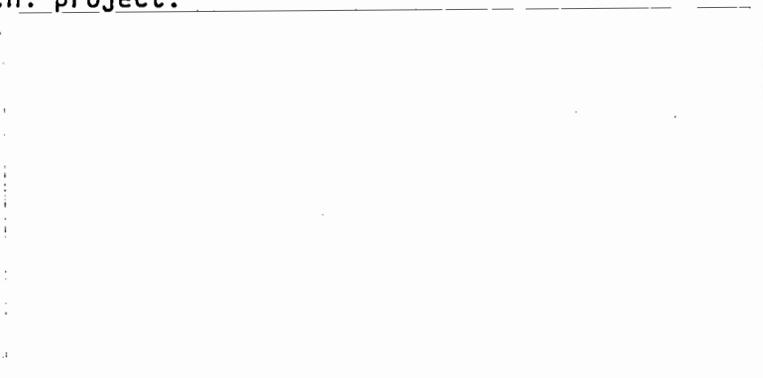
MEMORANDUM

TO : S & T/HEA, Mr. Vic Wehman  
FROM : NE/TECH/HPN, Barbara Turner   
SUBJECT: Request for Technical Assistance from the W.A.S.H. Project

USAID/Rabat has requested the assistance of a specialist in water pumping systems. This individual would be needed for approximately six weeks beginning o/a January 11, 1982, to train Peace Corps volunteers in the installation, maintenance, and repair of equipment as outlined in the attached cable (Rabat 6664). A follow-up visit and refresher session is planned for six to nine months after the initial training. It would be preferable to have the same consultant available for the refresher course.

We would appreciate it if you would identify a consultant for this activity who would be funded under the W.A.S.H. project.

Attachment: Cable - Rabat 6664



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COPY

Department of State

TELEGRAM

PCOE 01 RABAT 06064 171137Z 1969 031501 AID2021  
ACTION AID-35

06064 171137Z 1969 031501 AID21

IN KNOWLEDGE LEFT BY THE INITIAL TRAINING SESSION, PC MOROCCO  
WILL HAVE TWO HIGHLY QUALIFIED CIVIL ENGINEERS AS TRAINING  
COORDINATORS, BOTH WITH PEACE CORPS EXPERIENCE IN MOROCCO.

ACTION OFFICE NETC-23  
INFO NEHA-03 AACT-01 STHE-01 ENGR-02 RELO-01 MAST-01  
/013 A4 717

4. PC TRAINEES WILL BEGIN U.S. TRAINING WITH INDIAN HEALTH  
SERVICE (IHS). W.A.S.H. SHOULD CONTACT GARY HARTZ AT  
IHS FOR MORE DETAILED INFORMATION OF THIS 5 WEEK TRAINING PERIOD.  
HARTZ IS PLANNING A TDY TO MOROCCO BEGINNING SEPT. 16 TO  
GATHER GENERAL INFO ON IN-COUNTRY WATER SYSTEM EQUIPMENT  
AND METHODS USED BY MOI/UNICEF. WILLIAM DANT, PC/M DECA  
OFFICER AT PC/WASH (TEL. NO. 254-3793) HAS FURTHER INFO IF  
NEEDED AS DOES JAMES BELL OPTC/PC/WASH (TEL. NO. 254-3390),  
SEBASTIAN

INFO OCT-01 NEA-07 OES-09 /052 W  
-----267014 171345Z 741

R 161640Z SEP 61  
FM AMEMBASSY RABAT  
TO SECSTATE WASHDC 240

UNCLAS RABAT 6664

AIDAC

FOR: NE/TECH

DS/NEA/EH

E.O. 12065 N/A  
SUBJECT: W.A.S.H. T.A. FOR PEACE CORPS/MOROCCO

1. PEACE CORPS HAS DEVELOPED A POTABLE WATER PROJECT WITH THE  
MINISTRY OF INTERIOR (MOI) WHICH WILL BE IMPLEMENTED IN TEN  
PROVINCES OVER A 2 YEAR PERIOD. USAID AND UNICEF WERE INVOLVED AT  
AN EARLY STAGE IN THE PROJECT DESIGN BUT USAID DROPPED OUT  
AFTER THE PID WAS DISAPPROVED IN AID/W. UNICEF HAS CONTINUED ITS  
PROJECT DEVELOPMENT AND PLANS TO BEGIN WORK IN TWO PROVINCES  
BEGINNING IN 1962. PEACE CORPS HAS RECRUITED 30 PROSPECTIVE  
VOLUNTEERS AND HAS SCHEDULED A U.S. TRAINING PROGRAM TO  
BEGIN THE 1ST WEEK OF NOVEMBER 1961.

2. PEACE CORPS MOROCCO HAS REQUESTED USAID FOR TECHNICAL ASSISTANCE  
FROM THE W.A.S.H. PROJECT IN THE FORM OF A SPECIALIST IN WATER  
PUMPING SYSTEMS. THIS INDIVIDUAL WOULD BE NEEDED FOR 2-3 WEEKS  
TDY BEGINNING 0/A JANUARY 11, 1962. THIS IS ROUGHLY 2  
WEEKS PRIOR TO THE 4 WEEKS OF IN-COUNTRY TECHNICAL TRAINING  
SCHEDULED TO BEGIN JANUARY 25. P.C./MOROCCO PROPOSES 3 HOURS  
DAY FOR 4 WEEKS (APPROX. 120 - 150 HOURS). THE GROUP OF 30  
TRAINEES WOULD BE DIVIDED INTO TWO GROUPS OF 15 EACH.  
THE W.A.S. H. TRAINER WOULD BE RESPONSIBLE FOR ONE GROUP  
SPECIALISING IN THE INSTALLATION, MAINTENANCE AND REPAIR OF  
THE FOLLOWING EQUIPMENT. THE SECOND GROUP OF 15 WILL BE  
INSTRUCTED BY P.C. STAFF ENGINEERS.

PUMPS.

- GRUNDFOS CENTRIFUGAL PUMPS
- ROTOS CENTRIFUGAL PUMPS
- KHF SUBMERSIBLE ELECTRIC PUMPS
- ANDRE ROBIN HAND PUMPS

MOTORS AND WINDMILLS

- PETTER DIESEL MOTORS
- LIESTER DIESEL MOTORS
- LE ROY SOMER ELECTRIC MOTORS
- AEROMOTOR WINDMILL

3. PEACE CORPS HAS RECRUITED INDIVIDUALS WITH GENERAL KNOWLEDGE  
IN MECHANICS AND CONSIDERABLE EXPERIENCE PRIOR TO PC TRAINING. PC  
MOROCCO PLANS TO SET UP A SHOP FOR TRAINING PURPOSES WITH EXAMPLES  
OF ALL THE ABOVE EQUIPMENT. THIS WILL ALLOW THE W.A.S.H.  
EXPERT 2 WEEKS TO FAMILIARIZE HIMSELF WITH LOCAL  
EQUIPMENT AND METHODOLOGY PRIOR TO THE TRAINING PROGRAM.  
W.A.S.H. T.A. WOULD BE APPRECIATED FOR A "RECYCLAGE" OF THE 15 PC  
MECHANICS AFTER 6-9 MONTHS OF JOB EXPERIENCE TO REVIEW SHOPS

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89



OTD 62

October 6, 1981

Technical Assistance with Health Sector  
Assessment - Egypt

WASH contractor is requested to provide technical assistance with the health sector assessment in Egypt and preparation of an environmental health working paper. The scope of work includes: preparation and briefing of WASH consultants at AID/W; in-country travel and briefings with AID/Egypt and government officials; review and analysis of relevant available documents and data; and preparation of a final report. The report will review and summarize existing data on environmental determinants of health status in Egypt; identify important gaps in existing data; discuss priority problems, changes and trends; identify institutions and individuals to be involved in further work; discuss interrelationships between health status and AID's assistance to the water, sewage, housing, industrial and agricultural sectors; and will conclude with a set of recommendations for AID action.

For further information, contact Dr. D. Warner.

Up to seventy (70) person days over a three (3) month period by two (2) consultants are authorized for this OTD. Two round trip international air fares, sixty (60) person days of international per diem, in-country travel, secretarial and interpreter services not to exceed \$3,500, seven day work week and photographic and miscellaneous expenses not to exceed \$2,800 are also authorized.

JEB/CIC  
10/19/81

MEMORANDUM

WATER AND SANITATION FOR HEALTH (WASH) PROJECT  
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 82  
Camp, Dressing & Kitchen (CDK) 62

October 6, 1981

TO: Dr. Dennis Warner, Ph.D., P.E.  
WASH Project Director

FROM: Mr. Victor W.R. Wehman, Jr., P.E., R.S.  
AID WASH Project Manager

SUBJECT: Provision of Technical Assistance Under WASH Project Scope of Work  
for USAID/Egypt

REFS: A) CAIRO 22119  
B) STATE 244355  
C) Egypt Health Sector Assessment: Environmental Health Working  
Paper (Scope of Work and Terms of Reference)-NE/TECH  
D) Health Sector Assessment 8/16/81-P. Johnson

1. WASH contractor requested to provide technical assistance to USAID/Egypt as per Ref. C., and Ref. A para. 3. Scope of Work. Contractor to provide two (2) internationally recognized sanitary/environmental engineers as per most recent discussions with NE/TECH and mission for period of 3-4 weeks each as necessary and appropriate, starting o/a 18 October in Cairo. Both consultants do not necessarily need to be in country at the same time.
2. WASH contractor/sub-contractor/consultants authorized to expend up to seventy (70) person days effort over a three (3) month period to accomplish this technical assistance effort.
3. Contractor to provide draft final report according to Ref. C., a debriefing according to Ref. C. and a final report within 30 days of their return from the field.
4. Contractor to coordinate directly with USAID/Egypt (Dr. W. Oldham), NE/TECH representative in Egypt on TDY (Mr. J. Haratani), USAID environmental officer, capital development and engineering officers, and various ministries as appropriate.
5. Contractor should ensure that NE/TECH (B. Turner), NE/PD/ENGR officer and Egypt desk officer receive copies of OTD and are coordinated with and informed on ETA's, purpose of TA, etc. as appropriate.
6. Sixty (60) person days of international and domestic per diem is hereby authorized.
7. Two round trip airfares from Washington, D.C. to Egypt and return to Washington, D.C. are authorized.

8. Local in-country travel is authorized as necessary to accomplish scope of work. Effort should be made to utilize USAID/Egypt transportation, secretarial and interpreter/liaison services to maximum extent possible. If this proves to jeopardize effort in team leader's opinion, consultants authorized rental of local vehicles and conveyances, rental of interpreter services and procurement of typing services as necessary NTE \$3,500 without request and approval by AID Project Manager.
9. Seven day work week is authorized if deemed necessary by team leader.
10. Miscellaneous expenses authorized NTE \$2,000.
11. Local graphics/photography, reproduction and typing expenses authorized NTE \$800.
12. WASH consultant requested to take 35 mm camera and film to take representative group of 35 mm slides to adequately portray environmental health situation in Egypt for purposes of debriefing and educating other WASH CIC and consultant staffs.
13. Mission and consultant should be contacted immediately and technical assistance initiated as soon as possible or convenient to USAID/Egypt. WASH CIC should ensure backstopping of consultants.
14. Appreciate your prompt attention to this matter. Good luck.

VWV:ja

A 100

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Department of State

INCOMING  
TELEGRAM

PAGE 01 CAIRO 22119 171850Z 3493 081578 A102001

CAIRO 22119 171850Z 3493 081578 A102001

ACTION AID-35

SUBJECT AREA FOR BACKGROUND ISSUES PAPERS ARE DESCRIBED IN "HEALTH SECTOR ASSESSMENT PAPER" WRITTEN BY MAN JOHNSON 8/16/81 AND ACCEPTED BY THE MISSION AS THE BASIC DESIGN FOR THE ASSESSMENT. "INFECTIOUS AND COMMUNICABLE DISEASES" HAS BEEN ADDED AS AN AREA FOR ASSESSMENT.

ACTION OFFICE NETS-04

INFO REPD-04 NEDP-02 HEEI-03 AAST-01 STIU-01 STIU-04 HNS-03  
RELO-01 NAST-01 /030 A2 X17

INFO OCT-01 /030 W

-----277173 1717512 /41

P 171038Z SEP 81

FM AMEMB-SS/ CAIRO

TO SECSTATE WASHDC PRIORITY 0812

UNCLAS CAIRO 22119

AIDAC

E.O. 12055: P/A

SUBJECT: HEALTH SECTOR ASSESSMENT.

(E) DEPLOYMENT OF PHASE II TEAM ON FEB. 1 FOR ONE MONTH. CHIEF OF PARTY (JOHN ALDEN) ALREADY SELECTED. OTHER TEAM MEMBERS PROPOSED ARE HEALTH ADMINISTRATION SPECIALIST (BARBARA TURNER), HEALTH ECONOMIST (DARL STEVENS), MEDICAL ANTHROPOLOGIST (PAMELA JOHNSON), AND TWO OR MORE DISTINGUISHED INTERNATIONAL HEALTH AUTHORITIES. ONE SHOULD HAVE WIDE EXPERIENCE IN PUBLIC AND ENVIRONMENTAL HEALTH AND THE OTHER IN INFECTIOUS DISEASES AND CLINICAL SYSTEMS. USAID IS CERTAINLY OPEN TO SUGGESTIONS FROM AID/M CONCERNING TEAM COMPOSITION.

5. PLEASE ADVISE. ATHERTON

1. PASS TO BARBARA TURNER, NE/TECH/HPH AND JOE HARATANI USAID/UNIS.

2. CONDUCT ON PROPOSAL TO RECRUIT CENTRALLY FUNDED WASH CONSULTANT TO WORK WITH HARATANI ON ENVIRONMENTAL HEALTH BACKGROUND/ISSUES PAPER.

3. MINISTER OF HEALTH HAS REQUESTED THAT USAID DELAY START OF ASSESSMENT UNTIL NOVEMBER 1. CITES UNAVAILABILITY OF SENIOR MOH PERSONNEL TO ASSIST IN PHASE I OF ASSESSMENT DUE TO INVOLVEMENT MOST PERSONNEL IN CHIEFRA QUARANTINE PROGRAM FOR CARRIERS FROM JORDAN & IRAQ. ALSO A NUMBER OF SENIOR STAFF HAVE BEEN SENT TO SAUDI ARABIA TO PROVIDE MEDICAL CARE TO PILGRIMS TO MECCA. MINISTER HOWEVER HAS AGREED TO USAID PROCEEDING WITH DATA COLLECTION IN OCTOBER IF NO REQUIREMENTS PLACED ON MOH PERSONNEL. SINCE ENVIRONMENTAL ASSESSMENT WILL BE CARRIED PRIMARILY ON INFORMATION FROM OTHER SOURCES, BELIEVE OCTOBER CONSULTATION FEASIBLE. HARATANI CAN WRAP UP MOH INPUT IN EARLY NOVEMBER. UNDERSTAND HARATANI IS WRITING SCOPE OF WORK FOR WASH CONSULTANT.

4. USAID PROPOSES FOLLOWING SCHEDULE OF ACTIONS:

(A) RECRUITMENT OF RESEARCH ASSISTANT FOR DATA BASE COLLECTION. SEVERAL LOCAL CANDIDATES BEING CONSIDERED.

(B) BRINGING ROBERT EMERY OUT ON APHA CONTRACT DURING OCTOBER TO WRITE SCOPES OF WORK FOR BACKGROUND/ISSUE PAPERS AND TO INITIATE RECRUITMENT OF REQUIRED LOCAL CONSULTANTS FOR PHASE I.

(C) EMPLOYMENT OF HAWAL MADIN TO WRITE SOCIAL ASSESSMENT PAPER AS SOON AS FUNDS AVAILABLE.

(D) CONSULTATION BY COP JOHN ALDEN NOV. 1 FOR 2-3 WEEKS PERIOD TO ESTABLISH FINAL TERMS OF REFERENCE OF ASSESSMENT, ESTABLISH WORKING RELATIONSHIP WITH MOH, AND COMPLETE RECRUITMENT OF LOCAL CONSULTANTS AND PHASE I SUPPORT STAFF (WITH USAID ASSISTANCE AS REQUIRED). AS PHASE I MANAGER, HE WILL BE CHARGED WITH SUPERVISION AND ASSISTANCE TO THE PHASE I TEAM WHICH WILL:

- (1) COLLECT AND SUMMARIZE EXISTING DATA
- (2) ACCESS AND IDENTIFY IMPORTANT GAPS IN EXISTING DATA
- (3) PURSUE RAPID FIELD ASSESSMENTS WHERE APPROPRIATE
- (4) IDENTIFY AND DISCUSS CHANGES AND TRENDS
- (5) HIGHLIGHT MAJOR FINDINGS, ISSUES AND QUESTIONS FOR DISCUSSION
- (6) IDENTIFY IMPORTANT ACTORS AND INSTITUTIONS FOR POSSIBLE CONTACT AND INVOLVEMENT IN PHASE TWO.

EGYPT HEALTH SECTOR ASSESSMENT: ENVIRONMENTAL HEALTH WORKING PAPER

Terms of Reference

Contractor will provide a Sanitary/Environmental Engineer consultants to travel to and work in Egypt for a period of approximately <sup>three to</sup> four weeks each beginning o/a October 4, 1981. The consultants will travel to Washington, D. C. to confer with A.I.D. and other pertinent officials prior to departure to Egypt.

A.I.D. will provide the consultants with available reference documents for review and assist in arranging meetings with the proper officials. A.I.D. will also provide office space and telephone service in Washington, D. C. A.I.D. will also assist the contractor in obtaining the necessary visas.

In Egypt, USAID/Cairo shall provide the normal office and logistical support services rendered to contractors. Consultant will be responsible to arrange for lodging, meals and transportation services needed in carrying out the contract.

Prior to departure from Egypt, the consultants shall submit a draft report as described below. The consultants will present a debriefing for pertinent USAID staff prior to departure from Egypt.

Upon return to the U.S.A. consultants will visit AID/W for one day to submit a copy of his draft report and present a debriefing for pertinent AID/W staff.

Contractors will submit a final report to NE/TECH/HPN with 30 days of the debriefing of his return to the U.S. no later than December 15, 1981.

### Consultants Qualifications

Consultants shall be ~~a~~ graduate Sanitary or Environmental Engineers with at least 10 years experience. The consultants should have significant professional experience overseas in developing countries, preferably in Egypt or the Near East region. Arabic language ability is desirable but not necessary.

### Scope of Work

The major determinants of health status in Egypt are linked to the environment. The need for clean water and sanitary waste disposal, industrial pollution and occupational hazards in rural and urban areas are among the factors which contribute to Egypt's pattern of disease and illness. As part of the planned health sector assessment, the consultants will assess: 1) the environmental determinants of health status in Egypt, 2) the interrelationship of health with other sectors of A.I.D. assistance: Water, sanitation, agriculture, industry and housing.

The purpose of this assessment is to lay the groundwork for how A.I.D.'s strategy for continued involvement in the health sector should address environmental health issues.

The consultants will prepare a working paper which :

1. Reviews and summarizes existing data on environmental determinants of health status in Egypt
2. Identifies important gaps in existing data.
3. Based on data review and interviews with appropriate officials and authorities, identifies and discusses priority problems, changes and trends.

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4. Identifies important actors, agencies and institutions for possible contract and involvement in Phase Two.

5. Discusses interrelationships between health status and A.I.D.'s assistance to other sectors, notably water and sewage, housing, industry and agriculture.

In carrying out these tasks, the consultants will work closely with other health sector assessment team members. USAID/Cairo's Health Office; other USAID offices including LAD, and \_\_\_\_\_, NE/TECH/HPN's public health advisor. <sup>THEY</sup> ~~he~~ will be assisted by the health sector assessment support staff.



OTD 63

October 19, 1981

Technical Assistance in Local Handpump  
Manufacture - Tunisia

AID/Tunisia requested WASH technical assistance in local manufacture, field monitoring and adaptation of the AID Handpump in support of an on-going program. The scope of work includes improving quality control of pump manufacturing at the foundry, insuring that pump designs are properly adapted to conditions in rural Tunisia, and planning and managing an integrated field installation, re-installation, repair, maintenance, monitoring and training program. WASH contractor (Georgia Institute of Technology) will coordinate activities with AID/Tunis, government officials, manufacturing companies and suppliers, and CARE field installation operations. Eleven sites have been selected for monitoring.

For further information, contact Mr. D. Donaldson.

Up to one hundred and twenty (120) person days, four (4) international round trips, three (3) domestic round trips and one hundred and ten (110) person days of international and domestic per diem are authorized for this OTD. Local transport, secretarial, interpreter, and miscellaneous expenses and purchase of parts and tools are also authorized.

JEB/CIC  
10/28/81

WATER AND SANITATION FOR HEALTH (WASH) PROJECT  
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 63

October 19, 1981

TO: Dr. Dennis Warner, Ph.D., P.E.  
WASH Project Director

FROM: Mr. Victor W.R. Wehman, Jr., P.E., R.S.  
AID WASH Project Manager

SUBJECT: Provision of Technical Assistance Under WASH Project Scope of Work  
for USAID/Tunisia

REFS: A) Tunis 07472  
B) Relative responsibilities document prepared by USAID/GIT/Wehman/  
Haratani, 9/26/81  
C) Memo Haratani/Turner to Wehman (25 Sept. 81)  
D) AID Contract No.: USAID/TUNISIA 664-725 (funds expended)

1. WASH contractor requested to provide technical assistance to USAID/Tunisia as per Ref. A, para. 3. A. - 3. E. and Ref. B, para. 3 and para. 4 of scope of work.

2. WASH contractor/sub-contractor/consultants authorized to expend up to 120 person days over a 12 month period to accomplish this technical assistance effort.

3. Contractor to provide draft and final report according to Ref. A, para. D. Contractor to bring field liaison coordinator (in Tunisia) to WASH CIC for briefing by WASH CIC, NE/TECH and S&T/HEA before he/she goes to Tunisia. Request detailed progress briefing after each 50 person days of activity (successes, problems, etc.) at WASH CIC.

4. Contractor to coordinate directly with USAID/Tunisia (Ms. D. Young) representatives of Genie Rural, members of National Engineering School of Tunisia, the local foundries, machine shops and suppliers, representatives of CARE, representative of the Ministry of Health (Mr. Atallah) and various others as necessary and appropriate.

5. Contractor/sub-contractor required to coordinate with and keep informed the AID/Tunisia desk officer, the NE/TECH/HNP representative (Ms. Turner and/or Mr. Haratani), the NE/PD/ENGR officer (Mr. Jim Habron) especially regarding ETA's of consultants and progress.

6. Effort is to be an intensive one with technical assistance/local coordination to take place in-country for a period of two months continuously. Contractor authorized to obtain local Tunisian technical assistance as necessary to facilitate effort within overall level of effort authorized. Contractor may have to go in and out of Tunisia several times over the 12 month period.

7. Contractor authorized up to four (4) international round trips from consultants home base through Washington to Tunisia and return to home base through Washington for debriefing during life of OTD.

8. Sub-contractor project director authorized 3 domestic round trips from Atlanta, Georgia to Washington, D.C. and return for briefings, trouble-shooting, and detailed discussions with NE/TECH, S&T/HEA and WASH CIC staffs over life of OTD.
9. Contractor authorized local in-country travel as necessary to accomplish scope of work. Contractor should assure self-sufficiency for logistics and reporting/liaison purposes and not repeat not rely on logistics and communications to be provided by any other organization as a gratis service. Consultants authorized rental of local vehicles and conveyances, rental of interpreter services and procurement of typing services as necessary for OTD implementation NTE \$2,500 without request and approval by AID project manager.
10. One hundred and ten (110) person days of international and domestic per diem is hereby authorized over the 12 month period.
11. Contractor authorized up to a total of \$10,000 for the purchase of mechanical handpump parts, spare parts, specially treated parts, handpump tools by subcontract from your subcontractor or his representative to local manufacturers in Tunisia or in the U.S. if necessary for specialty products.
12. Miscellaneous expenses authorized NTE \$1,500.
13. Contractor/sub-contractor authorized to install and train locals in local manufacture, installation, operation and maintenance of the AID handpumps as appropriate.
14. Mission and AID contacts and subcontractor should be contacted immediately and technical assistance initiated to begin in-country by 30 October 1981 or as convenient to USAID/Tunisia. WASH CIC task manager should ensure that progress reporting as described in para. 3 of the OTD is rigidly adhered to. WASH CIC and sub-contractor should ensure backstopping of local subcontractor coordinator and consultants.
15. Appreciate your prompt attention to this matter. Good luck!

UNCLASSIFIED  
Department of State

INCOMING  
TELEGRAM

PAGE 01 TUNIS 0747Z 051009Z 9470 095715 A1D660  
ACTION: AID-35

TUNIS 0747Z 051009Z 9470 095715 A1D660

ACTION OFFICE WETC-04  
INFO WENP-03 FM-02 AACT-01 CMGT-02 CPP-01 CSE-02 CTR-02  
ST/HEA-01 ENGR-02 RELO-01 MAST-01 /022 AS 1209

INFO OCT-01 /036 W  
-----042402 052127Z /70

F 051431Z OCT 81  
FM AMEMBASSY TUNIS  
TO SECSTATE WASHDC 5419

UNCLAS TUNIS 7472

AIDAC FOR TURNER HE/TECH AND WEHMAN ST/HEA

E.O. 12065: N/A

SUBJ: REQUEST FOR WASH TECHNICAL ASSISTANCE ON  
AID HANDPUMP PROJECT IN TUNISIA

REF: YOUNG/HARATANI/WEHMAN DISCUSSION IN USAID/TUNIS 9/24/81

SUMMARY/ MISSION REQUESTS TECHNICAL ASSISTANCE FROM ST/HEA  
WASH CONTRACT TO PROVIDE EXTENDED FIELD MONITORING, ADAPTION  
AND DEMONSTRATION PROGRAM FOR THE AID HANDPUMP LOCALLY  
MANUFACTURED UNDER AID PROJECT CONTRACT NO. USAID/TUNISIA  
664-720. MISSION SUPPORTS PAST AND PRESENT EFFORTS. PUMP  
STILL HAS SOME DESIGN AND MANUFACTURING QUALITY CONTROL  
PROBLEMS TO BE WORKED OUT. FUNDS WILL BE USED UP UNDER  
EXISTING CONTRACT BY END OCTOBER 1981. AS RESULT OF DISCUSSIONS  
WITH GENIE RURAL, MISSION BELIEVES THAT ADDITIONAL 9-12  
MONTH TESTING AND ADAPTION PERIOD WILL BE NECESSARY TO  
MAKE HANDPUMP FULLY ACCEPTABLE. MISSION ESTIMATES THAT  
FIELD TESTING/ADAPTION/QUALITY IMPROVEMENT PROGRAM OF  
ABOUT 5 PERSON MONTHS WITH COMMODITY REQUIREMENT OF  
ABOUT \$10,000 WILL BE NECESSARY TO ACCOMPLISH TASK OVER  
9-12 MONTH PERIOD.

1. LOCAL MANUFACTURING OF AID HANDPUMP PROGRESSING  
SATISFACTORILY; HOWEVER, CONTRACTOR (GEORGIA TECH) HAVING  
COORDINATION/TRANSPORTATION AND COMMUNICATION DIFFICULTIES.  
WITH VISIT OF HARATANI (HE/TECH) AND WEHMAN (ST/HEA),  
DETAILED DISCUSSIONS HAVE TAKEN PLACE WITH ALL PARTIES  
INVOLVED. AS RESULT THESE DISCUSSIONS, DRAFT DOCUMENT  
DESCRIBING RELATIVE RESPONSIBILITIES OF ALL PARTIES HAS BEEN  
PREPARED. WEHMAN CARRIED COPY OF DOCUMENT TO AID/W. THIS  
DOCUMENT SHOULD SERVE AS BASIS FOR DETAILED SCOPE OF WORK  
FOR CRDEF OF TECHNICAL DIRECTION UNDER WASH PROJECT. MISSION  
ADVISES THAT MORE TIME, DESIGN/LOCAL MANUFACTURING QUALITY  
CONTROL AND MONITORING NECESSARY BEFORE GENIE RURAL (GR)  
AND OTHERS WILL ACCEPT PUMP FOR THEIR PROGRAMS. AFTER  
SATISFACTORY TESTING PERIOD, GR INTENDS ADOPT PUMP FOR  
NATIONWIDE USE.

2. MISSION ESTIMATES THAT WASH SERVICES REQUIRED AT LEVEL  
OF EFFORT OF APPROXIMATELY 5 PERSON MONTHS OVER 9-12 MONTH  
PERIOD. ADDITIONALLY, APPROXIMATELY \$10,000 FOR REMANUFACTURED  
PARTS AND SUPPLIES WILL BE NEEDED AS COMMODITIES.

3. SCOPE OF WORK. MISSION REQUESTS FOLLOWING CONTRACTOR  
SCOPE OF WORK IN CONJUNCTION WITH RELATIVE RESPONSIBILITIES  
DOCUMENT (PARA 1).

A. INITIATE CONTRACT/SUB-CONTRACT AS APPROPRIATE BETWEEN  
WASH CONTRACTOR, WASH SUB-CONTRACTOR (GIT), AND GIT  
SUB-CONTRACTORS AS NECESSARY IN MID-OCTOBER TO CARRY OUT  
TASKS BELOW.

B. AS CEE RESPONSIBILITY FOR EXISTING SPARE HANDPUMPS,  
HANDPUMPS INSTALLED AT TESTING SITES, SPARE PARTS,  
EXISTING STORES OF DROP PIPE AND DROP ROD AND MISCELLANEOUS

EQUIPMENT LOCATED IN TUNIS, BIZERTE, MAKTHAR AND KACERINE  
GOVERNORATES.  
C. WORK WITH FOUNDRY, GENIE RURAL, CARE, USAID/TUNIS,  
GEORGIA TECH, THE NATIONAL ENGINEERING SCHOOL OF TUNIS,  
AND OTHER SUPPLIERS AND INTERESTED PARTIES TO: (1) IMPROVE  
QUALITY CONTROL OF PUMP MANUFACTURED AT FOUNDRY; (2) ENSURE  
PUMP DESIGNS ARE PROPERLY ADAPTED TO CONDITIONS IN RURAL  
TUNISIA; (3) PLAN, COORDINATE, MANAGE AND IMPLEMENT  
INTEGRATED FIELD INSTALLATION, RE-INSTALLATION, REPAIR,  
MONITORING AND TRAINING PROGRAM FOR PERIOD OF 9-12 MONTHS  
STARTING MID-OCTOBER 1981.  
D. MONITORING-ADAPTION PROGRAM IN FIELD ESTIMATED TO  
INVOLVE APPROXIMATELY 77 FIELD TRIPS TO EACH BIZERTE,  
MAKTHAR AND KACERINE SITE AND 40 FIELD TRIPS TO TUNIS  
SITE. ALL SITES HAVE BEEN IDENTIFIED AND PUMPS INSTALLED.  
E. REPORTING. INSURE GIT APPOINTS A LOCAL COORDINATOR  
FOR ALL LOGISTICAL COORDINATION AND REPORTING ON SITES.  
AND THAT STATUS REPORTS BE CABLED OR TELEXED TO GIT BI-  
WEEKLY. COPIES OF TELEXES SHOULD GO TO USAID/TUNIS, WASH,  
AND ST/HEA. WASH CONTRACTOR REQUESTED TO DEVELOP OVERALL  
FINAL REPORT INCORPORATING FIRST STAGE PROGRESS UNDER AID  
CONTRACT/AID/TUNISIA 664-720 (BETWEEN USAID/TUNIS AND GIT)  
AND SUBSEQUENT PROGRESS ACHIEVED UNDER WASH PROJECT MANAGEMENT  
F. WASH CONTRACTOR REQUESTED TO CABLE MISSION MONTHLY  
STATUS REPORT.

4. MISSION ENTHUSIASTICALLY SUPPORTS LOCAL MANUFACTURE,  
FIELD MONITORING AND ADAPTION OF THE AID HANDPUMP IN  
TUNISIA AND ACTIVELY REQUESTS ASSISTANCE FROM ST/HEA/WASH  
PROJECT TO PROVIDE EXTENDED ADAPTION, QUALITY CONTROL AND  
DEMONSTRATION SERVICES NEEDED TO INSURE PUMP IS FULLY  
ACCEPTABLE FOR NATIONWIDE USE. BELIEVE THIS ACTIVITY HAS  
SIGNIFICANT POSITIVE POTENTIAL IN TUNISIA.  
MACK

BEST AVAILABLE COPY

Monitoring of Handpumps/Well Sites for AID  
Handpump Field Adaptation Test in  
Tunisia

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A. Responsibilities

1. Genie Rural

- a. To accompany GIT personnel to field sites to inspect handpumps on field sites visits.
- b. To accompany GIT personnel to field sites to repair, replace or adjust handpump or parts of the handpump systems.
- c. To be kept informed by GIT, and A.I.D. Mission of progress of monitoring program.
- d. To appoint and support GR persons in each GR Governorate in which testing is taking place to be responsible for the following:

(i) providing responsible program coordinator who will be overseeing and directing actual Genie Rural field implementation of Genie Rural Handpump Program if the AID handpump should be selected as the actual locally manufactured handpump suitable to GR for field work after the AID/GIT/GR field monitoring trials are over.

(ii) to provide at least one person per GR Governorate that would physically be responsible for physical installation, operation and maintenance (O&M) of handpumps in the GR program; or that would be receiving physical training from GIT personnel in installation, O&M of the handpumps; or that would be training other GR personnel in installation, O&M, and trouble-shooting of handpump programs. This person should be made available to accompany GIT teams to the field to participate actively with GIT personnel in monitoring, repair, adjustment, or trouble-shooting efforts.

2. USAID/Tunis

a. To be informed of overall progress of field monitoring and adaptation of AID handpump program by GIT local coordinator on every 2-week basis.

b. To be given copies of all vouchers prepared by GIT; not for approval but for review. If Mission has problems then Mission contact should contact GIT project director by cable describing discrepancy or concern and let GIT work it out with local GIT coordinator. After working out problem GIT project director will cable Mission with resolution. If Mission still not satisfied then Mission should cable or call S&T/HEA project manager (V. Wehman) to discuss their concerns and S&T/HEA project manager will resolve the matter through the contractor if necessary with AID/W contract management or financial management involvement.

c. To periodically take inspection trip in conjunction with GIT local coordinator to visit all or selected sites as appropriate.

d. To communicate USAID's impressions of progress and relative effectiveness of monitoring/adaptation process to S&T/HEA and NE/TECH by State cable on at least a once monthly basis by cable and letter. This document (copy) should be given to GIT central coordinator and S&T/HEA will telecopy a copy of cable letter immediately upon receipt to GIT project director.

e. USAID/Tunis should rely on contractor/sub-contractor directions and guidance on all technical or monitoring procedures and decisions. Sub-contractors should be directly reporting to GIT project director and obtaining direct guidance from GIT project director. If Mission has some problems, then Mission should contact S&T/HEA project manager (V. Wehman) by phone to discuss problem and then S&T/HEA project manager will exchange views with contractor/sub-contractor and resolve a suitable compromise if necessary. If pump system effectiveness problems are not being handled expeditiously, then direct contact by Mission to S&T/HEA project manager should be initiated.

3. Georgia Institute of Technology (Atlanta)

- a. To coordinate the overall field monitoring and adaptation process.
- b. To be primarily responsible and timely in resolving local manufacturing problems with the Foundry in Tunis and local suppliers of drop rod, drop pipe, connectors, couplings etc. GIT to closely monitor directly or indirectly local manufacturing quality and field testing results to modify, remanufacture and supervise or direct the re-installation of the corrected, improved part.
- c. To be directly responsible for guidance and direction to GIT local coordinator on technical and procedural matters relating to the local manufacturing and field monitoring/adaptation of the AID handpump.
- d. To directly manage the GIT local coordinator sub-contract, provide technical assistance to the local foundry and machine shops and accept responsibility for the entire local manufacturing, monitoring and adaptation program assuming reasonable funding levels are provided to accomplish the monitoring and adaptation process.
- e. To closely monitor the GIT local monitoring procedures and accomplishments and to make detailed review the GIT vouchers.
- f. To identify and provide budgetary support for a local mechanical or industrial engineer who could effectively interact with the foundry and machine shops on pump part adaptations and that could accept for GIT various parts produced.
- g. Carefully insure that person identified in f above is adequately trained and informed as to exactly what to look for in his quality control inspections and that individual in f above is informed of details of present and future manufacturing problems, monitoring problems and how to solve them. Contractor should provide for frequent phone conversations with local person to insure activity is on track and that timetables are reasonable.
- h. To be responsible to S&T/HEA for the overall management of the local manufacturing, monitoring and adaptation project.
- i. If necessary, to send an individual to Tunisia to identify and resolve problems apparently unresolvable by the local GIT personnel, individual in f above, USAID, etc. in relation to local manufacture, monitoring or adaptation.
- j. To carefully review the progress reports, trouble reports, USAID perception reports, ect with regard to each site and each pump and provide detailed guidance to GIT local coordinator and individual in f through the process.
- k. To prepare detailed briefing report by site and handpump for use in phone discussions of program. Briefing report should be sent by telecopier to WASH and then provided S&T/HEA (Wehman) who will then call GIT project director after studying report to discuss options and results.
- l. To prepare a final report on local manufacture, installation, monitoring and adaptation project in Tunisia similar in format and scope to Nicaragua-Costa Rica final report. Date of this final report to be established

Cont'd GIT

some time in December 81-March 82 time period as we better know of progress. Report (original) with pictures to be sent to S&T/HEA for mass production and dissemination. No elimination of final report called for under AID Contract No. USAID/Tunisia 664-725.

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4. GIT Local Coordinator (Tunisia)

a. To provide local Tunisia physical logistical support, purchasing, equipment coordinators, workmen, and transportation to carry out field monitoring, installation, re-installation, repair adjustment or troubleshooting, as necessary, to accomplish AID handpump monitoring program schedule under the general guidance and direction of Georgia Institute of Technology project director or his representative.

b. To provide support as described in 2.a. above in Tunis, Makthar, Kasserine and Bizerte Governorates for the detailed support of (a) 4 sites (5 handpumps) in Kasserine, (b) 5 sites (6 handpumps) in Makthar, (c) 1 site (1 handpump) in Tunis, and (d) 1 site (1 handpump) in Bizerte.

c. All sites have been identified, sites developed and handpumps initially installed before this monitoring program officially begins.

d. To operate under the specific written (letter, cable) directions of the GIT project director.

and USAID/Tunis

e. To keep GIT project director/informed by telex or by cable to WASH project of progress, difficulties, successes, logistics problems, community problems in detail on Friday every 2 weeks after initiation of program.

f. To voucher at least once every month the GIT for personnel, equipment, materials, transportation and administration costs as appropriate.

g. To appoint an individual as the central local coordinator to bring together all field monitoring, local manufacturer, local equipment (drop rod, drop pipe, couplings, machining) purchasing and distribution, to coordinate billing and vouchering of vouchers to GIT, to keep the AID Mission informed of progress, to keep GR informed of progress, to physically pick up GR personnel for routine monitoring trips as described in 1.b. and 1.d. (ii), to serve as the principle local coordinator to GIT of the AID handpump tech transfer effort.

h. To actively support logistically GIT personnel with field monitoring support and transportation when GIT personnel are in any of the Governorates described in 2.b.above.

i. To carry out the routine monitoring and adjustment program as defined in attachment 1. With careful attention paid to keeping GIT informed.

j. To pay special attention to monitoring and making rapid adjustments, changes and getting rapid modifications of unsatisfactory parts of AID handpump at the official sites.

k. To number and name each handpump site and number each handpump, to keep an installation, modification, repair history on each handpump, to have the coordinator keep a separate folder on each site (handpump(s)) for review of site/performance history. No typed information is necessary.

Contn'd GIT Local Coordinator

1. To have local coordinator periodically return broken AID handpump or handpumps system parts to Mission to be shipped to S&T/HEA (Wehman) by AID pouch from Mission. Coordinator should carefully pack boxes so that no subsequent damage will occur and no box should weigh in excess of 36 pounds or be in excess of 55 inches total (combined length plus width plus height) of box. If more than one box is sent each box should be numbered 1 of 3, 2 of 3, etc. Example: box dimensions are 14 inches high plus 14 inches wide plus 30 inches long.

14 plus 14 plus 30 = 38 inches.

This would not be satisfactory. 55 inches combined is maximum total.

Once box is packed it should be addressed to the following address:

Victor Wehman  
Office of Health, ST/HEA  
Science and Technology Bureau  
Rm 309E, SA-18  
USAID/Washington, D.C. 20523

AIR POUCH

The completed air pouch box or package should then be delivered to USAID/Tunis to Ms. Dorothy Young's office and they will get it picked up by Embassy mail officials.

NOTE: A brief tag narrative should be taped to each part identifying the site, pump number and when it broke plus special remarks to give researchers better idea of failure reason, example: people hooking burro to pump to move it around, children like to beat pump with clubs or children swinging on part, people do not want handpump at this site, etc.

5. Office of Health, Science and Technology Bureau, AID/Washington

a. To manage the overall contractor/subcontractor/consultants effort to locally manufacture, install, monitor, readapt and re-manufacture components (if necessary) of the AID handpump for the US Government.

b. To closely monitor progress and perceptions of progress from the contractor, sub-contractor, USAID/Tunis and attempt to resolve inconsistencies or realign the overall direction of the activity if realignment is necessary.

c. To resolve differences in opinion from the various parties that appear beyond the realm of possibility of the contractor to resolve.

d. To actively develop and maintain programatic or contractual mechanisms to support the continuance of the local manufacture, installation, monitoring, spare parts program, and adaptation project in Tunisia related to the AID handpumps to the point where a satisfactory AID handpump is reasonably available in Tunisia in the opinion of the S&T/HEA.

e. To be available for consulting if necessary on any technical or programatic/administrative aspects of the project within reasonable notice.

f. To be ultimately responsible for the successful transfer of the AID handpump to Tunisia working closely with USAID/Tunis counterparts and contractors.

6. Water and Sanitation for Health Project (WASH) in Rosslyn, Virginia

a. To provide graphics support if necessary in the production of the final report.

b. To print 100 copies of the final report. (50 to Mission in French, - 50 to WASH and Mission in English (Mission 8).

c. To distribute copies of final report as appropriate.

d. To manage sub-contractor (GIT)/sub-contractor (CARE)/consultants elements of monitoring-adaption effort if WASH funding mechanism used to fund extended monitoring/adaptation period.

e. To serve as central communication facility for all messages (procedures to be worked out with CARE and GIT).

ATTACHMENT 1

Routine Monitoring and Adjustment Program and Schedule for AID Handpump Field Test in Tunisia

A. Monitoring of sites (routine)

1. Routine inspection/adaptation of each site once every 10 to 14 days during first 2 months. Reports due to CARE coordinator within one week of observation.

2. Routine inspection/adaptation of each site once every 20 to 30 days during third through fifth month. Reports due to CARE coordinator within one week of observation.

3. Routine inspection/adaptation of each site once every 30 days during six through ninth month. Reports due to CARE coordinator within one week of observation.

4. Final inspection/adaptation of each site at end of 12th month. Reports due to CARE coordinator within one week of observation.

B. Monitoring of selected sites (special) in Tunis

1. Special monitoring/adaptation of each site and handpump system on Wednesday of every week for the first 3 months. Report due to GIT by cable on Friday of that week each week.



OTD 77

January 8, 1982

Planning for Improved Excreta and Wastewater Pilot Demonstrations - Egypt

AID/Egypt requested a WASH Advance Team to prepare an implementation plan for pilot demonstration projects for improved excreta and wastewater disposal methods in selected unsewered areas of Greater Cairo in the Giza Governorate. If approved, the subsequent implementation of this plan will be a component of the on-going Cairo Sewerage Project. The preparation of an overall implementation plan for area and site selection; developing a preliminary methodology for collection and analysis of information on proposed sites and of alternative waste handling and treatment methods; identifying and securing agreement on roles and responsibilities of organizations to be involved in demonstration activities; and developing preliminary schedules and estimates of levels of effort and of costs. In addition, a preliminary investigation will be made of administrative requirements and of the availability of consultants, sub-contractors, local labor and facilities that could be used to implement the pilot demonstrations.

For further information, contact Dr. D. Warner.

Up to one hundred and eighty-five person days and one hundred and seventy international or domestic per diem over a three month period are authorized. Four international round trips, local travel expenses and up to \$1,400 for secretarial, graphic and reproductive services in Egypt are also authorized.

JEB/CIC  
1/12/82

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WATER AND SANITATION FOR HEALTH (WASH) PROJECT  
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 77

January 8, 1982

TO: Dr. Dennis Warner, Ph.D., P.E.  
WASH Contract Project Director

FROM: Victor W.R. Wehman, Jr., P.E., R.S.  
A.I.D. WASH Project Manager  
S&T/HEA/CWSS

SUBJECT: Provision of Technical Assistance Under WASH Project Scope of Work  
for U.S. A.I.D./Egypt (Cairo)

REF: A) Cairo 30352  
B) Terms of Reference and Scope of Work, dated 28 December 1981

1. WASH contractor requested to provide technical assistance to U.S. A.I.D./Cairo as per reference A, paragraph five, (modified in this OTD with participation of NE/TECH, Mr. Haratani).
2. WASH contractor/subcontractor/consultants authorized to expend up to one hundred and eighty-five (185) person days of effort over a three (3) month period to accomplish this technical assistance effort.
3. Contractor authorized up to one hundred and seventy (170) person days of international and/or domestic per diem to accomplish this effort.
4. Contractor to coordinate with NE/TECH (Mr. Haratani, 632-0215), Egypt Desk Officer, NE/PD/ENGR (Mr. Hotvedt), and U.S. A.I.D./Egypt (Mr. Guymont) and should provide copies of this OTD along with progress reports as requested by S&T/HEA or NE Bureau or U.S. A.I.D./Egypt.
5. Effort is to be an intensive one with most of the travel authorized in paragraphs two and three above to be accomplished basically within effectively a one to one and one-half (1 to 1-1/2) month period, i.e., mid-January to the end of February 1982.
6. Advance team authorized to contain U.S. professionals and local Egyptian professionals as necessary to remain up to one month (four weeks) in Egypt within the time constraints identified in paragraphs two and three of this OTD.
7. Contractor authorized to provide up to four (4) international round trips from consultant's home base through Washington for briefing to Cairo, Egypt and return to consultant's home base. Team leader (recommended to be Dr. Warner-WASH Contract Project Director) required to lead debriefing and coordination activities for WASH project.
8. Contractor authorized local travel in Egypt in metro Cairo/Giza area as appropriate and necessary.

9 Contractor authorized to obtain secretarial graphics and/or reproduction services in Egypt as necessary to accomplish task. These services are in addition to the level of effort specified in paragraphs two and three above, but should not exceed \$1,400 without official approval of A.I.D. WASH Project Manager.

10 Professional services provided under this OTD by the WASH Project Contractor will be managed in the U.S. and Egypt (as is usual in all WASH Project activities) by the A.I.D. WASH Project Manager in S&T/HEA working in close collaboration with NE/TECH NE/PD/ENGR and the U.S. A.I.D. offices to resolve any possible problems that might occur during implementation of this OTD activity.

11. Contractor authorized to provide for car(s) rental if necessary to facilitate effort. Contractor should take every opportunity to use local taxis or local conveyances where possible. If Mission offers to provide any logistical support in the area of transportation contractor authorized to utilize Mission vehicles.

12. Contractor authorized to take a manual typewriter and graphic equipment as necessary to Egypt to accomplish technical assistance effort i.e. excess baggage for equipment is authorized as necessary.

13 WASH contractor will adhere to the normal established administrative and financial controls as established for the WASH mechanism in the WASH contract with S&T/HEA.

14. WASH contractor and WASH CIC should definitely be prepared to administratively or technically backstop the field advance team consultants or subcontractors.

15. Contractor should prepare overall final draft report and coordinate this report with U.S. A.I.D./Egypt, NE/TECH representative in field (Mr. Haratani) and with C/O or Giza Government representatives. This report should be prepared and agreed to before team leader leaves Egypt. Final report should be prepared within 30 days of return of project director to WASH CIC. Draft final report in field should be used as draft official agreement document for subsequent implementation of any U.S. A.I.D./Egypt requests.

16 Scope of work modifications to reference A are as follows:

Paragraph five of reference A amended to read:

"Working within the general framework described in the terms of reference and scope of work " (reference B in this OTD) for the unsewered areas of Cairo Sewerage Project (203 0091) the WASH advance team will prepare an overall implementation plan and level of effort estimate for pilot demonstrations of improved excreta and wastewater disposal methods in areas of greater Cairo situated in the Giza Governorate. This plan and level of effort estimate will include, but not be limited to the following components:

- a) Establish preliminary criteria to be agreed upon by parties involved for the selection of unsewered areas and delineate these areas at least preliminarily on a large scale map of the Giza Governorate.
- b) Establish specific preliminary criteria to be agreed upon by parties involved for the selection of pilot demonstration sites within unsewered target areas in Giza Governorate. If possible, delineate some of the sites subject to further study on small scale maps.
- c) Describe and/or develop a preliminary methodology and attempt to obtain agreement by U.S. A.I.D. and CMO/Giza personnel on a preliminary methodology for collecting information on and analyzing existing methods of collecting, treating and disposing of excreta and wastewaters in proposed pilot demonstration sites and for identifying, selecting, designing, implementing and evaluating a range of promising improved methods for the collection, treatment and disposal of excreta and wastewater in pilot demonstration sites. In association with this, prepare and attempt to obtain agreement on a relative responsibilities document that outlines the responsibilities, roles and duties of the various organizations involved in the implementation of this pilot demonstration activity.
- d) Develop overall preliminary, best judgment level of effort estimates showing levels of manpower, commodity and logistics requirements, scheduling, organizational frameworks and at least preliminary best guess implementation schedules for the complete pilot demonstration effort.
- e) Describe to the extent possible the numbers, types, size and locations of proposed test demonstrations. (This element may not be able to be provided until intensive implementation assessment under actual proposed pilot demonstration begins.)
- f) Develop level of effort cost estimates for proposed pilot demonstration for purposes of enabling the Mission to request levels of services or commodities in terms of person days, type of expertise, number of and types of commodities, etc., but not in terms of dollar or local Egyptian pound figures. Provide a document that does not represent a Government Independent Estimate for negotiation purposes.
- g) Preliminarily investigate the availability of individual consultants and/or subcontractor organizations, local labor, contacts, financial procedures relating to Egyptian pounds, availability and appropriateness of coordination center site in Egypt for carrying out implementation activity should CMO, S&T/HEA, HE/TECH and U.S. A.I.D. decide to implement activity using WASH project contractor.

h) Develop preliminary procedures for subcontract and financial administration, project billing methods, cash disbursements, project budgets and financial reporting. In association with this, prepare and attempt to obtain agreement on a relative responsibilities document that outlines the responsibilities, roles, duties and authorities of the various organizations involved in the implementation of this pilot demonstration authority under the scope of work of the S&T/HEA WASH project contract.

17. Mission and NE/TECH should be contacted immediately and technical assistance initiated by February 1, 1982.

18. Appreciate your prompt attention to this matter.

# Department of State

ROUTING  
TELEGRAM

PAGE 01 CAIRO 30352 01 OF 02 240921Z 5731 056734 AID0254  
ACTION AID-35

CAIRO 30352 01 OF 02 240921Z 5731 056734 AID

INFO NEPD-04 ANNF-01 NEOP-02 NLEI-03 GC-01 GCFL-01 GCNE-01  
AAS-01 SITE-01 ENGR-02 INT-01 RELO-01 IAS-01 DO-01  
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INFO OCT-00 AMAD-01 /026 W

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R 240228Z DEC 81  
FM AMEMBASSY CAIRO  
TO SECSTATE WASHDC 0550

UNCLAS SECTION 01 OF 02 CAIRO 30352

AIDAC

E.O. 12065: N/A  
SUBJECT: CAIRO SEWERAGE (263-0091)  
UNSEWERED AREAS

REF: STATE 328039

1. FOR JOSEPH HARATANI, NE/TECH/HPH; ALFRED HOTVEDT,  
NE/PD/ENGR; AND VICTOR WEHMAN, S&T/HEALTH.

2. MISSION CONTINUING DISCUSSIONS WITH CNO CHAIRMAN  
SAFAYI CONCERNING THIS PROJECT ELEMENT. FORMAL REQUEST  
TO EXECUTE PROJECT COMPONENT SHOULD COME AFTER SCOPE  
OF WORK, IMPLEMENTATION PLAN AND COSTS ARE FINALIZED.

3. USAID/CAIRO REQUESTS PROFESSIONAL SERVICES OF WASH  
UNDER CENTRALLY FUNDED SBT CONTRACT TO ASSIST IN MISSION  
IN FINALIZING THE ORGANIZATIONAL AND OPERATIONAL PLAN  
TO IMPLEMENT THE UNSEWERED AREAS COMPONENT OF THE CAIRO  
SEWERAGE PROJECT. THE PROPOSED ACTIVITY WILL REQUIRE THE  
PROVISION OF PROFESSIONAL SERVICES IN EGYPT AND THE U.S.

4. TERMS OF REFERENCE:

A. AN ADVANCE WASH TEAM COMPRISING SENIOR PROFESSIONAL  
STAFF REPRESENTING TECHNICAL AND MANAGEMENT AREAS SHOULD  
ARRIVE O/A 1/12/82 AND REMAIN IN EGYPT APPROXIMATELY THREE  
TO FOUR WEEKS.

B. THE ADVANCE TEAM SHOULD CONSIST OF TWO OR THREE  
SENIOR STAFF OR CONSULTANTS. PREVIOUS EXPERIENCE IN  
EGYPT AND KNOWLEDGE OF SECTOR INSTITUTIONS HIGHLY  
DESIRABLE. STRONGLY RECOMMEND LEO ST. MICHEL TEAM LEADER.  
TEAM SHOULD BE CAPABLE OF PERFORMING SCOPE OF WORK  
INDEPENDENTLY WITH GUIDANCE AND LIAISON WITH USAID/CAIRO  
GOE, AND TO DIRECT HIRE STAFF FROM AID/W. PROJECT ELEMENT  
WILL BE UNDER DIRECTION OF DRPS/UAD.

C. PROFESSIONAL SERVICES PROVIDED IN THE U.S. WILL BE  
MANAGED BY S AND T/HEALTH IN CLOSE COLLABORATION WITH  
NE/TECH AND MISSION.

D. PROPOSED LEVEL OF EFFORT OF PROFESSIONAL SERVICES  
PROVIDED IN THE U.S. IS 30 PERSON DAYS DURING A TWO  
MONTH PERIOD BEGINNING O/A JANUARY 4, 1982.

5. SCOPE OF WORK:

WORKING WITHIN THE GENERAL FRAMEWORK DESCRIBED IN THE  
"TERMS OF REFERENCE AND SCOPE OF WORK" FOR THE UNSEWERED  
AREAS OF THE CAIRO SEWERAGE PROJECT (263-0091), THE  
WASH ADVANCE TEAM WILL PREPARE AN OVERALL IMPLEMENTATION  
PLAN FOR PILOT DEMONSTRATIONS OF IMPROVED EXCRETA AND  
WASTEWATER DISPOSAL METHODS IN AREAS OF GREATER CAIRO  
SITUATED IN GIZA GOVERNORATE. THIS PLAN WILL INCLUDE

BUT NOT BE LIMITED TO THE FOLLOWING COMPONENTS; (A)  
ESTABLISH GENERAL CRITERIA FOR THE SELECTION OF  
UNSEWERED AREAS AND DELINEATE THEM ON A LARGE SCALE  
MAP; (B) ESTABLISH SPECIFIC CRITERIA FOR THE SELECTION  
OF PILOT DEMONSTRATION SITES WITHIN UNSEWERED TARGET  
AREAS IN GIZA GOVERNORATE AND DELINEATE RECOMMENDED  
SITES ON SMALL SCALE MAPS; (C) DEVELOP A METHODOLOGY  
FOR COLLECTING INFORMATION ON AND ANALYZING EXISTING  
METHODS OF COLLECTING, TREATING AND DISPOSING OF  
EXCRETA AND WASTEWATER IN AND ADJACENT TO PROPOSED  
PILOT DEMONSTRATION SITES; (D) DEVELOP A METHODOLOGY  
FOR IDENTIFYING, SELECTING, DESIGNING, IMPLEMENTING  
AND EVALUATING A RANGE OF PROMISING IMPROVED METHODS FOR  
THE COLLECTION, TREATMENT AND DISPOSAL OF EXCRETA AND  
WASTEWATER IN UNSEWERED AREAS; AND (E) DEVELOP OVERALL  
LEVELS OF MANPOWER, COMMODITY AND LOGISTICS REQUIREMENTS,  
ORGANIZATIONAL FRAMEWORK AND IMPLEMENTATION SCHEDULE FOR  
THIS PROJECT COMPONENT DESCRIBING, TO THE EXTENT POSSIBLE  
THE NUMBER, SIZE AND LOCATION OF PROPOSED TEST DEMONSTRATION  
SITES, GENERAL DESCRIPTIONS OF IMPROVED TEST  
DEMONSTRATION METHODS TO BE EMPLOYED, THE TYPES AND  
QUANTITIES OF HUMAN, MATERIAL AND INSTITUTIONAL  
RESOURCES REQUIRED AND A PROPOSED ACTION PLAN FOR THE  
TIMELY PROVISION OF THESE INPUTS (F) DEVELOP COST  
PROPOSAL BROKEN DOWN INTO FOREIGN EXCHANGE AND LOCAL  
CURRENCY IN SUFFICIENT DETAIL TO BE USED AS A BASIS FOR  
COMMITMENT OF PROJECT FUNDS. WORK ORDERS 2 AND 3A ON  
CAIRO SEWERAGE PROJECT CAN BE USED AS A GUIDE.

6. MISSION REQUESTS JOSEPH HARATANI, NE/TECH/HPH, TO  
ACT AS LIAISON WITH WASH PROJECT MANAGER, VICTOR  
WEHMAN, S AND T/HEALTH, TO PROVIDE ANY ADDITIONAL  
INFORMATION HELD IN AID/W AND TO DESCRIBE  
STRATEGY. ANY SCOPE OF WORK IS TO BE REVIEWED AND



OTD #92

May 4, 1982

Technical Assistance for Workshop on Water  
Supply and Sanitation for Rural Dispersed  
Populations - Tunisia

USAID/Tunis requested WASH planning and implementation support for a Tunisian Workshop on Water Supply and Sanitation for Rural Dispersed Populations in Arid Countries. The purpose of the Workshop is to exchange information and experience on rural water services, on technologies for disinfection at water points and in homes, and on equipment and fittings for use at water points, including handpumps, and on essential related activities. Workshop outputs are expected to include recommendations for action and training in the format of an execution plan and creation of a network of professionals in Tunisia and Franco-phone Africa.

For further information, contact Dr. R. Isely.

Up to sixty person days of effort, forty-five person days of domestic/international per diem and four international round trips are authorized. Local secretarial, graphics and reproduction services as required, are authorized, as is up to \$3,000 for development and printing/support services for the Workshop. Rental of Workshop facilities, exhibit area and meeting rooms for up to five days, and local travel up to \$1,600 are also authorized.

JEB/CIC  
5/28/82

1/10/82 4

WATER AND SANITATION FOR HEALTH (WASH) PROJECT  
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 92  
May 4, 1982

TO: Dennis Warner, Ph.D., P.E.  
WASH Contract Project Director

FROM: Victor W.R. Wehman, Jr., P.E., R.S. C  
A.I.D. WASH Project Manager  
A.I.D./S&T/H/WS

SUBJECT: Provision of Technical Assistance Under WASH Project Scope of Work for U.S. A.I.D./Tunisia (Tunis) for Tunisian Workshop on Water Supply and Sanitation for Rural Dispersed Populations in Arid Francophone Countries

REF: A) WASH Telex No. 188, dated 30 Apr 82  
B) Tunis 2978, dated 16 Apr 82  
C) Tunis 1983, dated 16 Mar 82  
D) Tunis 1947, dated 15 Mar 82  
E) WASH Telex No. 172, 10 Mar 82  
F) Tunis 1558, dated 1 Mar 82  
G) Young/Wehman Two-Way Government Memo, dated 18 Feb 82

1. WASH contractor requested to provide technical assistance to U.S. A.I.D./Tunisia as per Reference B, paragraph 2-3 and Reference C, paragraph 3.
2. WASH contractor/subcontractor/consultants authorized to expend up to 60 (sixty) person days of effort over a 6 (six) month period to accomplish this technical assistance effort.
3. Contractor authorized up to 45 (forty-five) person days of international and/or domestic per diem to accomplish this effort.
4. Contractor to coordinate with NE/TECH/HNP (J. Haratani, 632-0215), NE Tunisia Desk Officer and NE/PD/ENGR (James Habron). The above should receive copies of this OTD along with information on progress and ETAs as they are appropriate. Reports on this activity should go to these individuals as well as to U.S. A.I.D./Tunisia.
5. Contractor authorized to provide up to 4 (four) international round trips from consultants' home base to Tunisia and return to home base through Washington, D.C. during life of OTD.
6. Contractor authorized local travel within Tunisia as necessary and appropriate to carry out technical assistance effort NTE \$1,600 (one thousand six hundred) without written approval of A.I.D. WASH Project Manager.
7. Contractor authorized to obtain secretarial, graphics or reproduction services in Tunisia as necessary to accomplish technical assistance effort. Mission encouraged to support WASH project representative(s) with Mission personnel support resources to maximum extent possible within practical limits of U.S. A.I.D. resources.

8. Contractor authorized to expend up to \$3,000 (three thousand) for the training materials for the development or printing/support services associated with the workshop to be given. If more resources under this paragraph are necessary, they must be justified to and approved by A.I.D. WASH Project Manager.
9. Contractor authorized to rent workshop facilities for maximum period of up to 5 (five) days to include exhibit area, workshop plenary meeting room and several small group rooms. No meals or snacks/coffee may be purchased with WASH funds.
10. WASH project not repeat not authorized to pay for any participant travel, per diem or miscellaneous participant expenses at workshop. All participants except WASH trainers must be supported by their sponsoring organizations or by themselves.
11. Contractor authorized to provide for car/taxi/bus rentals if necessary to facilitate training effort. It may be necessary to take participants from workshop site to field trip. Vehicle costs for such trips will be paid by WASH project. Mission is encouraged to provide Mission vehicles if available.
12. WASH contractor will adhere to normal established administrative and financial controls as established for WASH mechanism in WASH contract.
13. WASH contractor should definitely be prepared to administratively or technically backstop field consultants and/or subcontractors as appropriate. Contractor should ensure the formalization of contacts with a reliable Tunisia counterpart organization or individuals capable of working in French/English to serve as detail facilitator for workshop and field visits.
14. Contractor to prepare final draft report after workshop and turn in to Mission before leaving. Obviously there are many coordination/planning documents that WASH contractor will need to provide to U.S. A.I.D./Tunis and GOT/UiI/other participants/developers of the workshop. Final report of workshop due to U.S. A.I.D./Tunis within 30 (thirty) days of training workshop training team return to U.S.
15. Mission should be contacted immediately and technical assistance initiated as soon as practical to U.S. A.I.D./GOT.
16. Appreciate your prompt attention to this matter. Good luck!



A

WUI OR  
11129  
NASHATD 04552

TELUS 002 1400 04/30

LT

MS. DOROTHY YOUNG  
OFFICE OF RURAL DEVELOPMENT  
USAID  
AMBASSY  
TUNIS  
TUNISII.

OUR CABLE NO. 158

TO: DOROTHY YOUNG

FROM: R.E. 19117

ARRIVAL PLANNED FOR MAY 23 AT 16:10 VIA TD 2793.  
PLEASE ARRANGE RESERVATION DOMESTIC. OFFICIAL CABLE EN ROUTE  
SEEKING CLEARANCE.

REGARDS

KNNH  
ACCEPTED 111 179 BEING PROCESSED

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Department of State

TELEGRAM

PAGE 01

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1646 068403 AID070

ACTION AID-35

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ACTION OFFICE STHE-01

INFO AANE-01 NETC-04 NENA-03 AAST-01 RELO-01 MAST-01

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INFO OCT-00 AMAD-01 /036 W

-----026406 191009Z /33

P 1611603Z APR 82

FM AMEMBASSY TUNIS

TO SECSTATE WASHDC PRIORITY 7236

UNCLAS TUNIS 2973

AIDAC FOR WEHMAN. ST/HEA

E.G. 12065: N/A

SUBJ: RAY ISELY TRIP TO AERICA

REF: STATE 100911

1. ATTALLAH HAS COMPLETED ROUND OF MEETINGS WITH GOT INSTITUTIONS INTERESTED IN PROPOSED WATER SUPPLY CONFERENCE. LIST OF PARTICIPANTS, LOCATIONS, DATE AND OTHER DETAILS HAVE BEEN DECIDED BY CONFERENCE COMMITTEE AND ACCEPTED BY MINISTER.
2. ATTALLAH WELCOMES ISELY VISIT TO PURSUE CONTACTS AND ASSIST IN CONFERENCE ORGANIZATION. ISELY VISIT PREFERABLE DURING ATTALLAHS AVAILABILITY BETWEEN APRIL 24-MAY 5 OR AFTER MAY 22ND. ATTALLAH WILLING PROVIDE LOGISTICAL SUPPORT DURING ISELY VIST.
3. PLEASE CONFIRM ETA AND DR. ISELYS ABILITY TO FUNCTION IN FRENCH WITHOUT INTERPRETER. CUTLER

*Rec'd ST/HEA (Wehman) 4-20-82  
 Passed to WASH 4-20-82*

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ACTION  
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INCOMING  
TELEGRAM

PAGE 01 TUNIS 01983 161201Z  
ACTION AID-35

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TUNIS 01983 161201Z

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ACTION OFFICE STHE-01  
INFO NEPD-04 NEDP-02 METC-04 NENA-03 AAST-01 ENGR-02 HNS-09  
RELO-01 DAEN-01 MAST-01 /029 A4 816

INFO OCT-00 AMAD-01 ICAE-00 /036 W  
-----317045 161213Z /38

P 160349Z MAR 82  
FM AMEMBASSY TUNIS  
TO SECSTATE WASHDC PRIORITY 5869

UNCLAS TUNIS 1983

AIDAC FOR WENMAN ST/HEA

E.O. 12055: N/A  
SUBJ: WATER SUPPLY CONFERENCE

REF: TUNIS 1558

1. SUMMARY: PROPOSED CONFERENCE IN STATE OF CONCEPTUALIZATION AND PRELIMINARY CONSULTATION WITHIN GOV MINISTRY OF PUBLIC HEALTH AND BETWEEN MOPH AND OTHER POTENTIALLY INTERESTED GOV AND MULTINATIONAL INSTITUTIONS.

2. DURING MARCH 3 MEETING WITH USAID, MOPH REPRESENTATIVE ATTALLAH REPORTED MINISTER HAS APPROVED THE CONCEPT OF PROPOSED CONFERENCE AND AUTHORIZED ITS ORGANIZATION. ATTALLAH WILL NOW CONTACT OTHER MOPH DIVISIONS, MINISTRY OF AGRICULTURE AND NATIONAL PUBLIC WATER WORKS COMPANY SONEDE TO DETERMINE IF RESPONSE AND INTEREST SUFFICIENTLY STRONG TO WARRANT PROCEEDING. IF RESPONSE POSITIVE, WILL ORGANIZE CONFERENCE COMMITTEE, EXPLORE LOGISTICS WITH MOPH DIRECTOR FOR INTERNATIONAL COOPERATION, DAGHFOUS, AND THEN CONVOKE COMMITTEE FOR PLANNING SESSIONS AND TO DRAFT TERMS OF REFERENCE.

3. FOLLOWING OUTLINES ATTALLAH'S THINKING ON CONFERENCE:

- A. PURPOSE: EXCHANGE OF INFORMATION AND EXPERIENCE ON SUBJECT OF RURAL WATER SERVICES AND TECHNOLOGIES FOR DISINFECTION AT WATER POINTS AND DOMICILE AND EQUIPPING OF WATER POINTS (HANDPUMPS OR OTHER DEVICES).
- B. OUTPUTS: RECOMMENDATIONS FOR ACTION AND TRAINING TO BE FOLLOWED UP THROUGH CONTACTS DEVELOPED AT CONFERENCE, PARTICULARLY THROUGH THE PROFESSIONAL NETWORK WHICH WE HOPE TO SEE GROW BOTH INSIDE AND OUTSIDE TUNISIA.
- C. LENGTH: THREE-FOUR DAYS.
- D. LOCATION: TUNIS.
- E. PARTICIPANTS: IN ADDITION TO THOSE MENTIONED IN CORRESPONDENCE, WOULD LIKE TO HAVE FRANCOPHONE SUBSAHARAN AFRICAN PARTICIPANTS FROM COUNTRIES OR PROJECTS IN WHICH COMMUNITY PARTICIPATION CONTRIBUTED TO PROJECT SUCCESS. WOULD LIKE EXPLORE POSSIBILITY COMMERCIAL EXPOSITION DURING AND POSSIBLY AT CONFERENCE SITE OF DISINFECTION DEVICES AND PRODUCTS AND WATER POINT EQUIPMENT.
- F. BUDGET: GOV CONTRIBUTION LIKELY TO BE LIMITED. THEY CANNOT FUND ACCOMMODATIONS, TRAVEL EXPENSES, GUEST SPEAKERS. ATTALLAH WILL ASSESS POTENTIAL CONTRIBUTION UNDP, WHO, UNICEF AND GOV MINISTRIES. USAID BRIEFED HIM ON TYPES ACTIVITIES FUNDABLE UNDER WASH.

G. AID PARTICIPATION: LIKELY MOPH WILL REQUEST SERVICES OF CONSULTANT TO ASSIST IN CONFERENCE PLANNING AND PREPARATION AND FOLLOW-UP ASSISTANCE IN CONDUCTING CONFERENCE.

4. USAID WILL ADVISE ST/HEA OF RESULTS ACTIONS LISTED ABOVE. CUTLER

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PAGE 01  
ACTION AID-35

7988 041221 AID2630

D.C.

ACTION OFFICE NETC-04  
INFO NENA-03 AAST-01 STHE-01 HHS-09 RELO-01 TELE-01 MAST-01  
/021 A2 X15

INFO OCT-00 OIC-02 NEA-07 AMAD-01 CCO-00 PASO-00 OES-09  
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R 151042Z MAR 82  
FM AMEMBASSY TUNIS  
TO SECSTATE WASHDC 6852

*Rosen  
for file*

UNCLAS TUNIS 1947

E. O. 12065: N/A  
AIDAC, DIRECT RELAY  
TO: RAYMOND ISELY  
WATER AND SANITATION FOR HEALTH PROJECT (WASH)  
1611 N. KENT STREET, RM. 1002  
ARLINGTON, VA. 22209  
TEL: (703) 243-8200  
TELEX: WUI 64552

1. APPRECIATE KNOWING YOUR AVAILABILITY TO ASSIST MOPH IN PLANNING PROPOSED WATER SUPPLY AND SANITATION CONFERENCE.
2. AS OUTLINED IN RECENT USAID TELEGRAM TO ST/HEA, CONFERENCE PROPOSAL IN STAGE OF CONCEPTUALIZATION. MOPH REPRESENTATIVE ATTALLAH IS CURRENTLY DISCUSSING IDEA WITH OTHER MOPH DIVISIONS, MINISTRY OF AGRICULTURE, AND WITH PUBLIC WATER WORKS COMPANY SONEDE AND ASSESSING THEIR INTEREST AND DETERMINING THEIR PARTICIPATION. USAID WOULD LIKE TO DEFER FURTHER ACTION UNTIL THESE DETERMINATIONS MADE.
3. IF MOPH DECIDES TO PROCEED WITH CONFERENCE ORGANIZATION AND SOLICITS ASSISTANCE IN CONFERENCE PLANNING, USAID WILL IMMEDIATELY COMMUNICATE INFORMATION TO ST/HEA.  
USAID MISSION  
AMERICAN EMBASSY  
TUNIS, TUNISIA CUTLER

NOTE BY OC/T: PASSED ABOVE ADDRESSEE.

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JUL 8A  
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WASHDC 64552

TELE 014 1356 03/10

LT

USAID MISSION  
C/O AMERICAN EMBASSY  
144 AVENUE DE LA LIBERTE  
TUNIS  
TUNISIA

ATTN: MS. DOROTHY YOUNG

FROM : RAYMOND ISELY, WASH

OUR CALL NO. 172

HAVE RECEIVED SATYHEA REQUEST FOR WASH PROJECT TO ASSIST IN PLANNING WATER SUPPLY AND SANITATION WORKSHOP IN SEPTEMBER. SATYHEA SUGGESTS VISIT BY DR. RAYMOND ISELY ASSOCIATE DIRECTOR OF WASH PROJECT TO HELP PLAN THIS WORKSHOP. VISIT HOPEFULLY WOULD BE PRODUCTIVE OF A DETAILED PLAN, A SET OF MUTUALLY ACCEPTABLE OBJECTIVES, AND DETAILS OF IMPLEMENTATION INCLUDING ASSIGNMENT OF RESPONSIBILITIES, DETERMINATION OF SITE, FACILITATORS RESOURCE PERSONS, AND INVITEES.

PROPOSE TWO ALTERNATIVE PERIODS FOR ISELY VISIT EACH OF TWO WORKING WEEKS. WOULD APPRECIATE YOUR COORDINATION OF THIS VISIT INCLUDING VISITS AND MEETINGS WITH ALL ESSENTIAL TUNISIAN OFFICIALS SO AS TO ACCOMPLISH ABOVE OBJECTIVES OF VISIT.

PROPOSE EITHER 29 MARCH - 10 APRIL  
OR 12 APRIL - 24 APRIL

PLEASE COMMENTATE YOUR PREFERENCE ASAP.

RAYMOND ISELY  
ACCEPTED THROUGH BEING PROCESSED

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PAGE 01  
ACTION AID-20

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MAST-01 /018 A4 82

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R 011516Z MAR 82  
FM AMEMBASSY TUNIS  
TO SECSTATE WASHDC 6723

UNCLAS TUNIS 1558

ADMAID

E. O. 12065: N/A

SUBJ : WATER SUPPLY SEMINAR

REFS : (A) STATE 047047 (B) YOUNG TO WEHMAN MEMO FEBRUARY 18

1. USAID WILL REQUEST ST/HEA AND/OR WASH ASSISTANCE TO FUND WATER SUPPLY SEMINAR CITED REF (A).

2. PREPARATION OF TERMS OF REFERENCE DELAYED DUE ATTALLAHSS EXTENDED ABSENCE FROM TUNISIA AS MENTIONED REF (B).

3. DISCUSSIONS WITH ATTALLAH SCHEDULED MARCH 3 FOLLOWING WHICH USAID AND GOT JOINTLY WILL PREPARE TERMS OF REFERENCE.

4. PLEASE INFORM IF THERE IS DEADLINE BY WHICH TERMS OF REFERENCE MUST BE RECEIVED IN ST/HEA. CUTLER

UNCLASSIFIED

124

UNITED STATES GOVERNMENT

2-Way Memo

6

CC Subject:

(CIT) Local Manufacture of Handpumps  
Publication: Pompe a Main

DATE OF MESSAGE
18 February 1982
DATE OF REPLY
<b>INSTRUCTIONS</b>
Use routing symbols whenever possible.
<b>SENDER:</b> Forward original and one copy. Conserve space.
<b>RECEIVER:</b> Reply below the message, keep one copy, return one copy.

To:  
→

Vic Wehman

FOLD

USE BRIEF, INFORMAL LANGUAGE

FOLD

Vic,

We received from Joe Haratani a small quantity of the above referenced book translated to French. I have given five copies to Genie Rural, 3 to CARE, one to the Swedish representative who is arranging the importation of the Petro-pump and drill rig, and one for our office. One was also sent to Sadok Atallah at the Ministry of Public Health. Genie Rural would like twenty (20) additional copies. I questioned them on their need. They want one for each regional office. There are 21 such offices and they feel that the book would be of interest and helpful.

Could you please arrange to have these books shipped to me. Thanks.

On another matter...I have just spoken with Sadok Atallah, recently returned from travel to Canada. He is very keen to get together to work on the details of the proposed symposium and health education-water hygiene-handpump, etc activity which we spoke about in December. The Minister is eager to get this organized ASAP. So, more on that after we meet on March

Finally, I have spoken at length with Lars Gronvist, Swedish consultant who has arranged the Petro-pump deal here and introduced him to Montgomery. They are talking now. Please talk with Montgomery to get the details on that activity.

And finally, finally, enclosed is a copy of an IFB which was in yesterday paper. It will be interesting to see what happens in response. The foot-operated pump is the Vergnet, of course. Louis has taken the AIF handpump forms away from Fonderie Reunie quite by coincidence yesterday; therefore they would be handicapped if they were disposed to respond to this IFB.

Greetings. Sorry about the typos.

From:

Dorothy Young  
Tunis (ID)  
Dept of State  
Wash DC 20520

BEST AVAILABLE COPY

au plus tard le Jeudi  
suivante : District  
1002 Tunis Belvédère  
à l'adresse ci-des-  
sus à 10h.

## Offres

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védère - TUNIS -

et sous pli recomman-  
dés. Directeur de la Sté  
à au plus tard le 28

## CULTURELLES

### Offres

Culturelles se  
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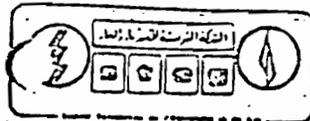
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## Avis d'Appel d'Offres

### EQUIPEMENT DE MICROFICHES — ETAPE II

La Société Tunisienne de l'Electricité et du Gaz, se propose de lancer un appel d'offres pour la fourniture et l'installation d'un équipement de microfiches (COM).

Les fournisseurs intéressés par cet appel d'offres pourront retirer leur dossier à partir du 15-2-1982 à la :  
**SOCIÉTÉ TUNISIENNE DE L'ELECTRICITÉ ET DU GAZ**  
Département Informatique Division ETUDES AVANCEES  
PROJET COM: 38, Rue Kemal Atatürk - TUNIS.

La date limite de retrait des dossiers est fixée au 22-2-1982.

### GOVERNORAT DE MAHDIA

## Avis d'Appel d'Offres

### N° 7/82

Le Gouvernorat de Mahdia se propose de lancer un appel d'offres pour l'acquisition de pompes manuelles ou à pédales pour l'équipement des points d'eau publics de profondeur moyenne 20 m.

Les fournisseurs intéressés par cet appel d'offres sont invités à retirer les pièces écrites de l'Arrondissement du Génie Rural de Mahdia.

L'ouverture des plis aura lieu au Siège du Gouvernorat de Mahdia le 29-3-1982

Les propositions doivent parvenir sous pli recommandés au nom de Monsieur le Gouverneur de Mahdia avant cette date portant la mention « A ne pas ouvrir » « Appel d'offres du 29-3-82 » « Equipement des points d'eau publics »

Le pli devra obligatoirement et sous peine de nullité contenir :

- 1) Un dossier technique descriptif du matériel à fournir rempli et enfermé dans une enveloppe portant le nom du fournisseur
- 2) Un cautionnement bancaire provisoire égale à 1% du montant de la fourniture.
- 3) Une attestation de C.N.S.S. valable le jour de l'ouverture des plis
- 4) Un certificat de non faillite
- 5) Un certificat de la Direction des Impôts

- 24 tabliers blancs pour dames
- 128 vestes blanches pour hommes

Les fournisseurs intéressés doivent offrir (offres sous pli fermé et recommandé par tation « habillement du personnel — Ne l'accompagner d'un échantillon de chaque sé, à la Sous-Direction Commerciale, TUNIS, Centrale Laitière — SIDI BOU ALI au plus tard 2 Mars 1982. Toute soumission non accompagnée de l'échantillon ou parvenue après cette date sera considérée comme nulle. Les fournisseurs retenus pour gagner à accepter des commandes partielles avant le 20 Avril 1982 la totalité des articles seront commandés.



COMPAGNIE  
DES PHOSPHATES  
DE GAFSA

## APPEL D'OFFRES N°

La Compagnie des Phosphates de Gafsa lance un appel d'offres pour l'acquisition de :

- Portique roulant électrique complet suivant spécifications ci-après :
- Force 3 tonnes
- Largeur totale de la zone disponible
- Hauteur du palan au crochet 6000 mm
- Un chemin de roulement suspendu à hauteur min. 6000 mm, l'autre chemin de roulement au sol

La fourniture doit comprendre les poutres - les rails - le chemin de roulement - les galets-accessoires électriques et tous les accessoires nécessaires à sa mise en service

Le fournisseur est tenu de nous présenter :

- Plan d'exécution génie-civil
- Caractéristiques des poutres et chemins de roulement
- Plan de connexions électriques

Les fournisseurs intéressés par cet appel d'offres doivent adresser leurs offres en six exemplaires pliés et scellés au nom de Monsieur le Chef du Département des Marchés 2130 Métaoui à l'adresse ci-après. L'enveloppe extérieure doit porter obligatoirement la mention ci-après :

Soumission pour portique roulant  
Appel d'offres P. 3183

Ne pas ouvrir avant le 12 mars 1982

L'ouverture des plis non publique aura lieu en commission dans les bureaux du Département des Marchés le 12 mars 1982 à 10h

Toute offre parvenue en nos bureaux après cette date ne sera pas prise en considération

La Presse 17 Feb 1982

WATER AND SANITATION FOR HEALTH (WASH) PROJECT  
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 111  
AMENDMENT NO. 1  
24 January 1983

TO: Dr. Dennis Warner, Ph.D., D.E.  
WASH Contract Project Director

FROM: Mr. Victor W. R. Wehman Jr., B.E., R.S.  
AID/S&T/H/WS  
AID WASH Project Manager

SUBJECT: Provision of Technical Assistance Under WASH Project  
Scope of Work for USAID/PC/Morocco (Training)

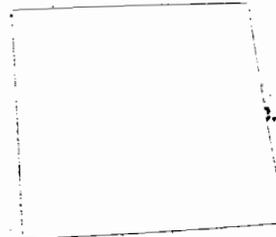
REFERENCE: A) OTD # 111, dated 24 August 1982

1. Para 3 of subject OTD # 111 (Ref A) is cancelled. New para 3 of subject OTD # 111 (Ref A) is now to read as follows:

"3. WASH contractor authorized up to 31 person days of international and domestic per diem to accomplish this effort."

2. Nothing follows.

*BEST AVAILABLE COPY*



1. 1. 1. 1.

WATER AND SANITATION FOR HEALTH (WASH) PROJECT  
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 92  
Amendment No. 1  
September 1, 1982

TO: Dr. Dennis Warner, Ph.D., P.E.  
WASH Contract Project Director

FROM: Mr. Victor W.R. Wehman Jr., P.E., R.S.  
AID WASH Project Manager  
AID/S&T/H/WS

SUBJECT: Provision of Technical Assistance Under WASH Project  
Scope of Work for USAID/Tunisia for Tunisian Workshop on  
Water Supply and Sanitation for Rural Dispersed Populations  
in Arid Francophone Countries

REFERENCES: A) OTD #92, dated 4 May 1982

1. Para 2 of subject OTD #92 (Ref A) is cancelled. New para 2 of subject OTD # 92 is now to read as follows:

"2. WASH contractor/subcontractors/consultants authorized to expend up to one hundred and forty-six (146) person days of effort over an eight (8) month period to accomplish this technical assistance effort."

2. Para 3 of subject OTD #92 (Ref A) is cancelled. New para 3 of subject OTD #92 is now to read as follows:

"3. Contractor authorized up to one hundred and thirty-six (136) person days of international and/or domestic per diem to accomplish this effort."

3. Para 5 of subject OTD #92 (RefA) is cancelled. New para 5 of subject OTD #92 is now to read as follows:

"5. Contractor authorized to provide up to 5 international round trips from consultants home base to Tunisia and return to home base through Washington D.C. during life of OTD."

4. Nothing follows.

WATER AND SANITATION FOR HEALTH (WASH) PROJECT  
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 92  
AMENDMENT NUMBER 2  
November 10, 1982

TO: Dr. Dennis Warner, Ph.D., P.E.  
WASH Contract Project Director

FROM: Mr. Victor W.R. Wehman, Jr., P.E., R.S.  
AID WASH Project Manager  
AID/ST/H/WS

SUBJECT: Provision of Technical Assistance Under WASH Project Scope of  
Work for USAID/Tunisia for Tunisian Workload on Water Supply and  
Sanitation for Rural Disposed Populations in Arid Francophone  
Countries

REFERENCE: A) OTD #92, dated 04 May 1982

1. Para. 8 of subject OTD #92 (Ref. A) is cancelled. New para. 8 of subject  
OTD #92 is now to read as follows:

"8. Contractor authorized to expend up to \$5600 for the training  
materials for the development or printing/support services or  
translation or excess baggage and exhibit materials costs (U.S. to  
Tunisia) associated with the workshop to be given."

2. Para. 9 of subject OTD #92 (Ref. A) is cancelled. New para. 9 of subject  
OTD #92 is now to read as follows:

"9. Contractor authorized to rent workshop facilities for maximum  
period of nine (9) days, (five days for the workshop plus four days  
for pre-workshop training of discussion group leaders and last minute  
coordination/preparation of workshop). These rented workshop  
facilities are to include an appropriate exhibit area, workshop  
plenary meeting room, and several small group discussion rooms. No  
meals or snacks/coffee may be purchased with WASH funds."

3. Nothing follows.



OTD #111

August 24, 1982

**In-Service Training for Peace Corps Volunteers in Rural Potable Water  
Supply Project - Morocco**

AID/Morocco requested WASH for in-service training of approximately 15 Peace Corps Volunteers (PCVs) in the operation and maintenance of water pumping systems for the rural potable water supply project. Since completing initial training under OTD No. 60 in February 1982, PCVs have identified unresolved problems and have expressed a need for technical assistance. The scope of work includes reviewing the situation with PCVs, preparing a work plan and material requirements for in-service training of PCVs, conducting in-service training at selected field sites, and providing assistance in the design of a diesel repair trouble shooting course to be given by others. The consultant will also prepare a report on the first seven months of the program with recommendations for future activities. For further information, contact Mr. F. Rosensweig.

Up to thirty-eight person days of effort, thirty days of international/ domestic per diem and one international air round trip are authorized over a three month period. Local travel, secretarial/graphic support and printing/procurement of training materials, parts and supplies not to exceed \$2,500 are also authorized.

JEB/CIC  
8/27/82

WATER AND SANITATION FOR HEALTH (WASH) PROJECT  
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 111  
August 24, 1982

TO: Dr. Dennis Warner, Ph.D., P.E.  
WASH Contract Project Director

FROM: Mr. Victor W.R. Wehman Jr., P.E., R.S.  
AID WASH Project Manager, S&T/H/WS

SUBJECT: Provision of Technical Assistance Under WASH Project  
Scope of Work for USAID/PC/Morocco (Training)

REFERENCES: A) RABAT 6265, 23 Aug 82  
B) STATE 232586  
C) RABAT 6069, 13 Aug 82  
D) RABAT 5896, 7 Aug 82

1. WASH contractor requested to provide technical assistance to USAID/PC/Morocco as per Ref A, para 1-6 and Ref D, para 2.
2. WASH contractor/subcontractor/consultants authorized to expend up to 38 person days of effort over a 3 month period to accomplish this technical assistance effort.
3. WASH contractor authorized up to 30 person days of international and domestic per diem to accomplish this effort.
4. Contractor to coordinate with USAID/PC/Morocco, PC/W (Mr. Bell), NE/TECH/HPN (Mr. Haratani), Morocco Desk Officer, and S&T/H/WS (Dr. J. Austin) and should provide copies of this OTD along with periodic progress reports as requested by NE Bureau or S&T personnel.
5. Contractor authorized to provide up to one(1) international round trip from consultants home base through Washington D.C. for briefing and preparation to Morocco and return to consultants home base thru Washington D.C. for debriefing and report finalizing.
6. Contractor authorized local travel within Morocco as necessary and appropriate to accomplish effort NTE \$400 without the prior written approval of the AID Project Manager.
7. Contractor authorized to obtain secretarial, graphics, reproduction or technical services in Morocco as necessary to accomplish tasks NTE \$900 without prior written approval of AID WASH Project Manager. These services are in addition to the level of effort specified in para 2 and para 3 above.
8. Contractor authorized to expend up to \$800 for the training materials for the development or printing/support services associated with Ref A para 4.

9. Contractor authorized to provide for car rental if necessary to accomplish technical assistance effort. USAID/PC requested to support consultant to maximum extent possible with vehicle support as appropriate.
10. Contractor authorized to have consultants conduct training programs in various parts of Morocco as appropriate. Contractor authorized to purchase local parts, materials and supplies to be used in the training programs. NTE \$800 without the prior written approval of the WASH Project Manager.
11. WASH contractor will adhere to normal established administrative and financial controls as established for WASH mechanism in WASH contract.
12. WASH contractor should definitely be prepared to administratively or technically backstop field consultants and subcontractors.
13. Contractor to provide coordinated draft report to USAID/PC as per Ref A para 6 and report should fully describe training development and implementation effort that occurred during consultant TDY. Final report due to USAID/PC within 30 days of consultant return to U.S.
14. USAID/PC should be contacted immediately and technical assistance initiated before the end of Sept 82 or as convenient to Mission.
15. Appreciate your prompt attention to this matter. Good luck.
16. New procedures regarding subcontractor cost estimates and justification for selection of consultants/subcontractors remains in effect.

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**INCOMING  
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PAGE 01 RABAT 06265 231249Z  
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ACTION OFFICE STHE-01  
INFO NETC-24 NENA-03 STMD-01 SAST-01 ENGR-02 RELO-01 MAST-01  
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UNCLAS RABAT 6265

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E.O. 12356 N/A  
SUBJECT: WASH PROJECT TECHNICAL ASSISTANCE FOR PEACE CORPS MOROCCO

REF: STATE 232586

SCOPE OF WORK FOR FOLLOW-UP IN-SERVICE TECHNICAL TRAINING  
FOR RURAL WATER SUPPLY PEACE CORPS VOLUNTEERS:

1. THE CONSULTANT WILL HAVE IN-DEPTH DISCUSSIONS WITH PEACE CORPS STAFF AND VOLUNTEERS ON THE EVOLUTION OF THE PROGRAM TO DATE; PAYING SPECIAL ATTENTION TO PROGRESS ACHIEVED; UNRESOLVED PROBLEMS AND THE VOLUNTEERS' NEEDS FOR TECHNICAL ASSISTANCE IN THEIR PROVINCES.
2. THE CONSULTANT, WITH REFERENCE TO THE ABOVE-MENTIONED DISCUSSIONS, AND TO THE ANSWERS TO THE IN-SERVICE NEEDS SURVEY (WASH FIELD REPORT NUMBER 43 PAGE 105), WILL PREPARE A WORK PLAN FOR IN-SERVICE TECHNICAL TRAINING OF VOLUNTEERS. THE WORK PLAN WILL INCLUDE A TIMETABLE OF SITES TO BE VISITED, AN ANALYSIS OF TASKS TO BE ACCOMPLISHED BY PCV'S WITH TECHNICAL ASSISTANCE FROM THE CONSULTANT, AND A PROJECTION OF TECHNICAL PROBLEMS RELATED TO THESE SPECIFIC TASK WHICH MAY BE COVERED IN THEORETICAL TRAINING SESSIONS.
3. THE CONSULTANT WILL IDENTIFY MATERIALS AND EQUIPMENT NEEDED TO CONDUCT THE IN-SERVICE TRAINING, AND ADVISE PC AS TO AVAILABILITY.
4. THE CONSULTANT WILL CONDUCT HANDS-ON IN-SERVICE TRAINING AT THE PROVINCIAL VOLUNTEER WORKSITES SELECTED IN 2 ABOVE.
5. THE CONSULTANT WILL GIVE TECHNICAL ASSISTANCE TO PC STAFF IN PREPARATION FOR THE DIESEL REPAIR TROUBLESHOOTING COURSE TO BE CONDUCTED BY THE LISTER DIESELS SERVICE ENGINEER IN BENI MELLAL PROVINCE, AND WILL BRIEF THE ENGINEER ON APPROPRIATE TRAINING APPROACHES FOR WORK WITH PCV'S.
6. THE CONSULTANT WILL SUBMIT A FINAL REPORT ON THE FIRST SEVEN MONTHS OF THE RURAL WATER PROGRAM, WITH RECOMMENDATIONS FOR ITS FUTURE EMPHASIS.
7. FOR CONSULTANT'S INFORMATION, EXAMPLES OF PROBLEM AREAS SO FAR IDENTIFIED INCLUDED: 1. SILT INFILTRATION OF PUMPING SYSTEM,  
2. TROUBLESHOOTING ELECTRICAL CONTROL BOXES,  
3. IDENTIFICATION OF APPROPRIATELY SIZED PUMPS AND DRIVERS FOR SPECIFIC WATER SOURCES. CURRAN

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PAGE 01

STATE 232586

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APPROVED BY AID/ST/HEA: CAPEASE

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TO AMEMBASSY RABAT PRIORITY

UNCLAS STATE 232586

ADM AID

E. O. 12356: N/A

TAGS:

SUBJECT: WASH TECHNICAL ASSISTANCE FOR PEACE CORPS/  
MOROCCO POTABLE WATER SUPPLY IN-SERVICE TRAINING SEPT 6-30.

REF: RABAT 05896

1. ST/HEA WILLING TO CONSIDER MAKING WASH SERVICES  
AVAILABLE.

2. PLEASE FORWARD DETAILED SCOPE OF WORK FOR THE  
REQUESTED EFFORT.

3. ST/HEA READY TO TAKE ACTION UPON RECEIPT OF ABOVE. SHULTZ

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PAGE 01 RABAT 06069 140909Z

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UNCLAS RABAT 6069

TOPEC

FOR: CDO

FROM: SWEET

E. O. 12356 N/A

1. TOPICS TO BE COVERED BY SHERER INCLUDE:

MAPPING, SURVEYING, PIPE-SIZING, ELECTRIC CONTROL, BOXES  
PUMP INSTALLATION, HOISTING AND SAFETY.

2. SOME OF THESE TOPICS WOULD BEST BE DEALT WITH AT RABAT  
ONEP (OFFICE NATIONAL DE L'EAU POTABLE) TRAINING FACILITY,  
OTHERS IN THE FIELD WITH THE VOLUNTEER(S) AT THEIR SITES.

3. HAVE ALSO ARRANGED TO HAVE LISTER DIESELS SNE SERVICE  
ENGINEER TO HELP WITH TROUBLESHOOTING IN REAL SITUATIONS  
IN BENI MELLAL, PROVINCE, LATER IN SEPTEMBER.

4. SHERER WILL BE WORKING WITH GROUPS OR INDIVIDUALS, SINCE  
EACH PROVINCE HAS ITS OWN CHARACTERISTICS.

5. PLS ADVISE SOONEST HIS AVAILABILITY. THANKS.

CURRAN

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Department of State

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PAGE 01  
ACTION AID-00

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ACTION OFFICE NETC-04  
INFO NEPD-04 NEDP-03 NENA-03 CMGT-02 ENGR-02 IT-06 ATPC-04  
RELO-01 DAEN-01 MAST-01 /031 A4 89

INFO OCT-00 INR-10 EB-08 NEA-07 AMAD-01 /061 W  
-----145443 091010Z /38

P 070830Z AUG 82  
FM AMEMBASSY RABAT  
TO SECSTATE WASHDC PRIORITY 4648

UNCLAS RABAT 5896

AIDAC  
E. O. 12065 N/A  
SUBJECT: W. A. S. H. TECHNICAL ASSISTANCE FOR PEACE CORPS/  
MOROCCO POTABLE WATER SUPPLY IN-SERVICE TRAINING SEPTEMBER  
6-30

1. USAID WOULD LIKE TO ADVISE AID/W THAT PEACE/CORPS/MOROCCO IS PLANNING A SECOND IN-SERVICE TRAINING PROGRAM FOR VOLUNTEERS IN THE RURAL WATER SUPPLY PROJECT. THE FIRST SUCH PROGRAM WAS HELD IN JAN-FEB THANKS TO THE TECHNICAL SERVICES OF KEIGHT SHEPER, A WASH CONSULTANT.
2. PEACE CORPS/MOROCCO BELIEVES ITS PROJECT AND VOLUNTEERS WOULD BENEFIT CONSIDERABLY FROM MR. SHERER'S ASSISTANCE IN THE UP-COMING IN-SERVICE TRAINING PROGRAM. PLEASE ADVISE US IF IT WOULD BE POSSIBLE FOR MR. SHERER TO BE MADE AVAILABLE TO PEACE CORPS ONCE AGAIN UNDER THE AUSPICES OF WASH FOR FIEL D SITE VISITS AND THE ACTUAL TRAINING PROGRAM, SEPTEMBER 6-30.
3. REALIZE TIMING IS SHORT. IF DATES REQUESTED ARE NOT POSSIBLE. PLEASE SUGGEST OTHER DATES MR. SHERER WOULD BE AVAILABLE.  
REED

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OTD #120

September 25, 1982

Technical Assistance in Evaluation of Water Supply, Sanitation and  
Health Aspects of Spring-fed Irrigation Project - Tunisia

USAID/Tunisia requested WASH assistance in conducting an interim evaluation of the water supply, sanitation and health aspects of a spring-fed irrigation project. The evaluation will be undertaken jointly with the Central Tunisia Development Authority and AID. The scope of work includes reviewing relevant documentation, interviewing AID and government officials, visiting sites if practicable, and preparing an evaluation report and recommendations. For further information, contact Dr. R. Isely.

Up to sixteen person days of effort and ten international per diem days are authorized over a four month period. Local travel not to exceed \$400 and up to \$900 for local secretarial, graphics, reproduction and interpreter services are also authorized. (International travel provided under OTD No. 92.)

JEB/CIC  
10/30/82

Water and Sanitation for Health (WASH) Project  
Order of Technical Direction (OTD) Number 120  
September 25, 1982

TO: Dr. Dennis Warner, Ph.D., P.E.  
WASH Contract Project Director

FROM: Mr. Victor W. R. Wehman Jr., P.E., R.S.  
AID WASH Project Manager  
AID/S&T/H/WS

SUBJECT: Provision of Technical Assistance Under the WASH Project Scope of Work  
for USAID/Tunisia

REFERENCES: A) Tunis 5993, dated 11 Aug 82  
B) State 255582, dated 11 Sept 82  
C) Tunis 6893, dated 16 Sept 82  
D) Tunis 7059, dated 21 Sept 82

1. WASH contractor requested to provide technical assistance to USAID/Tunisia as per Ref A, para 1-4 and Ref. B, para 1-3.
2. WASH contractor/subcontractor/consultants authorized to expend up to 16 person days of effort over a four (4) month period to accomplish this technical assistance effort.
3. Contractor authorized up to 10 person days of international per diem to accomplish this effort.
4. Contractor to coordinate with NE/TECH/AGR (Mr. George Armstrong), NE/TECH/HPN (Mr. Joe Haratani), NE/PD/ENGR (Mr. James Habron), USAID/Tunisia (Mr. Frank Kelber—Program Officer and Ms. Dorothy Young—Rural Development Officer) and should provide copies of this OTD along with periodic progress reports as requested by S&T/H or the NE EUR staff.
5. Contractor authorized no repeat no international round trips. Contractors consultant will be in Tunisia in conjunction with separate OTD which will provide authorization for international round trip.
6. Contractor authorized to initiate local travel within Tunisia to view, review and evaluate projects described under Ref. A. Local travel NIE \$400 without the written approval of the AID WASH Project Manager.
7. Contractor authorized to obtain local secretarial, graphics, reproduction or interpreter services in Tunisia as necessary and appropriate to accomplish tasks. These services are in addition to and above the level of effort specified in para 2 and 3 above NIE \$900 without the prior written approval of the AID WASH Project Manager.
8. Contractor authorized to provide for car/vehicle rental if necessary and appropriate to facilitate effort. USAID encouraged to support vehicle needs of WASH consultant and provide vehicles support if available and appropriate.

9. WASH contractor will adhere to normal established administrative and financial controls as established for WASH mechanism in WASH contract.
10. WASH contractor should definitely be prepared to administratively or technically backstop field consultants and subcontractors.
11. Contractor to provide overall final draft coordinated report to USAID/Tunisia before consultant leaves Tunisia. Contractor to provide USAID with final report within 30 days of return of consultants to the U.S.
12. New procedures regarding subcontractor cost estimates and justification of subcontractor and consultants remain in effect.
13. USAID/Tunisia, NE/TECH/AGR and NE/TECH/HPN should be contacted immediately and technical assistance initiated as soon as convenient to USAID.
14. Appreciate your prompt attention to this matter. Good luck.

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PAGE 01 TUNIS 05993 111349Z 8328 013975 AID4975  
ACTION AID-00

ACTION OFFICE STHE-01  
INFO NEPD-04 NEOP-03 NETC-04 NENA-03 PPCE-01 PDPR-01 PPPB-03  
SAST-01 HHS-09 RELO-01 MAST-01 /032 A5 811

INFO OCT-00 NEA-07 AMAD-01 /043 W  
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R 111035Z AUG 82  
FM AMEMBASSY TUNIS  
TO SECSTATE WASHDC 8458

UNCLAS TUNIS 5993

AIDAC FOR VICTOR WEHMAN

E. O. 12356: N/A  
SUBJECT: INTERIM EVACUATION OF SUB-PROJECTS  
664-0312.3 SMALL HOLDER IRRIGATION; 664-0312.2  
DRYLAND RESEARCH

1. USAID IS PLANNING TO UNDERTAKE JOINTLY WITH THE CTDA (CENTRAL TUNISIA DEVELOPMENT AUTHORITY) IN KASSERINE A MID-PROJECT EVALUATION OF TWO SUBJECT PROJECTS. EVALUATION IS CURRENTLY SCHEDULED TO START AROUND MID NOVEMBER AND LAST FOR ABOUT THREE WEEKS. THE PROPOSED THREE PERSON TEAM IS COMPOSED OF ONE DRYLAND AGRONOMIST, ONE IRRIGATION SPECIALIST AND ONE SOCIOLOGIST/ECONOMIST. SCOPES OF WORKS, FUNDING SOURCES AND MODE OF CONTRACTING WILL BE SENT IN A FOLLOW UP CABLE.
2. REGARDING THE EVALUATION OF THE IRRIGATION SUB-PROJECT, USAID/TUNIS REQUESTS SERVICES OF WASH SPECIALIST IN SOCIAL AND HEALTH BENEFITS WITH EPIDEMIOLOGY BACKGROUND. FRENCH 3 PLUS HELPFUL. HE WILL SERVE IN A FOUR MAN TEAM TO EVALUATE THIS PROJECT.
3. THE REQUESTED SERVICES ARE FOR ONE WEEK CONSULTATION TO EVALUATE AND PROVIDE RECOMMENDATIONS REGARDING WATER SUPPLY, SANITATION AND HEALTH INCIDENCE FROM 18 IMPROVED NATURAL SPRINGS. THE TIMING OF THE CONSULTATIONS CAN BEARRANGED SO AS TO COINCIDE WITH COMPLETION OF RURAL WATER AND SANITATION CONFERENCE TO BE HELD IN KASSERINE NOVEMBER 23-26, 1982 AND THEREFORE TO USE SERVICES OF EITHER PIERRE LEGER, FRED ROSENSWEIG, RAY ISELY, OR OTHER WASH SANITATION EXPERT WHO WILL BE PARTICIPATING IN CONFERENCE.
4. THIS EVALUATION PLAN WAS DISCUSSED WITH ISELY ON MAY 24 IN TUNIS.
5. PLEASE ADVISE WHEN POSSIBLE CANDIDATE IDENTIFIED.  
CUTLER

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Department of State

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PAGE 31 STATE 255582  
ORIGIN AID-00

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INFO NETC-04 NENA-33 SAST-01 ENGR-02 RELO-01 MAST-01 7M-00  
/013 A0

INFO OCT-00 NEA-07 /042 R

DRAFTED BY AID/ST/H/WS, V WEHMAN  
APPROVED BY AID/ST/H, C A PEASE  
AID/NE/TECH, B TURNER (INFO)  
AID/NE/TECH/AD, G ARMSTRONG (PHONE)  
AID/NE, K EIL (PHONE)

-----311410 110715Z /38

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FM SECSTATE WASHDC  
TO AMEMBASSY TUNIS PRIORITY

UNCLAS STATE 255582

AIDAC

E. O. 12356: N/A

TAGS:

SUBJECT: INTERIM EVALUATION OF SUB-PROJECTS  
664-0312.3, SMALL HOLDER IRRIGATION; 664-0312.2, DRYLAND  
RESEARCH

REF: A) TUNIS 5993

1. REFERRING REF. A, PARA. 2, ST/H AND WASH PROJECT PLEASED TO PROVIDE WORKSHOP MEMBER SPECIALIST IN SOCIAL AND HEALTH BENEFITS WITH STRONG EPIDEMIOLOGY BACKGROUND FOR A PERIOD OF UP TO 10 DAYS AFTER COMPLETION OF RURAL WATER SUPPLY AND SANITATION CONFERENCE. DR. RAY ISLEY WILL BE EXPERT PROVIDED.
2. PLEASE SEND COPY OF DETAILED PLAN TO WASH OR ST/H/WS (V. WEHMAN) OR PROVIDE COPY TO ISLEY WHEN HE IS IN TUNISIA FOR COORDINATION OF WORKSHOP. EVALUATION PLAN DESCRIBED IN REF. A, PARA. 4 UNCLEAR TO ISELY AND ST/H (WEHMAN).
3. PLEASE PROVIDE DOCUMENT WITH INPUTS/OUTPUTS OF IRRIGATION/SPRING PROJECT DESCRIBED FOR ISELY WHEN HE IS IN TUNISIA. SHULTZ

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*Department of State*

INCOMING  
TELEGRAM

PAGE 01  
ACTION AID-00

TUNIS 07059 212210Z

2854 047244 AID8670

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ACTION OFFICE STHE-01

INFO NETC-04 NENA-03 PPCE-01 PDPR-01 PPPB-03 STAG-02 SAST-01  
ENGR-02 RELO-01 MAST-01 /020 A2 022

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INFO OCT-00 AMAD-01 /036 W

-----326201 220024Z /38

R 211723Z SEP 82  
FM AMEMBASSY TUNIS  
TO SECSTATE WASHDC 8900

UNCLAS TUNIS 7059

AIDAC

EO 12356: NA  
SUBJ: INTERIM EVALUATION OF SUBPROJECTS

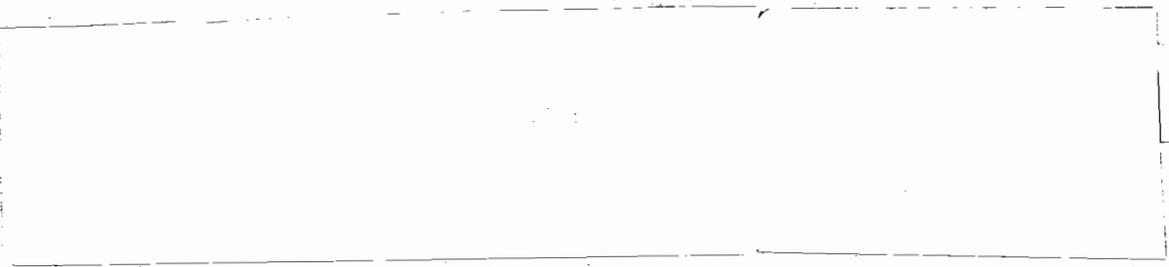
664-0312.3 SMALL HOLDER IRRIGATION

664-0312.2 DRYLAND FARMING RESEARCH

REFS: (A) STATE 255582, (B) TUNIS 6893

PER REFTL (A) PARA 2 SCOPE OF WORK WILL BE DISCUSSED WITH  
ISELY DURING HIS TDY IN TUNIS SEPT 24 TO OCT 2.

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WATER AND SANITATION FOR HEALTH (WASH) PROJECT  
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 120  
AMENDMENT NO. 1  
31 January 1983

TO: Dr. Dennis Warner, P.E.  
WASH Contract Project Director

FROM: Mr. Victor W.R. Wehman Jr., P.E., R.S.  
AID WASH Project Manager  
AID/C&T/H/NS

SUBJECT: Provision of Technical Assistance Under the WASH Project  
Scope of Work for HEATE/Tunisia

REFERENCE: A) OTD # 120, dated 25 Sept 1982

1. Para 2 of subject OTD # 120 (Ref A) is cancelled. New para 2 of subject OTD # 120 (Ref A) is now to read as follows:

"2. WASH contractor/subcontractor/consultants authorized to expend up to 41 person days of effort over a six (6) month period to accomplish this technical assistance effort."

2. Para 3 of subject OTD # 120 (Ref A) is cancelled. New para 3 of subject OTD # 120 (Ref A) is now to read as follows:

"3. Contractor authorized to expend up to 11 person days of international/domestic per diem to accomplish this effort."

3. New para 7.A. to OTD # 120 (Ref A) is now to read as follows:

"7.A. Contractor authorized to perform statistical analysis on data collected in field evaluation of irrigation project NTE \$2500 without the prior written approval of the AID WASH Project Manager."

4. Nothing follows..

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OTD #124

October 24, 1982

Technical Assistance to Assess Solid Waste, Wastewater and  
Water Supply Situation and Requirements - Lebanon

USAID/Lebanon requested WASH assistance to assess the solid waste, wastewater and water supply situation and requirements in Lebanon with emphasis on Metropolitan Beirut. The scope of work includes contacting public, private and foreign organizations active in these subsectors; reviewing their activities and plans; estimating the effectiveness of their individual and collective efforts; and determining areas of need and future resource requirements for the subsectors. From this data the WASH consultants will prepare a suggested action plan, schedule and estimates of resource requirements, and other recommendations as considered appropriate.

For further information, contact Mr. David Donaldson.

Up to one hundred forty person days of effort, one hundred twenty eight days of international/domestic per diem and up to five international air round trips are authorized over a four month period. Local travel expenses and car rental up to \$15,400, up to \$11,500 for interpreter services, up to \$4,200 for secretarial, graphics, reproduction and administrative services, and up to \$6,700 for office space rental are also authorized.

JEB/CIC  
10/31/82

WATER AND SANITATION FOR HEALTH (WASH) PROJECT  
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 124  
October 24, 1982

TO: Dr. Dennis Warner, Ph.D., P.E.  
WASH Contract Project Director

FROM: Mr. Victor W.R. Wehman Jr., P.E., R.S.  
AID WASH Project Manager  
S&T/H/WS

SUBJECT: Provision of Technical Assistance Under WASH Project  
Scope of Work for USAID/Lebanon and NE Bureau

REFERENCES: A) Memo White (A/DLTF) to Wehman (S&T/H/WS) dated  
21 October 1982  
B) State , dated 21 October 1982  
C) Beirut 7344  
D) State 291043

1. WASH contractor requested to provide technical assistance to USAID/Lebanon and Near East Bureau as per Ref A., para A-I.
2. WASH contractor/subcontractor/consultants authorized to expend up to 140 person days of effort over a 4 month period to accomplish this technical assistance effort.
3. Contractor authorized up to 128 person days of international and or domestic per diem to accomplish this effort.
4. Contractor to coordinate with NE/Tech/HNP (J. Haratani), Lebanon Project Development Officer (NE/PD), Lebanon Desk Officer, NE/PD/Engr (J. Habron) and USAID/Lebanon staff as appropriate and should provide copies of this OTD along with periodic progress reports as requested by S&T/H or NE/W or USAID/Lebanon staff.
5. Contractor authorized to provide up to five (5) international round trips from consultants home base through Washington D.C. (for briefings) to Athens Greece to Beirut Lebanon and return to consultants home base through Washington D.C. (for debriefings) during life of this OTD.
6. Contractor authorized local travel within Lebanon as appropriate and necessary to accomplish this technical assistance NTE \$7800 without the prior written approval of the AID WASH Project Manager. USAID/Lebanon and GOL are encouraged to provide technical assistance team with vehicle and logistics support as appropriate and convenient to the USAID or GOL sources.
7. Contractor authorized to obtain interpreter services in Lebanon as appropriate and necessary to provide the technical assistance services effectively and efficiently NTE \$11500 without the written approval of the AID WASH Project Manager. These interpreter services are in addition to the level of effort specified in para 2 and 3 above.

8. Contractor authorized to obtain secretarial, graphics, reproduction, and administrative services as necessary and appropriate to provide effective and efficient technical assistance NTE \$ 4200 without the prior written approval of the AID WASH Project Manager.

9. Contractor authorized to provide for car/vehicle/conveyance rental (not purchase) as necessary and appropriate NTE \$ 7600 without the prior written approval of the AID WASH Project Manager. Contractor authorized logistical support in Lebanon to include the renting of office space within a building, home or other area NTE 800 square feet of space and NTE \$ 6700 without the written approval of the AID WASH Project Manager. Contractor is to document thoroughly the appropriateness of the space rented, and cost of space rental provided. USAID Lebanon and/or GOL is encouraged to provide adequate space for technical assistance team if appropriate and available. These services are in addition to the level of effort specified in para 2 and 3 above.

10. WASH contractor will adhere to normal established administrative and financial controls as established for WASH mechanism in WASH contract.

11. WASH contractor should definitely be prepared to administratively or technically backstop field consultants and subcontractors.

12. Contractor to brief USAID/Lebanon and/or GOL staff in Lebanon at least once every 8 days, regarding progress and findings as tentative as they may be. Team leader should be prepared to brief WASH Project Director and task manager by phone at least once every two weeks or at schedule deemed necessary and appropriate by team leader or WASH Project Director/task manager.

13. As per Ref A, para H., Contractor to prepare and submit to the USAID prior to departure, a draft summary report of the teams findings and recommendations including the basic data obtained in Ref A, para A-E. After review by the USAID and/or GOL a coordinated draft shall be prepared by the team and left with the USAID and GOL. Reports are to be written in English with no translation to other languages without the written approval of the AID WASH Project Manager.

14. USAID/Lebanon, NE/TECH/HNP, NE/PD, ~~NE~~ NE/PD/ENGR and Lebanon Desk Officer should be contacted immediately and technical assistance initiated before the end of October 1982 or as may be of convenience to the USAID.

15. Appreciate your prompt attention to this matter. Good Luck..

UNITED STATES GOVERNMENT

# Memorandum

TO : S&T/HEA, Mr. Victor W. R. Wehman

DATE: 10/21/82

FROM : A/DLTF, Alfred *White*

SUBJECT: Provision of Technical Assistance under WASH Project Scope of Work for AID/Lebanon

This is to request the provision of technical assistance in Lebanon under the WASH project for the following scope of work:

- A. Contact relevant domestic and foreign organizations operating in the waste and water supply subsector.
- B. Describe the purpose/goal of each organization; their institutional, human, technical and material resources, and their present and planned activities in the waste and water supply subsector and to what extent the activities of each organization are being coordinated and by whom.
- C. Conduct an on-the-ground assessment of the status (damage, repair operation and needs) of solid waste, wastewater and water supply systems for the purpose of confirming activity information obtained in Para B above and to identify areas of need.
- D. Determine the level of ongoing response (satisfactory, unsatisfactory, overlap/duplication, no action, etc.) being provided by organizations surveyed above in Paras A and B above.
- E. Identify areas of need in the subsectors (including the need for data collection, coordination, and clearing house functions) and describe recommended course of immediate action consistent with long-term requirements (i.e., wastewater master plan) for each area of need, describe the magnitude of the problem, prepare an implementation schedule and an estimate of institutional, human, technical, material and financial (budget) resources required.
- F. Identify and describe the degree of urgency and magnitude of areas of need which require supplemental (foreign) assistance.
- G. Provide general recommendations regarding the operational steps to be taken next.
- H. Prepare and submit to the Mission prior to departure a draft summary report of the team's findings and recommendations including the basic data obtained in A to E above.



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- I. Travel to AID/W for debriefing, timing to be determined upon team's return.

This scope of work is to be performed by a team of technical experts over a period of up to ten weeks beginning as soon as possible. It is estimated that a maximum of 120 person days will be required to complete the services requested above. The team should have authority to secure clerical, interpreter, transport, logistical, administrative and technical support within Lebanon as deemed necessary to implement this scope of work.

cc:

NE/TECH:KSherper  
NE/TECH/HPN:BTurner  
NE/DP:AGcoch  
NE/PD:DMandel

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OUTGOING  
TELEGRAM

PAGE 01 STATE 297139 1871 071886 AID4287  
ORIGIN AID-00

ORIGIN OFFICE NETC-34  
INFO NEPD-04 AANE-01 NEDP-03 CFDA-02 FM-02 HO-04 STHF-01  
SAST-01 LEBI-02 NEME-03 RELO-01 STHP-01 MAST-01 LFT-01  
3M-03 /031 A0

INFO OCT-00 SS-10 NEA-07 /052 R

DRAFTED BY AID/NE/TECH/HPN: J. HARATANI: L  
APPROVED BY AID/DLTF: A. D. WHITE  
AID/NE/TECH/HPN: B. TURNER (DRAFT)  
AID/NE/ME: T. MILLER (DRAFT)  
AID/NE/PO: D. MANDEL (SUBS)  
AID/NE/TECH: K. SHERPER (INFO)  
AID/NE/PO: P. SELLAR (INFO)  
AID/PRE/HUD: J. GROSSMAN (INFO)  
AID/S&T/HEA: V. WEHMAN (DRAFT)  
AID/CFDA: J. SLUSSER (SUBS)

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P 220151Z OCT 82  
FM SECSTATE WASHDC  
TO AMEMBASSY BEIRUT PRIORITY  
INFO AMEMBASSY DAMASCUS PRIORITY

UNCLAS STATE 297139

AIDAC

E. O. 12356: N/A

TAGS:

SUBJ: HEALTH RELIEF: WASH TEAM

REF: (A) BEIRUT 7344, (B) STATE 291043

1. SCOPE OF WORK: AID/W HAS ADVISED WASH OF POSSIBLE EXPANSION OF STUDY AREA AND EXTENSION OF VISIT. EXPANSION OF STUDY AREA POSES NO PROBLEMS; HOWEVER AID/W RECOMM NDS THAT NEED TO EXTEND VISIT BE DECIDED BY WASH TEAM AND AID/L AFTER SAY FIRST WEEK IN COUNTRY. IF EXTENSION NEEDED, AID/L CAN ADVISE NE/TECH/HPN AND INFO S AND T/HEALTH.
2. TEAM MEMBERS: ROBERT J. KACHINSKY REPLACING CHARLES E. FULLER. KACHINSKY IS VICE PRESIDENT/CDM, RESPONSIBLE FOR TECHNICAL OPERATIONS WORLDWIDE. 20 YEARS EXPERIENCE IN ENVIRONMENTAL ENGINEERING WITH SUBSTANTIAL OVERSEAS EXPERIENCE INCLUDING THE MIDDLE EAST. BOTH KACHINSKY AND ROBERT H. THOMAS ARE PRESENTLY ON TRAVEL STATUS; THEREFORE FURTHER SUBSTITUTIONS MAY BECOME NECESSARY. TO AVOID DELAYS, AID/W REQUESTS AID/L FOR REVIEW/APPROVAL AUTHORITY FOR ANY FURTHER SUBSTITUTIONS.
3. FUNDING: WASH TEAM WILL BE FUNDED FROM AID/W
4. TIMING: WASH ADVISES THAT PRESENT PROPOSED TEAM CAN ETA BEIRUT C/A 11/1/82. SHULTZ

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PAGE 01 BEIRUT 07344 191532Z 7989 068636 AID1296  
ACTION AID-08

BEIRUT 07344 191532Z 7989 068636 AID1296

5. UNEXPLODED ORDNANCE: DCD/EOD TEAM CAN ADVISE WASH TEAM  
UPON ARRIVAL. NOT PERCEIVED TO BE A PROBLEM.  
PUGH

ACTION OFFICE NETC-04  
INFO NEPD-04 NECP-03 OFDA-02 GC-01 GCFL-01 GCNE-01 NO-04  
STHE-01 SAST-01 ENGR-01 LEBI-02 NEME-03 RELO-01 CTHP-01  
DAEN-01 MAST-01 /032 AS 1219

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/072 V

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FM AMEMBASSY BEIRUT  
TO SECSTATE WASHDC PRIORITY 9381

UNCLAS BEIRUT 7344

AIDAC

FOR WHITE, NE/TECH/HPM, AND OFDA

PASS TO STATE/RP/DAS DEWEY

E.O. 12356: N/A  
SUBJECT: HEALTH RELIEF: WASH TEAM

REF: STATE 291043

1. SCOPE OF WORK: AID/L AGREES IN PRINCIPLE WITH SCOPE OF WORK AS DO TOYS LGKEN, COLE, AND CROWLEY. UNICEF FOUND THE SCOPE SATISFACTORY AS FAR AS IT GOES BUT MADE THE RECOMMENDATION THAT SIDON, TYRE, AND DAMOUR IN THE SOUTH ALSO BE INCLUDED. UNICEF ESTIMATES THESE SITES WOULD REQUIRE ONE ADDITIONAL WEEK. WE WILL ALSO HAVE TO REVIEW SCOPE WITH CDR, WHICH MEANS MUHAMMED ATALLAH GIVEN HIS DEEP INTEREST IN SUBJECT. ATALLAH IS ABROAD WITH PRESIDENTIAL PARTY AND CANNOT BE REACHED UNTIL OCTOBER 25 AT EARLIEST. HOWEVER, WOULD NOT BE SURPRISED IF HE WERE ALSO INTERESTED IN EXTENDING THE METHODOLOGY TO SOUTHERN SITES MENTIONED BY UNICEF. THEREFORE, REQUEST AID/STATE, CONSIDER FUNDING IMPLICATIONS (IN THE CONTEXT OF OUR COMMENTS BELOW PARA 3) OF ADDING THESE SITES TO SCOPE USING UNICEF ESTIMATE OF ONE ADDITIONAL WEEK AND PROVIDE ADDITIONAL ITEM FOR SCOPE OF WORK PRIOR TO OCTOBER 25.

2. TEAM MEMBERS: APPEAR EXCELLENT.

3. FUNDING: AID/L SURPRISED AT SUGGESTED CHANGE OF FUNDING SOURCE AT THIS STAGE. MISSICH OFFERED THIS ASSISTANCE TO CDR BASED ON THE ASSURANCE OF CENTRAL FUNDING AND SWIFT RESPONSE. TO NOW ASK CDR TO FOOT THE BILL WOULD BE COUNTER-PRODUCTIVE. USG VISITORS TO LEBANON HAVE ALL MENTIONED INCREASINGLY HIGH ASSISTANCE LEVELS BUT NOTHING NEAR THE MAGNITUDE BEING DISCUSSED HAS ACTUALLY BEEN OBLIGATED. FURTHERMORE, WHAT HAS BEEN OBLIGATED HAS NOT GENERALLY GONE TO THE GOL. WASH TEAM WOULD BE A TANGIBLE DEMONSTRATION OF USG FOLLOW-THROUGH TO GOL DIRECTLY. WATER AND SANITATION REMAIN CRITICAL HEALTH PROBLEMS WHICH AID/L AND RELIEF TEAM VIEW IN RELIEF CONTEXT. COLE SEES NO REASON WHY IDA ACCOUNT CANNOT BE JUSTIFIED, IF NECESSARY. UNLESS ALL WASH TEAM VISIT ISSUES WERE RESOLVED WITH ATALLAH DURING HIS OCTOBER 19 WASHINGTON VISIT, THE FUNDING ISSUE CAN LOGICALLY BE EXPECTED TO COME UP WHEN WE CLEAR THE SCOPE OF WORK WITH CDR. WE URGE ASSURANCE BEFORE OCTOBER 25 THAT WASH TEAM CAN BE CENTRALLY FUNDED.

4. TIMING: IF FUNDING ISSUE CAN BE EXPEDITIOUSLY SETTLED, WE WOULD HOPE TEAM COULD ARRIVE IMMEDIATELY AFTER THE WORKSCOPE HAS BEEN AGREED TO BY CDR AND A DECISION MADE ON THE ADDITIONAL SITES MENTIONED PARA 1.

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OTD #134

February 10, 1983

Development of Solid Waste Disposal Plan for Beirut  
and Other Areas in Lebanon - Lebanon

AID/Lebanon requested WASH technical assistance in developing, with Mission, Near East Bureau and Lebanon Government staff, an environmentally sound "Plan of Action" to stop the continuing pollution of the Mediterranean from improper solid waste dumping. The scope of work includes consideration of closing the Normandie dump site, enclosing others, reassigning dump locations to maximize the use of environmentally safe disposal areas, and development of a comprehensive program for the collection and handling of solid waste from Beirut. The Plan will incorporate a description of steps taken, identification of the organizations responsible and sources of funding for each step, and a proposed implementation time table. The Plan is required by AID under the recently authorized Potable Water and Environmental Sanitation Sector Project and will complement the existing National Waste Management Plan.

For further information, contact Mr. D. Donaldson.

Up to twenty-six person days of effort, twenty-two days of international/domestic per diem and one international air round trip are authorized over a three month period. Local travel expenses up to \$1,600 and secretarial, graphics and reproduction expenses up to \$2,800 are also authorized.

JEB/CIC  
2/14/83

WATER AND SANITATION FOR HEALTH (WASH) PROJECT  
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 134  
10 February 1983

nc.

TO: Dr. Dennis Warner, P.E.  
WASH Contract Project Director

FROM: Mr. Victor W. R. Wehman Jr., P.E., R.S.  
AID WASH Project Manager  
AID/S&T/H/WS

SUBJECT: Provision of Technical Assistance Under WASH Project  
Scope of Work for USAID/Lebanon and NE/PD

REFERENCE: A) Memo Freundlich/Wehman dated 8 February 1983  
B) Beirut 1069, dated 28 Jan 1983

1. WASH contractor requested to provide technical assistance to USAID/Lebanon and NE/PD as per Ref A and Ref B para 2-3. Contractor's consultant will work under the direct supervision of NE/PD officer Mr. Steven Lintner during this activity. Mr. Lintner will work with WASH consultant in Lebanon on this activity.
2. WASH contractor/subcontractor/consultants authorized to expend up to 26 person days of effort over a three (3) month period to accomplish this technical assistance.
3. Contractor authorized to expend up to 22 person days of international/domestic per diem to accomplish this effort.
4. Contractor to coordinate with NE/PD (Steven Freundlich and Steven Lintner), NE/TECH/HNP (Barbara Turner), NE Bureau Lebanon Desk Officer, NE/PD/ENGR (James Habron) and should provide copies of this OTD along with periodic progress reports as requested by NE Bureau and/or S&T/H/WS staff.
5. Contractor authorized to provide up to one (1) international round trip from consultants home base to Washington D.C. (for briefing) to Lebanon and return to consultants home base through Washington D.C. (for debriefing and possible planning meetings).
6. Contractor authorized local travel within Lebanon as necessary and appropriate to accomplish technical assistance effort NTE \$1600 without the prior written approval of the AID WASH Project Manager.
7. Contractor authorized to obtain necessary secretarial, graphics, reproduction and/or local professional services as necessary and appropriate to accomplish this scope of work NTE \$2800 without the prior written approval of the AID WASH Project Manager.

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8. Contractor authorized to provide for local car or vehicle rental or hire as necessary and appropriate to accomplish this technical assistance effort. USAID/Beirut is encouraged to support consultant and team if vehicles available and appropriate.
9. WASH contractor will adhere to normal established administrative and financial controls as established for WASH mechanism in WASH contract.
10. WASH contractor should definitely be prepared to administratively or technically backstop field consultants and subcontractors.
11. New Procedures relating to Subcontractor cost estimates and contractor justification for use of consultants remains in effect.
12. Contractor to provide field draft coordinated report to USAID/Lebanon before consultant returns to U.S. Final report due to USAID/Lebanon, NE/PD and S&T/H/WS within 30 days of return of consultant to the U.S.
13. Mission and NE/PD staff should be contacted immediately and technical assistance initiated before 14 February 1983.
14. Appreciate your prompt attention to this matter. Good luck.

MEMORANDUM

Date: February 8, 1983

To: S&T/HEA: Victor Wehman

From: NE/PD/MENA: Steven J. Freundlich *SJF*

Subject: Request for the services of Max Clark under the WASH Project

Per our phone conversation of February 7, 1983 the following "Terms of Reference" apply to the proposed TDY services of Mr. Max Clark under the WASH Project.

The AID/Lebanon mission has requested the services of Mr. Clark as part of a two person team that will be in Beirut, Lebanon for up to three weeks. The other member of the team will be the Near East Bureau Environmental Coordinator, Mr. Stephen Lintner. The Team will work with the Government of Lebanon and AID/Lebanon on the development of an environmentally sound "Plan of Action" to stop the continuing pollution of the the Mediterranean Sea which is emanating from improper dumping of solid wastes at various points along the coast of Lebanon. This Plan is required, by AID, as a Condition Precedent to the disbursement of funds under the recently authorized Potable Water and Environmental Sanitation Sector Project #268-0330.

It is envisioned that such a Plan will include a program to;

- a) close the Normandie dump site,
- b) provide enclosures for the Dawra and other relevent dump sites throughout Lebanon, based on the National Waste Management Plan,
- c) reassign the dumping locations for various municipalities in order to maximize the use of environmentally safe disposal areas such as the Qarantina Plant, and
- d) develop a overall plan for the collection and handling of solid waste in Beirut.

The Plan will also incorporate a description of the steps to be taken, identification of the organizations responsible for each step, identification of the sources of funding for the implementation of each step of the Program, and a proposed time table for the implementation of the program.

The Mission has requested that Mr. Clark arrive in Beirut on February 14, 1983 in order to begin work on this urgently needed Plan as soon as possible. Mr. Lintner plans on arriving in Beirut on/about February 18, 1983. The Mission envisions that the Team's work will require a minimum of two weeks and a maximum of three weeks. The Mission will provide the Team with the necessary logistical support during its time in Lebanon.

Attachment:  
Beirut 01069

Clearances:  
NE/PD: S. Lintner (draft)  
NE/PD/MENA: D. McCall (draft)  
NE/PD/ENGR: F. Montanari (draft)

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Drafter: NE/PD/MENA: S. Freundlich/sjf

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BE-RUT 01269 01 OF 02 201533Z 0611 042613 A107760

ING ORGANIZATION (E.G. CDR, OFFICE DES EAUX DE BEIRUT, CEB), MUNICIPALITY OF BEIRUT, OTHER MUNICIPALITIES, MINISTRY OF INTERIOR, MINISTRY FOR HYDRAULIC AND ELECTRIC RESOURCES.) THIS GROUP SHOULD PROVIDE TECHNICAL FOR QUICK REVIEW AND APPROVAL OF GRANT AGREEMENT GROUP WILL BE ESPECIALLY IMPORTANT IN PREPARING SOLID WASTE DISPOSAL PLAN AND WILL BE USED TO REVIEW SCOPE OF WORK FOR COM AND SUBSEQUENT CONTRACTS.

ACTION OFFICE NEPO-21  
INFO NEOP-03 NETC-04 PPOE-01 POAR-01 PPRP-03 GC-01 GCFL-01  
GCHE-01 C-01 CMGT-02 CHE-02 STMD-01 ENCR-01 NEME-03  
STEN-01 RELO-01 TELE-01 CAEN-01 MAST-01 LTF-01  
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TO SECSTATE WASHDC IMMEDIATE 1352  
AMEMBASSY AMMAN IMMEDIATE

UNCLAS SECTION 21 OF 02 BEIRUT 01269

AIDAC

AMMAN FOR RLA

E.O. 12333: N/A  
SUBJECT: POTABLE WATER AND ENVIRONMENTAL SECTOR  
- PROJECT (258-0330)

REF: STATE 025705

1. SCHEDULE BELOW IS MISSION'S BEST ESTIMATE OF STEPS AND TIME REQUIRED TO EXECUTE GRANT AND INITIATE PROJECT IMPLEMENTATION:

A. 1/28 - BEIRUT GARBAGE TRUCK SPECS CABLED TO AID/W FOR REVIEW.

B. 2/1 - DRAFT GRANT AGREEMENT FORMALLY TRANSMITTED TO CDR.

C. 2/2 - MISSION AND CDR BEGIN DISCUSSIONS ON DRAFT AGREEMENT AND TECHNICAL GROUP COMPOSITION

D. 2/4 - TECHNICAL GROUP CONVENED TO DISCUSS DRAFT GRANT AGREEMENT, ENVIRONMENTAL PLAN PREPARATION AND SCOPE OF WORK FOR COM.

E. 2/5 - TOY OFFICER(S) ARRIVE TO ASSIST WITH ENVIRONMENTAL PLAN.

F. 2/7 - MISSION AND CDR REVOKLNUF DVOPO ON GRANT AGREEMENT; TECHNICAL GROUP COMPLETES REVIEW OF SCOPE OF WORK FOR COM; TOY OFFICER BEGIN WORK WITH TECHNICAL GROUP ON ENVIRONMENTAL PLAN; SER/CM REQUESTS PROFORMA INVOICES FOR GARBAGE TRUCKS.

G. 2/9 - CONTRACT NEGOTIATIONS WITH COM BEGIN.

H. 2/14 - GRANT AGREEMENT EXECUTED; TECHNICAL GROUP COMPLETES FINAL DRAFT OF ENVIRONMENTAL PLAN; MISSION BEGINS NEGOTIATIONS FOR LOCALLY AVAILABLE GARBAGE TRUCKS; CONTRACT EXECUTED WITH COM.

I. 2/18 - ENVIRONMENTAL PLAN AND OTHER CP DOCUMENTS APPROVED BY AID; MISSION CONTRACTS FOR LOCALLY AVAILABLE TRUCKS.

J. 2/21 - AID/W COMPLETES CONTRACTING FOR ADDITIONAL GARBAGE TRUCKS.

2. MISSION IS REQUESTING CDR TO CONVEY TECHNICAL GROUP CONSISTING OF 4 REPRESENTATIVE FROM EACH IMPLEMENT-

3. TO SATISFY C.P. 4.3 A), WE WILL ASK CDR FOR PLAN OF ACTION TO STOP POLLUTION OF THE OCEAN FROM IMPROPER DUMPING OF SOLID WASTE INCLUDING: THE CLOSING OF NORMANDIE DUMP SITE; THE ENCLOSURE OF THE SAARA AND OTHER DUMP SITES; AND THE REASSIGNMENT OF DUMP LOCATIONS FOR VARIOUS MUNICIPALITIES TO MAXIMIZE THE USE OF ENVIRONMENTALLY SAFE DISPOSAL AREAS SUCH AS THE QUARANTINA PLANT. SUCH A PLAN WOULD INCLUDE: A DESCRIPTION OF THE STEPS TO BE TAKEN; IDENTIFICATION OF THE ORGANIZATIONS RESPONSIBLE FOR EACH STEP; IDENTIFICATION OF FUNDING SOURCES FOR THE MEASURES; AND A TIME TABLE. WE WILL NEED ONE TO TWO WEEKS OF TOY HELP TO ASSIST GOI IMPLEMENTING ORGANIZATIONS AND ASSURE THAT THE END PRODUCT IS ACCEPTABLE TO A.I.D. BECAUSE PLAN ENTAILS EXTENSIVE CIVIL WORK TO SECURE DUMPS, CIVIL ENGINEERING EXPERTISE MAY BE REQUIRED IN ADDITION TO ENVIRONMENTAL COORDINATOR STEVE LINTNER. WE WILL RELY ON AID/W JUDGEMENT IN THIS MATTER. SEE PARA ONE FOR TIMING OF TOY.

4. PLEASE ADVISE STATUS OF PREPARATION COM SCOPE OF WORK. WE WOULD LIKE TO PRESENT SCOPE TO TECHNICAL GROUP

FOR REVIEW. HOPEFULLY, NEGOTIATIONS WITH COM CAN BE COMPLETED IN TIME TO PERMIT EXECUTION OF CONTRACT IMMEDIATELY AFTER PROJECTED EXECUTION OF GRANT FEB. 14.

5. SEPTEL TRANSMITTED SPECS FOR MUNICIPALITY OF BEIRUT GARBAGE TRUCKS. SER/CM SHOULD SEEK PROFORMA

BEST AVAILABLE COPY

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ACTION AID-00  
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ACTION OFFICE NEPD-04

INFO NEDP-03 NETC-04 PPCE-01 PDPR-01 PPPB-03 GC-01 GCFL-01  
GCNE-01 C-01 CMGT-02 CNE-02 STMD-01 ENGR-01 NEME-03  
STEN-01 RELO-01 TELE-01 DAEN-01 MAST-01 LTF-01  
/035 A4 828  
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INFO OCT-00 COPY-01 SS-10 NEA-07 AMAD-01 /054 W  
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TO SECSTATE WASHDC IMMEDIATE 1363  
AMEMBASSY AMMAN IMMEDIATE

UNCLAS SECTION 02 OF 02 BEIRUT 01069

INVOICES FOR PROCUREMENT OF TRUCKS ONLY FROM FIRMS  
HAVING SERVICE CAPACITY IN LEBANON. LIKELY DATE FOR  
PLACING FIRM ORDER SHOWN IN SCHEDULE. LOCAL  
PROCUREMENT OF AVAILABLE VEHICLES SHOULD OCCUR AROUND  
SAME TIME. PLEASE PROCESS ADHOC CONTRACTING DELEGATION  
FOR MISSION DIRECTOR. WE WILL HAVE TO IDENTIFY TRUCK  
SIZES, QUANTITIES AND SPECS FOR TRUCKS NEEDED OUTSIDE  
OF BEIRUT WITH TECHNICAL GROUP. WILL ADVISE SOONEST.  
DILLON

UNCLASSIFIED

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OTD #146

March 7, 1983

Design of Research/Action Demonstration  
Study on Community Participation - Tunisia

AID/Tunisia requested WASH planning assistance for the Central Tunisia Development Authority (CTDA). The WASH consultant will assist CTDA in the detailed planning and budgeting of a study designed to demonstrate the impact of community participation on the attainment of water supply, sanitation, and primary health care program objectives. The initial study concept is to take three different groups of communities with varying degrees of historical community participation and assess relative costs, resource utilizations, effectiveness, and impact of community participation activities on program objectives.

For further information, contact Dr. R. Isely.

Up to sixteen person days of effort, twelve person days of international/domestic per diem, and one international air round trip are authorized. Local travel up to \$200 and up to \$600 for secretarial, graphics or reproduction services in Tunisia or at WASH CIC are also authorized.

JEB/CIC  
3/31/83

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WATER AND SANITATION FOR HEALTH (WASH) PROJECT  
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 146  
March 7, 1983

TO: Dr. Dennis Warner, Ph.D., P.E.  
WASH Contract Project Director

FROM: Mr. Victor W. R. Wehman Jr., P.E., R.S.  
AID WASH Project Manager  
AID/S&T/H/WS

SUBJECT: Provision of Technical Assistance Under WASH Project  
Scope of Work for USAID/Tunisia

REFERENCE: A) WASH Telex No. 608, dated 1 Mar 83  
B) USAID/Tunisia Telex, dated 26 Feb 83  
C) USAID/Tunisia Telex, dated 12 Feb 83  
D) WASH Telex No. 537, dated 9 Feb 83  
E) WASH Telex No. 507, dated 17 Jan 83  
F) Letter Young (USAID/Tunisia) to Isely (WASH), dated  
16 Dec 1983  
G) Attachment to Letter in French Young (USAID/Tunisia) to  
Isely (WASH), dated 16 Dec 1983

1. WASH contractor requested to provide technical assistance to USAID/Tunisia as per Ref. G and F.
2. WASH contractor/subcontractor/consultants authorized to expend up to 16 person days of effort over a three (3) month period to accomplish this technical assistance effort.
3. Contractor authorized to expend up to twelve (12) person days of international and/or domestic per diem to accomplish this effort.
4. Contractor to coordinate with NE/TECH/HNP (B. Turner), and Tunisia Desk Officer and should provide copies of this OTD along with any ETA information or interim reports as may be requested by S&T/H/WS or NE Bureau staff.
5. Contractor authorized to provide up to one (1) international round trip from consultants home-base through Washington D.C. to Tunisia and return to consultants home base through Washington D.C. during life of this OTD.
6. Contractor authorized local travel for consultants in Tunisia NTE \$ 700 without the written approval of the AID WASH Project Manager.
7. Contractor authorized to obtain secretarial, graphics or reproduction services in Tunisia or WASH CIC as necessary and appropriate to accomplish tasks. These services are in addition to the level of effort specified in para 2 and 3 above and NTE \$600 without the prior written approval of the AID WASH Project Manager.

(2)

8. Contractor authorized to provide for car or vehicle(s) rental as necessary and appropriate to facilitate effort. USAID/Tunisia and Government of Tunisia strongly encouraged to provide vehicle support for consultant activities if at all possible and if available and appropriate.
9. WASH contractor will adhere to normal established administrative and financial controls as established for WASH mechanism in WASH contract.
10. WASH contractor should definitely be prepared to administratively or technically backstop field consultants and subcontractors.
11. Contractor report on overall progress of activity to be made in writing in the field after conclusion of effort. A draft coordinated report in English is to be left at USAID/Tunisia. Final report due to S&T/H/WS within 30 days of return of consultants to the U.S. Final report to be in English and will be edited and printed by WASH CIC.
12. New procedures regarding subcontractor cost estimates and justification for subcontractor/consultants remain in effect.
13. USAID/Tunisia and persons identified in para 4 above should be contacted immediately and technical assistance initiated as soon as possible.
14. Appreciate your prompt attention to this matter. Good luck.

Mission Spéciale Américaine  
de Coopération Economique  
et Technique en Tunisie

UNITED STATES OF AMERICA  
Special Mission for Economic  
and Technical Coopération  
149, Avenue de la Liberté  
Tunis, Tunisia

البعثة الأمريكية الخاصة للتعاون  
الاقتصادي والفني  
تونس



Dr. Raymond Isely  
WASH  
1611 N. Kent Street, Room 1002  
Arlington, Virginia 22209  
U.S.A.

Dear Ray:

CTDA Experimental Fund manager Mounir Bouraoui visited us on December 15, and gave us the attached "Avant Projet", which he said he developed with you as a follow up to the Water Sanitation Colloquium.

He also informed us that he would welcome your visit for two to three weeks as early as Mid-January 1983.

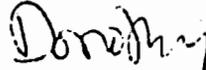
I am sorry I did not get a chance to talk with you before your left and discuss how the "Action-Research" activity would relate to the 3-4 month study which Mr. Atallah would like undertaken to determine what experience exists in Tunisia with community participation and what can be learned from that experience. In our brief discussion of that subject with Bouraoui, we thought that the two could be complementary -- one focussing on a region and the other studying the experience nationwide.

USAID would welcome your assistance to the CTDA to develop an activity under the Experimental Fund. We have alerted Save the Children to the possible activity.? I am sure you and the CTDA staff will want to spend time with them during your visit.

I loaned Mounir a few references that may help him, including the Duncan Miller book. For your information, he apparently did not get for his personal use any of the colloquium documents. I loaned him my copy of the Colloquium guide. When you return to work with him, perhaps you could bring any French reference material that he could use including materials distributed during the Colloquium.

We look forward to knowing if you are able to provide assistance to the CTDA in planning this activity under the Experimental Fund.

Sincerely yours,



Dorothy Young  
General Development Officer

cc: V. Wehman, ST/HEA, AID/W

Republic of Tunisia  
Ministry of Agriculture  
Central Tunisia Office of Development  
Kasserine

Scope of International Conference  
on Drinking Water and Sanitation

Preparatory Study worked out by Dr. Isely  
Mounir Bouraoui

Following the conclusions and recommendations of the conference, it was thought that it would be expedient to work out a project idea or project by putting the results of these efforts into concrete form.

This project will be financed under the heading of Experimental Funds.

Main Concept: Community Participation.

Objectives: In such a project, the point is to take three different [groups of] communities and establish a system of comparison for the duration of the project.

The first [group of communities] (A) would be without histories of participation.

The second [group] (B) would have recent histories of participation.

The third [group] (C) would have distant histories [of participation].

With regard to these communities, several factors would be taken into consideration:

- 1) Age of community leaders
- 2) Sharing in decision making
- 3) Physical factors - terrain and climate
- 4) Economic factors.

N.B. It would be meaningful and desirable to have two or three communities in each category.

For the three types of community, the point would be to put together three similar projects using the following elements:

- 1) Drinking water
- 2) Maintenance of water installations
- 3) Health and nutritional education
- 4) Domestic sanitation - latrine  
- home construction  
- food storage.
- 5) Oral rehydration
- 6) Immunizations.

The object of this experimentation is to make a comparison among these different communities. This comparison will touch on:

- 1) Cost of the program
- 2) Time required to achieve the objective
- 3) Resources required for realization of such a project
- 4) Elaboration of a guide for program planners (since, according to the type of community, one could foresee the results from the beginning).

Stages for the realization of such a project

A- Planning and budgeting of such a project

This stage could last two to three weeks. It will very certainly require the contribution of a consultant specializing in the subject.

(Mr. Isely will be able to come as a consultant if requested)

B- A preliminary study to identify communities. Certain communities have been identified, others require more serious study of their limitations.

N.B. In order to execute this task, an anthropologist is necessary. The anthropologist should be sensitized

to the problems of community life in Tunisia.

- C- The third task consists of approaching the community. To execute this task, first it is necessary to have planned the project.
- D- Proceed to a timetable to determine how able the population is to incorporate the project. (This is an intermission.)

(If the project is not feasible for a community, one must not hesitate to refuse to continue.)

- E- Contract: During this task, it would be necessary to study the ease with which the community interacts with the social promotion agent. At the time of the signing of the commitment it would be necessary to hold a feast.
- F- Community Planning  
It is the community which will choose the elements of the project which interest it. The promoting organization will present certain elements of the entire plan of the project and the community will make its independent choice.
- G- The community will also assess the resources.

#### Follow-up

Follow-up will be carried out with the termination of the project. Evaluation will be made with the participation of the community.

OTD # 158 - September 1, 1983

Technical Assistance in Assessment of Sanitation  
Sector and Strategy Design - Tunisia/RHUDO

AID/Tunisia, the AID Regional Housing Office (RHUDO) in Tunisia, and the AID Office of Housing and Urban Programs in the Bureau for Private Enterprise (PRE/H), requested WASH assistance in undertaking a preliminary assessment of the sanitation sector in Tunisia and in developing a strategy for meeting urban and peri-urban sanitation needs. The scope of work includes reviewing selected current and planned sewerage and drainage projects of other donors; assessing dimensions of sanitation sector needs, constraints, programs, policies and institutional managerial and financial capabilities; reviewing projects submitted for funding and identifying those eligible for AID/Housing financing; and assisting in an initial development of a strategy and options for undertaking AID financing of future programs and projects in the sanitation sector.

For further information contact Mr. F. Rosensweig.

Up to one hundred-and-five person days of effort, eighty-three days of international/domestic per diem and three international air roundtrips are authorized over a four month period. Local travel up to \$2100, up to \$1100 for local secretarial, graphics and reproduction services, and interpreter services are also authorized.

JEB/CIC

9/30/83

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**WATER AND SANITATION FOR HEALTH (WASH) PROJECT**  
**ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 158**  
September 1, 1983

**TO:** Dr. Dennis Warner, P.E.  
WASH Contract Project Director

**FROM:** Victor W.R. Wehman, Jr., P.E., R.S.  
A.I.D. WASH Project Manager  
A.I.D./ST/H/WS

**SUBJECT:** Provision of Technical Assistance Under WASH Project Scope of Work for PRE/Housing and RHUDO/Tunisia and USAID/Tunisia

**REFERENCE:** A) Memo Swerdlin (PRE/H) to McJunkin (S&T/H/WS), dated 24 June 1983, entitled "Sanitation Strategy and Programs for Tunisia"  
B) Draft Scope of Work -- Sanitation Strategy and Programs  
C) World Bank News Release No. 83/59, dated 31 March 83 entitled "Tunisia to Use \$34 Million IBRD Loan for Sewerage Project"  
D) Memo Leibson (RHUDO/Tunisia) to Kimm (PRE/Housing), dated 23 June 83, entitled "Tunisia Housing Guarantee Programs"  
E) WASH Project Interim Report No. B-393-1, dated August 83, entitled "Tunisia Preliminary Sanitation Sector Assessment"  
F) Tunis 6588, dated 31 August 1983

1. WASH contractor requested to provide technical assistance to USAID/Tunisia as per Reference A and F. Technical assistance to consist of development of a sanitation sector preliminary assessment for Tunisia and develop a strategy for meeting the urban/peri-sanitation (sewerage, non-sewered excreta disposal, drainage, and solid waste management) needs for Tunisia using HG funds..
  2. Wash contractor/subcontractor/consultants authorized to expend up to 105 person days of effort over a four (4) month period to accomplish this technical assistance effort.
  3. Contractor authorized up to 83 person days of international and/or domestic per diem to accomplish this effort.
  4. Contractor to coordinate with USAID/RHUDO/Tunisia (Sonia Hamman, David Leibson), NE/TECH/HH (Holly Wise and Babarba Turner), NE/PD/ENGR (J. Habron and Monty Montanari), AID/PRE/H (Dean Swerdlin), and Tunisia Desk Officer and should provide copies of OTD #158 along with periodic progress reports and ETA information as requested by S&T/H/WS and/or NE Bureau Staff.
- n/b

5. Contractor authorized to provide up to three (3) international round trips from consultants' home base through Washington, D.C. to Tunis, Tunisia and return to home base through Washington, D.C. during life of this OTD. Three (3) domestic round trips authorized as necessary and appropriate for purposes of briefing, debriefing and report preparation.
6. Contractor authorized local travel in Tunisia as necessary and appropriate to accomplish mission NTE \$2100 without the prior written approval of the AID WASH Project Manager.
7. Contractor authorized to obtain secretarial, graphics or reproduction services in Tunisia and WASH CIC as necessary to accomplish tasks. These services are in addition to the level of effort specified in paragraph(s) 2 and 3 above and NTE \$1100 without written approval of AID WASH Project Manager.
8. Contractor authorized to provide local interpreter services for team members if necessary and appropriate to do so. Mission is encourage to identify or provide reliable local interpreter resources to team if possible and appropriate. At least two of the three team members should have french fluency.
9. Contractor authorized to provide for car(s) or vehicle(s) rental if necessary to facilitate effort. Mission is encouraged to provide Mission vehicles, if available and appropriate.
10. WASH contractor will adhere to normal established administrative and financial controls as established for WASH mechanism.
11. WASH contractor should definitely be prepared to administratively or technically backstop field consultants and subcontractors.
12. Contractor to provide coordinated draft final report in field to USAID/RHUDO/Tunisia before consultants leave the field. Final report due to AID within 30 days of return of consultants from the country and entry into the U.S.
13. New procedures regarding subcontractor cost estimates and contractor selection justification for subcontractors/consultants remains in effect.
14. Mission should be contacted immediately and technical assistance initiated as soon as possible.
15. Appreciate your prompt attention to this matter. Good luck!

June 24, 1983

MEMORANDUM

TO : S&T/HEA, Gene McJunkin  
FROM : PRE/H, Dean Swerdlin  
SUBJECT : Sanitation Strategy and Programs for Tunisia

On 09/29/79, HG-004 (\$25 million), Housing Guaranty Loan for Tunisia, was approved for slum rhabilitation, but never implemented due to high interest rates. The Minister of Plan and Finance of Tunisia has expressed an interest to use the HG-004 funds at this time for sewage projects. The Minister discussed this idea in May of '83 with AID Administer, McPherson. It is anticipated that the sewage projects would be budgeted through the Ministry of Equipment for the National Office for Waste Water and Sewerage (ONAS). ONAS has submitted a prliminary proposal to the RHUDO/Tunis office, totaling \$46 million. This interest in a sewage/sanitation project is in conjunction with a World Bank project for a 30 city sewage program.

It is thus desired by RHUDO/Tunis and USAID Mission, that a WASH team assist in undertaking a preliminary assessment of the sanitation sector in Tunisia, and help develop a strategy for meeting urban sanitation needs for Tunisia utilising HG funds.

Attached, please find a draft scope of work for the WASH team. A final scope of work will be submitted when dates and specifics on this request for services are finalized. It is estimated that: a) one week of background preparation time in Washington, b) three weeks of field work, and c) two weeks in Washington for completion of final draft report - will be required. The team will be composed of (1) one Sanitation Engineer and (1) one Specialist in utility finance and management. This team will work closely with the RHUDO/Tunis office and ONAS. Both team members should have 3+ French speaking capabilities.

It is important that the WASH team utilize the week of preparation time in Washington to become familiar with the IBRD Third Urban Sewerage Project in Tunisia and other IBRD projects, in order to obtain an overview of the sector. RHUDO/Tunis suggests that the WASH team meet with the IBRD and read the Appraisal Report and President's Report on the "30 Cities Program" outlined in "The Third Urban Sewerage Project". A World Bank News Release is attached concerning the project.

It is desired that the WASH team be available for this task as soon as possible. You may contact David N. Weinman (PRE/H 632-4283) or myself, Dean Swerdlin (PRE/H 632-0042) concerning this matter. Your prompt attention and cooperation in this matter will be greatly appreciated. Thank you.

DRAFT

SCOPE OF WORK

Sanitation Strategy and Programs

Objective: To undertake preliminary assessment of the sanitation sector in Tunisia and assist RHUDO and <sup>USAID</sup> Mission in development of a strategy for meeting urban <sup>sanitation</sup> needs in Tunisia utilising HG resources.

Background: The GOT has requested assistance from USAID in financing projects identified in the Vith Plan for improving sanitary conditions in urban areas. The request has been directed with the view to utilising HG resources for financing specific projects for the provision of sewerage and wastewater <sup>drainage</sup> in urban areas. The projects submitted for review include:

1. 30 Cities Project - This involves the construction of wastewater networks, rainwater drainage and the connection to treatment plants as well as the construction of treatment plants in certain cities. The project is partially financed by the World Bank and implementation studies are in the process of preparation.
2. Greater Tunis Project - This is a follow-up project partially financed by the Kuwaiti fund. It involves reinforcement of network pipes, construction of wastewater collectors and secondary wastewater networks in a variety of sites.

HG resources have in the past been utilised to finance sewerage networks in upgrading and servicing of new project specific sites to benefit low-income groups. HG legislation, in general, currently allows financing of infrastructure programs in identifiable low-income neighborhoods in large centers or to benefit small urban

centers where the majority of the residents have incomes below the urban median. Among the objectives of the Tunisia housing program is to improve the delivery of services in the sector and sanitary services have in general lagged far behind in Tunisia to the demand arising from increased urbanisation. However, for the inclusion of greater emphasis on a sanitation component in future HG financing in Tunisia, it is important that the projects be consistent with overall objectives and concerns of the HG program... such as appropriate design standards, cost recovery, and ability to pay of beneficiaries, as well as institutional development and that they benefit low-income groups.

Specific tasks:

1. Assess dimensions of the sanitation needs and problems in urban centers, identify constraints in meeting those needs and analyse existing programs and policy in the sector. Assess sector institutions primarily, ONAS, the sewerage authority, in terms of organisational and financial capacity, ability to recover costs, planning capacity and overall responsibilities for planning, implementation and maintenance of sanitary systems, coordination with municipalities, and other institutions.
2. Undertake preliminary review of projects submitted for potential HG financing with respect to standards, costs, adequacy of recovery procedures, target groups reached and assessment of the extent to which these specific projects (budgeted under the VIth Plan) satisfy needs and overcome constraints <sup>identified</sup> in sector assessments. This review should identify those projects which seem eligible for HG financing according to criteria of being destined for and affordable by target groups below median income.
3. Assist in an initial development of a strategy and options for

undertaking financing of future programs and projects in the sanitation sector. Such programs and projects should consider linkages to other institution's programs, namely those of the Housing Ministry which is involved in urban upgrading through the Agence de la Rehabilitation et la R'novation Urbaine (ARRU); the Agence Foncier de l'Habitat and Societe Nationale Immobiliere de Tunisie which are involved in new site preparation for housing construction. Strategy should be based on sectoral analysis and focus on suggestions for ways to improve institutional linkages, and performance with regard to the provision of services, water/sewerage charges, house connection costs, and relevant municipal taxes.

Team 1. Sanitation Engineer, 2. Specialist in utility finance and management, Both team members should have 3+ French speaking capability.

Level of effort:

1. Background Preparation - (up to one week in Washington) - Team should consult with World Bank EMENA Water and Sanitation Division and avail itself of relevant documentation prepared by the Bank in undertaking appraisal report on 30 Cities Programs, (IBRD, Third Urban Sewerage Project) consultant feasibility studies and other data as available.
2. Field work - (Up to 3 weeks) - fieldwork would include site visits, review of documentation available at ONAS on specific projects being proposed and discussions of overall programs and policies of ONAS and other institutions involved in the sector, reviews of documentation on needs, costs, standards recovery of costs, income data on beneficiaries. Draft summary strategy and recommendations to be completed in the field and submitted to RHUDO.

3. Completion of Final Draft -(up to 2 weeks) - Final draft to be submitted for review to RHUDO and PRE/H not later than 2 weeks after return from the field.

WATER AND SANITATION FOR HEALTH (WASH) PROJECT  
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 158  
Amendment NO. 1  
26 January 1984

TO: Dr. Dennis Warner, Ph.D., P.E.  
WASH Contract Project Director

FROM: Mr. Victor W. R. Wehman Jr., P.E., R.S.  
AID WASH Project Manager  
AID/S&T/H/WS

SUBJECT: Provision of Technical Assistance Under WASH Project  
Scope of Work for PRE/Housing and RHUDO/Tunisia and  
USAID/Tunisia

REFERENCES: A) OTD # 158, dated 1 Sept 1983

1. Para 2 of subject OTD # 158 (Ref A) is cancelled. New para 2  
to subject OTD # 158 (Ref A) is now to read as follows:

"2. WASH contractor/subcontractor/consultants authorized  
to expend up to 115 person days of effort over a seven (7)  
month period to accomplish this technical assistance effort."

2. Nothing follows.

C.

OTD # 159 - September 22, 1983

Technical Assistance in Institution  
Building - Near East Bureau

AID/NE requested WASH assistance in assessing the institution-building needs and plans of the water sector in the Near East region. WASH will assist the Near East Bureau Water Resources Subcommittee on Institutional Development in assessing the capabilities of Near East institutions based on literature reviews and interviews with experts. This assessment will identify key institutional issues and problems on a country and regional basis. Future activities in the area of institutional development will also be proposed.

For further information, contact Mr. F. Rosensweig.

Up to thirty person days of effort, twenty days of domestic per diem and four domestic air roundtrips are authorized over a four month period. Up to \$500 for secretarial, graphics or reproduction services are also authorized.

JEB/CIC  
9/30/83

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WATER AND SANITATION FOR HEALTH (WASH) PROJECT  
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 159  
September 22, 1983

TO: Dr. Dennis Warner, P.E.  
WASH Contract Project Director

FROM: Victor W.R. Wehman, Jr., P.E., R.S.  
A.I.D. WASH Project Manager  
A.I.D./ST/H/WS

SUBJECT: Provision of Technical Assistance Under WASH Project Scope of  
Work for Near East Bureau in Institutional Development of  
Water Sector

REFERENCE: A) Johnson memo to Austin, dated 29 Jul 83  
B) Coordination and Information Center Task No. 398, entitled  
"WASH Assistance in Institution Building in NE Bureau"

1. WASH contractor requested to provide technical assistance to NE/TECH as per Reference A.. Technical assistance to consist of review and assessment of water sector institutions in Egypt, Jordan, Yemen and Tunisia and identification of key institutional issues and problems on a regional and country-specific basis. Contractor also requested to suggest next steps to pursue institutional development issues in the NE region.
2. Wash contractor/subcontractor/consultants authorized to expend up to 30 person days of effort over a four (4) month period to accomplish this technical assistance effort.
3. Contractor authorized up to 20 person days of domestic per diem to accomplish this effort.
4. Contractor to coordinate with NE/TECH (Pamela Johnson) and NE/PD/ENGR (Francis Montanari), and should provide copies of OTD #159 along with periodic progress reports as requested by S&T/H/WS and/or NE Bureau Staff.
5. Contractor authorized to provide up to four (4) domestic round trips from consultants' home base to Washington, D.C. and return to home base during life of this OTD.

6. Contractor authorized to obtain secretarial, graphics or reproduction services in WASH CIC as necessary to accomplish tasks. These services are in addition to the level of effort specified in paragraph(s) 2 and 3 above and NTE \$500 without written approval of AID WASH Project Manager.
7. Contractor authorized to provide for car(s) or vehicle(s) rental if necessary to facilitate effort.
8. WASH contractor will adhere to normal established administrative and financial controls as established for WASH mechanism.
9. WASH contractor should definitely be prepared to administratively or technically backstop consultants and subcontractors.
10. Contractor's report to be made in writing at the conclusion of the assignment. Nature of product to be determined by NE/TECH (Pamela Johnson) in conjunction with S&T/H/WS (John Austin). Final product due to AID by 15 November 1983.
11. New procedures regarding subcontractor cost estimates and contractor selection/justification for subcontractors/consultants remains in effect.
12. NE/Bureau should be contacted immediately and technical assistance initiated as soon as possible.
13. Appreciate your prompt attention to this matter. Good luck!

JHA/ddc

July 29, 1983

MEMORANDUM

TO : S&T/H, John Austin

THRU: NE/PD, Francis Montanari, Chairman, Water Resources Committee

FROM : NE/TECH/HPN, Pamela Johnson, Sub-committee on Institution Building

SUBJECT: WASH Assistance for Institution Building

The Near East Bureau Water Resources Committee is charged with assessing the institution building needs and plans in the region, including water resource planning and management, operations and maintenance, and appropriate linkages of water and sanitation to other sectors (health, agriculture, urban and rural development). The requirement to foster viable, effective institutions is seen by the Bureau as fundamental to achieving our overall goals in the sector.

The sub-committee is requesting assistance from WASH to complement its efforts in this area. Over the next few months, we anticipate calling on WASH to assist us in collecting information on Middle East, U.S., British and developing country institutions in the water sector; assessing the institutional capability of Near East institutions, based on written literature and interviews of experts; identifying appropriate models/options for institutional development; and developing a process which involves AID Missions and key host country officials in the Near East in seeking ways to strengthen sectoral institutions.

To begin this process, we request that WASH undertake the following activities:

1. Drawing on readily available documentation, review and assess water sector institutions in the following countries: Egypt, Jordan, Lebanon, Morocco, Tunisia, Turkey and Yemen. Based on that review, provide brief summaries of the institutional setting in each of these countries and identify key institutional issues and problems in the sector on a regional and country-specific basis.

2. Identify examples of institutional organization and practice in the U.S., Britain, and the developing world which illustrate institutional options, approaches or solutions to identified issues and problems.

In addition, as the sub-committee's work progresses, we plan to call upon outside experts, both individually and collectively. This may take the form of informal consultations as well as larger structured meetings. The sub-committee appreciates WASH's recommendations of experts and may request WASH assistance in structuring and facilitating the interaction with these experts.

Because of the need for this information in a timely manner, we are hopeful that the first two tasks can be completed within eight weeks. The sub-committee does expect WASH to keep it advised and abreast of the plan of work and progress in order to refine jointly the approach, define priorities among issues to be addressed and identify and define further tasks. This latter would entail the development of specific scopes of work.

We are appreciative of your interest and support and look forward to working closely with your office and WASH over the coming months.

Please set up C-Task to carry out this request. C-Task may require more than 10 days and will probably develop into one or more OTDs. Authorization is up to 25 days.

John H. Austing  
Victor W. R. Wehner Jr.

Rec-29 July 83 JWA  
Passed to WASH 29 July 83 JWA

WATER AND SANITATION FOR HEALTH (WASH) PROJECT  
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 159  
AMENDMENT NO. 1  
23 November 1983

TO: Dr. Dennis Warner, Ph.D., P.E.  
WASH Contract Project Director

FROM: Mr. Victor W. R. Wehman Jr., P.E., R.S.  
AID WASH Project Manager  
AID/S&T/H/WS

SUBJECT: Provision of Technical Assistance Under WASH Project  
Scope of Work for Near East Bureau in Institutional  
Development of Water Sector

REFERENCES: A) OTD # 159, dated 22 Sept 1983

1. Para 2 of subject OTD # 159 (Ref A) is cancelled. New para 2 to subject OTD # 159 (Ref A) is now to read as follows:

"2. WASH contractor/subcontractor/consultants authorized to expend up to 70 person days of effort over a six (6) month period to accomplish this technical assistance effort."

2. Para 3 of subject OTD # 159 (Ref A) is cancelled. New para 3 to subject OTD # 159 (Ref A) is now to read as follows:

"3. Contractor authorized up to 30 person days of domestic per diem to accomplish this effort."

3. Para 5 of subject OTD # 159 (Ref A) is cancelled. New para 5 to subject OTD # 159 (Ref A) is now to read as follows:

"5. Contractor authorized to provide up to six (6) domestic round trips from consultants home base to Washington D.C. and return to home base during life of this OTD."

4. Nothing follows.

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WATER AND SANITATION FOR HEALTH (WASH) PROJECT  
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 159  
AMENDMENT NO. 2  
12 March 1984

TO: Dr. Dennis Warner, Ph.D., P.E.  
WASH Contract Project Director

FROM: Mr. Victor W.R. Wehman Jr., P.E., R.S.  
AID WASH Project Manager  
AID/S&T/H/WS

SUBJECT: Provision of Technical Assistance Under WASH Project  
Scope of Work for Near East Bureau in Institutional  
Development of Water Sector

REFERENCES: A) OTD # 159, dated 22 Sept 1983

1. Para 2 of subject OTD # 159 (Ref A) is cancelled. New para 2 to subject OTD # 159 (Ref A) is now to read as follows:

"2. WASH contractor/subcontractor/consultants authorized to expend up to 85 person days of effort over an 8 month period to accomplish this technical assistance effort."

2. Nothing follows.

OTD # 160 - September 22, 1983

Technical Assistance in Human Resources  
Development - Near East Bureau

AID/NE requested WASH assistance in assessing the human resources development needs of the water resources sector in the Near East Region. Personnel constraints and deficiencies are pervasive in the region and are a critical obstacle to the rapid and effective implementation, operation and maintenance of water and wastewater plants. WASH will assist the Near East Bureau in identifying training opportunities and courses in the U.S. and third world countries and assessing availability, quality and appropriateness of available training materials and sources. WASH will work closely with the Near East Bureau on these tasks.

For further information, contact Mr. F. Rosensweig.

Up to forty-five person days of effort, up to twenty days of domestic per diem and two domestic air roundtrips are authorized over a four month period. Up to \$500 for secretarial, graphics and reproduction services and up to \$1100 for training materials are also authorized.

JEB/CIC  
9/30/83

WATER AND SANITATION FOR HEALTH (WASH) PROJECT  
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 160  
September 22, 1983

SOME, DISTRICT OFFICE

SECRET

TO: Dr. Dennis Warner, P.E.  
WASH Contract Project Director

FROM: Victor W.R. Wehman, Jr., P.E., R.S.  
A.I.D. WASH Project Manager  
A.I.D./ST/H/WS

SUBJECT: Provision of Technical Assistance Under WASH Project Scope of  
Work for Near East Bureau in Human Resources Development of  
Water Sector

REFERENCE: A) Wise memo to Vic Wehman, dated 7/19/83  
B) Coordination and Information Center Task No. 394 entitled  
"WASH Assistance to NE Bureau in HRD."

1. WASH contractor requested to provide technical assistance to NE Bureau as per Reference A. Technical assistance to consist of identification of institutions for long term training and study tours, development of guidelines for study tours, and identification of training materials for use in NE Bureau countries in the area of water supply and sanitation.
2. Wash contractor/subcontractor/consultants authorized to expend up to 45 person days of effort over a four (4) month period to accomplish this technical assistance effort.
3. Contractor authorized up to 20 person days of domestic per diem to accomplish this effort.
4. Contractor to coordinate with NE/Tech (Holly Wise) and NE/PD/ENV (Barbara Ormond), and should provide copies of OTD #160 along with periodic progress reports and as requested by S&T/H/WS and/or NE Bureau Staff.
5. Contractor authorized to provide up to 2 (two) domestic round trips from consultants' home base to Washington, D.C.

6. Contractor authorized to obtain secretarial, graphics or reproduction services within WASH CIC as necessary to accomplish tasks. These services are in addition to the level of effort specified in paragraph(s) 2 and 3 above and NTE \$500 without written approval of AID WASH Project Manager.
7. Contractor authorized to expend up to \$1100 for the purchase of training materials associated with item 1 in the OTD.
8. Contractor authorized to provide for car(s) or vehicle(s) rental if necessary to facilitate effort.
9. WASH contractor will adhere to normal established administrative and financial controls as established for WASH mechanism.
10. WASH contractor should definitely be prepared to administratively or technically backstop field consultants and subcontractors.
11. Contractor report of activity to be made in writing at the conclusion of the assignment. Nature of the report to be determined by NE/Tech (Holly Wise) in conjunction with S&T/H/WS (John Austin). Final product due to AID by 15 November 1983.
12. New procedures regarding subcontractor cost estimates and contractor selection/justification for subcontractors/consultants remains in effect.
13. NE/Bureau should be contacted immediately and technical assistance initiated as soon as possible.
14. Appreciate your prompt attention to this matter. Good luck!

JHA/ddc

MEMORANDUM

To : V. Wehman, S&T/H/WS

From : H. Wise, NE/TECH/HPN, B. Ormond, NE/PD/ENV

Thru : K. Sherper, NE/TECH,

Subject: Request for WASH Assistance in Human Resource Development Activities

The Near East Bureau has identified manpower constraints as a critical obstacle to the rapid and effective implementation, operation and maintenance of water and wastewater projects in the Near East Region. Manpower problems pervade in the Region's water and wastewater organizations from planning and management to the operation and maintenance of facilities. Deficiencies exist in all areas of the sector from management skills such as budgeting and finance to technical skills such as biochemistry and engineering.

As part of an effort to address the human resource development needs for the water resource sector, WASH assistance is requested in collecting information, exploring avenues for continued efforts (e.g. definition of scopes of work for possible follow-on activities), and providing technical assistance to and linkages with outside groups active in the sector. Specific activities include but are not limited to:

--A brief review of the Bureau's water and wastewater project portfolio to define broad categories of need by country and skill category.

--Development of a listing of training opportunities--U.S. and third country--for priority areas and target groups using information readily available. Summarizing of information available on quality of training opportunities.

--Identification of gaps in information on training opportunities and development of proposals to fill information gaps.

--Assessment of available training materials and sources, prices and languages of these materials. Evaluation of appropriateness and adaptability of materials to the Near East Region. Identification of gaps in available materials and development of proposals to fill these gaps.

--Assistance to AMIDEAST, or similar Near East education specialists, in collection of information on training opportunities and training materials available in the Near East Region.

The nature of the assistance requested from WASH calls for periodic interaction between WASH, S&T/H/WS, and the Near East Bureau. We would like to have weekly status meetings to discuss and refine some of the issues under study. We hope this initial effort can be completed within five weeks. We very much appreciate your support and interest. Please let us know should you need any further information at this time.

100-170

WATER AND SANITATION FOR HEALTH (WASH) PROJECT  
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 160  
AMENDMENT NO. 1  
23 November 1983

TO: Dr. Dennis Warner, Ph.D., P.E.  
WASH Contract Project Director

FROM: Mr. Victor W. R. Wehman Jr., P.E., R.S.  
AID WASH Project Manager  
AID/S&T/H/WS

SUBJECT: Provision of Technical Assistance Under WASH Project  
Scope of Work for Near East Bureau in Human Resources  
Development of Water Sector

REFERENCES: A) OTD # 160, dated 22 Sept 1983

1. Para 2 of subject OTD # 160 (Ref A) is cancelled. New para 2 to subject OTD # 160 (Ref A) is now to read as follows:

"2. WASH contractor/subcontractor/consultants authorized to expend up to 65 person days of effort over a six (6) month period to accomplish this technical assistance effort."

2. Para 6 of subject OTD # 160 (Ref A) is cancelled. New para 6 to subject OTD # 160 (Ref A) is now to read as follows:

"6. Contractor authorized to obtain secretarial, graphics or reproduction services within WASH CIC or subcontractor resources as necessary to accomplish tasks. These services are in addition to the level of effort specified in para 2 and 3 above and NTE \$1500 without the written approval of the AID WASH Project Manager."

3. Nothing follows.

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WATER AND SANITATION FOR HEALTH (WASH) PROJECT  
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 160  
Amendment No. 2  
3 April 1984

TO: Dr. Dennis Warner, Ph.D., P.E.  
WASH Contract Project Director

FROM: Mr. Victor W. R. Wehman Jr., P.E., R.S.  
AID WASH Project Manager  
AID/S&T/H/WS

SUBJECT: Provision of Technical Assistance Under WASH Project  
Scope of Work for Near East Bureau in Human Resources  
Development of Water Sector

REFERENCES: A) OTD # 160, dated 22 Sept 1983

1. Para 2 to subject OTD # 160 (Ref A) is cancelled. New para 2 to  
OTD # 160 (Ref A) is now to read as follows:

"2. WASH contractor/subcontractor/consultants authorized to  
expend up to 73 person days of effort over an eight (8) month  
period to accomplish this technical assistance effort."

2. Nothing follows.

OTD # 161 - September 21, 1983

Technical Assistance in Evaluation of Small  
Rural Water Systems - Yemen

AID/Yemen requested WASH assistance in evaluation of the small rural water systems project and preparing the terms of reference for the water sector assessment planned for early 1984. The general scope of work includes assessing: activities and plans of the organization; staffing of the contractor and the rural water department; project replicability; the role and impact of Peace Corps and of women in the project; and the long range requirements for similar water supply projects in Yemen. Specific evaluation tasks have been assigned, by discipline, to the evaluation team members in economics, rural sociology and water supply engineering.

For further information, contact Mr. D. Donaldson.

Up to ninety-seven person days of effort, seventy-four days of international/domestic per diem and two international air roundtrips are authorized over a five month period. Local transportation and up to \$400 for secretarial, graphics and reproduction services are also authorized.

JEB/CIC  
9/30/83



7. Contractor authorized to obtain secretarial, graphics or reproduction services in Yemen as necessary to accomplish tasks. These services are in addition to the level of effort specified in para 2 and 3 above and NTE \$400 without the written approval of the AID WASH project manager.
8. Contractor authorized to provide for car(s) or vehicles rental if necessary and appropriate to facilitate effort. Mission is encouraged to provide Mission vehicles, if available and appropriate.
9. WASH contractor will adhere to normal established administrative and financial controls as established for WASH mechanism.
10. WASH contractor should definitely be prepared to administratively or technically backstop field consultants and subcontractors.
11. Contractor to provide coordinated draft report to USAID/Yemen in English before the consultants leave the field. Final report is due to AID within 30 days after return of consultants to the U.S.
12. New procedures regarding subcontractor cost estimates and contractor selection/justification for subcontractors/consultants remains in effect.
13. Mission and persons identified in para 4 above should be contacted immediately and technical assistance initiated as soon as possible.
14. Appreciate your prompt attention to this matter. Good luck.

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Department of State

INCOMING TELEGRAM

PAGE 01 SANAA 05762 141319Z 7650 028869 AID3364  
ACTION AID-09

ACTION OFFICE NEDP-04  
INFO NEDP-03 NETA-04 NENA-03 STMD-01 ENGR-01 STEN-01 RELO-01  
DAEN-01 MAST-01 /020 A4 814

INFO OCT-00 INR-10 EB-08 NEA-07 /060 W  
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P 141130Z SEP 83  
FM AMEMBASSY SANAA  
TO SECSTATE WASHDC PRIORITY 7061

UNCLAS SANAA 5762

AIDAC

E. O. 12356: N/A  
SUBJ: EVALUATION PROJECT 279-0044 SMALL RURAL WATER SYSTEMS

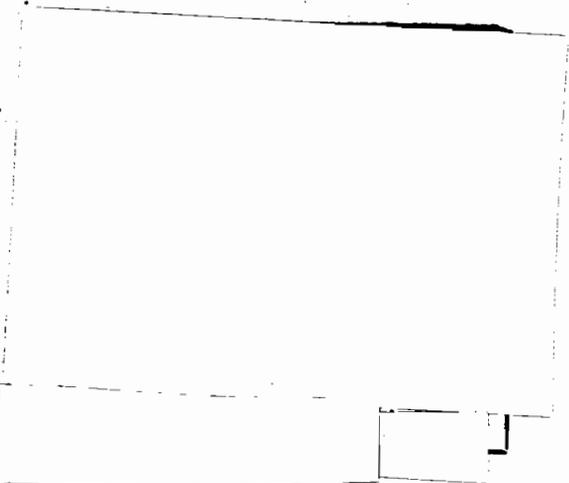
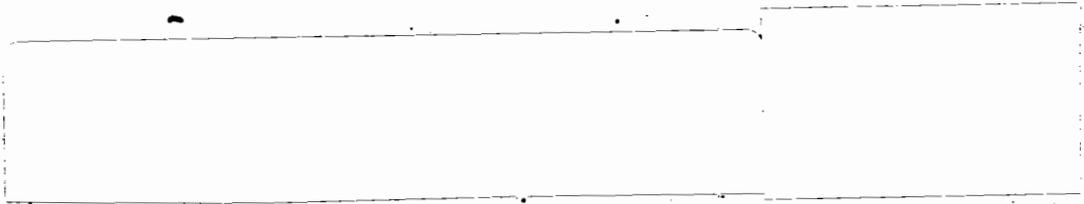
REF: (A) STATE 261376, (B) TELCON WEDEN-DESK, SEPT 13

1. MISSION CONCURS IN EVALUATION TEAM SCHEDULED PROPOSED REFTEL.

2. MISSION UNDERSTNADS FROM REF TELCON THAT LEONARD WOULD PREFER RESERVATIONS T SHEBA. PRESENT SANAA PER DIEM NOT SUFFICIENT TO COVER COST OF LIVING AT SHEBA BUT IS ENOUGH FOR BOTH SHERATON AND HADDA RAMADA. PLEASE ADVISE IF SHE AND OTHER TEAM MEMBERS WOULD PREFER SHERATON OR HADDA RATHER THAN SHEBA, OR IF WISH RESERVATIONS AT SHEBA NOTWITHSTANDING COST.

3. AS STATED IN TELCON, MISSION NEEDS PASSPORT INFO ON ALL NON-AID TEAM MEMBERS ASAP IN ORDER TO SUBMIT THIS TO CPO. KEISWETTER

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Department of State

OUTGOING  
TELEGRAM

PAGE 01  
ORIGIN AID-00

STATE 261376

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ORIGIN OFFICE NFPD-04  
INFO NEDP-03 NENA-03 PFCE-01 PPPD-02 CMGT-02 CTR-02 STHE-01  
SAST-01 RELG-01 STHP-01 MAST-01 3M-00 /622 A0  
INFO OCT-00 INR-10 EB-08 NEA-07 /000 R

DRAFTED BY AID/NE/PD A NATHANIELSZ/PPC/PB E. LEONARD: AMN  
APPROVED BY AID/NE/PD: D. MCCALL  
AID/NE/NENA: EMCLEOD (DRAFT)  
AID/ST/E/WS: VWEHMAN (INFO.)

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TO AMEMBASSY SANAA PRIORITY

UNCLAS STATE 261376

AIDAC

E. O. 12356: N/A

TAGS:

SUBJECT: EVALUATION PROJECT 279-0044 SMALL RURAL WATER  
SYSTEMS

REF.: SANAA 5480

1. APPRECIATE SCOPES OF WORK FOR SUBJECT EVALUATION.  
WORKING WITH WASH TO CONTRACT DICHTER AND ENGINEER.
2. LEONARD SCHEDULED TO BE IN ATHENS ON NOVEMBER 5 FOR  
MISSION DIRECTORS CONFERENCE. PROPOSE SHIFT IN TIMING  
AS FOLLOWS: LEONARD ARRIVE SANAA FROM CAIRO TDY ON SEPT  
29. REST OF TEAM ARRIVE OCTOBER 4.
3. LEONARD BELIEVES MAJORITY OF TEAM LEADER'S TASKS SET  
FORTH IN REFTEL CAN BE ACCOMPLISHED IN FIRST THREE  
WORKING DAYS WITH BALANCE OF TASKS OVERLAPPING FIRST FEW  
DAYS OF TEAM ARRIVAL.
4. PLEASE ADVISE CONCURRENCE. SHULTZ

Best Available Document

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OTD # 171 - November 2, 1983

Disaster Assistance Following Earthquake - Turkey

The Office of Health and The Office of Foreign Disaster Assistance requested WASH technical assistance in evaluating the earthquake situation and its requirements in eastern Turkey. WASH will provide a Turkish-speaking development specialist who is knowledgeable in the use of the OFDA mobile water purification equipment. In addition to assisting in the deployment of this equipment, the specialist will serve as a facilitator, analyst, coordinator, information channel, interpreter and assistant to the AID S&T/H/WS representative in Turkey. They will analyze water supply and sanitation conditions, requirement and opportunities resulting from the earthquake and coordinate water purification and planning activities in consort with U.S. and Turkish government officials.

For further information, contact Mr. D. Donaldson

Up to fifteen person days of effort, ten person days of international/domestic per diem and one international air round trip are authorized over a two month period. Local travel up to \$1400 and up to \$3400 are also authorized for local secretarial graphics, and driver services.

JEB/CIC  
12/8/83

WATER AND SANITATION FOR HEALTH (WASH) PROJECT  
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 171  
2 November 1983

TO: Dr. Dennis Warner, Ph.D., P.E.  
WASH Contract Project Director

FROM: Mr. Victor W.R. Wehman Jr., P.E., R.S.  
AID WASH Project Manager  
AID/S&T/H/WS

SUBJECT: Provision of Technical Assistance Under WASH Project Scope of Work  
for USAID/Turkey, OFDA and S&T/H/WS

REFERENCES: Conversations between OFDA (F.Cole, R. Dionne, C. Siegel) and  
S&T/H/WS (V. Wehman) on 1-2 Nov 1983 at OFDA offices

1. WASH contractor requested to provide technical assistance to S&T/H to provide the services of a Turkish speaking, development specialist knowledgeable of the mobile water purification equipment of OFDA to serve as a facilitator, analyst, coordinator, information specialist, interpreter and special assistant to the S&T/H/WS representative (V. Wehman) that is going out to Turkey to analyze the water supply and sanitation conditions and opportunities associated with the recent major earthquake damage in the eastern Turkey area. Individual will be working with S&T/H/WS representative, two Cummins-Wagner water treatment plant specialists and a variety of U.S. and Turkish officials.
2. WASH contractor/subcontractor/consultants authorized to expend up to 15 person days of effort over a two (2) month period to accomplish this technical assistance effort.
3. Contractor authorized to expend up to 10 person days of international/domestic per diem to accomplish this effort.
4. Contractor to coordinate with S&T/H/WS (V. Wehman), OFDA (R. Dionne, F. Cole, and C. Siegel) and Turkey desk officer and should provide copies of this OTD along with periodic progress reports as requested by NE Bureau, Embassy/Turkey, OFDA or S&T/H/WS staff.
5. Contractor authorized to provide up to one (1) international round trip from consultants home base through Washington D.C. to Ankara and Erzurum Turkey (and surrounding rural areas) and return to consultants home base through Washington D.C. (for debriefing and report preparation) during life of this OTD.
6. Contractor authorized local travel within Turkey as necessary and appropriate to accomplish this technical assistance. Contractors consultant authorized to travel by U.S. or Turkish military aircraft or vehicles if made available by U.S. embassy or Turkish Officials. Local travel within Turkey NTE \$ 1400 without the written approval of the AID WASH Project Manager. U.S. embassy is encouraged to support consultants local travel and logistics to maximum extent appropriate and available.

7. Contractor authorized to obtain secretarial, graphics, reproduction, interpreter, or piecework or driver services in Turkey as necessary to accomplish tasks. These services are in addition to the level of effort specified in para 2 and 3 above and NTE \$ 3400 without the written approval of the AID WASH project manager. Consultant may be required to purchase some local materials, training aids, or special supplies and materials to facilitate technical assistance effort of the team. U.S. embassy is encouraged to provide WASH consultant with services appropriate and available to maximum extent possible.
8. Contractor authorized to provide for car or vehicle rental and hiring of driver as necessary to facilitate effort. USAID/Embassy is encouraged to provide mission vehicles and/or transportation if available and appropriate.
9. WASH contractor will adhere to normal established administrative and financial controls as established for WASH mechanism in WASH contract.
10. WASH contractor should definitely be prepared to administratively or technically backstop field consultants and subcontractors.
11. New procedures regarding subcontractor selection/justification and consultant selection/justification remain in effect. Cost estimates for subcontractors must be approved by S&T/H/WS Project Manager.
12. Contractor's consultant to participate in analysis, writing and coordination of several team actions undefined at this time. No formal written report will be required on this technical assistance effort.
13. USAID/Embassy through OFDA (E. Cole) and individuals identified in para 4 above should be contacted immediately and technical assistance initiated as soon as possible.
14. Appreciate your prompt attention to this matter. Good luck.

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WATER AND SANITATION FOR HEALTH (WASH) PROJECT  
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 171  
Amendment No. 1  
6 February 1984

TO: Dr. Dennis Warner, Ph.D., P.E.  
WASH Contract Project Director

FROM: Mr. Victor W. R. Wehman Jr., P.E., R.S.  
AID WASH Project Manager

SUBJECT: Provision of Technical Assistance Under WASH Project  
Scope of Work for USAID/Turkey, OFDA and S&T/H/WS

REFERENCES: A) OTD # 171, dated 2 Nov 83

1. Para 2 of subject OTD # 171 (Ref A) is cancelled. New para 2 to subject OTD # 171 (Ref A) is now to read as follows:

"2. WASH contractor/subcontractor/consultants authorized to expend up to 15 person days of effort over a four (4) month period to accomplish this technical assistance effort."

2. Para 3 of subject OTD # 171 (Ref A) is cancelled. New para 3 to subject OTD # 171 (Ref A) is now to read as follows:

"3. Contractor authorized to expend up to 12 person days of international/domestic per diem to accomplish this effort."

3. No further amendments to this OTD will be authorized.

4. Nothing follows.

OTD # 177 - February 7, 1984

Evaluation of Basic Village Services Project - Egypt

AID/Egypt requested WASH to provide an experienced rural public works engineer to assist in the third mid-project evaluation of the Basic Village Services Project. The purpose of this Project is to improve and expand the capacity of villages and governates to plan, manage, finance, implement and maintain selected infrastructure projects. So far there have been 3,560 sub-projects encompassing 1,425 villages in 20 rural governates. Fifty-six percent of the sub-projects have involved potable water systems, 24 percent farm-to-market roads and 12 percent include sanitation and drainage. Over 3,000 people have been given technical and managerial training, with 3,000 more in the training pipeline. The contribution of the rural public works engineer to the evaluation will include assessment of the quality, quantity and effectiveness of sub-project engineering and of technical assistance and training, and the preparation of appropriate recommendations in these areas in order to bring the Project to a successful conclusion.

For further information, contact Mr. D. Donaldson.

Up to sixty-two person days of effort, forty-two days of international/domestic per diem, and one international air round trip are authorized over a three month period. Local transportation expense up to \$1600 and up to \$2100 for secretarial, graphics, reproduction and interpreter services are also authorized.

JEB/CIC  
2/21/84

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WATER AND SANITATION FOR HEALTH (WASH) PROJECT  
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 177  
7 February 1984

TO: Dr. Dennis Warner, Ph.D., P.E.  
WASH Contract Project Director

FROM: Mr. Victor W. R. Wehman Jr., P.E, R.S.  
AID WASH Project Manager  
AID/S&T/H/WS

SUBJECT: Provision of Technical Assistance Under WASH Project  
Scope of Work for USAID/Egypt and NE/TECH

REFERENCES: A) Memo Miner (NE/TECH/SARD) to Wehman (S&T/H/WS),  
dated 6 Feb 84  
B) Document---3 pages---Overview of the Egyptian  
Basic Village Services Project with Scope of  
Work for the Rural Public Works Engineer, elements  
A, B and C  
C) Cairo 03542, dated 1 Feb 84  
D) Cairo 03656, dated 2 Feb 84  
E) State 031147, dated 1 Feb 84  
F) State 025081, dated 26 Jan 84  
G) Cairo 03387, dated 31 Jan 84  
H) State 026784, dated 28 Jan 84  
I) Cairo 02638, dated 24 Jan 84 (not given to WASH)  
J) State 021887, dated 24 Jan 84  
K) State 015537, dated 18 Jan 84  
L) Cairo 01010, dated 10 Jan 84 (not given to WASH)  
M) Cairo 37779, dated 23 Dec 83  
N) Cairo 37297, dated 19 Dec 83 (not given to WASH)  
O) Cairo 37011, dated 15 Dec 83 (3 pages)  
P) Cairo 36121, dated 8 Dec 83 (not given to WASH)

1. WASH contractor requested to provide technical assistance to USAID/Egypt and NE/TECH/SARD as per Ref A and Ref B, para A, B, and C. Technical assistance to consist of water supply and sanitation/engineering evaluation services to USAID as part of a multi-person evaluation team. Contractor to provide evaluation services and reports to team leader appointed by USAID/Egypt.

2. WASH contractor/subcontractor/consultants authorized to expend up to 62 person days of effort over a three (3) month period to accomplish this technical assistance effort.

3. Contractor authorized to expend up to 42 person days of international/domestic per diem to accomplish this effort.

4. Contractor to coordinate with NE/TECH/HPN (P. Johnson), NE/TECH/SARD (John Grayzel---6320488), USAID/Cairo, AID direct hire team members, AID Desk Officer and should provide copies of this OTD along with periodic progress reports and ETA information as requested by NE Bureau or S&T Bureau staff.
5. Contractor authorized to provide up to one (1) international round trip from consultants home base through Washington D. C. to Cairo, Egypt and return to home base through Washington D.C. during life of this OTD.
6. Contractor authorized local travel in Egypt as necessary and appropriate to accomplish mission NTE \$1600 without the prior written approval of the AID WASH Project Manager.
7. Contractor authorized to obtain secretarial, graphics, interpreter, or reproduction services in <sup>Egypt GJW 7 Feb 84</sup> ~~Peru~~ as necessary to accomplish tasks. These services are in addition to the level of effort specified in para 2 and 3 above and NTE \$2100 without the written approval of the AID WASH Project Manager.
8. Contractor authorized to provide for car(s) or vehicle(s) rental if necessary and appropriate to facilitate effort. Mission is encouraged to provide mission vehicles if available and appropriate.
9. WASH contractor will adhere to normal established administrative and financial controls as established for WASH mechanism.
10. WASH contractor should definitely be prepared to administratively or technically backstop field consultants and subcontractors.
11. New procedures regarding subcontractor cost estimates and contractor selection/justification for subcontractors/consultants remains in effect.
12. Contractor to provide coordinated draft report in English to team leader and to USAID/Egypt evaluation officer for BVS project before consultant leaves the country. Final consultant report due to AID in English within 30 days of return of consultants from the country and entry into the U.S.
13. Mission and persons identified in para 4 above should be contacted immediately and technical assistance initiated as soon as convenient to USAID.
14. Appreciate your prompt attention to this matter. Good luck.

February 6, 1984

MEMORANDUM

TO: S&T/H, Vic Wehman

FROM: NE/TECH/SARD, *W. R. Miner* William R. Miner

SUBJECT: Request for Rural Public Works Engineer for Evaluation under the Basic Village Services Project (263-0161.02)

REF: January 25, 1984 P. Johnson-J. Nandy/Wehman Memorandum

Further to the referenced memorandum, the NE Bureau (NE/TECH/SARD and NE/TECH/HPN) and WASH are in agreement with the Mission request (Cairo 03656 attached) of Dennis B. Warner of WASH, for the BVS evaluation engineer position. Mr. Warner's services are required during the period from February 11 through March 15, 1984.

The scope of work and the funding citations (Cairo 01010) accompanied the referenced memorandum. We understand the biodata for Mr. Warner is on file in your office.

Attached are copies of pertinent cable traffic regarding the entire BVS evaluation team effort as requested in your telephone conversation of this date.

The project backstop officer is John Grayzel, NE/TECH/SARD (632-0488).

Attachments  
as stated

cc:NE/TECH/HPN, P. Johnson

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( Appendix A.

OVERVIEW OF THE EGYPTIAN BASIC VILLAGE SERVICES PROJECT

Funding: \$145m Grant  
75m PL 480 Title III  
39m GOE

First Operational Year: FY80  
Completion Date: 31 August 1985

Expenditures to data: \$182m, representing  
all PL 480 funds and \$107m of the Grant funds.

The purpose of the Basic Village Services Project is to improve and expand the capacity of villages and governorates to plan, manage, finance, implement, and maintain selected infrastructure projects.

There are 3560 sub-projects to date, encompassing 1425 village units in 20 of 21 rural governorates. 56% of these activities are in potable water systems, 24% in farm to market roads, 12% in sanitation and drainage, and 8% in markets, ferryboats, slaughterhouses, community halls, etc.

In terms of upgrading local capacity, the BVS Project has trained over 3000 local government engineers, planners, technicians, and local leaders in technical and management skills. Over 3000 more will be trained by the EOP.

BVS is establishing the first, automated, on-line rural development information system in Egypt. The installation of microcomputers in selected governorates will help support rural development initiatives at the local-level.

Finally, over 24,000 village council members spread over 650 village councils are being informed of their rights under the Egyptian decentralization laws. This has been called the largest "decentralization constituency" in the country.

Thus, the focus on infrastructural sub-projects and training is the means by which the decentralization process evolves.

SCOPE OF WORK FOR THE RURAL PUBLIC WORKS ENGINEER

This is the third mid-project evaluation of the BVS Project, the other two having been conducted in March 1981 and March 1982. As noted in the attached scope of work prepared by the USAID mission, this evaluation is in two phases. Phase I is descriptive and focuses on case studies in selected governorates. Phase II is evaluative, focusing not only on the substantive issues of the

1/100

BVS Project itself, but also on broader program and policy issues related to the decentralization sector. It is during this second phase that USAID requests the input of a US Contractor/Rural Public Works Engineer.

Working under the leadership and direction of the heads of the evaluation team during this "Comprehensive Phase", who are respectively Gary Hansen and Eric Chetwynd from the Bureau of Science and Technology/Rural Development, the engineer will produce a written report in-country on the following:

A. Sub-Project Engineering

1. Assess the quality, completeness, and appropriateness of sub-project design in target governorates. Though the focus will be on the design of water systems and roads, consideration will also be given to sanitation and drainage sub-projects.
2. Assess the quality and/or adequacy of sub-project construction work on BVS sub-projects.
3. Assess maintenance requirements as opposed to actual performance for specific sub-projects. Is infrastructure better provided and maintained as the result of BVS? Are maintenance requirements increasingly shifting to the local-level? Is there local-level management and use of the 10% maintenance fund?
4. Assess the environmental impact of BVS sub-projects. Are water/wastewater/sanitation sub-projects providing healthful and environmentally sound solutions to perceived problems? Is there adequate project-monitoring of environmental issues?
5. Identify the key constraints to improved design, construction, and maintenance of BVS sub-projects.

B. Technical Assistance and Training

Review and assess technical assistance with respect to engineering matters provided by CHEMONICS CO., including

1. Accuracy, completeness, and usefulness of engineering manuals produced by Chemonics, especially as to how the manuals relate to the rural Egyptian context.
2. Effectiveness of technical training provided by Chemonics. Are there more and better qualified technical personnel working on BVS sub-projects as a result of this TA?
3. Adequacy of field technical assistance provided by Chemonics. Is surveillance provided during design, construction, and maintenance phases?

C. Recommendations

1. Provide specific recommendations on ways in which the constraints identified above can be avoided or alleviated. Recommendations should be implementable within the current scope of the BVS Project.
2. Provide specific recommendations on the appropriate scale and emphasis of future technical assistance and training efforts during the remaining length of project period.

Contrary to the attached cable, the Comprehensive Phase of the evaluation will start o/a 12 February 1984 and continue through 15 March 1984. A six-day work week is authorized, yielding a total of 29 working days. The contractor is to be in-country by the 10/11th of February.

OTD # 180 - February 12, 1984

Technical Assistance in Evaluation of Provincial Cities Project - Egypt

AID/Egypt requested WASH assistance as part of a team to evaluate the on-going Provincial Cities Project. Major inputs to the Project are technical assistance, capital assistance, and training. Principal issues to be addressed by the evaluation are whether inputs are being achieved in a timely and effective manner, have they resulted to date in the outputs envisaged in the project paper, and have the inputs/outputs contributed to the timely accomplishment of the project goal and purpose. Other topics to be considered are the role of the Egyptian private sector in project implementation; the effectiveness of coordinated action by the Egyptian government, AID and the AID contractor; the role of Provincial Cities in decentralization and Egyptian development; and the extent to which capacity building ("institutionalization") is occurring as result of the project.

For further information, contact Mr. D. Donaldson.

Up to forty-five person days of effort, thirty-four days of international/ domestic per diem, one international air round trip and two domestic round trips are authorized over a three month period. Local travel up to \$1000 and up to \$700 for secretarial, graphics or reproduction services are also authorized.

WATER AND SANITATION FOR HEALTH (WASH) PROJECT  
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 180  
12 February 1984

TO: Dr. Dennis Warner, Ph.D., P.E.  
WASH Contract Project Director

FROM: Mr. Victor W. R. Wehman Jr., P.E., R.S.  
AID WASH Project Manager  
AID/S&T/H/WS

SUBJECT: Provision of Technical Assistance Under WASH Project  
Scope of Work for USAID/Cairo and NE/TECH/HPN

REFERENCES: A) Memo Johnson (NE/TECH/HPN) to Wehman (S&T/H/WS),  
dated 10 Feb 84  
B) Memo Donaldson (WASH) to Wehman (S&T/H/WS), dated  
9 Feb 84  
C) Cairo 36430, dated 12 Dec 83  
D) Draft Evaluation Scope of Work--Provincial Cities  
dated 2 Feb 84

1. WASH contractor requested to provide technical assistance to USAID/Cairo and NE/TECH/HPN as per Ref A, B, C and D. Contractor to provide consultant to Evaluation Team for purpose of providing input to evaluation team relating to the water supply and sanitation infrastructure development, capital project inputs/outputs, training and organizational/financial aspects of Provincial Cities Project.
2. WASH contractor/subcontractor/consultants authorized to expend up to 45 person days of effort over a three (3) month period to accomplish this technical assistance effort.
3. Contractor authorized up to 34 person days of international/domestic per diem to accomplish this effort.
4. Contractor to coordinate with NE/TECH/HPN (P. Johnson), Cairo desk officer, and USAID/Cairo staff and should provide copies of this OTD along with periodic progress reports as requested by NE Bureau or S&T/H staff.
5. Contractor authorized to provide up to one (1) international round trip from consultants home base through Washington to Cairo, Egypt and return to home base through Washington during life of this OTD.
6. Contractor authorized to provide up to two (2) domestic round trips from consultants home base to WASH CIC and return to consultants home base (for briefing and debriefing/report preparation) during life of OTD.
7. Contractor authorized local travel within Egypt as necessary and appropriate to accomplish tasks NTE \$1000 without the written approval of the AID WASH Project Manager.

8. Contractor authorized to obtain secretarial, graphics or reproduction services in Egypt as necessary and appropriate to accomplish tasks. These services are in addition to the level of effort specified in para 2 and 3 above and NTE \$700 without the prior written approval of the AID WASH Project Manager.
  9. Contractor authorized to provide for car/vehicle rental if necessary to facilitate effort. Mission is encouraged to provide maximum mission vehicle support available.
  10. WASH contractor will adhere to normal established administrative and financial controls as established for WASH mechanism in the WASH contract.
  11. WASH contractor should definitely be prepared to administratively or technically backstop field consultants and subcontractors.
  12. New procedures regarding cost estimates for subcontractors and approval for selection/justification of subcontractors/consultants remains in effect.
  13. Contractor to provide coordinated draft report in English to team leader (Pamela Johnson--AID/NE/TECH/HPN) before consultant leaves the country. No final report beyond the coordinated field draft report to the team leader is required. NE/TECH responsible for preparation and printing of the final evaluation report to Egypt.
  14. Mission and persons identified in para 4 above should be contacted immediately and technical assistance initiated as soon as convenient to USAID/Egypt and NE/TECH/HPN.
  15. Appreciate your prompt attention to this matter. Good luck.
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February 11, 1984

MEMORANDUM

TO: S&T/HEA, Vic Wehman

FROM: NE/TECH/HPN, Pamela Johnson, Acting Chief

SUBJECT: Mid-Egypt Provincial Cities Evaluation Request for Technical Support

Refs: Telcons: Zarr-Bell, January 31, 1984  
Johnson-Stephenson, February 1, 1984

The Bureau for Near East, with the concurrence of USAID/Cairo (References) requests that W.A.S.H. provide the services of a public works/sanitary engineer for the subject evaluation. We anticipate that up to 24 days of field work will be required, 1 day's briefing and up to 5 days' debriefing and final report preparation. The services are required to begin, in Cairo, February 20, 1984.

We understand, from you, that W.A.S.h. will nominate Robert Kachinsky for this assignment and that he is available. The Bureau and the Mission concur in this selection.

The scope of the work for the evaluation has been sent to you separately.

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B-437

MEMORANDUM

TO: Victor W. R. Wehman, Jr., P.E., R.S.  
AID WASH Project Manager

FROM: David Donaldson  
Associate Director

SUBJECT: Request for Technical Services for Evaluation of  
Provincial Cities Development Project

DATE: 9 February 1984

In response to S&T/H/WS's instructions, WASH has discussed with NE/TECH their request for WASH technical assistance to the Provincial Cities Development Project. As a result we have developed a suggested scope of work, a time budget and a consultant justification sheet.

The attached scope of work (Appendix A) presents the areas of work to be carried out during this mission. Under each work item are a series of questions for which the consultant will seek to develop answers.

In Appendix B WASH presents their estimates of the times required for the various aspects of this task as well as the funds that will be required for local travel and expenses. It is estimated that the task will start on about 20 February, will run for 4 weeks and will require 40 DPPD's and 33 Per Diem Days.

In addition, WASH is submitting the consultant justification sheet and budget for the proposed consultant, Mr. Robert Kachinsky, who has been cleared by NE/TECH after discussions with WASH.

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Department of State

INCOMING TELEGRAM <sup>J</sup>

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E.O. 12356: N/A  
SUBJECT: EVALUATION PROVINCIAL CITIES DEVELOPMENT;  
(263-K-685.3)

REF: STATE 333458

1. FOR PAMELA JOHNSON, NE/TECH/HR. AND JANE NAMDY,  
NE/TECH/CARD.

2. THE PCD PROJECT HAS BEEN IN IMPLEMENTATION FOR TWO YEARS. THE RESIDENT ADVISORS, WHO PROVIDE TECHNICAL ASSISTANCE ON A DAY-TO-DAY BASIS HAVE BEEN IN PLACE FOR OVER ONE YEAR. TRAINING COMPONENTS ARE WELL UNDER WAY. WATER/WASTEWATER MASTER PLANS WILL BE COMPLETED IN DECEMBER. PRIORITY NEEDS HAVE BEEN ADDRESSED IN OVER 11 SUBPROJECTS FOR PROCUREMENT OF COMMODITIES, DESIGN AND CONSTRUCTION. WITH THE COMPLETION OF MASTER PLANS AND IMPLEMENTATION OF MASTER PLAN RECOMMENDATIONS, THE PROJECT WILL ENTER A PHASE THAT INTENSIFIES CAPITAL INPUTS. AT THE SAME TIME, THE RESIDENT ADVISORS SHOULD HAVE MORE TIME TO DEVOTE TO LOCAL INSTITUTION BUILDING. USAID BELIEVES THAT EARLY CALENDAR 84 REPRESENTS A DEPARTURE POINT IN TERMS OF IMPLEMENTATION AND IS A NATURAL JUNCTURE FOR THE PERIODIC EVALUATIONS REQUIRED BY THE PP.

3. MAJOR PROJECT INPUTS ARE TECHNICAL ASSISTANCE, CAPITAL ASSISTANCE AND TRAINING. PRINCIPAL ISSUES TO BE ADDRESSED BY THE EVALUATION ARE: (A) WHETHER INPUTS ARE BEING ACHIEVED IN A TIMELY AND EFFECTIVE MANNER; (B) HAVE THEY TO DATE RESULTED IN THE OUTPUTS ENVISIONED BY THE PP; AND (C) HAVE INPUTS/OUTPUTS CONTRIBUTED TO THE TIMELY ACCOMPLISHMENT OF THE PROJECT GOAL AND PURPOSE.

4. WHILE ADDRESSING PRINCIPAL ISSUES, THE EVALUATION SHOULD LOOK CLOSELY AT THE FOLLOWING:

- INTEGRATION OF CAPACITY BUILDING COMPONENTS AND CAPITAL INPUTS AND THEIR MIX.
- SUFFICIENCY AND APPROPRIATENESS OF TRAINING EFFORTS.
- UTILIZATION TO-DATE OF PROJECT FUNDING.
- EFFECTIVENESS AND EFFICIENCY OF PROCEDURES IN CONTRACTING, LOCAL CURRENCY FINANCING AND SUBPROJECT APPROVALS, ETC.
- LOCAL CONTRACTING AND THE INVOLVEMENT OF THE PRIVATE SECTOR.
- RELATIVE CONTRIBUTIONS OF AID, THE CONTRACTOR AND GOE CENTRAL AND LOCAL ENTITIES.

5. PROJECT EMPLOYS THREE (3) ENGINEERS WHO MONITOR AND EVALUATE PROGRESS ON A DAILY BASIS AND REGULARLY REPORT TO THE PROJECT OFFICER. THESE REPORTS AND THE AVAILABILITY OF THE ENGINEERS TO ASSIST IN THE EVALUATION NEGATE THE NEED FOR A MULTI-DISCIPLINARY TEAM. USAID SUGGESTS THAT EVALUATION COULD BE ACCOMPLISHED BY TWO INDIVIDUALS FROM AID/W IN A THREE TO FOUR WEEK PERIOD. METHODOLOGY WOULD BE A COMBINATION OF REVIEW OF ABOVE RECORDS; MONTHLY PROGRESS REPORTS; SITE VISITS; INTERVIEWS WITH GOE PERSONNEL; AND REVIEW OF FINANCIAL RECORDS. IT WOULD BE USEFUL FOR THE TWO INDIVIDUALS, BETWEEN THEM, TO HAVE BACKGROUNDS CONDUCTIVE TO EVALUATION OF TA/TRAINING INPUTS AS WELL AS CAPITAL INPUTS/OUTPUTS.

6. IN VIEW OF A HEAVY WORKLOAD ON PROJECT IN JANUARY 84, USAID REQUESTS THAT EVALUATION BE CONDUCTED IN FEBRUARY OR MARCH. WE REQUEST PAMELA JOHNSON FROM NE/TECH/HPN TO SERVE ON THE TEAM; WE WOULD APPRECIATE AID/W'S IDENTIFYING AN APPROPRIATE INDIVIDUAL FROM NE/PD TO COMPLETE THE TEAM. AN ENGINEERING BACKGROUND IS NOT NECESSARY, BUT AN UNDERSTANDING OF CAPITAL DEVELOPMENT PROJECTS IS IMPORTANT. UPON AGREEMENT ON TEAM, USAID WILL CABLE ALLOTMENT/APPROPRIATION INFORMATION TO COVER TRAVEL AND PER DIEM. VELIOTES

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DRAFT EVALUATION SCOPE OF WORK  
PROVINCIAL CITIES

1. Document the extent to which the originally planned inputs and outputs have been achieved to date. (Have both the U.S. and the GOE contributed the necessary funds and other inputs in the quantities envisioned? Have these scheduled inputs been necessary and sufficient to achieve the outputs as planned? Are the scheduled outputs being achieved on a timely basis? Are the various outputs — in particular, the physical construction versus the capacity building components — being coordinated and integrated adequately and effectively?)
2. Comment on progress toward purpose (and if/where possible, goal) level achievements. (Are the three participating governorates improving in their capacities to identify, plan for, budget, finance, design, construct and maintain urban infrastructure and services? Are these improving capacities contributing — and/or will they contribute in the future — to greater economic and administrative decentralization in Egypt?). Include in this discussion an assessment of: (a) any external (non-project) factors influencing purpose and/or goal level achievements (e.g., unanticipated changes in population growth in participating areas); (b) the appropriateness of project assumptions (e.g., regarding local revenue collection and retention, availability of qualified local staff); and (c) the appropriateness and adequacy of stated project outputs in achieving the stated project purpose and/or goal. In addition, based on progress to date, speculate on the potential for full purpose and goal level achievements within the planned life of project. Include consideration of the potential permanence and self-perpetuation of purpose and goal level achievements. If and where appropriate, recommend ways in which the project design and/or implementation might be altered to enhance the eventual achievement of project objectives.
3. Assess the project's impact to date. (Have infrastructure and services been expanded to previously unserved areas? Have previously poor infrastructure and services been improved? What is the perception of any improvements and expansions by residents of affected communities? and with what effect — e.g., rising expectations, changes in attitude toward local government, changes in perceptions toward local participation?)
4. Discuss the role of the Egyptian private sector in project implementation. (Have local firms been involved? Is their involvement as anticipated in the project design? Can any potential spread effects or self-sustaining influences in greater private sector involvement in local development be perceived?)
5. Comment on the relative contributions of the various implementing agents (GOE, AID and contractor) in project (and broader sector) progress and achievements and on the interrelationships between the various participating entities involved. (How effectively do the various levels and types of organizations communicate and cooperate? Does the large number of organizations involved in implementation facilitate, inhibit or have no effect on project progress?)

6. Comment on project implementation across the three participating governorates, noting reasons for any differences in project performance between them. Document the speed and quality of the administration and management of project activities and the rate and nature of project-related changes across governorates.

7. Assess the role of Provincial Cities in affecting policy changes (actual and perceived) relative to overall Decentralization objectives and goals in Egypt. Distinguish between the role of the project as designed and as implemented if necessary.

8. Assess the extent to which capacity building ("institutionalization") is occurring as a result of the project.

9. Speculate on the future role of middle size cities in Egyptian development. (Will the cities participating in this project likely be important sources of growth and development for Egypt over time? In what capacity?)

OTD #181 - February 21, 1984

Technical Assistance On Project Paper  
for Housing/Sanitation Program - Tunisia

The AID Regional Housing Office (RHUDO) in Tunisia requested WASH technical assistance in preparing the project paper for a combined Housing/Sanitation Program. WASH will provide a sanitary engineer and an economist who, as part of a five person team, will prepare the sanitation/sewerage component. Their contribution will include criteria for beneficiary identification, technical project descriptions, review of standards, a program financing plan, affordability analysis, institutional analysis, an implementation plan, and a cost/benefit analysis. The team will also assist in coordinating efforts with existing sanitation projects funded by the World Bank, Kuwaiti Fund, and Tunisian government agencies, and in identifying and negotiating specific sanitation/sewerage projects to be funded.

For further information, contact Mr. F. Rosenweig.

Up to sixty person days, forty-six days of international/domestic per diem, two international air round trips, and two domestic air round trips are authorized over a three month period. Local travel expenses up to \$1400 and up to \$1200 for secretarial, graphics, reproduction and interpreter services are also authorized.

JEB/CIC  
2/28/84

WATER AND SANITATION FOR HEALTH (WASH) PROJECT  
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 181  
21 February 1984

TO: Dennis Warner, Ph.D., P.E.  
WASH Contract Project Director

FROM: Victor W. R. Wehman Jr., P.E., R.S.  
AID WASH Project Manager  
AID/S&T/H/WS

SUBJECT: Provision of Technical Assistance Under WASH Project  
Scope of Work for RHUDO/Tunisia and USAID/Tunisia

REFERENCES: A) Memo Swerdlin (PRE/Housing) to WASH, dated 16 Jan 84  
B) Tunisia Housing and Sanitation Program (608-HG-004-A2)  
Draft Scope of Work for the Sanitation/Sewerage  
Component  
C) WASH Telex No. 850, dated 2/17/84

1. WASH contractor requested to provide technical assistance to as per Ref. A. and Ref. B. Contractor to provide the services of Water Supply Economist and senior environmental/civil engineer to work with other RHUDO/Tunisia team members in preparing RHUDO Project Paper. WASH consultants will report to team leader identified by RHUDO/Tunisia at start of effort. Consultants reports will be made to RHUDO/Tunisia through team leader in the field. No final reports are required for this effort other than satisfactory coordinated field reports from consultants through team leader.

2. WASH contractor/subcontractor/consultants authorized to expend up to 60 person days of effort over a 3 month period to accomplish this technical assistance effort.

3. Contractor authorized to expend up to 46 person days of international/  
per diem to accomplish this effort.

4. Contractor to coordinate with RHUDO/Tunisia, PRE/H (D. Swerdlin), and Tunisia Desk Officer and should provide copies of this OTD along with periodic progress reports as requested by RHUDO/Tunisia, PRE/H, and S&T/H staff.

5. Contractor authorized to provide up to 2 international round trips from consultants home base through Washington D.C. to Tunis, Tunisia and return to consultants home base through Washington D.C. during life of this OTD.

6. Contractor authorized to provide up to 2 domestic round trips from consultants home base to Washington D.C. and return to consultants home base during life of OTD.

DOMESTIC  
JWW 2-22-84

7. Contractor authorized local travel within Tunisia as necessary and appropriate to accomplish tasks NTE \$1400 without the written approval of the AID WASH Project Manager.

8. Contractor authorized to obtain secretarial, graphics, reproduction or interpreter services in Tunisia as necessary and appropriate to accomplish tasks. These services are in addition to the level of effort specified in para 2 and 3 above. Costs of these services NTE \$1200 without the written approval of the AID WASH Project Manager.

9. Contractor authorized to provide for car/vehicle(s) rental with drivers if appropriate and necessary to facilitate effort. Mission is encouraged to provide Mission vehicles, if available and appropriate.

10. WASH contractor will adhere to normal established administrative and financial controls as established for WASH mechanism in WASH contract.

11. WASH contractor should definitely be prepared to administratively or technically backstop field consultants and subcontractors.

12. New procedures regarding cost estimates for subcontractors and approval of selection/justification for consultants/subcontractors remains in effect.

13. Contractor to prepare coordinated field draft report before consultant leaves the field. Final report is due to AID within 30 days of return of consultant to the U.S. Coordinated field draft report to be prepared in English or French as required by RHUDO. No final report to be prepared.

14. Mission and individuals identified in para 4 above should be contacted immediately and technical assistance initiated as soon as convenient to the Mission.

15. Appreciate your prompt attention to this matter. Good luck.

January 16, 1984

MEMORANDUM

TO : W.A.S.H., Fred Rosensweig  
FROM : PRE/H, Dean Swerdlin  
SUBJECT : P.P. Team for Tunisia Housing and Sanitation Program

Attached, please find a draft scope of work for your review on the development of a project paper for the Tunisia Housing and Sanitation Program. The attached scope is specifically for the sanitation/sewerage component. The project paper team leader will be Sonia Hammam from the RHUDO/Tunis office in Tunisia.

This assignment is essentially a follow up assignment of your work in September on an assessment of ONAS, the Thirty Cities Project, and Greater Tunis Project.

The scope of work is self explanatory. Of importance is the request that one of the team members for this assignment have worked on the prior team visit, (preferably John Tomarro). The estimated starting date has been pushed up from February 15 to February 27, 1984.

PRE/H has several Indefinite Quantity Contracts with contractors who have experience in the housing/urban sectors. PRE/H is considering for this particular assignment, that one of the team members be contracted through Resource Applications, Inc. (R.A.I.). R.A.I. has experienced consultants in urban infrastructure programs, and thus is being asked to identify potential sanitation engineers and urban financial analysts for this assignment. PRE/H will contract one of the team members through R.A.I., preferably the sanitation engineer.

WASH will be responsible for providing two persons of the three-man team. Please review the attached scope of work and provide the names and bio-data on qualified candidates for the institutional analyst and urban financial analyst positions. If contracting, through R.A.I., the sanitation engineer does not work out, PRE/H will request that WASH proceed with identifying an appropriate candidate.

Please contact me at 632-3780 with any questions or need for additional information. I have been in contact with Victor Wehman of S&T/H, concerning the contracting procedures for the WASH team members.

cc. Victor Wehman, S&T/H

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TUNISIA HOUSING AND SANITATION PROGRAM  
608-HG-004-A2

DRAFT SCOPE OF WORK FOR THE SANITATION/SEWERAGE COMPONENT:

2. BACKGROUND: THE RNUDD/TUNIS OFFICE IN RESPONSE TO A REQUEST BY THE GOVERNMENT OF TUNISIA TO USE HG FUNDS AND RESOURCES FOR A COMBINED HOUSING/SANITATION PROGRAM IS PROCEEDING WITH PROJECT DEVELOPMENT AND PREPARATION OF A PAPER COVERING:

- (1) THE HOUSING COMPONENT (SITES AND SERVICES) TO BE IMPLEMENTED BY A.F.N., THE LAND DEVELOPMENT AGENCY OF THE MINISTRY OF HOUSING
- (2) THE SANITATION/SEWERAGE COMPONENT TO BE IMPLEMENTED BY ONAS, THE NATIONAL SEWERAGE AUTHORITY OF THE MINISTRY OF EQUIPMENT WHICH COVERS GREATER TUNIS, AND THE THIRTY CITIES PROGRAM

3. SANITATION: THE OBJECTIVE IS FOR A WASH TEAM WORKING WITH ONAS AND THE RNUDD/TUNIS OFFICE TO PREPARE AND DEVELOP THE SANITATION/SEWERAGE COMPONENTS

A. SCOPE OF WORK: SERVICES OF A TEAM FROM WASH ARE NEEDED FOR THE FOLLOWING:

- (1) ASSIST RNUDD/TUNIS ON THE DESIGN AND DEVELOPMENT OF PAPER (THAT FOLLOWS PROJECT PAPER GUIDELINES AS STATED IN AID HANDBOOK 3)
- (2) USING PAST REPORTS, (WASH PRELIMINARY REPORT OF AUGUST 1983, AND WASH REPORT OF OCTOBER 1983) REVIEWING INFORMATION SUBMITTED BY ONAS, THE WASH TEAM WILL RECOMMEND ON A PRIORITISED BASIS THE SPECIFIC SANITATION/SEWERAGE COMPONENTS AND AMOUNTS ELIGIBLE FOR HG FINANCING. THIS CAN BE DONE ON THE BASIS OF SITE SPECIFIC PROJECTS OF BY DEVELOPING CRITERIA SHOWING PROPORTIONATE SHARE OF BENEFITS ACCRUING TO LOW INCOME GROUPS IN POOR NEIGHBORHOODS IN THE GREATER TUNIS PROJECT AND EXTENT TOWN WITH THIRTY CITIES PROGRAM BENEFITS LOW INCOME GROUPS. BENEFICIARY IDENTIFICATION IS AN ESSENTIAL PART OF DESIGN OF THIS PROGRAM FOR HG PURPOSES.
- (3) PREPARE IN FORMAT SUITABLE FOR INCLUSION IN A PROJECT PAPER.
  - TECHNICAL ANALYSIS PROVIDING DETAILED TECHNICAL PROJECT DESCRIPTIONS FOR BOTH GREATER TUNIS AND THIRTY CITIES PROJECT. REVIEW OF STANDARDS AND IDENTIFYING SPECIFIC LOW INCOME RESIDENTIAL AREAS AS SHARE OF TOTAL PROJECT.
  - FINANCIAL ANALYSIS AND PLAN. THIS WOULD INCLUDE PROGRAM FINANCING PLAN SHOWING SOURCES AND USES OF FUNDS, COST ESTIMATES, ESTIMATED DISBURSEMENT NEEDS FOR HG FINANCED PORTIONS, ANALYSIS OF COST RECOVERY PROCEDURES, TERMS AND CONDITIONS TO BENEFICIARIES - PROJECT CASH FLOW.
  - SOCIAL ANALYSIS - PROFILE OF BENEFICIARIES OF PROGRAM, AFFORDABILITY ANALYSIS.
  - INSTITUTIONAL ANALYSIS, DESCRIPTIONS OF ONAS ROLE AND

CAPACITY (FINANCIAL, TECHNICAL AND MANAGERIAL) TO IMPLEMENT PROJECTS.

- IMPLEMENTATION PLAN - TO INCLUDE IMPLEMENTATION SCHEDULE, FINANCIAL AND TECHNICAL MONITORING OF PROJECTS AND EVALUATION. PROCEDURES, ADMINISTRATIVE ARRANGEMENTS AND COORDINATION WITH OTHER INSTITUTIONS.
- ECONOMIC ANALYSIS SHOWING PROJECT COSTS AND BENEFITS. THE TEAM WILL ASSIST IN COORDINATING EFFORTS WITH THE WORLD BANK AND KUWAITI FUND AND OTHER APPROPRIATE GOVERNMENT OF TUNISIA AGENCIES AND IN NEGOTIATING AND IDENTIFYING THE SPECIFIC SANITATION/SEWERAGE PROJECTS TO BE FUNDED.
- (4) COMPLETE ANY OTHER RELATED WORK AS NEEDED AND DIRECTED BY THE RNUDD

B. TIMING: IT IS EXPECTED THAT 3 1/2 WEEKS (18 WORKING DAYS IN THE FIELD) WILL BE REQUIRED STARTING ON OR ABOUT FEBRUARY 15. PRIOR TO FIELD WORK TEAM SHOULD REVIEW AVAILABLE DATA WITH THE WORLD BANK FOR PERIOD OF UP TO 5 WORKING DAYS.

C. LEVEL OF EFFORT: A THREE MAN TEAM IS ANTICIPATED FOR THIS ASSIGNMENT: A) ONE INSTITUTIONAL/ANALYST; B) ONE SANITATION ENGINEER. C) ONE FINANCIAL ANALYST. THE TEAM MEMBERS MUST SPEAK FRENCH (PSI 3 LEVEL AND ABOVE IS DESIRABLE). AT LEAST ONE MEMBER OF THE PRIOR TEAM VISIT IS REQUESTED FOR THIS ASSIGNMENT.

D. MANAGEMENT: THE RNUDD/TUNIS OFFICE TEAM WILL COORDINATE ALL PROJECT PAPER EFFORTS AND FORWARD A BRIEFING MEMORANDUM TO THE TEAM PRIOR TO THEIR ARRIVAL. THE WASH TEAM WILL BE RESPONSIBLE TO THE RNUDD AND WILL LEAVE FIRST DRAFTS, AS WELL AS DATA, AND INFORMATION WITH THE RNUDD IN THE FIELD.

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WATER AND SANITATION FOR HEALTH (WASH) PROJECT  
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 181  
AMENDMENT NO. 1

3 March 1984

April 1984

TO: Dr. Dennis Warner, Ph.D., P.E.  
WASH Contract Project Director

FROM: Mr. Victor W. R. Wehman Jr., P.E., R.S.  
AID WASH Project Manager  
AID/S&T/H/WS

SUBJECT: Provision of Technical Assistance Under WASH Project  
Scope of Work for RHUDO/Tunisia and USAID/Tunisia

REFERENCES: A) OTD # 181, dated 21 Feb 1984

1. Para 2 to subject OTD # 181 (Ref A) is cancelled. New para 2 to subject OTD # 181 (Ref A) is now to read as follows:

"2. WASH contractor/subcontractor/consultants authorized to expend up to 75 person days of effort over a three (3) month period to accomplish this technical assistance effort."

2. Para 3 to subject OTD # 181 (Ref A) is cancelled. New para 3 to subject OTD # 181 (Ref A) is now to read as follows:

"3. Contractor authorized to expend up to 51 person days of international/domestic per diem to accomplish this effort."

3. Nothing follows.

2/16

OTD #183 - May 9, 1984

Review of Wastewater Treatment Facilities - Jordan  
and NE/PD/ENV

AID/Jordan requested WASH technical assistance to conduct a comparative review of two operational wastewater treatment facilities. Aspects to be covered include the methods being used to recover the wastewater for further economically productive use; design operation, and maintenance problems and procedures; the monitoring plan being used to protect public health and the environment; and the procedures undertaken to insure that there are no adverse public health or environmental impacts.

For further information, contact D. Donaldson.

Up to twenty-six person days of effort, twenty-one days of international/domestic per diem, one international air round trip, and one U.S. domestic air round trip are authorized over a one month period. Local travel up to \$1,100 and up to \$750 for secretarial, graphics, reproduction and interpreter services are also authorized.

JEB/CIC  
5/14/84

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April 24, 1984

MEMORANDUM

TO: S&T/H, Victor Wehman *gfw*  
THRU: NE/PD, Robert H. Bell *RB*  
FROM: NE/PD/ENV, Barbara A. Ormond *BAO*  
SUBJECT: Request for WASH assistance: Travel of Robert Kachinsky

Background: AID/NE with the support of the US Embassy in Tel Aviv and USAID/Amman has determined that it is timely to conduct a comparative review of environmental aspects of two wastewater treatment facilities bordering the Gulf of Aqaba. The review will examine current operation and maintenance experience in the use of pond technology for the treatment of wastewater for reuse in restricted irrigation. The proposed team is composed of Stephen F. Lintner, NE/PD/ENV, and Robert Kachinsky, senior vice president of Camp Dresser & McKee. Mr. Lintner's participation will be covered under Bureau operating expenses. WASH assistance is requested for the participation of Mr. Kachinsky. Proposed travel dates are May 15 to June 1, 1984.

Proposed Activity: It is proposed that Stephen F. Lintner and Robert Kachinsky travel to Jordan and Israel to review with experts in these countries their experience with pond technology for the treatment of wastewater. This review is timely due to the planned expansion of the use of this technology in a number of AID assisted countries in the Near East region including Egypt and Tunisia. It also provides an opportunity to review plans and experience in the reuse of treated wastewater for restricted irrigation and monitoring programs for such activities.

Attachment: Detailed budget

WATER AND SANITATION FOR HEALTH (WASH) PROJECT  
ORDER OF TECHNICAL DIRECTION (OTD) NUMBER 183  
9 MAY 1984

TO: Dennis Warner, Ph.D., P.E.  
WASH Contract Project Director

FROM: Victor W. R. Wehman Jr., P.E., R.S.  
AID WASH Project Manager  
AID/S&T/H/WS

SUBJECT: Provision of Technical Assistance Under WASH Project  
Scope of Work for NE/PD/ENV and USAID/Jordan

REFERENCES: A) Memo Bell (NE/PD) to Wehman (S&T/H/WS),  
dated 4/24/84

1. WASH contractor requested to provide technical assistance to as per Ref. A. The consultant will visit two operational wastewater recovery sites to determine (a) the types of methods being used recover the wastewater for further economically productive use, (b) the design, operation and maintenance problems and procedures resulting from recovering and reusing wastewaters, (c) the monitoring plan being used to protect public health and the environment, (d) the mechanisms being used to ensure that there are no adverse public health or environmental impacts.
2. WASH contractor/subcontractor/consultants authorized to expend up to 26 person days of effort over a 1 month period to accomplish this technical assistance effort.
3. Contractor authorized to expend up to 21 person days of international per diem to accomplish this effort.
4. Contractor to coordinate with NE/PD/ENV (Lintner and Ormond), Jordan AID Desk Officer, NE/PD/ENG and NE/TECH/HNP and should provide copies of this OTD along with periodic progress reports as requested by NE Bureau and S&T/H/WS staff.
5. Contractor authorized to provide up to 1 international round trips from consultants home base through Washington D.C. to Jordan and Israel and return to consultants home base through Washington D.C. during life of this OTD.
6. Contractor authorized to provide up to 1 domestic round trip from consultants home base to Washington D.C. and return to consultants home base during life of OTD.
7. Contractor authorized local travel within Jordan and Israel as necessary and appropriate to accomplish tasks NTE \$1100 without the written approval of the AID WASH Project Manager.

8. Contractor authorized to obtain secretarial, graphics, reproduction or interpreter services in Jordan and Israel as necessary and appropriate to accomplish tasks. These services are in addition to the level of effort specified in para 2 and 3 above. Costs of these services NTE \$750 without the written approval of the AID WASH Project Manager.

9. Contractor authorized to provide for car/vehicle(s) rental with drivers if appropriate and necessary to facilitate effort. Mission is encouraged to provide Mission vehicles, if available and appropriate.

10. WASH contractor will adhere to normal established administrative and financial controls as established for WASH mechanism in WASH contract.

11. WASH contractor should definitely be prepared to administratively or technically backstop field consultants and subcontractors.

12. New procedures regarding cost estimates for subcontractors and approval of selection/justification for consultants/subcontractors remains in effect.

13. Contractor to prepare coordinated field draft report before consultant leaves the field. Final report is due to AID within 30 days of return of consultant to the U.S. Coordinated field draft report to be prepared in English and final report to be prepared in English.

14. Mission and individuals identified in para 4 above should be contacted immediately and technical assistance initiated as soon as convenient to the Mission.

15. Appreciate your prompt attention to this matter. Good luck.

C113 Sanitation for Unsewered Urban Areas - NE/TECH

The Near East Bureau has requested assistance in developing a project component that will deal with various methods of wastewater, excreta and solid waste disposal in unsewered zones of urban areas.

The first assistance step will be synthesis study to identify, describe and assess the effectiveness and reliability of various approaches to solving sanitation problems in high density unsewered areas.

This will include the technical mechanisms and processes being used; the institution(s) involved; the types, numbers and training of the manpower being utilized; costs of services; funding of capital and recurrent costs by governments, private organizations and user charges; complementary health/hygiene education activities; and forms of support and participation by communities and the private sector.