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The  
Sahel  
Epidemiological and Environmental  
Assessments Project

Third  
QUARTERLY REPORT

May 15, 1977

**AMERICAN PUBLIC HEALTH ASSOCIATION**

International Health Programs

1015 Eighteenth Street, N.W.

Washington, D.C. 20036

AID/DFW-C-1253

The  
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QUARTERLY REPORT

May 15, 1977

Submitted by: Jason N. Calhoun, M.P.H.  
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In agreement with: The Agency for International Development

Authorized under

The Sahel Epidemiological and Environmental Assessments  
Project - Third Quarterly Report

I. Project Description:

Under Contract AID/Afr-C-1253, APHA is providing technical services to AID for conducting health assessments in support of its assistance to the governments of Liberia, Swaziland, and to countries in the Lake Chad and Niger River Basins.

The Assessment Project is a developmental supportive activity. APHA, at the request of AID and the host countries, is undertaking environmental health and epidemiological studies in these countries in order to determine current needs for future operational projects addressed to epidemiological and environmental health problems. These assessments will provide the current data base for AID plans which are being projected for alleviating illnesses from the major endemic diseases in the Sahel areas and other African countries. The assessments require in-depth reviews and analysis of the problems, needs, resources and options available for improving health services.

II. General Discussion:

This report covers the period from February 15, 1977 through May 15, 1977. It constitutes the Third Quarterly Report required under the contract. There has been constant progress made in carrying out the assessment activities and efforts to achieve project objectives are encouraging. With the utilization of its Consultant Registry and professional contacts, APHA assembled teams consisting of APHA staff and selected consultants to participate in environmental assessments. To date the consultant teams assigned to conduct the assessments have consisted of health professional categories such as,

epidemiologist, malacologist, environmental health specialist, sanitary engineer, health administrator/planner, rural health delivery specialist, health manpower specialists, schistosomiasis expert and malariologist.

During this reporting period six assessment assignments were initiated. All were environmental in scope and were related to the health impact of existing or planned agricultural or water resources developmental projects. The two assessments in Senegal were additions to the four assessments which had been scheduled under the project plan for this period.

The field work for two assessments -Upper Chad Basin and Zaire, initiated during the previous Quarter were completed. Field work for the Upper Volta Health Sector Assessment was completed also. Activities planned, initiated or undertaken during the reporting period included two assessments in Senegal, and one each in Sudan, Swaziland, Chad, Mali, Benin and Upper Volta.

Field work for four assessments have been completed. The Lower Chad Basin Team is still on location and three are awaiting Mission and host countries clearances. These three are the proposed teams for the Middle Niger Basin (Upper Volta and Benin) and the Upper Niger Basin (Mali). Assessment activities planned previously for Swaziland and postponed were revised and the first of a two part activity was carried out during this Quarter. The assigned task in the field will involve the utilization of seventeen short term consultants and two APHA core staff members.

The accompanying Chart #I is a record of each work assignment issued to APHA or conducted in accordance to the plan under this contract during the Third Quarter. The chart provides data showing the date of request, the



dates that the work was initiated and anticipated to start in the field and the dates on which the consultation findings became available to USAID Mission and the Bureau for Africa/AID. Also identified are the consultants, and/or APHA staff involved as well as the foreign country involved. Chart #II is a record of work during the Second Quarter.

D. Administration

During this reporting period, APHA staff time has been divided almost equally between administrative and programmatic matters, such as the preparation of documents, development of scopes of work, securing adequately qualified consultants and the accumulation of equipment and supplies to meet activity requirements. The division of project time given by APHA staff during this third reporting quarter is shown on the following Chart #III.

1. Procurement of Equipment and Supplies

An additional \$4,000.00 was spent to provide expendable supplies for the Health Assessment Teams that visited the Sahel countries during this report period. Also during the quarter, \$1,300.00 was spent for the acquisition of additional field equipment to be used by the Environmental Health Assessment Teams. The Sahel program now has sufficient equipment to be able to field at least two teams simultaneously. All purchases will be itemized in the final report on the project.

2. Teams to be Scheduled During the Next Reporting Period

a. Southern Zone, Lake Chad Basin Environmental Assessment Team, which will conduct assessments in Marova of Lagone-Chari department areas of Cameroon.

Second Quarter  
Summary of Assignments  
Under Contract AID/Afr-C-1253

March, 1977

<u>Field Assignment Record</u> (Day-Month-Year)			<u>Type of Assignment</u>			<u>M/M</u>	<u>Consultant(s)</u>	<u>Foreign Country Involved</u>	
Requested by AID or Initialed Per Plan	Field Work Initiated or Scheduled	Field Work Completed	Reports Submitted USAID Mission Draft APHA Draft	Environmental	Health Sector Assessment				
9/8/76	10/6/76	11/21/76	11/27/76	3/17/77		X	3½	Fairweather Boostrom Neal	Niger
10/10/76	10/21/76	11/4/76	11/4/76	11/10/76	X		½	Nebiker	Senegal
1/4/77	2/9/77	3/18/77	3/18/77	5/6/77		X	6½	Juni Bailey Blumhagen Camacho Dupuis	Upper Volta
1/10/77	2/10/77	3/1/77	3/1/77	3/8/77 Interim	X		5	Gibson Van der Schalie Ruiz-Tiben Grigsby	Liberia
1/20/77	scheduled 3/5/77	cancelled 2/25/77	--		X		--	Lennox Poindexter Grigsby Malek Henderson	Swaziland
1/25/77	1/31/77	2/17/77	3/1/77	5/2/77	X		½	Johnson	Senegal
2/7/77	3/19/77	4/20/77	4/21/77		X		5	Malan Spielman Haritani Schneider	Northern Zone, Lake Chad
2/15/77	2/25/77	3/26/77	--	5/31/77	X		*	Conner Duncan Meyers Neafie	Zaire

\* Detailed

Chart III

<u>Activity</u>	<u>Staff</u>	<u>Man/Months for Quarter</u>
Liaison Matters, Preparation of Documents and Preparation of Staff for Field Assignments	Project Director	3/8 m/m
	Co-Project Director	3/5 m/m
	P.H. Administrator	3/4 m/m
	Secretaries	6 m/m
	Messenger Clerk	1 m/m
Development of Scopes of Work	Epidemiologist	3/4 m/m
	P.H. Administrator	3/4 m/m
	Environmental Specialist	3/4 m/m
Consulting and Recruiting Consultants	P.H. Administrator	1/2 m/m
	Co-Project Director	3/5 m/m
	Epidemiologist	3/4 m/m
Selection and Procurement of Equipment and Supplies	Epidemiologist	3/4 m/m
Reviewing Literature	P.H. Administrator	3/5 m/m
	Epidemiologist	3/4 m/m
	Environmental Specialist	3/5 m/m
Briefings and Debriefings	Project Director	3/8 m/m
	Co-Project Director	3/5 m/m
	P.H. Administrator	3/4 m/m
	Environmental Specialist	3/4 m/m
Field Work Activities	Environmental Specialist	1/2 m/m
	Epidemiologist	1/2 m/m

b. The Middle Zone, Niger River Basin Environmental Assessment Team, which will carry out assessments in the Niamey-Gaga areas of Niger.

3. On-Going Team Operations During Third Quarterly Report

a. The Upper Zone, Niger River Basin Environmental Assessment Team, which will carry out assessments in the Bamako-Segou and Mopti and Gao areas of Mali.

b. The Middle Zone, Niger River Basin Environmental Assessment Team will carry out assessments in Bagande' Kantchari-Diapaga of Upper Volta (Integrated Rural Development Project) and in Malanville area of Benin (Irrigation-Crop Production project).

4. Modification of Contract

During this reporting period, Contract AID/Afr-C-1253, pertaining to the Sahel Epidemiological and Environmental Assessment Project, was amended providing for expansion of African countries in which APHA is authorized to carry out environmental assessments upon request from USAID Missions and host governments.

5. Financial Status of the Project

The project funding expenditures and requirements, from August 9, 1976 through the end of December 1977, are shown in Chart #IV.

E. Project Constraints

1. There are delays in communications which affect operations in AID/W, APHA, USAID Missions and in the host countries, and as a result;

- a. Host countries and USAID Missions do not always fully understand and appreciate the purpose nor value of the SEEA Project activities.
  - b. AID Mission personnel, therefore, give inappropriate priority to the project activities.
2. Due to the delay in getting concurrence on consultants, the time frame for host country visits and the specific scopes of work, recruiting consultants has been a major problem.
  3. Locating consultants with the combined prerequisites, "Africa work experience", the "desired expertise" and "French Language fluency", further intensifies the problem of recruiting.

### III. Recommendations:

A. That improvements in communications and coordination between APHA, AID/W, USAID Missions and host countries be facilitated by establishing regular meetings between APHA and AID staffs.

B. Information relevant to the project transmitted to the host countries be supplemented by preparatory visits to AID Missions by APHA and AID/W personnel in order that host countries and AID Missions may be better prepared for the planned assessments.

C. Prior to recruiting members for the assessment teams, there be concurrence from all necessary sources (AID Mission, host country, AID/W) as to team composition, scope of work and time frame for visiting host country.

AID/AFR-C-1253

Chart IV

ESTIMATE OF FUNDING REQUIREMENTS - AUGUST 9, 1976 TO DECEMBER 30, 1977

		Expenditures thru Apr. 30, 1977	Unexpended Bal Apr. 30, 1977	Estimated May 1-Aug. 30, 77		Estimated May 1-Sept.30, 77	Estimated Cost Oct.1-Dec.31 77	TOTAL May1-Dec31	
Direct Salaries Wages and Fringe Benefits	\$141,206	\$78,966.97	\$ 62,239.03	\$ 68,733.99	(6,494.96)	\$86,759.59	(24,520.56)	49,615	\$ 91,724.
Consultants	\$170,000	\$69,599.27	\$100,400.73	\$100,000.00	\$ 400.73	\$103,000.00	(2,599.27)	3,000	\$ 106,000.
Travel	\$184,800	\$58,243.42	\$126,556.58	\$ 79,800.	\$46,756.58	\$ 83,800.00	42,756.58	6,000	\$ 89,800.
Other Direct Cost	\$ 19,261	\$21,931.03	\$ 2,670.03	\$ 20,500.	(23,170.03)	\$ 26,100.00	(28,770.03)	5,500	\$ 31,600.
Total Direct Cost	\$515,267	\$228,740.69	\$286,526.31	\$269,033.99	\$17,492.32	\$299,659.59	(13,133.28)	64,115	\$363,774.56
Overhead	\$ 84,733	\$ 47,324.89	\$ 37,408.11	\$ 41,192.28	( 3,784.17)	\$ 51,995.05	(14,586.69)	28,835	80,830.05
TOTAL	\$600,000	\$276,065.58	\$323,934.42	\$310,226.27	\$13,708.15	\$351,654.64	(27,720.22)	92,950	\$444,604.64
									(120,670.22)
Amount Funded 8/9/76	\$300,000	\$150,000.00	9/28/76						
Balance Funded	\$300,000	\$173,934.26	\$173,934.26	(136,292.01)		(177,720.)	( 270,669)		

**Note:** Figures in brackets are expenditures over and above funds Budgeted and Obligated by the Contract for the specified time period shown on chart.

Appendix ASummary of Technical Assistance Services under the SEEA Project,  
AID/Afr-C-1253 - Period February 15, 1977 - May 15, 1977

<u>Purpose of Assignment</u>	<u>Country</u>	<u>Period of Assignment</u>	<u>Staff and Consultants Involved</u>
To provide Epidemiological and Health input for Development of Strategy and Project Documents relevant to AID support of Traditional Sector Agriculture.	Sudan	3/29/77 - 4/11/77	R. Lennox
Environmental Assessment and Health Component Design of the Bakel Irrigated Perimeter Project.	Senegal	4/11/77 - 4/7/77	U. Gibson S. Miller K. Palmer S. Hennein F. Carroll
To Assist in Development of a project Identification Document in support of efforts to control Bilharzia and to provide Clean Rural Water in Agricultural Development Areas.	Swaziland	5/5/77 - 5/18/77	J. Bruce G. Unrau
Aid in determining current needs for future operational projects addressed to epidemiological and environmental problems.	Chad	5/9/77 - 6/13/77	C. Schneider R. Grenier F. Carroll
In support of AID plans in determining methodology for alleviating major endemic diseases in project areas.	Benia and Upper Volta	scheduled 6/6/77 - held in abeyance	M. Vernier D. Price Chin-Tsong Lo P. Herbert
To study, analyze problems, needs, resources and options available in health to alleviate major endemic diseases in project areas.	Mali	6/27/77 - 7/25/77	B. Challenor E. Malek D. Clyde K. Kawata

Appendix BSummary of Technical Assistance Services under the SEEA Project, AID/Afr-C-1253  
(November 15, 1976 - February 15, 1977)

<u>Purpose of Assignment</u>	<u>Country</u>	<u>Period of Assignment</u>	<u>Consultants Involved</u>
Environmental Assessment for Bakel Crop production project to assist in determining impact of project on health of population.	Senegal	10/21/76 - 11/5/76	John H. Nebiker, P.E. Sc.D.
Health Sector Assessment for preparation of PRP on plan for delivery of Health Services.	Niger	10/10/76 - 11/20/76	Eugene R. Boostrom, M.D. Gladstone Fairweather, M.S. James Neal, M.S.
Environmental Assessments relevant to projects in Lofa and Bong counties.	Liberia	2/10/77 - 3/3/77	Ulric P. Gibson, Ph.D. Ernesto Ruiz-Tiben, M.S. Margaret E. Grigsby, M.D. Henry Van der Schalie, Ph.D.
Health Sector Assessment	Upper Volta	2/9/77 - ongoing	Robert P. Juni, D.V.M. Jeanne B. Blumhagen, M.D. Ruth W. Camacho, M.D. Vernon Bailey, M.P.H. Theresa A. Dupuis, M.P.H.
Environmental Assessment in the Lampsar-Diagambla Irrigated Perimeters of the Delta areas of Senegal in support of irrigation project of IBRD.	Senegal	1/31/77 - 2/17/77	Charles C. Johnson, Ph.D.
Environmental Assessments in the Middle and Lower Velds, directed primarily towards plans for development of national schistosomiasis control project.	Swaziland (cancelled)	3/6/77 -	Robert W. Lennox, Sc.D. Hildrus A. Poindexter, M.D. John W. Greenley, M.P.H. Emile A. Malek, Sc.D.
Environmental Assessment in the N'Djamena-Bol-Moussora sites of Lake Chad Basin relevant to on-going projects and those proposed.	Chad	3/19/77 - 4/20/77	Roy M. Malan, M.D. Andrew Spielman, Sc.D. Curt Schneider, Sc.D. Joseph Haritani, M.S.
Epidemiological Studies and Assessments pertaining to onchocerciasis in the Ecuator Region of Zaire.	Zaire	2/25/77 - 3/31/77	Daniel H. Connor, M. D. John F. Duncan, H.M.C. Wayne Meyers, M.D. Ronald C. Neafie, M.S.