

1 INVITATION LETTERS

1.1 Amman-Madaba Invitation Letter

Dear Sir,

Project: Disi-Mudawarra to Amman Water
Conveyance System

Purpose: Environmental and Social
Assessment

Subject: Invitation for the Scoping Session

The Ministry of Water and Irrigation of Jordan has retained Consolidated Consultants for Engineering and Environment to conduct the Environmental and Social Assessment Study for the Disi-Mudawarra to Amman Water Conveyance System.

As part of this project, the Consultant is conducting an environmental and social scoping session to identify environmental and social impacts that might be associated with the project, both during construction and operation. Participants will include representatives from Ministries, government organizations, affected parties, agricultural companies, and municipalities and residents of the project area.

The Ministry of Water and Irrigation invites you to participate in this environmental and social scoping session. The session is to be held at Amman West Hotel - Amman, on Thursday March 27th, 2003 at 8:30 a.m. Attached you will find the meeting's agenda.

Fax Number: 06-4612380

Yours Sincerely,

Eng. Sa'd Al-Bakri

Ministry of Water and Irrigation/Secretary General

1.2 Aqaba-Ma'an Invitation Letter

Project: Disi-Mudawarra to Amman Water
Conveyance System

Purpose: Environmental and Social
Assessment

Subject: Invitation for the Scoping Session

The Ministry of Water and Irrigation of Jordan has retained Consolidated Consultants for Engineering and Environment to conduct the Environmental and Social Assessment Study for the Disi-Mudawarra to Amman Water Conveyance System.

As part of this project, the Consultant is conducting an environmental and social scoping session to identify environmental and social impacts that might be associated with the project, both during construction and operation. Participants will include representatives from Ministries, government organizations, affected parties, agricultural companies, and municipalities and residents of the project area.

The Ministry of Water and Irrigation invites you to participate in this environmental and social scoping session. The session is to be held at AquaMarina II - Aqaba, on Thursday April 3rd, 2003 at 9:00 a.m. Attached you will find the meeting's agenda.

Fax Number: 06-4612380

Yours Sincerely,

Eng. Sa'd Al-Bakri

Ministry of Water and Irrigation/Secretary General

2 AGNEDAS

2.1 Amman-Madaba Agenda

**ENVIRONMENTAL AND SOCIAL ASSESSMENT SCOPING SESSION
FOR
DISI-MUDAWARRA TO AMMAN WATER CONVEYANCE SYSTEM
AMRA HOTEL – AMMAN
27 MARCH 2003**

8:30 – 9:00	Attendance, Receiving and Welcoming
9:00 – 9:15	Opening Statements – Welcoming Remarks Ministry of Water and Irrigation
9:15 – 9:45	Presentation of the Project
9:45 – 10:00	Distribution of Questionnaire
10:00 – 10:10	Group Distribution into Focus Groups
10:10 – 10:30	Focus Groups Discussion
10:30 – 10:50	Coffee Break
10:50 – 12:00	Continuation of the Focus Groups Discussion
12:00 – 1:00	Presentations of Focus Groups Reports
1:00 – 1:50	Comments on Working Group Reports and Questionnaire Results
1:50 – 2:00	Workshop Rap-up and Conclusions
2:00 – 3:00	Lunch

2.2 Aqaba-Ma'an Agenda

ENVIRONMENTAL AND SOCIAL ASSESSMENT SCOPING SESSION FOR DISI-MUDAWARRA TO AMMAN WATER CONVEYANCE SYSTEM RADISSON SAS HOTEL – AQABA 3 APRIL 2003

9:00 – 9:30	Attendance, Receiving and Welcoming
9:30 – 9:45	Opening Statements – Welcoming Remarks Ministry of Water and Irrigation
9:45 – 10:15	Presentation of the Project
10:15 – 10:30	Distribution of Questionnaire and Group Distribution into Focus Groups
10:30 – 10:50	Coffee Break
10:50 – 12:00	Focus Groups Discussions
12:00 – 1:00	Presentations of Focus Groups Reports
1:00 – 2:00	Comments on Working Group Reports and Questionnaire Results and Workshop Rap-up
2:00 – 3:00	Lunch

3 LIST OF INVITEES

3.1 Amman-Madaba List of Invitees

No.	Workshop Participants/Name of Institution	Participants Name	Number of Invited Individuals
Ministries and Governmental Authorities			
1	Ministry of Water and Irrigation	Eng. Sa 'ad Bakri Eng. Fayez Bataineh Eng. Edward Qanqar Eng. Nazeer Abu Arqoub Eng. Mohammad Najjar Eng. Jamal Kawasmeh Eng. Sultan Mshakbeh	7
2	Water Authority of Jordan (WAJ)	Eng. Ahmad Abu Zayoud Eng. Munther Khleifat Eng. Saleh Milkawi Eng. Mohammad Al-Adily Eng. Khaled AL-Qdah Zakariya Tarawneh Dr. Nawal Al-Sanaah	7
3	Jordan Valley Authority (JVA)	Eng. Khayri A'mari Eng. Farouk Kana'an Eng. Fawzi Aababneh	3
4	Ministry of Agriculture	Eng. Amjad Rihani Eng. Falah A'awamleh	2
5	Ministry of Tourism and Antiquities	Eng. Mirvat Ma'moun Houbash	1
6	Ministry of Public Works and Housing	Eng. Sami Halaseh	1
7	Ministry of Social Development	Secretary General	1
8	Ministry of Environment	Secretary General Mr. Raeda A'dwan Mr. Abdel Rahim Wreikat Mr. Ahmad Mahmoud Saeed	3
9	Ministry of Rural & Municipal Affairs	Eng. Nabil Shawareb Eng. Lamyia Zoubi	2
10	Ministry of Transport	Secretary General	1
11	Ministry of Health	Mr. Mohammad Al-Abadi (Head of Water Monitoring Department) Eng. Saleh Nemrawi Mr. Salah Al Hiari	2
12	Ministry of Interior	Secretary General Amman Governor	2
13	Greater Amman Municipality	General Director Dr. Hussein Zaki	2
14	Department of General Antiquities	General Manager	1
15	Department of Public Security	Please, send your representative	1
16	Department of Civil Defense	Please, send your representative	1
17	Natural Resources Authority	Mr. Khaled Al-Shawabkeh	1
18	National Electricity Production Company	Director General	1
19	Land and Survey Department	Director General	1
20	Amman Chamber of Industry	Director General	1
21	Amman Chamber of Commerce	Director General	1
	Ministry of Planning	Secretary General	1
Organizations			
22	Royal Scientific Society	Dr. Mohammad Saydam Dr. Mona Hindawi	2
23	The Royal Society for the Conservation of Nature	Mr. Maher Keshawi	1

No.	Workshop Participants/Name of Institution	Participants Name	Number of Invited Individuals
24	National Society for Environment and Wildlife	Eng. Nabil Abu Shariha Mr. Mohammed Sherif Jayousi	2
25	Jordan Environment Society (Amman)	Representative	1
26	Jordan Environment Society (Madaba)	President: Mr. Mohammad Al-Hroud	1
27	National Society for Preservation of the Heritage of Madaba and its Suburbs	Mr. Akram Masarweh	1
28	Assembly of Social Development for Bani Hamidah Village	Representative	1
29	Aqsa Charitable Society	Ms Nawal Al-Faoury (Mobile: 077-399256)	1
30	Farmers Association	Mr. Bassam Al-Khasawneh (Irbid)	1
31	Kreditanstalt für Wiederaufbau (KfW)	Mr. Schmidt	1
32	United States Agency for International Development (USAID)	Dr. Amal Hijjazi	1
33	United Nations Development Programme (UNDP)	Dr. Eyad Abu Mogli Mr. Ove Pjerregaard	2
34	German Technical Cooperation (GTZ)	Ms Shaden Al-Qsous	1
35	UNIFEM	Dr. Hayfa Abu Ghazalleh	1
36	Jordan River Foundation	Ms Maha Khateeb	1
37	Noor El Hussein Foundation	Ms Hana Shahine	1
38	Jordanian Forum for Business and Professional Women (JFBP)	Ms Wijdan As-Sakett	1
39	Jordanian Society for Family Organization and Protection	Representative	1
Community Representatives			
40	From Abu Alanda Local Community	Sheikh Bargis Al Hadeed	1
41	Alyadodeh Village Council	Representative	1
42	Madaba Municipality	Mayor	1
43	Aljezah Municipality	Mayor	1
44	Alqastal Municipality	Mayor	1
Universities			
45	Jordanian University	Dr. Manar Fayyad	1
46	Al-Hashimeyah University	Dr. Ali Al-Naqah	1
47	Al-Balqa University	Dr. Yassine Al-Zoubey	1
48	Jordan University	Dr. Ayman Bani Hani and Five of his M.S. Students	6
Private Sector and Consultants			
49	Ram Farms	Mr. Mikdad A'anab	1
50	Al-Wafa for Agricultural and Animal Investment and Development (WADICO)	Representative	1
51	Arab Company for Cereals, Forage and Meat (GRAMICO)	Mr. Ali Sheimat	1
52	Arab International for Agricultural Development	Mr. Mohammad Sameih Barakat (or) Mr. Mohammad Nimr Barakat	1
53	Hydrotech	Eng. Ismail Hashem	1
54	Arab Centre (ACE)	Dr. Amjad Al-Barghouti	1
55	Associated Consulting Engineers (ACE)	Eng. Jawdat Yaghmour	1
Others			
56	Previous Employee of Ministry of Planning	Eng. Bolous Kefayeh Dr. Eid Kefaya	2
Total # of Participants			87

3.2 Aqaba-Ma'an List of Invitees

No.	Workshop Participants/Name of Institution	Participants Name	Number of invited Individuals
Ministries and Governmental Authorities			
1	Ministry of Water and Irrigation	Eng. Fayez Bataineh Eng. Mohammad Najjar Eng. Jamal Qawasmeh	3
2	Ma'an Governorate	The Governor of Ma'an	1
3	Tafilah Governorate	The Governor of Tafilah	1
4	Karak Governorate	Governor of Karak	1
5	The Governor of Aqaba	Mr. Khalid Abu Jaid	1
6	Qada' Disi	Mr. Mohammad Mattar Al-Zaidanyine	1
7	Badia Force	Representative	1
8	Public Security Force	Representative	1
9	Disi Municipality	Sheikh Mahmoud Eid Al-Mazneh	1
10	Head of Municipal Services	Eng. Isam Jaradat	1
11	Ma'an Municipality	Dr. Khaled Al-Majaly Eng. Souad Nayef Yousef	2
12	Alqatraneh Municipality	Representative	1
13	Al Hasa Municipality	Mr. Qasem Al-Maraghiya	2
14	Al Jafar Municipality	Mr. Fares Masnad Abu Tayeh	1
15	Bair Municipality	Mayor	1
16	President of ASEZA	Mr. Aqel Beltagi Mr. Mohammad Balqar	2
17	ASEZA - Directorate of Environmental Planning - Division of Permitting & EIA	Dr. Bilal Al-Basheer Dr. Saleem Moghrabee Mr. Samir Dweiri	3
18	Aqaba Water Authority	Assistant to Secretary General Mr. Bilal Al-A'asi	2
19	Water Authority for Southern Regions	Eng. Jihad Al-Sakrat	1
20	Tafileh Water Authority	Eng. Khaled Al-Abddine	1
21	Karak Water Authority	Eng. Malik Al-Rawashdeh	1
22	Ma'an Water Authority	Eng. Walid Al-Deikh \ Eng. Ibrahim Al-Nawafleh	1
23	National Electricity Company	Eng. Bader Tashtoush	1
Organizations			
24	The Valley Society for Social Development	Representative	1
25	Women Society for Valley Development	Representative	1
26	Charitable Development Society for Youth of Ma'an	Representative	1
27	Association for Charitable Societies (Ma'an)	Representative	1
28	Society for Development of Tafileh Governorate Cooperation	Representative	1
29	Jordan Environment Society (Aqaba, Tafileh and Karak)	Eng. Mohammad Al-Hjouj (Aqaba) Mr. Ghazi Al-A'marine (Tafileh) Eng. Jamil Al-Ja'fra (Karak)	3
30	Al-Hasa Women Charitable Society	Representative	1
31	Association for Charitable Societies (Tafileh)	Representative	1
32	Al-Huseeiniah Charitable Society for Social Work	Representative	1
33	Shihan Housewives Society	Representative	1
34	Association of North Karak Villages Cooperation (Tafileh)	Representative	1
35	Jordanian Fund for Human Development (Disi Centre)	Ms Khawla Al-Zawaideh	1
36	Previous Head of a Municipality	Mr. Atallah Mohammad Salman Al-	1

No.	Workshop Participants/Name of Institution	Participants Name	Number of invited Individuals
		Zawaideh (Abu Muwafaqa)	
37	Previous Me member of the Parliament	Sheikh Nasr Salem Al-Zawaideh	1
38	Community Representative	Sheikh Obeid Mohammad Al-Qseirat (Al-Zaweideh)	1
39	Community Representative	Sheikh Nayef Jalayel A'ayal Mtlqa	1
40	Disi Agricultural Office	Eng. Omar Bashir Al-Lahham	1
41	Aqaba Agricultural Office	Mr. Tayseer Shabatat	1
42	Rum Reserve	Mr. Mahmoud Bdoor	1
43	Rum Valley Cooperative and Touristic Society	Representative	1
44	Al-Saliheya and Al-Shakiriya Cooperative Society	Representative	1
45	Jordanian Women Association in Aqaba	Da'ad Sultan	
46	Women Organization in Aqaba	Ms Hanaa Trayzim	2
Universities			
47	Moata University	Representatives	3
48	Al-Hussein University	Mr. Ali Hamdi Abu Slim (Faculty of Educational Sciences)	2
Private Sector			
49	Consolidated Consultants	Eng. Rizk Hijawi	1
Total # of Participants			61

7. If the answer to question (6) is yes, what is the source of such information?
1- Official Reports and Leaflets 2- Newspapers and magazines
3- Television 4- Other Sources
8. Is the water supplied to your place of residence sufficient?
1- Yes 2- No
9. Do you think that the current water tariff is:
1- High 2- Acceptable to everyone 3- Low
10. Amman City suffers from a severe shortage in drinking water. Do you think that implementing this project in spite of its very high cost is important for solving the water shortage problem?
1- Yes 2- No 3- Do not know
11. Do you think that the current water quality is among the reasons behind the diseases affecting family members?
1- Yes 2- No 3- Do not know
12. Do you notice that there are sediments or suspended material resulting from the source of water at your house?
1- Yes 2- No 3- Do not know
13. Does the family clean the water storage tank at the house?
1- Yes, every sixth months 2- Yes, once every year
2- Yes, but not regularly 3- Never clean the water storage tank
14. Do you think that water of better quality should be supplied for protecting the health of the community?
1- Yes 2- No 3- Do not know
15. If the Water Authority supplied a better water quality that requires a higher cost, would you accept a raise on the current water tariff?
1- Yes 2- No 3- Do not know
16. Do you think that the water resources management in Jordan is:
1- Very Good 2- Good 3- Acceptable
4- Should be improved
17. If your answer to the Question (16) is that the management of water resources in Jordan should be improved, what solutions do you recommend: (You may chose more than one)
1- Public awareness and encouragement of guidance
2- Secure proper planning regarding determination of water usage priorities
3- Rehabilitation of the damaged water supply networks
4- Finding new water sources, such as seawater desalination
5- All of the above
6- Others, please specify:

Environmental Components	Level of Impact			Locations expected to be impacted and the modes of impact
	High	Medium	Low	
Abiotic Environment				
Changes in the geomorphology of the area				
Impacts on water courses and increasing the danger of floods				
Changes in land use				
Contamination of surface Water				
Contamination of groundwater				
Solid wastes				
Septage				
Air quality and increase in dust level				
Increase in noise level				
Archaeological and Cultural Resources				
Socioeconomic Conditions				
Employment Opportunities				
Tourism				
Residents' Safety				
Impact on utilities				
Impact on traffic				
Safety of project workers				
Securing sufficient quantities of good quality water for the population				
Biological Diversity				
Threat to the integrity of ecosystems and natural habitats				
Threat to rare or endangered floral species				
Threat to rare or endangered faunal species				
Introducing non-native floral species				