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Project in Development and the Environment

General Annexes

February 1995

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USAID/ANE
Submitted by:
PRIDE

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Sponsored by:
USAID/ANE
Implemented by:
Chemonics International
and its associates

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The objective of the Project in Development and the Environment (PRIDE) is to help the U.S. Agency for International Development (AID) design and implement programs that foster the agency's environmental and natural resources strategy for sustainable economic growth in the Near East and Eastern Europe.

PRIDE provides AID and participating countries with advisory assistance, training, and information services in four program areas: (1) strategic planning, (2) environmental policy analysis, (3) private sector initiatives, and (4) environmental information, education, communication, and institutional strengthening.

The project is being implemented by a consortium selected through open competition in 1991. Chemonics International is the prime contractor; subcontractors include RCG/Hagler, Bailly, Inc.; Science Applications International Corporation; Capital Systems Group, Inc.; Environomics, Inc.; Industrial Economics, Inc.; Lincoln University; and Resource Management International, Inc. In addition, AID has entered into a cooperative agreement with the World Environment Center to support implementation of PRIDE.

The opinions expressed in this paper are those of the author(s) and do not necessarily reflect the positions of the sponsoring agency or contractors.

General Annexes

By:

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February 1995

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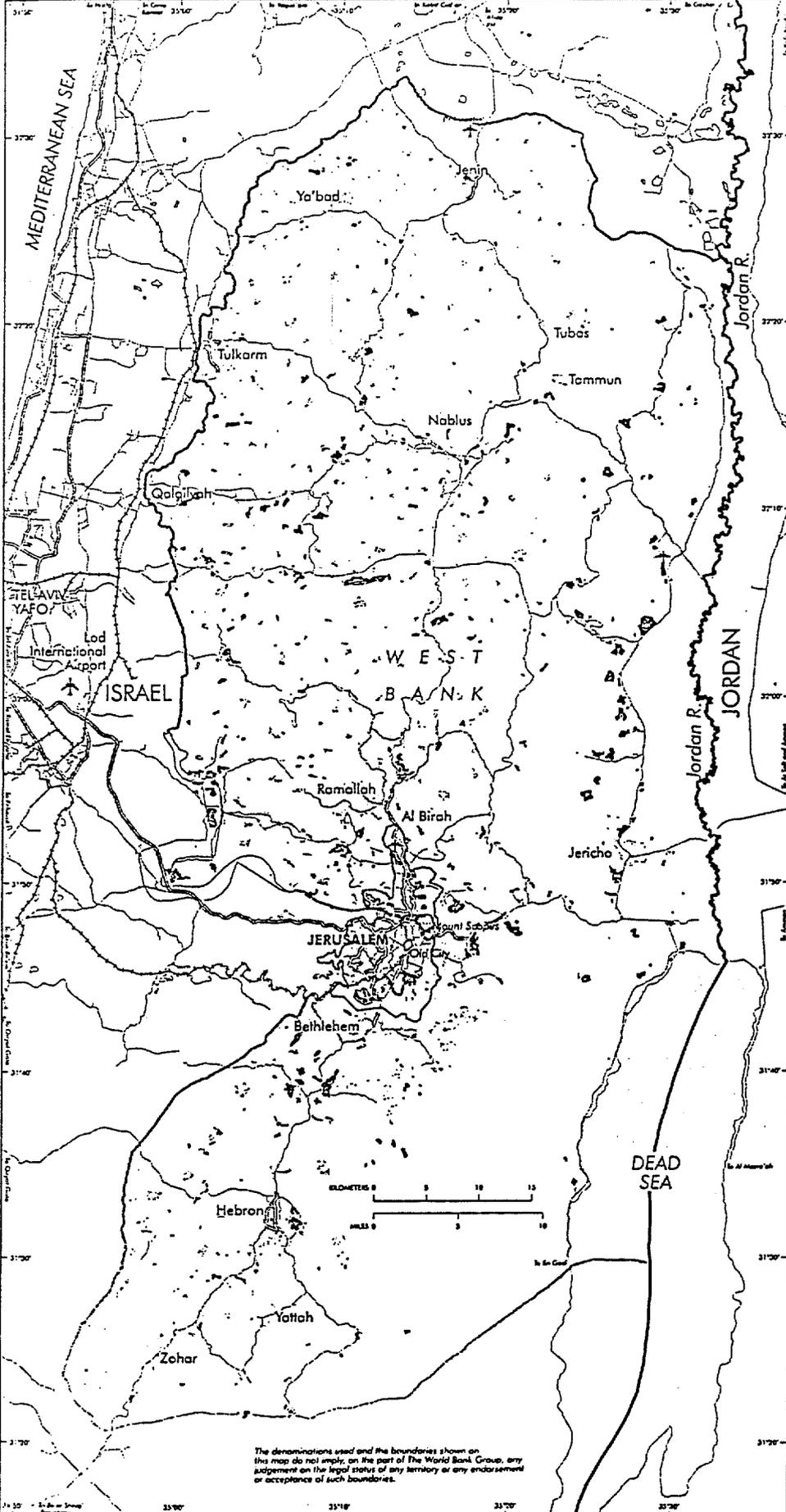
GENERAL ANNEXES INTRODUCTION

As indicated in the Preface to the reports accompanying this volume, the Scope of Work (SOW) called for the PRIDE team to conduct an environmental assessment (EA) for the Ramallah Wastewater Systems project, a project of American Near East Refugee Aid (ANERA), and three programmatic environmental assessments (PEAs) for: (1) West Bank Integrated Rural Development/Capacity Building project, Catholic Relief Services (CRS); (2) Institutional Development project, Save the Children Federation (SCF); and (3) Cooperative and Municipal Development project, ANERA.

The SOW for the four PVO projects (tasks) called for the team to follow USAID's environmental regulations while working the projects in tandem by consolidating the tasks. These four environmental assessments were conducted from July 13 through September 30, 1994.

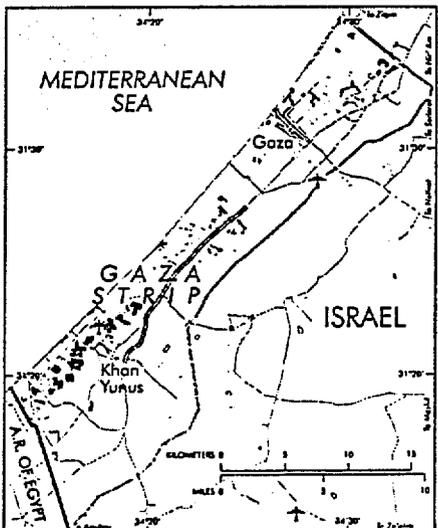
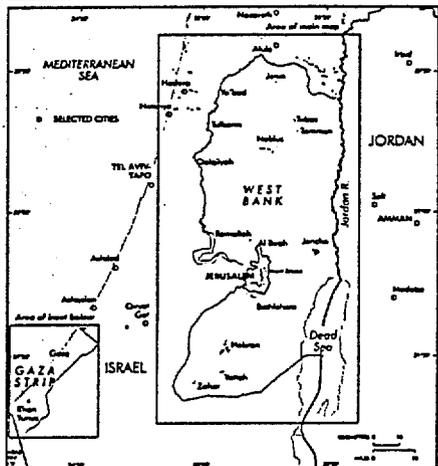
Due to these reporting requirements, the reports that resulted from this assignment are bound into four separate volumes, each with their related annexes. The general annexes common to all four individual reports are bound into this fifth volume entitled "General Annexes."

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OCCUPIED TERRITORIES WEST BANK AND GAZA STRIP

- ✚ AIRPORTS / AIRFIELDS
- MAJOR HIGHWAYS
- TWO OR MORE LANES, HARD SURFACED ROADS
- RAILROADS
- ▭ BUILT-UP AREAS
- ▭ UNRWA REFUGEE CAMPS
- ▭ ISRAELI SETTLEMENTS
- ARMISTICE DEMARCATION LINES, 1949
- ▭ NO-MAN'S LAND AREAS, ARMISTICE DEMARCATION LINE, 1949
- JERUSALEM CITY LIMIT, UNILATERALLY EXPANDED BY ISRAEL JUNE 1967; THEN ANNEXED JULY 30 1980
- INTERNATIONAL BOUNDARIES



The denominations used and the boundaries shown on this map do not imply, on the part of The World Bank Group, any judgement on the legal status of any territory or any endorsement or acceptance of such boundaries.

IBRD 24834R



ANNEX A
ACTIVITIES SCHEDULE

7/15 Team Briefing, PRIDE Project, Washington, DC

Paul des Rosiers (PDR), Senior Environmental Specialist, USAID
Rebecca Latorraca (RL), R&RS, USAID
Sharon Fee (SF), GDO, USAID
Avrom Bendavid-Val (ABV), Chief of Party, PRIDE, Washington, DC
Lena W. Dajani (LWD), Project Administrator, PRIDE, Washington, DC
Brian Dotson (BD), Project Assistant, PRIDE, Washington, DC
Jack Earl Farmer (JEF), Team Leader, PRIDE
Stuart Wollman (SW), Resource Management Specialist
Joseph Karam (JK), Environmental Engineer
Nader Al-Khatib (NA-K), Local Water Supply Specialist
Ramez El-Titi (RE-T), Local Civil Engineer

7/16 Team Leader (JEF) travels from Washington, DC to East Jerusalem

7/17 6:00 p.m. Meeting with Paul (PDR), Jack (JEF) and Rebecca (RL) to discuss scheduling

7/18 10:00 a.m. Visited Pilgrim's Palace Hotel to verify that Scoping Session space was sufficient

11:00 a.m. Meeting with Karen Turner (KT) and Sufian Mshayha at USAID in West Jerusalem

2:00 p.m. Meeting with Ramez (RE-T) to review scheduling and contract

5:00 p.m. Meeting with Nader (NA-K) to review scheduling and contract

7/19 10:00 a.m. Meeting at ANERA with Lance Matteson and staff to arrange site visits and brief them on Scoping Session

3:00 p.m. Meeting with Dr. zakaria El Qaq from the Israel/Palestine Center for Research and Information

- 7/20 9:00 a.m. Meeting at Save the Children Federation (SCF)
- 10:00 a.m. SCF site visits at Tquua. Village areas a) Kissan - unfinished latrines; b) Rashaydeh - completed latrines both indoors and out. Accompanied by Khalil Nijem, Senior Construction Coordinator acting as SCF deputy director, and Kayed Janzreh, SCF Senior Agricultural Coordinator. Also Sufian Mshayha.
- 2:30 p.m. Meeting with Catholic Relief Services (CRS) and Dominique Philippon, Program Manager, and Bassam Kort, Program Manager of the Rural Development Project
- 7/21 All day Field trips for RL, JEF and PDR to SCF sites
- 7/22 All day Ramallah site visits for JEF, PDR, and RL with ANERA staff
- 7/23 (Tentative field trips for SCF or CRS)
- 7/24 Arrival of SW and JK. Briefing on schedule and activities (Sundays will normally be the Team's day off)
- 7/25 9:00 a.m. Scoping Session meeting at Pilgrim's Palace Hotel, East Jerusalem (entire team)
- (Tentative field trips for CRS)
- 7/26 ANERA field trips to visit Coops and Municipalities (entire team, except NA-K)
- 7/27 Scoping Session at Ramallah Municipal Hall (Mayor)
Site visits at Bir Zeit University
(entire team except NA-K)
- 7/28 ANERA field trip to Gaza (entire team)
- 7/29 Finish Scoping Statement and fax by 4:00 p.m. to USAID, Washington, DC with response-back letter authorizing EA and PEAs (entire team except NA-K)
- 7/30 5:00 a.m. RL leaves
Team coordination meeting, start PEAs
- 7/31 Team day off
- 8/1 Field trips with PDR and entire team to Ramallah sites
- 8/2 Field trips with PDR and entire team to Ramallah sites

- 8/3 Field trips with PDR and entire team to Ramallah sites
- 8/4 3:00 a.m. PDR leaves for USA
- Field trips with CRS or others
- 8/5 Field trips with CRS or others
(Note: NA-K will work Fridays, Saturdays, and Mondays)
- 8/6 Team (with NA-K) review and coordination
- 8/7 Team day off
Short evening meeting
- 8/8 Ramallah Wastewater - ANERA - Agricultural Marketing Co-op and Municipality
- 8:30 a.m. ANERA
- 9:00 a.m. Agricultural Marketing Co-op (Ramallah) with NA-K
- 3:30 p.m. American Colony Hotel, entire team, JK discusses ANERA outline
- 8:15 p.m. JEF meeting with Bob Gearhart (PECDAR WB Project)
- 8/9 Ramallah Wastewater and Wastewater and Agricultural Marketing Co-op Sites
- 10:00 a.m. PEPA meeting
- 3:00 p.m. CRS office, Jericho
- 8/10 6:00 p.m. Field site visits, West Bank, CRS
- 8/11 6:00 p.m. SCF coordination meeting, West Bank
- 8/12 9:00 a.m. Meet with PEPA (Bethlehem) and Applied Research Institute of Jerusalem, West Bank, with NA and K
- 2:30 p.m. Meet with Palestinian Hydrology Group (Jerusalem and Bethlehem) - Hydro-Geological Group
- 8/13 American Colony Hotel
Team coordination meeting and writing with NA and K
Workshop on public awareness at Bir Zeit University on water and wastewater
- 8/14 Team day off

- 8/15 Team writing day
NA and K in Gaza for workshop on public awareness in Gaza at the Shawa Cultural Center
- 8/16 8:00 a.m. Field trip with SCF by SW and NA-K
- Team writing day
ANERA wastewater chapters 1, 2, and 4 - draft to JK (hard copy)
- 8/17 5:00 p.m. Team meeting
- Team writing day
- 8/18 8:30 a.m. JEF meeting with Sufian Mshayha at USAID office
- 1:30 p.m. JK and JEF at UNDP office
- Team writing day
ANERA wastewater chapter 3, draft #1 - comments to JK
Advise USAID/Tel Aviv of Gaza trip scheduled for Monday 8/22
- 8/19 9:00 a.m. Team review of ANERA wastewater draft #1 at ANERA office
- Team writing day
JK's comments on ANERA wastewater chapters 1, 2, and 4
Draft #1
- 8/20 5:00 p.m. Team coordination meeting at the American Colony Hotel to discuss ANERA Co-op and Municipality outline
- Writing day
SCF Chapters 1, 2, and 3 - draft #1 to SW (hard copy)
SW last day
- 8/21 Team day off
- 8/22 8:30 a.m. Leave hotel for meeting at ANERA wastewater, Ramallah Municipality
- ANERA wastewater chapters 1, 2, and 4 - draft #2 to JK on disk
SCF chapters 1, 2, and 3 - SW's comments on draft #1
LWD arrives

- 8/23 9:00 a.m. Arrive Gaza for ANERA Co-op, agricultural co-op and market site in Gaza (full team)
- ANERA wastewater chapters 5, 6, and 7 - draft #1 to JK (hard copy)
CRS chapters 1, 2, and 3 - draft #1 to SW (hard copy)
- 8/24 12:00 p.m. Bir Zeit University, Planning Sect., re: Ramallah wastewater project
4:00 p.m. Team meeting at American Colony Hotel
- SCF chapters 4, 5, and 6 - draft #1 to SW (hard copy)
- 8/25 1:00 p.m. CRS meeting at American Colony Hotel with JEF
3:00 p.m. SCF meeting at American Colony Hotel with JEF
4:30 p.m. Meeting with Dr. Brown (GTZ) American Colony Hotel with JEF
- SCF chapters 1, 2, and 3 - draft #2 to SW (on disk)
- 8/26 9:30 a.m. USAID/Jerusalem with LWD
12:00 p.m. Meeting with ANERA, JK and JEF
- ANERA wastewater chapters 5, 6, and 7 - JK's comments on draft #1
- 8/27 8:30 a.m. Field trip - ANERA Co-ops and Municipalities
3:00 p.m. Team meeting to review overview SW and presentation by JK, NA-K, and JEF
- SCF chapters 4, 5, and 6 - SW's comments on draft #1
CRS chapters 1, 2, and 3 - SW's comments on draft #1
CRS chapters 4, 5, and 6 - draft to SW (hard copy)
- 8/28 Team day off
- 8/29 2:00 p.m. Overview workshop at ANERA
- ANERA wastewater chapters 5, 6, and 7 - draft #2 to JK (on disk)
- 8/30 SCF draft #2 to SW (on disk)

- 8/31 8:00 a.m. Workshop - ANERA PEA on Cooperative and Municipal Development Project at ANERA office
- 1:00 p.m. Workshop - CRS - PEA on Integrated Rural Development/Capacity Building at CRS (or other location)
- CRS chapters 4, 5, and 6 - SW's comments on draft #1
CRS chapters 1, 2, and 3 - draft #2 to LWD (on disk)
- 9/1 ANERA wastewater full report - draft #1 to JK
- 9/2 8:00 a.m. Workshop - SCF - PEA on Institutional Development Project at American Colony Hotel
- SCF full report - draft #1 by SW
- 9/3 Team writing day
CRS chapters 4, 5, and 6 - draft #2 to SW (on disk)
- 9/4 Team day off
Field trip with Imad Atrash, Palestinian Environmentalist, JEF and Martha Farmer (MF) to general West Bank area to photograph
- 9/5 8:00 a.m. Workshop - ANERA - EA on Ramallah Wastewater Project at ANERA office
- CRS full report - draft #1 SW
- 9/6 ANERA wastewater full report - comments by team and USAID
SCF full report - comments by team and USAID
- 9/7 To be scheduled
CRS full report - comments by team and USAID
- 9/8 8:00 a.m. Ramallah Wastewater workshop at Municipality with Agricultural Coop
- 9/9 9:30 a.m. Field trip with ANERA to Far'a Project
- SCF full report - final draft
- 9/10 7:30 a.m. Field trip to Gaza marine and coastal areas, JEF and NA-K
- 9/11 Team day off
Field trip - general West Bank area with Dr. Wahib Tarazi of ANERA, Jeff Goodson (JG), SF, JEF, and MF
CRS full report - final draft (SW)

- 9/12 ANERA Wastewater full report - final draft (JK)
ANERA Co-op and Municipality - full report (JK)
Meeting with Ramallah Municipality and site visit with JG
- 9/13 Debriefing meeting with KT, USAID
Team wind-up day (JG/USAID in Gaza)
- 9/14 Leave for Washington, DC
Meeting at ANERA with JG, NA-K, and RE-T in attendance
- 9/15 PRIDE Office, Washington, DC
Print out preliminary draft reports
Test E-mail from PRIDE to USAID/Jerusalem (KT)
- 9/16 PRIDE Team review meeting with PDR, Phil Roark (PWR) and JEF
Preliminary draft reports reviewed and discussed
- 9/17 Revise draft reports (JEF working from hotel)
- 9/18 Team day off
- 9/19 Meeting on Ramallah Wastewater Project with PDR and PWR
Check with Kaz Kawata (CFED) about environmental impacts
Faxes due from local consultants
- 9/20 Scheduled to receive comments and mailed hard copies from USAID/Jerusalem
Scheduled to receive faxed materials from NA-K and RE-T
- 9/21 JEF works at PRIDE office to revise report and work on photo file
JK returns
- 9/22 PRIDE/Chemonics luncheon briefing at Chemonics
Continue work at PRIDE office
- 9/23 3:00 p.m. Briefing at USAID, 515 22nd Street, NW, 4th floor conference room

Continue work at PRIDE offices
- 9/24 Day off
JEF works on report at hotel, JEF and MF continue work on the photo file
- 9/25 Day off
- 9/26 Continue work on photo file at PRIDE office
Receive DHL hard copies with comments from USAID/Jerusalem

9/27 Continue work on photo file at PRIDE office

9/28 Continue work on photo file at PRIDE office

9/29 Continue work at PRIDE office

9/30 Continue work at PRIDE office

4:30 p.m. JEF departs for North Carolina

10/5 JEF receives package of reports from PRIDE
JEF works on final revision of SCF report

10/6 JEF receives package of reports from PRIDE
JEF works on final revision of SCF report

10/7 JEF receives package of reports from PRIDE
JEF works on final revision of SCF report

10/10 JEF works on final revision of CRS report

10/11 JEF works on final revision of CRS report

10/12 JEF works on final revision of CRS report

10/13 JEF works on final revision of Appendices

10/14 JEF works on final revision of Appendices

**ANNEX B1
WORKSHOP AGENDAS**

To: Mr. Lance Matterson, Middle East Representative
American Near East Refugee AID (ANERA)

Mr. Ian Shaw, Program Manager
Save the Children Federation (SCF)

Mr. Jonathon Evans, Country Director
Catholic Relief Services (CRS)

Date: August 14, 1994

Subject: PRIDE Team Workshop on USAID's and Individual Workshops with
ANERA, SCF and CRS

We have the pleasure of extending to you an invitation to join us for a Workshop on USAID's Environmental Assessment(s) [EA's] and Programmatic Environmental Assessments [PEA's] - An Overview of Methodology and Procedures, set for 2:00 o'clock on 29 August 1994 at ANERA's office. Please refer to attached agenda.

Additionally, we will have individual half-day workshops, per attached agenda, on each of our assessments as scheduled below.

August 31 - ANERA - PEA on Cooperative and Municipal Development Project at ANERA's office at 08:00 am

August 31 - CRS - PEA on Integrated Rural Development/Capacity Building at Ambassador Hotel starting at 1:00 pm

September 2 - SCF - PEA on Institutional Development Project at American Colony Hotel starting at 08:00 am

September 5 - ANERA - EA on Ramallah Wastewater Project at ANERA's office starting at 08:00 am

We would like to have 3 to 4 representatives from each organization at the Overview Workshop on 29 August 1994. However, at the individual Workshops you may have as many participants as you deem necessary to include representatives from your partner organizations, your associates and beneficiaries.

We thank you for your continued cooperation which will enable the PRIDE Team to complete our work assignments as scheduled.

Sincerely,

Jack Farmer, Team Leader
cc: USAID/Jerusalem
PRIDE/Washington DC

**OVERVIEW WORKSHOP ON USAID's ENVIRONMENTAL ASSESSMENTS (EA's)
AND PROGRAMMATIC ENVIRONMENTAL ASSESSMENTS (PEA's)**

METHODOLOGY AND PROCEDURES

Monday, August 29, 1994 - at ANERA's Office

- 2:00 pm Registration
 Coffee and Tea
- 2:15 Introductions and Workshop Objectives
- 2:30 Overview of methodology and procedures used by USAID (based on AID Handbook 3, Appendix 2D, Part 216 - Environmental Procedures)
1. Introduction
 2. Applicability of procedures
 3. Procedures
 4. Private applicants
 5. Endangered species
 6. Environmental assessments
 7. Environmental impact statements
 8. Public hearings
 9. Bilateral and multi-lateral studies and concise reviews of environmental issues
 10. Records and reports
- 3:30 Break
- 3:45 Application of Environmental Procedures on PVO's Activities
- PRIDE Team
 - Group discussion
- 4:30 Discussion of Methodology and Procedures
- PRIDE Team
 - Group discussion
- 5:15 Summary
- Discussion of individual PVO's Workshops, follow-on activities
- 5:30 Adjourn

**RAMALLAH MUNICIPALITY WASTEWATER
COLLECTION, TREATMENT, AND REUSE
SYSTEM DEVELOPMENT PROJECT**

**MID-COURSE EVALUATION WORKSHOP
Monday, September 5, 1994
(ANERA's Office)**

PRELIMINARY AGENDA

- 8:00 am Registration
 Coffee and Tea
- 8:30 am Introductions
 Workshop Objectives
 Workshop Program
 Workshop Method
- 9:00 am The Ramallah W/W Project:
 - The Proposed Physical System
 - Institutional Responsibilities
- 9:30 am The Industrial Survey:
 - Scope
 - Methodology
 - Findings
- 10:15 am Coffee Break*
- 10:45 am Environmental Impacts and Mitigation Measures
- 11:45 am Management and Monitoring Measures
- 12:30 pm Adjourn*

Note: Please no food or drinks outside the coffee break

**COOPERATIVE AND MUNICIPAL DEVELOPMENT
IN THE WEST BANK AND GAZA STRIP**

**MID-COURSE EVALUATION WORKSHOP
Wednesday , August 31, 1994**

AGENDA

- 8:00 am *Registration
Coffee and Tea*
- 8:30 am Introductions
Workshop Objectives and Program
Workshop Method, Techniques of Brainstorming
- 9:10 am The Cooperative and Municipal Development Program:
- Program Overview (10 min. presentation by ANERA)
- Group discussion
- 9:30 am Potential Impacts and Possible Measures for Agricultural Extension:
- The Brucellosis Extension Program
 (10 min. presentation by ANERA)
- Brainstorming and Group Discussion
- 10:10 am Potential Impacts and Possible Measures for Irrigation:
- The Fara'a Pipeline Project (10 min. presentation by ANERA)
- Group Discussion
- 10:45 am *Coffee Break*
- 11:05 am Potential Impacts and Possible Measures for Produce Markets:
- The Gaza Retail Market (10 min. presentation by ANERA)
- Brainstorming and Group Discussion
- 11:45 am Potential Impacts and Possible Measures for Light Industrial Parks:
- The Nablus and Hebron Industrial Parks
 (10 min. presentation by ANERA)
- Brainstorming and Group Discussion
- 12:35 pm Summary and Conclusions
- 12:50 pm *Adjourn*

Note: Please no food or drinks outside the coffee break

**INTEGRATED RURAL DEVELOPMENT/CAPACITY BUILDING
CATHOLIC RELIEF SERVICES**

**MID-COURSE EVALUATION WORKSHOP
Wednesday, August 31, 1994**

(AMBASSADOR HOTEL)

PRELIMINARY AGENDA

- 13:00 pm Registration
 Coffee and Tea
- 13:30 pm Introductions
 Workshop Objectives
 Workshop Program
 Workshop Method
- 14:00 pm The Integrated Rural Development/Capacity Building Programs:
 - Program Activities
 - Implementation Plan
- 14:30 pm Environmental Impacts and Mitigation Measures for Integrated Rural
 Development/Capacity Building Program Activities at the Village Level
- 15:15 pm Coffee Break
- 15:45 pm Environmental Impacts and Mitigation Measures for Integrated Rural
 Development/Capacity Building Program at the Institutional Level
- 16:30 pm Management and Monitoring Measures
- 17:30 pm Adjourn

Note: Please no food or drinks outside the coffee break

SAVE THE CHILDREN FEDERATION
INSTITUTIONAL DEVELOPMENT PROJECT

PROGRAMMATIC ENVIRONMENTAL ASSESSMENT
PRIDE-SCF WORKSHOP
Friday, September 2, 1994

AGENDA

- 8:00 am *Registration*
 Coffee and Tea
- 8:30 am Welcome and Opening Remarks (SCF and PRIDE, 10 min. total)
 Workshop Objectives (10 min.)
 Introductions (30 min.)
 Workshop Program and Method, Techniques of Brainstorming (30
min.)
- 9:50 am The SCF Institutional Development Project (SCF)
 - Program Overview (10 min. presentation by SCF)
 - Questions and Answers (5 min.)
- 10:05 am Environmental Assessment
 - AID Environmental Policy
 - Environmental Impacts
 - Mitigation, Monitoring, and Management Measures
- 10:40 am Formation of Four Small Groups (agricultural, water/sanitation,
women, social)
- 10:50 am *Coffee Break*
- 11:10 am Potential Environmental Impacts
 - Work in small groups (30 min.)
 - Presentations in plenary (25 min.)
- 12:05 pm Possible Mitigation, Monitoring and Management Measures
 - Work in small groups (30 min.)
 - Presentations in plenary (25 min.)
- 1:00 pm *Wrap-Up*
- 1:10 pm *Adjourn*

**ANNEX B2
BRIEFING AGENDAS**

**BRIEFING AGENDA - SEPTEMBER 22, 1994
CHEMONICS INTERNATIONAL CONFERENCE ROOM - 12:00 TO 1:00
JULY - SEPTEMBER 1994**

Introduction of PRIDE Team: Phil Roark

- I. General Overview - Jack Farmer
- II. Ramallah Wastewater Systems Project (ANERA) - Joseph Karam
- III. Institutional Development Project (SCF) - Lena Dajani
- IV. Cooperative and Municipal Development Project (ANERA) - Joseph Karam
- V. Integrated Rural Development & Capacity Building Project (CRS) - Lena Dajani
- VI. Slide Presentation - Jack and Martha Farmer

Adjournment

BRIEFING AGENDA - SEPTEMBER 23, 1994
USAID CONFERENCE ROOM - 3:00 PM TO 4:15 PM

JULY - SEPTEMBER 1994

Introductions :

USAID - J. Paul des Rosiers
PRIDE - Phil Roark

PRIDE PRESENTATION:

- I. General Overview of SOW - Jack Farmer
- II. Ramallah Wastewater Systems Project (ANERA) - Joseph Karam
- III. Institutional Development (SCF) - Joseph Karam
- IV. Cooperative and Municipal Development Project (ANERA) - Joseph Karam
- V. West Bank Integrated Rural Development / Capacity Building Project (CRS) - Joseph Karam
- VI. Slide Presentation (with Team comments)
- VII. Summary and Lessons Learned - Jack Farmer
- VII. Group Discussion:
Questions, comments, observations, etc.

Adjournment

**ANNEX C
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- 5- Scoping Session Report for ANERA's Ramallah Wastewater Systems project, Municipality of Ramallah, Ramallah, July 28, 1994.
- 6- WASH Technical Report No. 88, Guidelines for Improving Wastewater and Solid Waste Management, Aug. 1993.
- 7- World Bank Report No. 51, Wastewater Irrigation in Developing Countries, Health Effects and Technical Solutions, Shuval, Hillel I., et al.
- 8- Developing the Occupied Territories, an Investment in Peace, a Document of the world Bank, Report No. 11958 (6 Volumes), Sept. 1993.

II ANERA COOPERATIVE AND MUNICIPAL DEVELOPMENT PROJECT

- 1- ANERA, Cooperative and Municipal Development in the West Bank and the Gaza Strip, the Proposal and Annexes, Revised, March 1994.
- 2- Issac Dr. Jad et al, Dryland Farming in Palestine, ARIJ, Bethlehem, 1994.
- 3- Scoping Session Report for ANERA's cooperative and Municipal development Project, Pilgrim's Palace Hotel, Jerusalem, July 26, 1994.
- 4- Developing the Occupied Territories, an Investment in Peace, a Document of the world Bank, Report No. 11958 (6 Volumes), Sept. 1993.

III SCF INSTITUTIONAL DEVELOPMENT PROJECT

- 1- Scoping Session Report for SCF's Institutional Development Project, Pilgrim's Palace Hotel, Jerusalem, July 26, 1994.

- 2- West Bank Data Project, Agricultural and Water Resources in the West Bank and Gaza, (1967-1987), David Khan, the Jerusalem Post. 1987.
- 3- SCF, Proposal to the USAID for Institutional Development in the West Bank and Gaza Strip, Jerusalem, Feb. 1994.
- 4- Bargouthy Dr. Mustafa, Health in Palestine, Toward a Healthy Development Strategy in the West Bank and Gaza Strip, UPMRC, Jerusalem, 1993.
- 5- Developing the Occupied Territories, an Investment in Peace, a Document of the world Bank, Report No. 11958 (6 Volumes), Sept. 1993.
- 6- Issac Dr. Jad et al, Dryland Farming in Palestine, ARIJ, Bethlehem, 1994.
- 7- Center of Environmental and Occupational Health Sciences (CEOHS) - BZU, Lights on Agricultural Extension Project at CEOHS-BZU, 1990.
- 8- SCF, Evaluation of Small-Scale Sewage Treatment and Reuse Program, East Jerusalem, May 27-30, 1992.

IV CRS INTEGRATED RURAL DEVELOPMENT/CAPACITY BUILDING PROJECT

- 1- Scoping Session Report for IRD/CB Project, American Colony Hotel, Jerusalem, Oct. 14, 1993.
- 2- CRS - USCC, Proposal Integrated Rural Development/Capacity Building, 1994-1998, West Bank, Aug. 1993.
- 3- West Bank Data Project, Agricultural and Water Resources in the West Bank and Gaza, (1967-1987), David Khan, the Jerusalem Post. 1987.
- 4- Bargouthy Dr. Mustafa, Health in Palestine, Toward a Healthy Development Strategy in the West Bank and Gaza Strip, UPMRC, Jerusalem, 1993.
- 5- Developing the Occupied Territories, an Investment in Peace, a Document of the world Bank, Report No. 11958 (6 Volumes), Sept. 1993.
- 6- Issac Dr. Jad et al, Dryland Farming in Palestine, ARIJ, Bethlehem, 1994.
- 7- Center of Environmental and Occupational Health Sciences (CEOHS) - BZU, Lights on Agricultural Extension Project at CEOHS-BZU, 1990.

BOOKLETS AND FACT SHEETS

1. Disposal Tips for Home Health Care - (EPA)
2. Waste Minimization - Environmental Quality with Economic Benefits - (EPA)
3. Solving the Hazardous Waste Problem - EPA's RCRA Program - (EPA)
4. FACT SHEETS - Furniture/Wood Manufacturing and Refinishing, Dry Cleaning and Laundry Plants, Vehicle Maintenance, Leather Products Manufacturing, Cleaning Agents and Cosmetics Manufacturers, Formulators, Paper Industry, Metal Manufacturing, Laboratories, Educational and Vocational Shops, Motor Freight Terminals/Railroad Transportation, Construction, Pesticide End-Users/Application Services, Chemical Manufacturers, Printing and Allied Industries, Wood Preserving, Textile Manufacturing, Equipment Repair, Controlling the Impacts of Remediation Activities in or Around Wetlands, Draft Strategy for Combustion of Hazardous Waste, Source Reduction and Combustion of Hazardous Waste, Managing and Tracking Medical Wastes, Tracking Medical Wastes, Disposal Tips for Home Health Care, Medical Waster Management in the United States, Characterization of Products Containing Lead and Cadmium in Municipal Solid Waster in the United States, 1970 to 2000. (EPA)
5. Process Design Manual for Sludge Treatment and Disposal (EPA)
6. The Role of Wastewater Reuse in Water Resources Management in Israel by G. Shelef, Israel Institute of Technology, Haifa

**ANNEX D1
LIST OF CONTACTS - PVOs**

RAMALLAH WASTE WATER TREATMENT PLANT PROJECT

Contact Name	Institution	Title	Telefax
Mohammed Subeih	ANERA/ Jerusalem	Irrigation/Water Coordinator	02-894351
Kamal Khereisheh	ANERA/ Jerusalem	Agricultural Coordinator	02-894351
Khaleel Mussa Khaleel	Municipality of Ramallah	Mayor	02-954241
Raji Zeidan	Municipality of Ramallah	City Engineer	02-956436
Salam Majaj	Municipality of Ramallah	Civil Engineer	02-956436
Husni Sari	Jerusalem Water Undertaking	Head of Mechanical division	02-954555
Omar Zimmo	Birzeit University	Instructor	02-957656
Dr. Ramzy Sansour	Birzeit University/ CEOHS	Head of CEOHS	02-957656
Ya'qob Taher	Ramallah Agricultural Marketing Cooperative	President	
Mohammad Nimr Ismael	Ram. Agric. Mark. Coop.	Agricultural Engineer	
Mujahed Rimawi	Ram. Agric. Mark. Coop.	Agricultural Engineer	

SAVE THE CHILDREN FUND INSTITUTIONAL DEVELOPMENT PROJECT

Contact Name	Institution	Title	Telefax
Kaleel Nijem	SCF/Jerusalem	Monitoring/Eval. Super.	02-834497
Hussam Aloul	SCF/Gaza	Sanitary Activities Coord.	
Mohammad Alwan	SCF/Gaza	Agricultural Activities Coord.	
Dr. Jad Issac	PEPA/ARIJ	Chairman	02-741889

**CATHOLIC RELIEF SERVICE INTEGRATED RURAL DEVELOPMENT/CAPACITY
BUILDING PRJ**

Contact Name	Institution	Title	Telefax
Dominique Philippon	CRS		02-828175
Bassam Kort	CRS		02-828175
Abdel-Raheem Asa'd	CRS		02-828175
Hussam Abu Fares	PHG	Head of Nablus Office	
	Bazzaria Village Council	Head of the Council	
	Keireh Village Committee	Chairman	
(Abu Reslan)	Al-luban Al-sharquieh Village Committee	Chairman	
Ziad Gab'eeti	Kufr Labad Village Council	Secretary	
Ahmed Turk	Yetma Village Committee	Chairman	
(Abu Tayyeb)	Quariota Charity Society	Member	
Dr. Jad Issac	PEPA/ ARIJ	Chairman	02-741889

**AMERICAN NEAR EAST REFUGEE AID COOPERATIVE & MUNICIPAL
DEVELOPMENT**

Contact Name	Institution	Title	Telefax
Natheer Masri	Jericho Agri. Mark.Coop.	Member	
Jawad Masri	Jericho Agri. Mark. Coop.	Member	
Issam Shawa	ANERA/Gaza	Gaza Strip Coordinator	
Salem Huwaiti	ANERA/Gaza	Gaza Coop. Coordinator	
	Rafah Ahlieh Coop.	President	
	Abassan Village Council	Head of Council	
Dr. Jad Issac	PEPA/ARIJ	Chairman	02-741889
Hani Arafat	Municipality of Nablus	Mayor Deputy	
Maher Hanbali	Municipality of Nablus	City Engineer	

ANNEX-D2
LIST OF CONTACTS - USAID

USAID, WEST JERUSALEM - Telephone (02) 253-288
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Karen Turner, AID Affairs Officer (AAO)
Sharon Fee, General Development Officer (GDO)
Sufian Mshasha, Project Manager

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Carl Maxwell, Chief Engineer
Majda Zaher, Project Manager

USAID, Washington D.C.

Jeff Goodson, Bureau Environmental Officer, Asia/Near East Bureau
J. Paul des Rosiers, Senior Environmental Specialist, Asia/Near East Bureau, Global Bureau
Rebecca Latorraca, Facilitator - Scoping Sessions, Asia/Near East Bureau

Anne Patterson, Environmental Officer, ANE Bureau, Egypt Mission
Tina Rouse, American Association for the Advancement of Science Diplomacy Fellow,
Global Bureau

ANNEX E
MISCELLANEOUS HEALTH DATA

The table below shows the distribution of the West Bank population by age group and compares estimates between CBS and MOI [Meron Benvenisti and Shlomo Khayat, 1988].

Table E-1: Distribution of Population by Age Group and Source of Data

Age Group	0-15	16-18	19-20	21-50	51-65	66+
CBS	49.22	6.66	4.30	29.82	6.94	3.06
MOI	42.38	6.41	3.98	34.47	6.49	6.26
% difference	-6.84	-0.25	-0.32	+4.65	-0.45	+3.20

The above mentioned source noted that the West Bank "permanent" population in 1987, including residents abroad for less than a year, reached 1,067,000 and present population 977,000. Compared to 858,000 quoted by CBS, WBD estimates are, therefore, 14.1 per cent higher on "present" population and 24.6 per cent higher on "permanent" population. The table below shows the distribution of the Palestinian population by sub-district:

Table E-2: West Bank Population by Sub-district 1967, 1987
(Percentage of Total West Bank)

TOWN	CBS 1967	WBDP 1987
Jenin	15.8	15.2
Nablus	17.1	17.8
Tulkarem	16.8	15.6
Ramallah	18.8	17.7
Jericho	1.8	2.0
Bethlehem	9.8	10.7
Hebron	20.0	21.0
Total West Bank	100.0%	100.0%

Table E-3: Number of Governmental Hospital Beds in 1990

HOSPITALS IN WEST BANK	NUMBER OF BEDS	HOSPITALS IN GAZA	NUMBER OF BEDS
Jenin	55	Shifa	380
Tulkarem	64	Nasr Pediatrics	115
Nablus-Watany	86	Ophthalmic	35
Nablus-Rafidia	122	Psychiatric	34
Ramallah	136	Khan Younis	225
Beit Jala	64	Ahli	75
Jericho	50		
Hebron	1		
TOTAL	578	TOTAL	864

Table E-4: Hospital Beds Contracted By UNRWA

Name of Hospital	Number of Beds
Augusta Victoria, Jerusalem	104
St. John's Ophthalmic, Jerusalem	14
Caritas Baby Hospital, Bethlehem	12
Al-Ittihad Hospital, Nablus	30
Al-Ahli (Evangelical), Gaza City	40
Bethlehem Government Psychiatric	75
Burij Government Tuberculosis, Gaza	75
TOTAL	350

Table E-5: Total Workers in Industry by Sub-district 1987

DISTRICT	PERCENT
Jenin	3.67
Nablus	28.73
Tulkarem	19.25
Ramallah	15.70
Bethlehem	20.79
Hebron	11.68

Source: Meron Benvenisti & Shlomo Khayat, 1988

The Community Health Unit of Bir Zeit University analyzed fecal coliform levels in water samples from different sources in the West Bank in 1984-1985.

**ANNEX F1
PHOTOGRAPHIC FILE**

The photographs have been placed in three green photo albums according to subject matter and each album is labeled as to USAID/Jerusalem, PRIDE and USAID/Washington. Each photograph has (on the back) a negative roll identification number and an individual negative number identifying the match up of print to negative.

There are approximately 150 prints in the "subject matter" section (extra prints are in the back section). All photos are described briefly under each print.

Each negative roll ID number and the number of each print is listed on a Negative Control Sheet. This sheet has a more detailed description of each photo. The sheet is placed in the envelope in the back of each photo album.

The slides are packaged in three sets, again labeled for USAID/Jerusalem, PRIDE, and USAID/Washington. There are two control sheets for the slides with each of the slide packages designed for a slide show containing about 40 to 42 pictures each. Each slide is numbered with the description of each side listed as to the corresponding number on the control sheet.

Photograph Key

#2743 - Gaza

0. Proximity of houses to settling/collection pond
1. Opening for pump installation - Gaza stormwater collection pond
2. Sedimentation pond site, installation for sewage trap pump
3. Report
4. Sedimentation basin - rainwater collection pond
5. Pump at exit of sedimentation basin
6. Entrance to collection pond - sewage
7. Algae growth - poor expansion joint due to erosion
8. Report
9. Northwest of the collection pond
10. Report
11. Northwest damage in fence - garbage put inside boundary
12. Sewage direct connection of nearby house
13. North side of collection pond
14. Report
15. Damaged north inlet to collection pond
16. Eroded north inlet to collection pond
17. Eroded north inlet to collection pond
18. Nearby sewage pumping station
19. Report
20. Report (livestock sign with ANERA's representative at Gaza)
21. Report - livestock
22. Livestock holding pen (sheep)
23. Report
24. Report

#2657 - ANERA - Ramallah

0. Waste treatment plant and pond near burning garbage dump
1. Feed mill near wastewater treatment plant
2. Report
3. Potential reservoir for Ramallah wastewater treatment plant
4. Report
5. Joint SCF and ANERA scoping session
6. Joint SCF and ANERA scoping session
7. Site - Nablus municipality handicraft shops
8. Report
9. Site - Nablus municipality handicraft shops and health care unit nearby mosque
10. Site - Nablus municipality handicraft shops
11. Eggplant crops irrigated with raw sewage (Eastern Nablus near proposed wastewater treatment plant site)
12. Corn crops irrigated with raw sewage
13. Stream polluted with raw sewage near proposed wastewater treatment plant site
14. Nablus city garbage dump site
15. Pump used to move polluted stream water to corn field
16. Polluted stream (same as #13)
17. Corn irrigated with raw sewage
18. Headworks - Far'a Irrigation Project - eroded wall
19. Conveying structure of Far'a Irrigation Project headworks - bad maintenance
20. Illegal pumping (same as #18)
21. Irrigation project - sedimentation tank needs maintenance
22. Report
23. End of present pipeline - 3rd phase of Far'a Irrigation Project
24. Existing irrigation pipeline - irrigated lands
25. End of present pipeline (#23)
26. Main water station (Ein Suttan Spring) - supplies Jericho City
27. Saint George Monastery - Wadi Quilt
28. Saint George Monastery - Wadi Quilt
29. Wadi Quilt - Spring - open channel of water to falls
30. Wadi Quilt - Spring - open channel of water to falls
31. Jerusalem
32. Old city - poor, dangerous walls and supports
33. Graffiti
34. Graffiti
35. Russian church in West Jerusalem
36. Jaffa Road
37. Jaffa Road

#4309 - Workshop - Slaughterhouse Gaza

0. Slaughterhouse - Gaza
1. Slaughterhouse - Gaza
2. Slaughterhouse - Gaza
3. Slaughterhouse sign
4. Slaughterhouse sign
5. Slaughterhouse sign
6. Workshop - American Colony Hotel
7. Workshop - flip charts
8. Workshop - flip charts
9. Workshop - flip charts
10. Workshop - flip charts
11. Workshop - flip charts
12. Workshop - flip charts
13. Workshop - flip charts
14. Workshop - women's activities
15. Workshop - water resources
16. Workshop - agriculture
17. Workshop - women's activities
18. Workshop - agriculture
19. Workshop - agriculture
20. Workshop - water resources
21. Workshop - agriculture
22. Workshop - women's activities

#2922

1. Medical waste at rehabilitation clinic
2. International Sponge Industry Company #28 - toxic chemicals
3. International Sponge Industry Company #28 - label of barrel of toxic chemical (Cheminter)
4. International Sponge Industry Company #28 - chemical (Tegoamin)
5. International Sponge Industry Company #28 - damaged top of a barrel containing Methylene Chloride
6. International Sponge Industry Company #28 - production line -foam with paper backing - production by-product waste
7. International Sponge Industry Company #28 - finished foam products
8. Sylvana Company (candy factory) - raw sugar/plastic sacking and bagged by-product waste
9. Sylvana Company - mixing section
10. Sylvana Company - mixing section
11. Sylvana Company - production line with by-product waste on the floor
12. Sylvana Company - packaged candy (wafer bars)
13. Sylvana Company - production line (wafer bars)
14. Sylvana Company - production - liquid waste from pipes to open floor drain
15. Sylvana Company - production - liquid waste from pipes to open floor drain
16. Sylvana Company - boiling pots for taffy/gum
17. Sylvana Company - taffy cooling tables with gum machines in the background
18. Sylvana Company - production packaging with summer students
19. Sylvana Company - picture made from candies
20. Club Soda Factory (softdrinks) - product output
21. Club Soda Factory - two production lines, one for cans, one for bottles
22. Club Soda Factory - plastic bottles packaging line
23. Club Soda Factory - drink six-packs on pallets
24. Club Soda Factory - labeling of plastic bottles
25. Club Soda Factory - waste containers outside of plant

#3731

1. Beit Hanoun - Gaza - agriculture road under construction
2. Beit Hanoun - Gaza - agriculture road under construction
3. Stormwater pond in winter, holding pond in summer - from greenhouse roof in Beit Hanoun
4. Stormwater pond in winter, holding pond in summer - from greenhouse roof in Beit Hanoun
5. Stormwater pond in winter, holding pond in summer - from greenhouse roof in Beit Hanoun - plastic roofs
6. Park/play ground over old garbage dump at Beit Lahiya
7. Park/play ground over old garbage dump at Beit Lahiya
8. Park/play ground over old garbage dump at Beit Lahiya
9. Garbage container and plastic waste at park
10. Sewer - replacement of existing sewage network at Shiekh Radwan
11. Sewer - replacement of existing sewage network at Shiekh Radwan
12. Sewer - replacement of existing sewage network at Shiekh Radwan
13. Overflow of manhole near stormwater collection at Sheikh Radwan
14. Waqf land for future park site - Gaza City
15. Waqf land sewage flooding and solid waste
16. Waqf land sewage flooding and solid waste
17. Waqf land sewage flooding and solid waste
18. Wadi Gaza - residue stone cutting factories
19. Wadi Gaza - dumping of building materials
20. Wadi Gaza - dumping of building materials
21. Wadi Gaza - showing bridge (from Egyptian times)
22. Wadi Gaza - accumulation of waste
23. Wadi Gaza - discharge point of Gaza City sewage treatment plant (not operational)
24. Wadi Gaza - detergent foam
25. Wadi Gaza
26. Wadi Gaza
27. Wadi Gaza
28. Main sewage ditch from Al-Bureij Refugee Camp which goes to Wadi Gaza
29. Main sewage ditch from Al-Bureij Refugee Camp which goes to Wadi Gaza
30. Main sewage ditch from Al-Bureij Refugee Camp which goes to Wadi Gaza
31. CRS field trip - Bazzaria, CRS Water Distribution Network Project
32. CRS field trip - meeting with the village council
33. CRS field trip
34. CRS field trip
35. General view of Bazzaria village
36. Opening of spring box - Bazzaria Spring
37. Near Spring site

2657 - *Save the Children Federation*

1. SCF field trip - school
2. Report
3. Report
4. Report
5. Report
6. Report
7. Report
8. Potential agricultural development area
9. Potential agricultural development area
10. Potential agricultural development area
11. Potential agricultural development area
12. Potential agricultural development area
13. Report
14. Ramallah wastewater treatment plant - first aeration pond
15. Ramallah wastewater treatment plant - first aeration pond
16. Ramallah wastewater treatment plant - second aeration pond
17. Ramallah wastewater treatment plant - facultative pond
18. Ramallah wastewater treatment plant - facultative pond
19. Ramallah wastewater treatment plant - truck dumping sewage into first pond
20. Ramallah wastewater treatment plant - control panel for wastewater aeration ponds
21. Ramallah wastewater treatment plant - trash and car bodies in new pond sites
22. Report
23. Ramallah wastewater treatment plant - chlorination gas containment facility (not used)
24. Ramallah wastewater treatment plant - effluent outlet

3731-A - Bazzoria - General View

1. CRS EPA meeting - water distribution network in Keireh Village, southwest of Nablus in the West Bank
2. CRS EPA meeting - water distribution network in Keireh Village, southwest of Nablus in the West Bank
3. CRS EPA meeting - water distribution network in Keireh Village, southwest of Nablus in the West Bank
4. Old catchment reservoir - proposed rehabilitation
5. Rock sink used for water trough near pond (reservoir)
6. Rock sink used for water trough near pond (reservoir)
7. General view - Keireh
8. Water bowser at Al-Luban Al-Sharquieh (water vendors)
9. Water bowser at Al-Luban Al-Sharquieh (water vendors)
10. Water bowser at Al-Luban Al-Sharquieh (water vendors)
11. Water bowser at Al-Luban Al-Sharquieh (water vendors)
12. Agricultural lands in the village - Al-Luban Al-Sharquieh
13. Al-Luban Al-Sharquieh
14. Showing settlement erosion
15. Graffiti in Bethlehem
16. Graffiti in Bethlehem
17. Graffiti in Bethlehem
18. Graffiti in Bethlehem

#4306

1. Nablus - light industrial park site
2. Nablus - light industrial park site (showing mosque)
3. Nablus - irrigation with raw sewage and solid waste dump burning
4. Al-Far'a - poorly maintained headworks of the existing pipeline
5. Al-Far'a - starting point of the proposed irrigation pipeline (stage iv)
6. Saint George's Monastery
7. Rafah, Gaza - street in Rafah
8. Gaza City - first reservoir in Sheikh Radwan site
9. Gaza City - first reservoir in Sheikh Radwan site (shows gas formation)
10. Gaza - a view of the Jabalia Camp outskirts
11. T'lem - solid waste collection in the Old City
12. T'lem - spray painting in the Old City
13. T'lem, Old City - David Tower near the police station
14. T'lem, Old City - David Tower near the police station
15. Gaza - collection pond near greenhouses
16. Ramallah - concrete mixing factory (view from Balsam Pharmaceuticals)
17. Ramallah - Izmek Stone Cutting Company (the stone blocks)
18. Ramallah - inside the Izmek Stone Cutting Company
19. Ramallah - stone debris and aggregate outside of the Izmek Stone Cutting Company
20. Ramallah - settling tanks to recycle water at the Izmek Stone Cutting Company
21. Ramallah - Izmek Stone Cutting Company - settling tanks and dust/powder dump
22. Ramallah - the solid waste dump burning
23. Ramallah - ~~*p628X~~ solid collection and burning
24. Betunia - "treated" wastewater from Ramallah flowing into the Wadi
25. Goats must drink too!
26. T'lem - spray painting
27. Rafat - agricultural land that may be integrated with treated wastewater
28. T'lem - Fortress Jerusalem (I)
29. T'lem - Fortress Jerusalem (II)
30. A view of Beit Karem
31. Gaza - UNDP-funded sewage pond (never received any sewage)
32. Beit Tala - car parts dumped outside illegal extension to industrial park
33. Beit Tala - solid waste collection point at the industrial park
34. Beit Tala - the industrial park

#4305

1. Gaza City - Sheikh Radwan Reservoir (view I)
2. Gaza City - Sheikh Radwan Reservoir (view II)
5. Ramallah - the solid waste dump burning
6. Ramallah - the solid waste dump and the wastewater treatment plant
7. Ramallah - wastewater treatment plant stabilization pond
8. View from Al Keireh, West Bank - candidate village for CRS project
9. View from Al Keireh, West Bank - showing nearby settlements
10. Al-Jedeira - agricultural land that may be irrigated with treated wastewater (#8)
11. Al-Jedeira - agricultural land that may be irrigated with treated wastewater (#9)
12. Halhoul - the ANERA funded wholesale produce market
13. Hebron - site of the proposed industrial park (ANERA CDM)
14. Hebron - general view

#2743 - Scoping Session - July 27, 1994

1. Registration
2. Registration
3. Scoping session discussion
4. Scoping session discussion
5. Scoping session discussion
6. Report
7. Report
8. Lab (water purification units) - Center for Environmental Occupational Health Sciences/Bir Zeit University
9. Report
10. Lab - Center for Environmental Occupational Health Sciences/Bir Zeit University
11. Lab showing lab counter equipment - Center for Environmental Occupational Health Sciences/Bir Zeit University
12. Lab showing GGS spectroscope - Center for Environmental Occupational Health Sciences/Bir Zeit University
13. Lab showing GGS spectroscope - Center for Environmental Occupational Health Sciences/Bir Zeit University
14. Lab showing new system - Center for Environmental Occupational Health Sciences/Bir Zeit University
15. Lab showing autoclaves - Center for Environmental Occupational Health Sciences/Bir Zeit University
16. Beit Lahiya Cooperative, Gaza Strip - main distribution pipe of well
17. Beit Lahiya Cooperative, Gaza Strip - chemical additive unit
18. Beit Lahiya Cooperative, Gaza Strip - reciprocal water pump
19. Inside well cavity - oil residue on well casing - spills from pump
20. Motor shaft - fuel storage near well opening
21. Report
22. Report
23. Beit Lahiya Cooperative, Gaza Strip - main distribution pipe of well
24. Sewage gas bubbles rising at sedimentation basin (break down of sewage pumping station and illegal sewage connections) at Gaza stormwater collection pond
25. Gabbions at Project Sheikh Radwan sedimentation basin

0. Cooperative Agriculture Society - Rafah area in Gaza Strip - group discussions
1. Cooperative Agriculture Society - Rafah area in Gaza Strip - group discussions
2. Proposed well site
3. Proposed well site - Abassan Village Council
4. Proposed well site - southeastern Gaza Strip
5. Proposed well site
6. Proposed well site
7. Proposed well site
8. Proposed well site - used in Scoping Session Report, proposed well/irrigation site
9. Gaza municipal stormwater system - trash and gabbion system
10. Gaza municipal stormwater system - lagoon
11. Used in Scoping Session Report - settling basin showing gabbion and outlet
12. Used in Scoping Session Report - panorama of stormwater lagoon
13. Used in Scoping Session Report - trash along the lagoon border fence
14. Used in Scoping Session Report - spillway
15. Aburayya Rehabilitation Center, Ramallah - showing medical waste handling
16. Aburayya Rehabilitation Center, Ramallah - showing medical waste handling
17. Aburayya Rehabilitation Center, Ramallah - showing medical waste handling
18. Plastic Pipe Plant, Ramallah - lack of worker safeguards
19. Arab United Plastic - plastic waste
20. Arab United Plastic - pipe extruder
21. Arab United Plastic - pipe belling
22. Arab United Plastic - raw product
23. Arab United Plastic - mixing facility
24. Arab United Plastic - new product storage

#3829 - *Gaza Field*

6. Graffiti at Bethlehem
7. Covers at Bethlehem
8. Covers at Bethlehem
14. Gaza City sewage flooding - Shajeyah neighborhood
15. Gaza old municipality slaughterhouse
16. Gaza old municipality slaughterhouse
17. Gaza old municipality slaughterhouse
18. Gaza old municipality slaughterhouse
19. Gaza old municipality slaughterhouse - holding pens
20. Gaza old municipality slaughterhouse - scales
21. Gaza old municipality slaughterhouse - hanging hook
22. Gaza old municipality slaughterhouse - solid waste container
23. Gaza Livestock Cooperative - veterinary clinic, truck (ANERA project)
24. Cat-scan equipment (ANERA project)
25. New market site plans at Gaza municipality
26. New market site plans at Gaza municipality
27. New market site plans at Gaza municipality
28. Vendors on Omar Al-Mukhtar in Gaza
29. Vendors on Omar Al-Mukhtar in Gaza
30. Vendors on Omar Al-Mukhtar in Gaza
31. Vendors on Omar Al-Mukhtar in Gaza
32. Truck park - proposed site for market location
33. Slaughterhouse - cow holding pens
34. Slaughterhouse - sheep holding pens
35. Inside of new slaughterhouse - carving rooms
36. Inside of new slaughterhouse - carving rooms
37. Offices

**ANNEX F2
SLIDE SHOW**

BRIEFING SESSION SLIDE SHOW - A

1. Map of West Bank and Gaza
2. Village Meeting on Save the Children

WORKSHOPS

3. Ramez El-Titi facilitating the agriculture development section at Save the Children Workshop
4. Agricultural engineer from Gaza explaining agriculture environmental impacts
5. Lena Dajani, PRIDE Project Administrator facilitating the Women's Activities Group
6. Women's Activities Section - note dual language format

SPRINGS

7. Women at Jama Spring collecting water - near Ain-Al-Bld
8. Donkey and boy at Jama Spring - note graffiti on wall
9. Jama Spring water with added sewage on the way to the Dead Sea

AGRICULTURE DEVELOPMENT

10. 1,000 year old olive tree near Beit Sahur
11. Mass production of olive wood carvings at Bethlehem
12. Grapes near Beit Sahur
13. Eggplant at Nablus - grown with untreated sewer water
14. Corn at Nablus - grown with untreated sewer water
15. Greenhouse at Gaza with water collection pond - water from greenhouse roofs
16. Graffiti and trash at Solomon's Pools

SLAUGHTERHOUSES - GAZA

17. Old slaughterhouse build in 1930 - cutting room
18. Old livestock pens - note closeness of residential area
19. Animal waste disposal area, waiting for collection - old slaughter house
20. New slaughterhouse - cutting room with meat hanging area on side - note: not infrastructure to or at the new facility
21. New slaughterhouse livestock holding pens

SEWER EFFLUENT

22. Manhole overflow into street - Gaza
23. Gaza Municipal Stormwater System - Sheik Radwan
24. Gaza Municipal Stormwater System spillway
25. Gaza Municipal Sewage System outfall
26. Gaza Municipal Sewage System discharge into the Mediterranean Sea - **one of four**

SOLID WASTE

27. Overflow of solid waste bin - Gaza
28. Beach debris - note plastic and horse carcass
29. Edge of Refugee Camp, Gaza
30. Unauthorized dump at Ramallah - note air pollution

RAMALLAH WASTEWATER TREATMENT PLANT

31. Aeration basin
32. Location of future stabilization reservoir
33. Location of future treatment plant facilities

OTHER ACTIVITIES

34. Candy factory - "finger lickin' good"
35. Settlement connecting highways - note disregard for environmental impact activities such as erosion and cutting down of olives trees within the 400 meter right-a-way.
36. Water delivery truck at Bethlehem - cost approx. US\$7.00 per cubic meter; water in this area only a few hours per week
37. Mobile veterinarian clinic truck with Dr. Whib Tarazi, ANERA
38. Stone cutting dust and residue
39. Tractor and garbage bin going out through the Damascus Gate in old city of Jerusalem
40. Plastic on a bush in the middle of the desert
41. Street vendors, Gaza
42. New market site for street vendors

**OVERVIEW OF AID'S
ENVIRONMENTAL PROCEDURES**

Presented by the PRIDE TEAM

Jerusalem

August 29, 1994

OUTLINE

1. Introduction
2. Applicability of Procedures
3. Procedures
4. Private Applicants
5. Endangered Species
6. Environmental Assessments
7. Environmental Impact Statements
8. Public Hearings
9. Bilateral and Multi-Lateral Studies
10. Records and Reports

1. INTRODUCTION

a. Purpose:

- Ensure that environmental factors and values are integrated into the AID decision-making process
- Implement the requirements of the National Environmental Policy Act (NEPA) of 1970 as amended

b. AID Environmental Policy:

- Pre-identify environmental consequences of AID-financed activities
- Adopt environmental safeguards
- Assist in strengthening environmental planning and management capabilities of developing countries
- Identify environment and development linkages and promote sustainable development

c. Definitions:

- Initial Environmental Examination (IEE): first review of environmental effects
- Threshold Decision: Formal Agency decision, based on IEE. Positive decision means Agency action is "major action significantly affecting the environment"
- Environmental Assessment (EA): effects on the environment of a foreign country
- Environmental Impact Statement (EIS): effects on the United States, the global environment, etc.

1. INTRODUCTION (Continued)

- **Project Identification Document (PID):** Internal AID document, initially identifies proposed project
- **Project Paper (PP):** Internal AID document, definitive description and appraisal of proposed project, incl. implementation plan
- **Environment:** Outside the USA, natural and physical environment
- **Significant Effect:** Significant harm to the environment
- **Minor Donor:** AID does not control the planning or design of a multi-donor project, contributes less than 25 percent of total estimated project cost, and:
 - either AID's contribution is less than \$1,000,000;
 - or AID's contribution is more than \$1,000,000 and "controlling" donor imposes adequate environmental procedures

2. APPLICABILITY OF PROCEDURES

a. Scope:

All new projects, programs, or activities (or amendments or extensions thereof) authorized or approved by AID

b. Exemptions:

- International disaster assistance
- Other emergency circumstances
- Circumstances involving exceptional foreign policy sensitivities

c. Categorical Exclusions: IEE, EA, and EIS generally are not required

Exclusions for classes of actions considered not to have an effect on the natural or physical environment, including:

- Education, technical assistance, or training programs
- Projects in which AID is a minor donor and there are no potential significant effects on the environment of the USA
- Matching, general support and institutional support grants to PVOs where AID does not require knowledge of or control over the specific activities conducted by the PVO

Originator of project to determine if project belongs to any categorical exclusion class and to submit this determination with PID. Bureau Environmental Officer (BEO) to review

Environmental procedures shall apply later if project is found to have a significant effect on the environment

2. APPLICABILITY OF PROCEDURES (continued)

d. Classes of Actions Normally Having a Significant Effect on the Environment:

- Irrigation or water management projects;
- agricultural land leveling;
- Drainage projects;
- Road building or improvement projects
- Potable water and sewerage projects (non small-scale)
- etc.

3. PROCEDURES

a. General Procedures:

1. Initial Environmental Examination: Not required for actions subject to exemptions or categorical exclusions, or actions normally having a significant effect on the environment

To be prepared with the PID, otherwise follow special procedures

2. Threshold Decision: Made by the officer in the originating office who signs the PID. Bureau Environmental Officer to review and approve. Positive Threshold Decision if proposed action will have significant effect on the environment. EA or EIS to be prepared

3. Negative Declaration: EA or EIS may not be prepared if AID Assistant Administrator or Administrator makes a negative declaration

4. Scope of EA or EIS:

- Scoping session
- Scoping statement to be reviewed and approved by the Bureau Environmental Officer

5. Preparation of EA and EIS:

- Originator of action to prepare EA or EIS
- Final approval of the Project Paper to include EA or EIS considerations

3. PROCEDURES (continued)

6. Processing and Review within AID:

- EA and final EIS to be reviewed as an integral part of the Project Paper
- EA to be reviewed and cleared by Bureau Environmental Officer
- Draft and final EIS to be reviewed and cleared by the Environmental Coordinator and the Office of the General Counsel

7. Environmental Review after Authorization of Financing: to be completed prior to authorization of any subprojects that were unidentified at the time of authorization

Environmental review to occur at earliest before funds are obligated for a subproject

When environmental review must be deferred, the project agreement shall contain a covenant requiring environmental review before implementation of subproject

8. Monitoring:

To the extent possible, include measurement of changes in environmental quality during project implementation

Mission Director or Officer to require IEE, Scoping, EA or EIS if significant effect appears, not previously studied

9. Revisions:

Cognizant Bureau to review and revise previous Negative Threshold Determination if proposed action becomes "major" with "significant" effects

3. PROCEDURES (continued)

b. Pesticide Procedures:

1. Project Assistance for procurement and/or use of pesticides:

- registered for the same or similar uses by EPA without restriction, examine in the IEE the economic, social and environmental risks and benefits of the planned pesticide use

Project Paper to include provisions designed to mitigate potential adverse effects of the pesticide

- registered for the same or similar uses by EPA but with a restriction based on user hazard, add evaluation of the user hazards in the IEE.
- other than above, Threshold Decision must be positive (i.e., an EA or EIS must be prepared)
- unknown at time of IEE, above procedures must be followed when pesticides are identified. Assistant Administrator or Mission Director to approve the procurement or use of these pesticides

2. Exceptions to Pesticides Procedures:

- Projects under emergency conditions (pest outbreak, significant health problems, etc.)
- Projects where AID is a minor donor
- Pesticides for research or limited field evaluation purposes

4. PRIVATE APPLICANTS

- Programs for which funding from AID is sought by PVOs and educational and research institutions are subject to same procedures
- IEE to accompany initial preliminary proposals for financing, or sufficient information to prepare an IEE
- Threshold Decision to be made by Mission Director or AID Officer. Concurrence of Bureau Environmental Coordinator required, except for PVO projects approved in AID missions with total cost of less than \$500,000

ANNEX H

CHECKLIST OF ENVIRONMENTAL CHARACTERISTICS

**QUICK COMPARISON OF THE THREE PROGRAMS ASSESSED
ANERA-SCF-CRS**

Parameter	ANERA Cooperative and Municipal Development	SCF Institutional Development	CRS Integrated Rural Development
Objective	Strengthen the capacity of selected Palestinian cooperatives and municipalities to deliver economic services	Enhance the management and administrative capacity of national, local, and grassroots level Palestinian development institutions	Work with local organizations to plan and manage rural development activities using a participatory approach
Activities	<u>Well-defined</u> Projects in: Agricultural Cooperatives: • extension services • irrigation infrastructure Municipalities: • light industrial parks • wholesale & retail markets	<u>Unidentified</u> Projects in: • Training and technical assistance • Sectoral grants: - water res. development - sanitation - agricultural development - env. awareness - women in development • Bloc grants	<u>Unidentified</u> integrated rural development projects combining the following activities: • water networks • sanitation • agricultural development • women and small enterprise development
Geographic Location	Well-defined sites in the West Bank and Gaza	West Bank and Gaza, including four impact areas in the West Bank	Twenty candidate villages north of the 32 ° line in the West Bank
Institutional Partners	Cooperatives and Municipalities	Large number of NGOs Case-by-case basis No previous binding arrangement	Four specific NGOs. Contractual partnership agreement to implement project jointly

I-H

EA vs PEA

Environmental Assessment	Programmatic Environmental Assessment
Project- and Site-Specific	Multiple Activities in Different Locations
Public Participation (e.g., Scoping Session, Workshops) Involves Well-Defined, Pre-Determined Set of Parties	Public Participation of Wide Set of Parties, Sometimes Unknown in Advance
Detailed as to: <ul style="list-style-type: none"> - Environmental Setting - Environmental Impacts - Proposed Mitigation, Monitoring, and Management Measures 	General as to: <ul style="list-style-type: none"> - Environmental Settings - Potential Environmental Impacts - Possible Mitigation, Monitoring, and Management Measures
Characterize Baseline and Propose Mechanism to Monitor Environmental Indicators	Propose Mechanism to Characterize Baseline and Monitor Environmental Indicators for Each Program Activity
Definitive Product. Revisions/Updates May Be Required if Major Change in Project Design	On-Going Process. Lays Out Guidelines for Mini-EAs to Be Carried Out prior to Each Activity

ANNEX I
SCOPE OF WORK FOR EA FOR WEST BANK/GAZA PVO COMMUNITY
DEVELOPMENT AND ENVIRONMENTAL INFRASTRUCTURE ACTIVITIES

Background

As a result of prolonged neglect by authorities and increasing poverty, the rural areas of the West Bank and Gaza Strip suffer from underdevelopment of their physical, economic, and social infrastructures. In an effort to improve the social and economic well-being of communities in the territories, the U.S. Agency for International Development (USAID) has decided to support programs of cooperative municipal development, water/wastewater systems, institutional development, and rural development. Grants to private voluntary organizations have been provided for implementing the following projects: 1) West Bank Integrated Rural Development-Capacity Building Project/Catholic Relief Services (Project No.294-0159.xx); 2) Institutional Development Project/Save the Children Federation (Project No.294-0159.53); 3) Ramallah Wastewater Systems Project/ANERA (Project No.294-0014); and, 4) Cooperative and Municipal Development Project/ANERA (Project No.294-0004).

In accordance with USAID's regulation 22 CFR 216.3(a)(4) (ii), Environmental Assessments (EAs) and Programmatic Environmental Assessments (PEAs) will be carried out for each project. Implementation of the EAs/PEAs will be based on the Initial Environmental Examinations (IEE) which have already been completed. The IEEs resulted in positive threshold decisions stating that the above listed projects could result in potentially significant environmental impacts in light of the diversity of both types of projects/sub-projects to be funded and geographic locations of communities where interventions will occur. Consequently, in-country scoping sessions will be carried out and a scoping session report with scoping statement and a scope of work (SOW) will be prepared for the Near East Bureau Environmental Coordinator's (BEC) review and approval. Implementation of the PEAs/EAs will be implemented upon receiving the BEC's approval. In the case of the West Bank Integrated Rural Development-Capacity Building Project/Catholic Relief Services (Project No.294-0159.xx), the scoping activity has been completed, the scoping statement prepared, and the SOW approved by the BEC.

Purpose

For all the activities, the goal of the program is to improve the economic and social well-being of Palestinians in the West Bank and Gaza. A brief description of the projects and their primary and secondary purposes are outlined below:

Project #1 - PEA for Integrated Rural Development/Capacity Building (CRS)

The IRD/CB Project's activities will take place in 20 villages in the West Bank. The main areas of intervention will be in potable water networks, spring water development,

water catchments, land reclamation, agricultural roads upgrading and installation, and women's enterprise development. The primary purpose of this activity is to improve health in rural communities, to increase productivity of the agricultural/ economic sector, and to increase income to women. The secondary purpose will be to increase the capacity of local Palestinian NGOs to plan and manage rural development activities in a participatory manner. PRIDE will evaluate the CRS projects, make recommendations for technical assistance and training programs designed to improve CRS' institutional capacity to perform environmental reviews of projects. PRIDE will also develop a preliminary system for assessing and monitoring environmental issues within a program context.

Project #2 - Institutional Development Project (SCF)

For this three-year project, the SCF will partner with ten national level organizations to implement community development activities, strengthen 40 local institutions and facilitate the formation of at least 6 grassroots/area committees. Areas of intervention will be in: water resource development (drinking and agricultural purposes); sanitation (small-scale sewage collection and treatment, household solid waste collection and disposal); agricultural development (land reclamation, crop diversification, construction of earth or gravel access roads, fencing of cultivated areas); environmental awareness through campaigns; and, women's activities (management and technical training, small-scale income generating projects, promotion of credit models for loans, basic literacy, job related skills training). The primary purpose of this activity is to enhance the management and administrative capability of Palestinian development institutions. The secondary purpose is to improve health in rural communities and to increase productivity of the agricultural/economic sector. PRIDE will develop a scoping report and a PEA to outline direct and indirect effects of the project on the environment and address environmental concerns associated with water/wastewater activities USAID intends to fund generally.

Project #3 - Ramallah Wastewater Systems Project (ANERA)

This project entails assistance to the Municipality of Ramallah in the West Bank for the engineering design and construction of a sewage collection, treatment and recycling system for the benefit of the city and nearby agricultural communities. One of the main objectives will be to increase the technical capacity and experience of Palestinians regarding wastewater treatment and recovery, and operations and maintenance of such treatment and reuse/irrigation systems among consulting engineers and contractors, the impacted communities and the agricultural cooperatives. The primary purpose of this activity is to improve the environment and economy of the Ramallah environs. The secondary purpose is to improve health in rural communities and to increase productivity of the agricultural/ economic sector. PRIDE will review issues concerning irrigation/water management and potable water and sewerage. This will include reviewing the use of pesticides and their impact on the environment.

Project #4 - Cooperative and Municipal Development Project (ANERA)

This is the only project that will take place both in the West Bank and Gaza. It will focus on increasing the marketed production of agricultural commodities and manufactured goods and services, as well as developing an integrated program of high-leverage irrigation systems with West Bank/Gaza Strip cooperatives and integrated municipal development through industrial zones and agricultural markets. The primary purpose of this activity is to strengthen the capacity of selected Palestinian cooperative and municipal institutions to deliver and maintain the economy and stimulating services. The secondary purpose is to improve health in rural communities and to increase productivity of the agricultural/economic sector. PRIDE will define the direct and indirect effects of the project on the environment, and address the following areas of intervention: development of water sources, including springs, wells and reservoirs, land reclamation for workshops and markets, agricultural access roads repair, sewage and solid waste collection and disposal, industrial waste disposal, and pesticide and fertilizer activities. An environmental training course entitled, "Principles of Environmental Assessment--an International Training Course", will be offered to the US PVO community by the US EPA in the fall of 1994.

Activities

PEAs/EA for the above mentioned projects will be implemented as separate tasks under one overall activity entitled, "Environmental Assessment for West Bank/Gaza PVO Community Development and Environmental Infrastructure Activities". The activity will be headquartered in Washington, DC where a PRIDE management staff will act as the coordinator/liaison among the offices of USAID/ANE, USAID/West Bank-Gaza, the BEC, and field teams for all tasks. A unified umbrella management will ensure flexibility, responsiveness, and adaptability to changing circumstances and requirements, including, should emerging conditions so require, changing the timing and sequencing of tasks. Each activity will be heavily backstopped and monitored by PRIDE staff to ensure the timely completion of tasks (before the end of 1994). PRIDE's editor will assist in the finalization of reports to ensure that they meet USAID's and the contractor's standards. The activities and their requirements are described below. A summary of activities is outlined in Table I (attached).

Task #1 - PEA for Integrated Rural Development/Capacity Building (CRS)

The team will attend a two-day briefing at the PRIDE office in Washington, DC, will meet with USAID/Washington, and will review all relevant documentation in preparation for the PEA. While in the field, site visits will take place in northern part of the West Bank, including the districts of Jenin, Nablus, Tulkarem, Ramallah, and the Jordan Valley.

Following is a list of activities to be performed under Task 1:

1. Review all documentation pertaining to the IRD/CB Project and related materials.
2. Study the Catholic Relief Services-U.S. Catholic Conference (CRS-USCC) prior to projects supported by USAID.

3. Conduct up to eight site visits considered representative of the twenty to be selected by CRS-USCC. A few may include successful past projects funded by USAID in the West Bank and will require that the team meet with USAID at the U.S. Consulate in West Jerusalem and CRS-USCC officials to gather background information for the PEA.
4. Evaluate the Participatory Rapid Appraisal (PRAs) technique to be employed by CRS-USCC, which will be used to assess the needs and priorities of the communities and select the final twenty villages to be targeted by the IRD/CB program. Recommend improvements as necessary.
5. Develop recommendations for technical assistance, interventions and training programs designed to improve CRS-USCC's institutional capacity to perform "environmental reviews" of projects and sub-projects (recall project goal, purposes, and monitoring component outlined above).
6. A major environmental issue raised by the Project Review Committee and elaborated upon during the scoping session concerns the treatment and disposition of septage removed pit latrines and septic tanks by village-owned special vehicles. Therefore, the team will discuss applicable approaches with USAID staff in West Jerusalem in concert with CRS-USCC staff and a selected Palestinian sanitary/civil engineer skilled in this area. NB: It is recommended that the team visit with USEPA (Cincinnati, Ohio) expert, J. Kreissl, to obtain his professional input regarding applicable, small community wastewater treatment options in semi-arid areas that are capable of reducing high BOD (biochemical oxygen demand)/high SS (suspended solids) strength waste to acceptable levels.

Furthermore, the draft of the PEA should consider the following issues:

1. Multiple activities of a typically similar nature.
2. Cumulative and irreversible impacts and how these can be avoided/mitigated through proper and early design, siting adaptations or reductions in number.
3. Supportive or contradictory policies, institutional constraints including management and maintenance capability, and cross-sectoral impacts.

The PEA should encompass the following:

1. Recommendations on whether or not each CRS-USCC program/sub-program is managed in an environmentally responsible manner.
2. Recommendations on design, administrative, policy and other adjustments that can be made to the project to address site-specific "environmental review" requirements.
3. Address major environmental issues identified and agreed upon during the scoping session.
4. Develop a preliminary system for assessing and monitoring environmental issues within the program context.
5. Summarize/abstract CRS-USCC's environmental procedures and monitoring needs.
6. Provide a workable scheme to assure adequate monitoring of mitigative activities and reporting to the USAID/Jerusalem project officer.

7. Include photographs of sites visited.

Task #2 - Institutional Development Project (SCF)

The team will attend a two-day briefing at the PRIDE office in Washington, will meet with USAID/Washington, and will review all relevant documentation available on projects previously implemented by Save the Children Federation (SCF). While in the field, site visits will take place in the West Bank. The following activities will be performed under this task:

1. Preliminary discussion with West Bank/Gaza Strip staff in Washington, DC
2. Literature and design reviews.
3. Identification of participants in scoping session, including PRIDE members, USAID representatives, PVO representatives, local organizations, and municipalities.
4. Pre-scoping meetings in Washington and Jerusalem with USAID and SCF staff.
5. Organize and facilitate scoping session meeting in Jerusalem.
6. In scoping session meeting, identify environmental issues, technical assistance needs, training needs, and sub-projects throughout the region.
7. Identify PEA sites and local entity (university or private entity) to conduct environmental review.
8. Write up scoping session report which summarizes the scoping session and presents scoping statement with a SOW for PEA.
9. Present report and scoping statement to the Bureau Environmental Coordinator (BEC) for his/her review and approval.
10. Upon receiving BEC approval, implement PEA. Guidance for implementing the PEA is outlined under Task 1.

Task #3 - Ramallah Wastewater Systems Project (ANERA)

The team will attend a two-day briefing at the PRIDE office in Washington, DC, will meet with USAID/Washington, and will review all relevant documentation available on projects previously implemented by ANERA. While in the field, site visits will take place in the West Bank. The list of activities required under this task will be the same as those listed above under Task 2, except that an EA (rather than a PEA) will be implemented along with an industrial survey. The industrial survey will consist of an examination of manufacturing facilities in the area, and an assessment of their industrial effluents (type and quantity, including DO, pH and temperature) running into the wastewater system and the implications for the ability of the wastewater treatment system to handle them.

Task #4 - Cooperative and Municipal Development Project (ANERA)

The team will attend a two-day briefing at the PRIDE office in Washington, meet with USAID, and review relevant documentation on projects previously implemented by ANERA. While in the field, site visits will take place in the West Bank and Gaza. The list of activities required under this task will be the same as those listed above under Tasks 2.

Specialists and Level of Effort

Configuration of the expatriate and local team members with their level of effort (LOE) are outlined below and summarized in Table II (attached). All expatriate members must have approximately 10 years of professional experience, have experience working in a developing country, be sensitive to the political, economic and social conditions in the region, and have worked with USAID. Ability to speak Arabic and previous experience working in the Middle East is preferred. Requirements for the local consultants will be the same for each task: the local water supply specialist must be knowledgeable about water transport/supply in rural/urban areas, including, irrigation practices in agriculture use of and springs; the civil/sanitary engineer must be knowledgeable about irrigation in rural/agricultural communities.

Task #1 - PEA for Integrated Rural Development/Capacity Building (CRS)

Two expatriate consultants, agricultural/water engineer and environmental engineer; and two local consultants, water supply specialist and civil/sanitary engineer, are required for this task. Each expatriate team member will have 38 days LOE: 2 days preparation in the U.S. before traveling to the field; 5 days roundtrip travel including a stopover in Europe; 4 6-day workweeks in the field; and 3 days to finalize reports and debrief USAID after returning to the U.S. Each local team member will have 24 days LOE to work with the expatriate team members during 4 6-day workweeks. Qualifications additional to those mentioned earlier for all expatriate experts are as follows:

1. Agricultural/water engineer - Expert in the field of water reuse, treated wastewater, and water conservation. Familiarity with agricultural cooperatives and the finance and construction of irrigation systems in a rural setting is required. Experience working with a wide variety of terrain and soils (semi-arid, mountainous, below sea level).
2. Environmental engineer - Professional training and experience in environmental engineering planning and the production and maintenance of basic infrastructures (roads, sewerage, potable water supply and solid waste disposal). Expert in small-scale community development, able to provide low-cost/low-technology solutions such as upgrading/replacing roads and cisterns.

Task #2 - Institutional Development Project (SCF)

Two expatriate consultants, agricultural/water engineer and environmental engineer; and two local consultants, water supply specialist and civil/sanitary engineer, are required for this task. Each expatriate will have 44 days LOE: 6 days preparation in the U.S. before traveling to the field; 5 days roundtrip travel including a stopover in Europe; 5 6-day workweeks in the field; and 3 days to finalize reports and debrief USAID after returning to the U.S. Each local team member will have 30 days LOE to work with the expatriate team members during 5 6-day workweeks. Qualifications additional to those mentioned earlier are the same as those for Task 1 (above).

Task #3 - Ramallah Wastewater Systems Project (ANERA)

Two expatriate consultants, municipal/water-wastewater engineer and industrial water/supply effluent specialist; and two local consultants, water supply specialist and civil/sanitary engineer, are required for this task. Each expatriate will have 44 days LOE: 6 days preparation in the U.S. before traveling to the field; 5 days roundtrip travel including a stopover in Europe; 5 6-day workweeks in the field; and 3 days to finalize reports and debrief USAID after returning to the U.S. Each local team member will have 30 days LOE to work with the expatriate team members during 5 6-day workweeks. Qualifications additional to those mentioned earlier are as follows:

1. Municipal/water-wastewater engineer - Professional training and experience in the design, repair, and maintenance of small city water/wastewater treatment facilities. Familiarity with water reuse options and issues such as decreasing pathogens after treatment, disinfection alternatives (i.e. chlorination), and water/wastewater reuse applications in agriculture.
2. Industrial water supply/effluent specialist - Experience in a wide range of manufacturing sectors, analyzing effluents from small industries and recommending pre- and post-treatment options as a basis for detailed planning of water/wastewater treatment facility. Familiarity with the use of pesticides (EPA-approved pesticides and non-EPA approved) and their effect on reservoirs and agriculture. Hands-on experience walking through industries and conducting surveys.

Task #4 - Cooperative and Municipal Development Project (ANERA)

Two expatriate consultants, agricultural/water engineer and sanitary engineer; and two local consultants, water supply specialist and civil/sanitary engineer, are required for this task. Each expatriate will have 50 days LOE: 6 days preparation in the U.S. before traveling to the field; 5 days roundtrip travel including a stopover in Europe; 6 6-day workweeks in the field; and 3 days to finalize reports and debrief USAID after returning to the U.S. Each local team member will have 36 days LOE to work with the expatriate team members during 6 6-day workweeks. Qualifications additional to those mentioned earlier are as follows:

1. Agricultural/water engineer - same as Task 1 (above).
2. Civil/sanitary engineer - Undergraduate degree in civil/sanitary engineering with experience conducting environmental assessments in hilly and semi-arid terrain. Experience in the design and planning of roads, water/wastewater systems, landfill/solid-waste issues, and small-scale infrastructures. Sensitivity to cultural heritage of the region (Roman archeology and artifacts).

PRIDE Project Management

Management of the activities will require intensive support from the PRIDE project management staff. PRIDE will act as the prime coordinator/liaison between USAID/ANE

and USAID/West Bank-Gaza, and the office of the BEC, to ensure flexibility, responsiveness, and adaptability to changing circumstances and requirements both in Washington, DC and in the field. A number of scenarios for fielding and implementing the activities are described (see "schedule" below) whereby the tasks will either overlap or follow one after the other. The PRIDE Team Leader and Project Administrator will need to dedicate much of their time to the activities to ensure that necessary logistical and technical support is provided to the team. As resource economist, the PRIDE Team Leader will provide technical input on the macro- and micro-economic and developmental analysis of the activities. The Project Administrator, of West Bank Palestinian origin, will assist in identifying and contacting local institutions and local consultants in preparation for the scoping session meetings and will assist in drafting scopes of work and researching information for the consultants such as standards for volumes of effluents associated with projected quantities of manufacturing outputs utilizing certain production processes, as needed.

Deliverables

Due dates for all deliverables are outlined in Table IV (attached) and have been presented according to four different scenarios. The intent is to complete all tasks by September 30, 1994, under the "best case" Scenario D outlined below. However, the schedule of deliverables allows for contingencies, in as much as any of the activities may be delayed by circumstances in the field or in Washington, DC.

Task #1 - PEA for Integrated Rural Development/Capacity Building (CRS)

The team will produce a report detailing both the process by which the PEA was conducted and the results of the PEA. This activity, and hence this report, will serve as a prototype for environmental reviews that will be conducted during the design of future projects in the West Bank/Gaza Strip. The team will complete and submit its report jointly to the USAID Affairs Officer (Jerusalem) and the Officer-in-Charge, West Bank/Gaza Strip, in Washington, DC.

Task #2 - Institutional Development Project (SCF)

In preparation for the PEA under this task, the team will produce a scoping session report detailing the outcome of the scoping session, a scoping statement, and scope of work for the PEA for submission to the BEC. A PEA report, detailing both the process by which the PEA was conducted and the results of the PEA, will also be submitted jointly to the USAID Affairs Officer (Jerusalem) and the Officer-in-Charge, West Bank/Gaza Strip, in Washington, DC.

Task #3 - Ramallah Wastewater Systems Project (ANERA)

In preparation for the EA under this task, the team will produce a scoping session report detailing the outcome of the scoping session, a scoping statement, and scope of work for the EA and industrial survey for submission to the BEC. An EA report, detailing both

the process by which the EA was conducted and the results of the EA, will also be submitted jointly to the USAID Affairs Officer (Jerusalem) and the Officer-in-Charge, West Bank/Gaza Strip, in Washington, DC. A report detailing the means by which the industrial survey was carried out and its findings will also be prepared and submitted to those offices.

Task #4 - Cooperative and Municipal Development Project (ANERA)

In preparation for the PEA under this task, the team will produce a scoping session report detailing the outcome of the scoping session, a scoping statement, and scope of work for the PEA for submission to the BEC. A PEA report, detailing both the process by which the PEA was conducted and the results of the PEA, will also be submitted jointly to the USAID Affairs Officer (Jerusalem) and the Officer-in-Charge, West Bank/Gaza Strip, in Washington, DC.

Schedule

Because of the uncertain political situation in the territories and potential delays caused by curfews, riots, strikes or other contingencies, it cannot be assumed that the tasks will proceed according to schedule. Dates for fielding teams under the tasks will be kept open and flexible depending on circumstances in the field. Four illustrative scenarios are presented in Table III (attached) for implementing Tasks 1-4. In all scenarios, team members must be available for briefings in Washington, DC prior to departure, with work scheduled to begin in Jerusalem on July 18, 1994. Scenario A assumes that tasks 2 and 3 would follow immediately after Task 1, followed by Task 4. Scenario B is a worst case scenario in which tasks are scheduled sequentially, with no overlapping tasks or consultants. In scenario C, task 1, 2, and 4 would begin simultaneously on July 18, with Task 3 following immediately after Task 1 and 2, and overlapping with Task 4 as it comes to completion. Scenario D is presented as a best case scenario whereby all tasks are implemented simultaneously by a three-member expatriate team and two local consultants. In Scenario D, there would be one scoping session only at the beginning of the activity to cover Tasks 2-4, followed by roughly simultaneous implementation of the PEAs/EA for Tasks 1-4, with all PEAs/EA presented in a single document. Tentative timeframes (assuming no unforeseen delays) for completing the deliverables under each task are outlined in Table IV (attached).

For Tasks 2-4, the Team Leader will submit the scoping report to the BEC for their review and approval. For Tasks 1-4, the PEA/EA should begin immediately upon receipt of approval from the BEC. A draft PEA or EA/industrial survey should also be submitted to the NE BEC for their review. Final editing will take place between the submission of the draft PEA/EA and due date of final draft of the PEA/EA which will be submitted for NE BEC final approval.

PACD

Project Action Completion Date is set for September 30, 1995, allowing for unexpected delays and problems in the field.

EA FOR WEST BANK/GAZA PVO COMMUNITY DEVELOPMENT & ENVIRONMENTAL INFRASTRUCTURE ACTIVITIES

TABLE I: ACTIVITIES

Task #	Required Activities						
	Prescoping Session	Scoping Session	Report	SOW	PEA	EA	Industrial Survey
Task 1					x		
Task 2	x	x	x	x	x		
Task 3	x	x	x	x		x	x
Task 4	x	x	x	x	x		

TABLE II: LOE (person days)

Task #	Expat Labor Category					Local Labor Category		PRIDE Staff		
	agric/water engineer	environ'l engineer	munic-w/ww engineer	ind/water sppl effluent spclst	sanitary engineer	water spply spclst	civil/sanitary engineer	proj mngr res econ	project administr	editor
Task 1	38	38				24	24	5	20	5
Task 2	44	44				30	30	5	20	5
Task 3			44		44		30	5	20	8
Task 4	50					36	36	5	20	5
Total LOE	132	82	44	44	50	120	120	20	80	23

TABLE III: SCHEDULE OF ACTIVITIES

Illustrative Scenarios	Month of Activity				
	Jul 1994	Aug 1994	Sep 1994	Oct 1994	Nov 1994
A	Task1	Task1&2 Task3	Task4		
B	Task1	Task1&2	Task3	Task4	
C	Task1	Task2 Task3 Task4			
D	Task1	Task2 Task3 Task4			

TABLE IV: SCHEDULE OF DELIVERABLES (due dates)

Task #	Scenario A				Scenario B			
	Start Date	Scoping Report	Draft PEA/EA	Final PEA/EA	Start Date	Scoping Report	Draft PEA/EA	Final PEA/EA
Task 1	Jul 18	N/A	Aug 8	Aug 15	Jul 18	N/A	Aug 8	Aug 15
Task 2	Aug 15	Aug 29	Sep 9	Sep 16	Aug 15	Aug 29	Sep 9	Sep 16
Task 3	Aug 15	Aug 29	Sep 9	Sep 16	Sep 18	Oct 2	Oct 14	Oct 21
Task 4	Sep 18	Oct 2	Oct 21	Oct 28	Oct 23	Nov 6	Nov 24	Dec 2

Task #	Scenario C				Scenario D			
	Start Date	Scoping Report	Draft PEA/EA	Final PEA/EA	Start Date	Scoping Report	Draft PEA/EA	Final PEA/EA
Task 1	Jul 18	N/A	Aug 8	Aug 15	Jul 18	N/A	Sep 5	Sep 19
Task 2	Jul 18	Aug 1	Aug 15	Aug 22	Jul 18	Jul 25	Sep 5	Sep 19
Task 3	Aug 15	Aug 29	Sep 9	Sep 16	Jul 18	Jul 25	Sep 5	Sep 19
Task 4	Jul 18	Aug 1	Aug 19	Aug 26	Jul 18	Jul 25	Sep 5	Sep 19

Notes to LOE chart:

All tasks: expats will require 6 days prep in U.S.; 5 days travel (roundtrip incl stopover in Europe); 3 days finalization of reports in U.S.

Task 1 = 4 x 6-day work week in-country = 24 days for expats and locals

Task 2 & 3 = 5 x 6-day work week in-country = 30 days for expats and locals

Task 4 = 6 x 6-day work week in-country = 36 days for expats and locals

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