

**Sustainable Development of Drylands
in Asia and the Middle East:
Jordan Component**

**Visit Report
November 1 To November 10, 2004**

**Report Number
2004-005**

Prepared

by

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I. Objectives

Dr. Akrum Tamimi's visit to Jordan was intended to fulfill the following objectives:

1. ASEZA

- Water Conservation Garden: To communicate with ASEZA via phone and in person to get an acceptance letter sent to BRDP by ASEZA for the Water Conservation Garden plans, designs and reports completed by Ms. Karen Vitkay.
- Travel to Aqaba and work with ASEZA staff to obtain information regarding the irrigation system design as requested by Dr. Pete Waller. Also to obtain information related to the wastewater budget.

2. RSS/ERC

- Print and Deliver a copy of Phase I RSS/ERC Technical Report in cooperation with BRDP to USAID – Amman Mission.
- Work on publishing a paper or papers from the Technical report.
- Work with RSS and BRDP to finalize Phase II Biosolids subcontract between RSS and BRDP. Review the contract for final approval.
- Meet with Engr. Wael Suleiman and Engr. Ali Omari to give an orientation to travel to AZ.
- Finalize with BRDP the contract with JUST for supporting JUST staff attending the salinity conference in Pakistan.

3. USAID

- Meet with Dr. Amal Hijazi for a review of the Gantt Chart and deliverables for the IALC project and for an update of activities.

4. Wadi Mousa

- Deliver Erin's "Continuity and Change: a landscape master plan for Sidd al-Ahmar, Jordan; October 2004" to Dr. Amal Hijazi.
- Meet with Sahel, the architect, and discuss the possibility to continue the work on Wadi Mousa Community Center. If acceptable to him to continue, to organize, in cooperation with BRDP, a subcontract between his firm and BRDP to carry on the architectural design of the building.

- Meet with Mr. Ziad Abd-Rabu with the Regional Contracting Office of USAID in Amman to discuss tender documents requirements and to obtain some guidance.
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- Start the bidding process for hiring an engineering firm to develop the tender documents for the Community Center at Wadi Mousa.

5. Work with BRDP on reports, contracts and money transfers.
6. Meet with Mona Grieser from WEPIA to look at their work and data and find out possible publications that can come out of that work.
7. Meet with Mr. Ramzi Sabella to get information about the project related to anaerobic wastewater treatment project at USAID
8. Meet with Maha Halalsheh from U of Jordan to discuss the anaerobic MERC Project

II. CDM

Dr. Tamimi held a meeting with Mr. John Pasch from CDM on November 2nd, 2004 at 2:30 p.m. at CDM headquarters. During the meeting the following topics were discussed:

1. Scope of Work

The Scope of Work for the design and development of the tender documents for the construction of Wadi Mousa Community Center was discussed. Mr. Pasch indicated that when the request to bid for the development of the tender documents are being prepared a clear statement should be included in the SOW and TOR indicating that the bill of quantities should be supplied with actual fair market prices.

Mr. Pasch also indicated that there are opportunities for IALC and the technical assistance team of the Sustainable Development of Drylands Project to do some training in Jordan. The training in Jordan that will be conducted comes in three forms:

1. Training Resources Group:
This group designed the training program for CDM as part of their implementation subcontract with USAID. An email was sent by Dr. Tamimi to the group indicating the capabilities IALC technical assistance team has.
2. ARD:
Dr. Hammond Murray-Rust from ARD, a subcontractor for CDM worked with Mr. Howard Sokoloff: hsokoloff@aol.com on designing a training program in the area of water and ground water to be implemented in Jordan. Mr. Pasch asked Dr. Tamimi to contact Mr. Sokoloff to give an introduction about the IALC activities in Jordan.
3. ECODIT:
ECODIT has won a contract from USAID to work on small scale wastewater treatment systems and reuse. ECODIT will be conducting a survey of the different systems and will be initiating pilot study sites in two locations in Jordan to study at least two of the promising technologies one of which could be anaerobic system. This is the project Dr. Tamimi was talking about in regard to anaerobic treatment system. The project is funded for 4 years and the responsible officer from USAID is Mr. Ramzi Sabella.

Mr. Pasch indicated that he, Chitra Parameswar from CDM and Dr. Hijazi will be in Aqaba on the 7, 8, and 9th of November. Dr. Tamimi arranged a meeting with Dr. Hijazi on November 8th, 2004 at 2:00 p.m. to discuss the different aspects of the Sustainable Development of Drylands Project.

III. ASEZA

Dr. Tamimi flew to Aqaba on Saturday morning November 6, 2004 and arrived there around 9:00 a.m. He met with Engr. Hanadi Amro from Physical Planning at ASEZA. He discussed with her the irrigation system design and got feed back on IALC activities in Aqaba.

1. Water Conserving Garden

On Sunday November 7, 2004, Dr. Tamimi met with Engr. Ghassan Ghanem, the director of Municipal Affairs and Public Works at ASEZA. The Water Conserving Garden issue was discussed and the need of a letter accepting the design performed by Ms. Karen Vitkay from School of Landscape Architecture at The University of Arizona was expressed by Dr. Tamimi. Engr. Ghanem indicated that the letter should be initiated by Dr. Bilal Bashir. During the discussion with Engr. Ghanem, Dr. Tamimi indicated that Terms of Reference and Scope of Work has been drafted to request bidding for developing tender documents for the Wadi Mousa Community Center and ASEZA is welcomed to use an updated version of the TOR and Scope of Work for their request for bidding. Engr. Ghanem indicated that will facilitate the process and will ease the preparation of the TOR and the SOW for the Water Conserving Garden. Dr. Tamimi promised to send a modified copy to Engr. Ghanem when the final approval of the Master plan is received.

A meeting with Dr. Bilal Bashir was scheduled on the same day at noon. During the meeting with Dr. Bilal, Dr. Tamimi explained the process that has been taking place in regard to the master plan Karen produced and presented on August 11, 2004 at ASEZA. He also explained that Ms. Dima Abu Thiab from Land and Infrastructure Department at ASEZA has been reviewing the master plan and communicating the modifications requested by the different staff members to Karen and Karen has been responding and making the modifications as requested by ASEZA.

Dr. Bilal asked for the SOW for ASEZA and Dr. Tamimi explained the different activities that are going on for 2004/2005. Dr. Bashir questioned the SOW and asked who decided on it. Dr. Tamimi indicated that some of the activities have been going on since year 1 of 4 and that they will be completed during year 2 of 4. Dr. Bashir requested that IALC help ASEZA in characterizing and treating the sludge that will come out of the Aqaba wastewater treatment plant during the construction and the upgrading of the plant. Dr. Tamimi indicated that when determining the activities of year 3 of 4, he and Mr. Bob Freitas will visit with Dr. Bashir to solicit activities from ASEZA. The details of the ASEZA's sludge problems and proposed solutions are discussed below in item number 5.

Dr. Bilal expressed some concerns in regard to the Water Conserving Garden design and the actual implementation of the master plan. He wanted to make sure that the tender documents will translate the master plan concept when developed. Dr. Tamimi assured him that the plan can be implemented and the same concept can be translated into actual work on the ground.

Dr. Bilal was specifically concerned about the tents for the shading and indicated that the tents will be expensive when implemented. Dr. Tamimi assured him that the cost has been taken into account and an estimate for the project was given to USAID so as to budget for the actual implementation.

Dr. Bilal Bashir then promised to write a letter of acceptance of the master plan and send it to BRDP and that a copy is sent to Dr. Tamimi by Thursday November 11, 2004. Engr. Khaled Abu Aisheh was present during the meeting and was assigned the responsibility of drafting the letter and sending Dr. Tamimi a copy of the signed letter by email on the same day.

Thursday November 11, 2004 became a mourning day for the death of President Yasser Arafat. Dr. Tamimi called Engr. Khaled Abu Aisheh on November 18, 2004 and asked if the letter was drafted and signed by Dr. Bilal? It turned out that nothing happened and that Engr. Khaled is leaving on Saturday November 20, 2004 to China on a training course for few weeks. Dr. Tamimi requested that he arrange for the letter to be signed and sent to BRDP.

Dr. Tamimi will call Dr. Bilal on Sunday November 21, 2004 and make sure that the letter gets drafted, signed and sent to BRDP and to him.

2. Irrigation System Design for City of Aqaba

During the meeting with Engr. Ghanem, he requested the trip report for Pete's visit in August. Unfortunately, Dr. Tamimi did not have a copy. He promised a copy to be delivered to ASEZA as soon as possible.

Dr. Tamimi indicated to Engr Ghanem and later to Dr. Bilal that IALC will be able to deliver a complete design for the irrigation systems for the city of Aqaba if certain information is made available by ASEZA. The input needed from ASEZA would be:

1. A hard copy and a soft copy in GIS format of the as built drawings of the network of the main lines designed by Montgomery Watson and implemented by Morganti with the following information:
 - a. Location of outlets
 - b. Elevation of outlets
 - c. Pressure head of outlets
2. Soil type(s) for the City of Aqaba
3. A hard copy and a soft copy in GIS format of the land cover for the City of Aqaba that shows:
 - a. Tree locations and types
 - b. Green areas and grass types

Dr. Tamimi indicated that if the above information is provided to IALC, then members of the IALC technical assistance team comprised of Dr. Pete Waller, Dr. M. Yitayew and Dr. Akrum Tamimi will provide the following deliverables:

1. A design of the irrigation system(s) for the entire city of Aqaba in a GIS format.
2. An irrigation management scheme for the system.
3. Bills of quantities for the designed irrigation systems.
4. Specifications for the components of the designed system.

Engr. Ghanem indicated that Dr. Tamimi should work with Ms. Hanadi Amro on getting the required information indicated above. In the meeting with Dr. Bilal Bashir and later with Engr. Mohammed Balqar, both expressed interest in the deliverables and were excited about them. Dr. Tamimi indicated that there is urgency in obtaining the required data listed above and a deadline of November 25th was set for getting them to him through Ms. Hanadi Amro.

It was also indicated that the main contact for this part of ASEZA activities is Engr. Hanadi Amro.

3. Irrigation System Design Training

Dr. Tamimi indicated to Dr. Bilal Bashir and to Engr. Balqar and to Engr. Ghassan Ghanem that the SOW for the current year includes a workshop to be held in Jordan to train ASEZA's staff irrigation system design. An expression of interest and need was shown by the three. Dr. Tamimi indicated that: the who to be trained, the when and where the training will take place will be left to ASEZA to determine. Dr. Pete Waller will discuss: the who, when and where with ASEZA in his proposed trip to Jordan in January 2005.

A need for a proposed training schedule with topics needs to be developed by The University of Arizona and sent with a letter to Dr. Bilal Bashir. The proposed time frame is the summer of 2005. A group of 10 to 12 participants can be accommodated. The participants should have at least a course in hydraulics to be able to attend and benefit from the training workshop.

4. Landscape Architectural Training

During the discussion with Dr. Bilal Bashir, he indicated that maybe ASEZA does not need such training. Then he indicated that detailed schedule with topics be submitted to him to decide on who would attend the training.

5. Sludge and Biosolids

As indicated earlier in item 3, Dr. Bilal Bashir has a big concern about the sludge that will come out of the ponds during the rehabilitation of the Aqaba wastewater treatment plant. He requested that IALC characterize it and give a method to treat and indicate the different methods of disposal or reuse.

Dr. Tamimi indicated that IALC does not have a budget item for such an activity. He indicated however that if ASEZA can characterize the sludge by taking representative samples at different depths and locations from the ponds and supply IALC with the results then IALC will be able to study the results and suggest a treatment method and a corresponding disposal or reuse.

Dr. Bilal Bashir is working on getting the subcontractor rehabilitating the Aqaba wastewater treatment plant to characterize the sludge present in the ponds.

Dr. Tamimi informed Dr. Bashir about the biosolids ad hoc committee and explained the objectives of the committee and the different work that has been completed and being done by RSS/ERC and informed him that ASEZA will be invited to become a member in that ad hoc committee. More details on the biosolids ad hoc committee are presented later in this report.

IV. RSS/ERC

On November 4, 2004, Dr. Tamimi met with Dr. Bassam Hayek and Engr. Wael Suleiman from RSS/ERC at RSS headquarters. The following topics were discussed:

1. Phase I RSS/ERC Technical

Two final copies of the phase I Biosolids Characterization technical report were submitted to BRDP at the beginning of September. A copy with a letter should have been sent by BRDP to Dr. Amal Hijazi. Dr. Tamimi consulted with Engr. Shahbaz and acknowledged the receipt of the copies and passing them along to Dr. Saad Al-Ayyash. After discussing the matter with Dr. Al-Ayyash on Tuesday, November 9, 2004 during a meeting with Dr. Al-Ayyash and Engr. Shahbaz, it turned out that the two copies have arrived and were taken to the Safawi field office. Dr. Saad Al-Ayyash promised to get a copy with a letter from BRDP sent to Dr. Hijazi at USAID.

It should be mentioned that a soft copy was emailed to all concerned parties by RSS/ERC. The size of the word document is about 38 Mega Bytes and most email servers reject such a document or MS Outlook is optioned at rejecting such a large email attachment. Dr. Tamimi had a copy on a CD that was given to him by RSS/ERC and during a meeting with Dr. Hijazi in Aqaba as outlined in item V below; Dr. Tamimi provided Dr. Hijazi with an electronic copy.

2. The Publication of the Phase I Biosolids Characterization Data

During the same meeting, it was agreed that Dr. Tamimi would start the process of determining how many papers can come out of the technical report. In addition, Dr. Tamimi will be developing an outline or outlines for the papers and would consult with Dr. Bassam Hayek and Engr. Wael on the outcome.

After reviewing the technical report, Dr. Tamimi believes that at least three papers can come out of the technical report and a deadline of the end of November 2004, is set to develop the outline of each paper.

3. Phase II Biosolids Application Subcontract

During the meeting Dr. Tamimi asked Dr. Hayek if the account of phase I has been closed. It turned out that there is a 10% of the total amount for the Phase I project that has not been paid by BRDP to RSS. This issue was discussed with BRDP staff during a later meeting and they indicated that the amount will be paid to RSS/ERC soon. Billing from RSS/ERC have been completed and the payment of the 10% of the value of the project will close and complete this activity.

4. Biosolids Laboratory Training Tour to Arizona

Dr. Tamimi met with Engr. Wael Suleiman and Engr. Ali Omari and discussed the upcoming trip to The University of Arizona. Travel from Amman and arrival to Tucson, AZ will take place on

Saturday, December 4, 2004. Sunday, December 5th will be a rest day The laboratory training tour will start on Monday, December 6, 2004 and will last for 2 weeks.

Visas have been obtained by the 2 participants and the IALC office at The University of Arizona made travel arrangements, arranged for insurance and arranged accommodations for the two participants.

Dr. Tamimi briefed both participants during a separate meeting on the same day of the immigration regulations, airport procedures and what to do if you get stuck at the airport for any reason, reimbursement issues, per diems, cultural concerns and answered questions. It is believed that tickets will be sent by FedEx to the participants from IALC office at The University of Arizona.

The following issues came out during the discussions and need to be **addressed by IALC office quickly**:

1. Who is going to cover the following additional expenses:
 - a. Airport tax that amounts to JD25.00
 - b. Transportation from Amman to Queen Alia Airport and from Queen Alia Airport to Amman upon return.
 - c. The Visa Fee that amounts to \$100.00 and is paid twice by Engr. Ali Omari

2. A letter from IALC needs to be sent to the participants indicating that the IALC project will cover there expenses, insurance, accommodations, per diems including the exact amounts and other related issues. The letter is needed for use at US entry ports in case the participants are asked who is covering there expenses and to be used at the participants institutions to determine if the institution is required to cover some of the cost.

V. USAID

As indicated in item II:1 above, a meeting with Dr. Amal Hijazi was scheduled in Aqaba for Monday, November 8, 2004 at 2:00 p.m. Present at the meeting were: Mr. John Pasch and Engr. Chitra Parameswar from CDM.

Dr. Tamimi went over the activities he worked on during his trip to Jordan which includes the materials in this report. Dr. Tamimi promised to deliver this report to Dr. Hijazi when it is completed.

Dr. Hijazi requested a copy of the report that will be submitted by JUST staff who attended the salinity conference in Pakistan.

In addition, for reporting purposes, Dr. Hijazi requested a list of all Jordanians who participated in the different training courses, workshops and technical tours that was conducted through the Sustainable Development of Drylands Project. Dr. Tamimi promised to supply the list as soon as possible.

Dr. Tamimi would like to have the IALC office at The University of Arizona send this list directly to him to be submitted to USAID with the other reports that he intends to provide to USAID in the beginning of December, 2004.

A meeting has been scheduled to meet with Dr. Amal Hijazi on Wednesday, December 1, 2004 at 2:30 p.m. at her office.

VI. Wadi Mousa

1. "Continuity and Change: a landscape master plan for Sidd al-Ahmar, Jordan; October 2004" by Erin Addison

The landscape master plan has been completed and printed by Erin on high quality paper. Several copies have been made and were designated to be delivered as follows: one copy to PRA and was delivered by Erin herself to a PRA staff member; a second copy was planned to be sent to ministry of antiquity and a third was planed to be delivered to Dr. Amal Hijazi at USAID.

It turned out that Engr. Shahbaz knew about the master plan and asked Erin to take the word "Draft" out of the title. Dr. Tamimi was not aware of the master plan. The work developed by Erin is great and of high quality but a few problems exist: the first is the process that is used to pass on the report to the Jordanian partners and the second is the lack of communication with Dr. Tamimi.

An option has been mentioned in the master plan produced by Erin stating that if the problems of permits from UNISCO and other involved agencies continue, the Community Center can be constructed on a portion of the nursery site that is adjacent to the Wadi Mousa wastewater treatment plant that has the prefabricated offices on it.

Dr. Tamimi and Engr. Shahbaz met on November 4, 2004 and discussed the issue of Erin's master plan. It was decided that a recall of the report delivered to PRA should be made and the rest of the copies should stay at BRDP for now.

A process has been agreed upon between Dr. Tamimi and Engr. Shahbaz described in the following:

1. Dr. Tamimi, Engr. Mohammed Shahbaz and Dr. Saad Al-Ayyash will review the master plan and make recommendations for modifications. In addition, Dr. Margaret Livingston should review the master plan and give her approval of the work to Mr. Freitas and to Dr. Tamimi.
2. When all modifications, if any, have been made, two final copies will be produced and sent along with a letter from BRDP requesting a written acceptance of the master plan to:
 - Petra Regional Authority

- Jordan Ministry of Antiquity
3. While waiting for acceptance from PRA and Ministry of Antiquity the architectural plans will be developed by the architect. A preliminary version will be produced and discussed with PRA and the Ministry of Antiquity and an approval will be obtained from PRA and Ministry of Antiquity on the concept through direct written communication between them and BRDP.
 4. The process through which the architect will perform his work and deliver the architectural concept and final architectural drawings is outlined below.
 5. When the architectural concept is approved in writing, the concept will be presented to USAID orally by the architect and feedback will be requested in writing from USAID if any.
 6. When the architectural concept is approved in writing, the concept will be used along with the TOR and SOW developed by Dr. Tamimi for developing tender documents to request quotations from at least three Engineering Firms in Jordan to develop the final set of tender documents that will be used for construction by CDM.
 7. The approved preliminary version of the architectural concept will be developed to a final version with detail drawings by the architect. The architect will work closely and in cooperation with the engineering firm selected for the development of the tender documents.
 8. When the final copy of tender documents is ready then the entire package of documents including Erin's landscape master plan and interpretive materials will be delivered to USAID along with a cover letter form BRDP. The package will include:
 - The landscape master plan
 - The landscape interpretive materials
 - The tender documents, consisting of:
 - i. Drawings as outlined in the TOR and SOW developed by Dr. Tamimi, in addition to the detailed architectural drawings
 - ii. Bills of quantities with actual cost
 - iii. General Conditions
 - iv. Special Conditions
 - v. Specifications
 - vi. Any additional documents that are required by USAID

2. Developing the Architectural Drawings

Dr. Tamimi met with Mr. Sahel Al-Hiyari on November 4, 2004 and Mr. Al-Hayari indicated that he is still interested in working on the community center. He also indicated that he would like to give a different quotation and will require a different time frame. Dr. Tamimi and Mr.

Hayari agreed that the following steps would be followed to start the process of developing the architectural drawings:

1. Dr. Tamimi will review the request for submitting financial and technical proposal for the design of the community center prepared few months ago and send it to BRDP.
2. BRDP will send that document to Sahel Al-Hiyari & Partners, SHP, in Amman requesting a financial and technical proposal.
3. SHP will study the request and send a financial and technical proposal to BRDP for completing the architectural drawings for Wadi Mousa Community Center.
4. After accepting the offer by BRDP and Dr. Tamimi, a contract will be organized between SHP and BRDP to complete the architectural drawings as outlined in the offer.
5. SHP will develop the architectural concept and present it to BRDP, PRA and Ministry of Antiquity for feed back. SHP will modify the concept as needed.
6. At this stage, the request for developing Tendering Documents for the project would start by sending the architectural concept and the TOR to at least three engineering firms in Jordan.
7. After all modifications are completed and are accepted by PRA and Ministry of Antiquity in writing to BRDP, a copy will be sent to USAID as a notification of the progress accomplished.
8. SHP will develop the full plans and details to be submitted to BRDP. SHP will stay involved in the design and the implementation.

3. Improving the Terms of Reference and Scope of Work to Develop Tender Documents

Upon recommendations from Mr. John Pasch from CDM, Dr. Tamimi communicated with

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from the regional contracting office of USAID in Amman to discuss tender documents requirements and to review the TOR and SOW developed by Dr. Tamimi to request bids to develop the tender documents for the community center at Wadi Mousa.

Mr. Abd Rabu requested Dr. Tamimi email him a copy of the TOR and SOW so he can review them. He indicated to Dr. Tamimi that the TOR and the SOW, in addition to the contract, should indicate that the developed tender documents should abide by and adhered to the requirements of USAID.

The TOR and SOW were emailed to Mr. Abd-Rabu on November 2, 2004.

On November 8, 2004 Mr. Abd-Rabu informed Dr. Tamimi on the phone that he looked at the TOR and SOW and he does not have the technical ability to give an opinion on them since this is not his area of expertise. But he advised Dr. Tamimi to state in the TOR and the SOW in addition to the contract that the developed tender documents should abide by and adhered to the requirements of USAID.

This fact was communicated to Dr. Hijazi and to CDM staff during the meeting in Aqaba and Dr. Tamimi indicated that the tender documents will be developed only once by IALC and IALC and IALC's Jordanian Partners will make the utmost effort to get the engineering firm to abide by USAID rules so the developed packages will suffice for the actual implementation of the Wadi Mousa Community Center.

VII. BRDP: Financial and Administrative Issues

Two meetings were held at BRDP. The first meeting was held on November 1, 2004 and the second was held on November 9, 2004. All issues outlined in this report were discussed in depth with Engr. Mohammed Shahbaz and with Dr. Saad Al-Ayyash. The following issues were discussed in the two meetings:

1. Supporting Participation in the Salinity Conference in Lahore, Pakistan.

The subcontract between BRDP and JUST has not been completed and hence funds can not be transferred to BRDP. It has been requested that BRDP finish this item so the transfer of funds can be completed.

After discussing the issue with Dr. Ziad Ghazawi on the telephone, Dr. Ghazawi indicated that he will develop a request for the travel cost that amounted to approximately JD1200, the cost of travel to Lahore, Pakistan for himself and another member of his staff and will send it to BRDP. A contract has to be completed between JUST and BRDP for the process to continue and to be completed. Also, a report has to be turned in to BRDP and IALC before any reimbursement would take place. The report would outline what was accomplished during the conference, the conference schedule and the benefits gained.

2. RSS Biosolids Phase II Contract

The contract with RSS has not been signed. A discussion related to the language of the contract indicated a need to tie payments to quarterly reports. Dr. Saad Al-Ayyash is going to work on that with RSS.

Dr. Al-Ayyash was waiting for the go ahead from IALC to complete the contract and Dr. Tamimi indicated to him that the reviewers of the proposal submitted by RSS had some comments which RSS responded to in an email. Dr. Al-Ayyash indicated that he did not have the comments or the responses from RSS. Dr. Tamimi promised to send these two items to Dr. Al-Ayyash via email. Dr. Tamimi also indicated that the proposal, the comments from the

reviewers, and the responses to the comments by RSS represent the proposal and the approval of the proposal from IALC side. Dr. Tamimi also indicated that these three items represent the most updated proposal and should be part of the contract and the contract should reference them.

While this report is being compiled, Dr. Tamimi sent the reviewers comments and the responses from RSS/ERC to Dr. Al-Ayyash via email to be included in the subcontract.

3. IALC and BRDP Subcontract for 2004/2005

During the meeting BRDP indicated that they have been waiting for IALC to send the new subcontract. It turned out that IALC has been waiting for BRDP to sign a subcontract with RSS/ERC so it can be included in the BRDP – IALC subcontract to reduce paper work. It should be mentioned here that when the project's primary Jordanian partner signs a subcontract with a Jordanian institution, a new modified version of the original subcontract between BRDP and IALC has to be established and signed.

IALC decided not to wait for the RSS/ERC – BRDP subcontract to be signed and decided on November 17, 2004 to send the original subcontract between IALC and BRDP to be signed.

VIII. Anaerobic MERC Project

A meeting was held with Dr. Maha Halalsheh from WERSC, University of Jordan and a MERC pre-proposal is in the works. The primary partners for the proposal are Prof. Jim Field from The University of Arizona, University of Jordan, Galilee Society and Hebron Center for Water and Environmental Studies, Ghadeer.

IX. Conclusion

During his trip to Jordan started November 1, 2004 and ended on November 10, 2004 Dr. Tamimi accomplished most of the objectives for the trip. The following objectives were not fulfilled due to time constraints and to their irrelevance to the project:

- 6. Meet with Mona Grieser from WEPIA to look at their work and data and find out possible publications that can come out of that work.*

WEPIA are closing their offices and the records of the data have been moved to one of WEPIA's subcontractor for future use.

- 7. Meet with Mr. Ramzi Sabella to get information about the project related to anaerobic wastewater treatment project at USAID.*

Mr. Ramzi Sabella indicated on the telephone that there is no such project. However, there is a project that ECODIT is working on that has to perform a survey of the available technologies for wastewater treatment for small communities. One of these methods could be anaerobic treatment.