



Improving Basic Social Services in the Kurdistan Region of Iraq - Collaborative and Cost-Sharing Initiative - 14 - 16 April 2008

in partnership with



World Health
Organization



Foreword

The international donor conference “Improving Basic Social Services in the Kurdistan Region of Iraq Collaborative and Cost-sharing Initiative”, held in Erbil from 14 to 16 April 2008, was a major milestone in fostering a concerted partnership between the Kurdistan Regional Government, the United Nations Country Team and the International Community to address poverty reduction and socio-economic development needs in general and the causes and effects of the outbreak of cholera in the Kurdistan Region in August 2007 in particular.

The need for action is more urgent than ever. The cholera outbreak was a clear demonstration of the sub-optimal state of water supply and sanitation services. As was mentioned at the start of the conference, last year’s crisis demonstrated how crucial it is to embark on concerted efforts to urgently improve the delivery of basic services to the population in the region in order that another outbreak of cholera does not occur again this year. Given the impact on the region and the world, the international community’s support is called upon and the United Nations will do everything it can to support such efforts. Partnerships and cost sharing are cornerstones of the initiative.

The primary focus of the conference was to strengthen the delivery of basic social services in the Kurdistan Region, in particular in relation to integrated water management at all levels and involving all the relevant sectors in improving water supply and sanitation services. Moreover, water security is a key dimension of poverty reduction. Water has a vital role to play in responding to socio-economic development in Iraq. Although several economic instruments are being deployed to address this correlation, the success of these efforts will depend heavily on the availability of sustainable water resources. This interdependence between water availability and development is exemplified by the link between water and poverty. Due to poverty, access to sustainable water may be limited. Yet due to the inadequate access to sustainable water, high incidence of waterborne diseases may be encountered, loss of productivity, loss of employment opportunities and the subsequent socio-economic degradation illustrated by the growing endemic poverty.

The conference developed recommendations for action in three main cross-sectoral areas: (1) planning and partnerships; (2) mobilizing financial resources; and (3) capacity building and knowledge and information sharing.

We thank all participants for their hard work and commitment and the true spirit of co-operation. It is they who have made the conference a success. The outcome is truly a remarkable achievement which will not only positively influence the wellbeing of the Kurdistan Region, but hopefully further enhance solidarity and unity of action between all national, international and regional partners.

Nechirvan Barzani
Prime Minister
of the Kurdistan Regional Government

Staffan De Mistura
Special Representative
of the United Nations Secretary General





◆ 1. Introduction

AIM OF THE CONFERENCE



KRG Deputy Prime Minister Mr Omer Fattah Addressing the Conference Participants

Under the patronage of H.E Mr. Nechirvan Barzani, Prime Minister of the Kurdistan Regional Government and Mr. Staffan De Mistura, Special Representative of the United Nations Secretary General, an international donor conference to review and promote collaborative and cost-sharing initiatives for the improvement of basic social services in the Kurdistan Region of Iraq was held in Erbil from 14 to 16 April 2008. The conference was organized by the Kurdistan Regional Government (KRG) with support from the United Nations Development Programme (UNDP) in partnership with the World Health Organization (WHO) and the United Nations Children's Fund (UNICEF).

Inspired by the outbreak of cholera in the Kurdistan Region in August 2007, the conference aimed at presenting the KRG's "Reduction of the Incidence of Waterborne Diseases" programme and fine-tune its action plan for improving the severely deteriorated water supply and sanitation services with a view to reduce the likelihood of future outbreaks of waterborne diseases in general and of cholera in particular. Identifying ways to effectively address the incidence of waterborne diseases and undertake preventive measures for the future constituted key questions for the conference.



United States Coordinator for Economic Transition in Iraq, Ambassador Charles Ries

PARTICIPATION

The conference was attended by more than 250 participants representing the Government of Iraq, the Kurdistan Regional Government, donors and diplomatic representations and the United Nations as listed hereunder. A full list of participants can be found in Annex III.

Government of Iraq

- ◆ Office of the President
- ◆ Ministry of Environment
- ◆ Ministry of Planning and Development Cooperation

Kurdistan Regional Government

- ◆ Prime Minister's Office
- ◆ Office for the Coordination of the UN Affairs (OCUNA)
- ◆ Ministry of Environment
- ◆ Ministry of Health
- ◆ Ministry of Labour and Social Affairs
- ◆ Ministry of Municipalities
- ◆ Ministry of Planning
- ◆ Ministry of Water Resources
- ◆ Governorates of Erbil, Sulaymaniyah and Dohuk and Relevant Technical Departments.



Donors and Diplomatic Representations

- ◆ Government of the Czech Republic
- ◆ Government of France
- ◆ Government of Federal Republic of Germany
- ◆ Government of Islamic Republic of Iran
- ◆ Government of Japan
- ◆ Government of the Kingdom of the Netherlands
- ◆ Government of the Russian Federation
- ◆ Government of the Kingdom of Saudi-Arabia
- ◆ Government of South Korea
- ◆ Government of the Kingdom of Sweden
- ◆ Government of the United Kingdom of Great Britain and Northern Ireland.
- ◆ Government of the United States of America
- ◆ United States Agency for International Development (USAID)

United Nations Country Team

- ◆ United Nations Assistance Mission to Iraq (UNAMI)
- ◆ United Nations Children's Fund (UNICEF)
- ◆ United Nations Development Programme (UNDP)
- ◆ United Nations Office for Project Services (UNOPS)
- ◆ World Health Organization (WHO)

Others

- ◆ Academia
- ◆ Consultants
- ◆ Regional Reconstruction Team (RRT)
- ◆ Information Management and Mine Action Programs (IMMAP)



CONFERENCE REPORT

This report summarizes the conference proceedings in eight Sections and three Annexes.

Immediately following this introductory section, **Sections 2 and 3** of the report present the background to the conference and an overview of the main objectives and structure.

Section 4 presents outlines of the opening session on day 1, including statements by the KRG Prime Minister, the Special Representative for Iraq of the UN Secretary General and the KRG Coordinator to the United Nations. **Section 5** provides overviews of the Health, Water Resources, Environment and Municipalities sectors as presented by the respective KRG Ministers on day 1.

Section 6 provides an executive summary of proposed activities/projects under Phase I of the "Reduction of the Incidence of Waterborne Diseases" programme, as presented on day 2. In **Section 7**, Briefings on day 3 by the International Community to the conference are presented, followed by closing statements by the United Nations, the Federal Government of Iraq and the Kurdistan Regional Government.

Section 8 presents the main outcomes and conclusions of the conference and proposed follow-up.

Annex I to the report presents the conference agenda, whereas Annex II presents the list of proposed priority activities/projects of Phase I of the "Reduction of the Incidence of Waterborne Diseases" programme, followed by a complete list of participants to the conference in Annex III.

The report is intended for conference participants and all those interested in and dedicated to the revitalization of Iraqi basic social services and to the wellbeing of the people of the Kurdistan Region. Achievement of the challenging KRG programme objectives can only be achieved through the concerted and focused effort of the KRG with support from the international community.

The UNCT has undertaken to offer further support to the implementation of the KRG's programme through various possible means (i.e. advisory services, technical assistance, direct implementation, etc) and optimizing and coordinating the international community support wherever this may be required for the benefit of Iraq in general and the KRG in particular.

2. Background

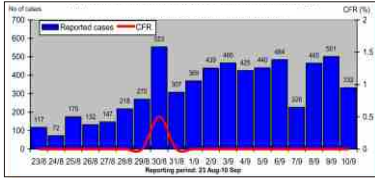
GENERAL

Water has a vital role to play in responding to socio-economic development in Iraq. Although several economic instruments are being deployed to address this correlation, the success of these efforts will depend heavily on the availability of sustainable water resources. On the other hand, success in economic development efforts is needed to ensure a sustainable flow of funds for the development of water supplies.

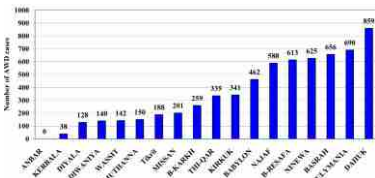
loss of productivity, loss of employment opportunities and the subsequent socio-economic degradation illustrated by growing endemic poverty. Accordingly, lack of access to sustainable water is both a cause and a consequence of poverty. They can be nodes in a vicious cycle that puts societies in a downward spiral of poor economic development.

Alternatively, they can be nodes in a virtuous cycle, reinforcing each other in an autocatalytic way, and leading to an upward spiral in which improved socio-economic development produces resources needed for improved development of water that, in turn, buttress and stimulate further socio-economic development.

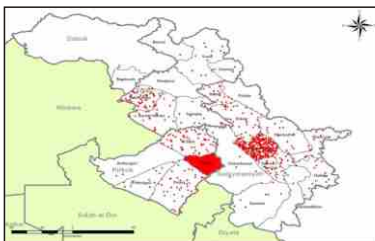
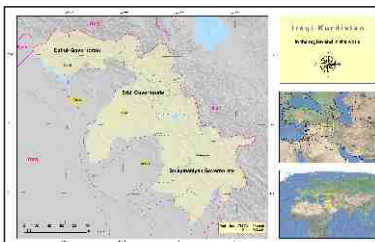
This interdependence between water availability and development is exemplified by the link between water and poverty. Due to poverty, access to sustainable water may be limited. Yet due to the inadequate access to sustainable water, high incidence of waterborne diseases may be encountered,



Daily Progression of Diarrhoeal Disease Cases Reported from Sulaymaniyah Province: 23 Aug - 10 Sep 2007



Reported AWD by Province Week 9 ending 03 March



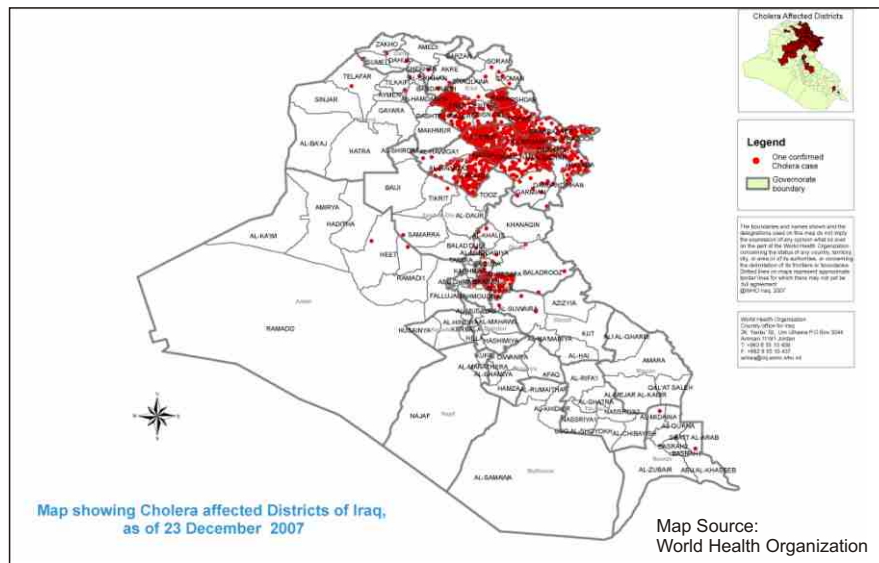
Map showing Cholera Affected Districts and Number of Cases in Kirkuk, Sulaymaniyah, Erbil and Dahuk Provinces of Iraq, as of 22 Sep 2007
Source: World Health Organization

THE AUGUST 2007 CHOLERA OUTBREAK

Confirmation of a cholera outbreak in Northern Iraq that had the potential to rapidly become an epidemic was communicated by WHO to UNDP on 28 August 2007. In response, the UNCT established a "Cholera Response Taskforce" including WHO, UNICEF and UNDP with the purpose of identifying priority actions for concerned UN agencies to undertake in addressing the immediate needs to contain the situation. The taskforce was also requested to define short,

medium and long-term solutions to address the root causes that would prevent the likelihood of similar outbreaks in the future.

Based on extensive discussions with relevant officials, field visits, water samples testing results, event sequencing, etc., UNDP was able to confirm the current cholera epidemic outbreak to be waterborne in nature and caused by water contamination.



Map showing Cholera affected Districts of Iraq, as of 23 December 2007

Map Source: World Health Organization



MODE OF WATER CONTAMINATION

The sewerage network of the city of Sulaymania, where the outbreak first occurred, is in a poor condition. This caused major leaks of the collected wastewater into the surrounding and underlying soils. Over the years, the accumulation of wastewater gave rise to contamination of the infiltration water/shallow groundwater with wastewater-inherent contaminants.

With the exponential increase in the city population and the shortage in potable water supplies, both in the city centre and the outskirts, where the coverage level by piped municipal water is estimated at only 25-30% of the population, adoption of privately owned and constructed/excavated shallow groundwater wells is widespread. Obviously these wells withdraw the contaminated shallow groundwater resulting from the leaky sewerage networks and uncoordinated pit latrines. This was confirmed by the reported cases among shallow groundwater well users.

Furthermore, given the intermittent mode of water supply (i.e. municipal water supplies are provided once every 3 to 4 days), negative pressure is developed in the distribution networks, which causes the infiltration of the

above mentioned groundwater into the water distribution networks. This is confirmed by the remarkable increase in cases upon operation of the Sarchennare Waterworks following 2 days of shutdown.

Other possible sources of pollution may include the pollution of Dokan waterway by the sewage outfalls from Dokan village upstream of the Dokan Water Treatment Facility Raw Water Intake.

Based on the above, together with examination of water supply system operating records, reports, water supply coverage levels, etc., UNDP was able to identify the primary modes of water pollution as follows:

◆ Infiltration of bacteriological-contaminated “groundwater” into the imperfect water distribution network, which is subsequently distributed to the population together with safe treated potable water supplies.

◆ The widespread use of privately owned and constructed/excavated shallow groundwater wells withdrawing contaminated “groundwater” due to shortage in municipal potable water supply, coupled with the use of pit latrines in many neighbourhoods.

SOURCE OF WATER POLLUTION

Based on thorough examination of the various water samples testing results (from waterworks, networks, shallow wells, tanks, etc.), many of which exhibited bacteriological contamination, nitrates, etc., UNDP confirmed the source of pollution to be of

domestic wastewater nature (i.e. human wastes). UNDP engineers concluded the origin of pollution to be the leaky sewerage networks entering the water table, rather than contamination of food by wastewater being used in irrigation.



Dokan Lake



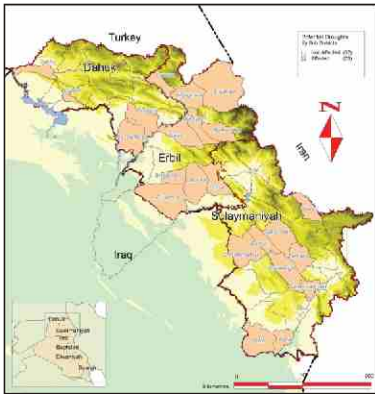
Wastewater Outfall into Fresh Water Course



Ponding of Sewage and Solid Waste Accumulation within Residential Areas



Outcome of Deficient Basic Social Services and Impact on Children Wellbeing



KRG Drought Preparedness Map 2008
Source: IMMAPP

KRG's "REDUCTION OF THE INCIDENCE OF WATERBORNE DISEASES" PROGRAMME

In response to the cholera outbreak, the KRG embarked on the formulation of a programme to reduce the incidence of waterborne diseases. The programme aims at reducing the likelihood of future cholera outbreaks in addition to addressing the broader prospective of other waterborne diseases. The programme formulation has been an ongoing endeavor since September 2007 and is undergoing continuous fine tuning.

As such, it is a custom tailored multi-dimensional multi-sectoral programme addressing the various time dimensions (i.e. immediate, short, medium and long term) in addition to addressing the various related sectors. These include health, water supply, sanitation, water resources, environment, electricity, education and others in a holistic manner. The programme defines specific objectives, outcomes and a wide range of activities.

However, since the KRG's development plans had already been formulated to account for regional priorities, adequate resources have not yet been allocated for supporting this programme. So far, the KRG was able to divert some 20% of its existing budget

allocations, leaving a gap of some 80% for advancing the programme objectives. Nonetheless, the programme constitutes a priority for the KRG and it is against that background that the conference focused on the following sectors:

- ◆ Health (primarily non medical related sectors)
- ◆ Municipalities (i.e. water supply, wastewater and solid wastes)
- ◆ Water Resources
- ◆ Environment

As an integral part of the overall programme activities, the KRG was able to identify 82 urgent projects that have not been included in the Regional Development Plan, but which comprise cornerstones of the programme. The absence of these has been identified as imposing undue constraints to advancing the programme objectives.

During the conference, the KRG presented its proposed Phase I list of identified activities/projects that are likely to meet the envisaged Phase I outcomes with a view to seek the International Community's support in order to fill the abovementioned funding gaps.



Dr. Dindar Zebari, the KRG Coordinator to the United Nations



Dokan Lake

◆ 3. Conference Objectives and Outline

The main objective of the conference was to present the outlines of the KRG's "Reduction of the Incidence of Waterborne Diseases" programme, fine tune the KRG's action plan in this connection and enlist the support and commitment of donor countries to the proposed Phase I of the programme activities.

The general setup of the three-day conference followed this objective by allowing the first day for opening speeches together with overall relevant sector overviews. The second day was fully dedicated for relevant KRG ministries and governorates to present a sample of Phase I of the KRG programme priority activities/projects, whereas the third day provided a forum for key donors to present their current and proposed activities in support to relevant sectors with a view to address the root causes of the recent cholera outbreak.

The conference furthermore provided an interaction forum between the various

ministries, governorates, institutions, countries, academia and so forth, to analyze the various dimensions of the problem, identify impediments and challenges, strengthen the overall programmatic approach, and identify additional areas of intervention.

As a main outcome of the conference, the overall action plan of the first phase of implementation of the "Reduction of the Incidence of Waterborne Diseases" programme was further detailed and a prioritized list of interventions was developed.

Apart from physical interventions, it became apparent that the KRG is in dire need for support in preparing a comprehensive Water and Sanitation Master Plan and an Integrated Water Resources Management Plan in order to lay adequate foundations for institutional and legislative framework development, policy formulation, downstream interventions, and so forth.



*H.E. Mr Omer Fattah
Deputy Prime Minister, KRG*



*Main Stage during the Opening Session, from left to right:
KRG Minister of Municipalities, KRG Minister of Planning, KRG Minister of Water Resources,
KRG Minister of Environment, UNDP Iraq Director*

◆ 4. Day 1: Opening Statements



Dr. Abdul Rahman Yones, KRG Minister of Health Opening the Conference on Behalf of H.E. Nechirvan Barzani, Prime Minister of the KRG

On behalf of H.E Mr. Nechirvan Barzani, Prime Minister of the KRG, H.E Dr. Abdul Rahman Yones, KRG Minister of Health opened the conference by reiterating the root causes of last summer's cholera outbreak and underlining the fact that a similar outbreak may be expected this summer in light of the shortage in water supplies caused by the drought Kurdistan is facing this year. He outlined the KRG's "Reduction of the Incidence of Waterborne Diseases" programme and how this programme is a multi-sectoral and multi dimensional approach addressing the various time-frames and related sectors. The programme has been designed as a flexible mechanism to allow for continuous fine tuning and adjustments as needed.

employment opportunities and the subsequent socio-economic degradation illustrated by growing endemic poverty. Accordingly, access to sustainable water is both a cause and a consequence of poverty. They can be nodes in a vicious cycle that puts societies in a downward spiral of poor economic development. Alternatively, they can be nodes in a virtuous cycle, reinforcing each other in an autocatalytic way, and leading to an upward spiral in which improved socio-economic development produces resources needed for improved development of water that, in turn, buttress and stimulate further socio-economic development.



Opening Statement of Mr. Paolo Lembo, UNDP Iraq Country Director, on Behalf of Mr. Staffan De Mistura, Special Representative of the United Nations Secretary General

On behalf of Mr. Staffan De Mistura, Special Representative of the United Nations Secretary General, Mr. Paolo Lembo, UNDP-Iraq Country Director, underscored the fact that water has a vital role to play in responding to socio-economic development in Iraq. Although several economic instruments are being deployed to address this correlation, the success of these efforts will depend heavily on the availability of sustainable water resources. On the other hand, success in economic development efforts is needed to ensure a sustainable flow of funds for the development of water supplies.

In his opening remarks, Dr. Dindar Zebari, the KRG Coordinator to the United Nations, stressed that in its response to the cholera outbreak, last summer, the KRG embarked on formulating the programme "Reduction of the Incidence of Waterborne Diseases". Since by the programme formulation time it was too late to include it in the regional development strategy as budget resources had already been programmed, the KRG was able to divert just 20% of its regional budget for supporting the new programme. "We are now calling for the international community's support to this initiative with a view to fill the gaps" stated Dr. Zebari.



Opening Statement of Ms. Nermin Othman, the Iraqi Federal Minister for the Environment on Behalf of Iraq's president Mr. Jalal Talabani

He emphasized this interdependence between water availability and development as exemplified by the link between water and poverty. Due to poverty, access to sustainable water may be limited. Yet due to the inadequate access to sustainable water, high incidence of waterborne diseases may be encountered, loss of productivity, loss of

Ms. Nermin Othman, the Iraqi Federal Minister for the Environment and representing Iraq's President Jalal Talabani, welcomed the assembled donor organizations. She commended the conference's focus on waterborne diseases, in particular cholera. "We welcome the important attention this conference will give to solving the problem of cholera in Iraq", she said.

◆ 5. Day 1: Sector Overviews

HEALTH

The “Approach and Relevant Sectors Overview” session started with a presentation delivered by H.E Dr. Abdul Rahman Yones, KRG Minister of Health.

Dr. Yones presentation included an outline of the causes underlying the cholera disease. A presentation of the daily progression of cholera cases in Sulaymania during August and September 2007 together with confirmed cholera cases in the same timeframe was also presented. In order to underline the impact on the national, regional and international health prospective, he presented statistical information reflecting the confirmed cases in

Baghdad until December 2007 together with the progression of cases in the eighteen provinces across Iraq. In order to emphasize the root causes, he presented results of the potable water sampling programme, based on some 4,600 samples, that illustrated contamination by organic pollutants.

At the strategy level, Dr. Yones presented the required immediate, intermediate and long-term measures to address the situation, emphasizing the fact that cholera is a “city disease” caused, among others, by overcrowding and high population densities.



KRG Ministry of Health Presentation

MUNICIPALITIES

H.E. Mrs. Nazaneen M. Wusu, KRG Minister of Municipalities, outlined MoM's mandates and areas of responsibility, which include potable water supply, wastewater and solid waste management, urban roads, land use management, policy development and capacity building. She summarized MoM's short, medium and long term plans and budgetary situation. Priorities for the year 2008 were presented with particular emphasis on potable water supply and sanitation capital investment projects across the region.

Mrs. Wusu highlighted the ministry's plan for income generation, which includes cost recovery following metering, private sector participation in solid waste management projects and collection of service fees. At the

same time, key challenges include the inability to meet water demand, deteriorated water distribution systems, inadequate coverage of urban expansions, sub-optimal wastewater systems, contamination of potable water supplies, and inadequate attention to environmental concerns. An outline of MoM's response to last summer's cholera outbreak and the ministry's preparedness plan for any future outbreaks was also presented

At the strategy level, Mrs. Wusu presented the immediate, intermediate and long-term measures required to address the situation and called for support of the international community to advance the KRG's programme objectives.



*Mrs. Nazaneen M. Wusu,
KRG Minister of Municipalities
During Her Presentation*



Mr. Tahsin Kader Ali, KRG Minister of Water Resources During His Presentation

WATER RESOURCES

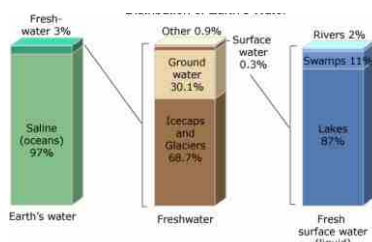
H.E. Mr. Tahsin Kader Ali, KRG Minister of Water Resources, stated that water is one of the key shared interests between nations, the protection and sustainable use of which will contribute to water security, peace and stability, and emphasized the need for a strengthened dialogue with riparian states.

He further presented the contribution of the various basins to the major water resources in Iraq and underlined the extent to which shared waters constitute a key pillar to Iraq's sustainable development. He presented the following illustrative tables:

Iraqi Water Resources Origin

River	Total Annual Discharge (Billion Cubic Meters)	Annual Flow Originating Outside Iraq (Percent)	Annual Flow Originating Inside Iraq (Percent)
Tigris	18.8	100	-
Khabour	2.2	58	42
Greater Zab	14.32	42	58
Smaller Zab	7.07	36	64
Uhded	0.7	-	100
Sirwan	5.86	59	41
Total	48.95	56 Turkey and 12 Iran	32

Source: MoWR



Distribution of Earth's Water

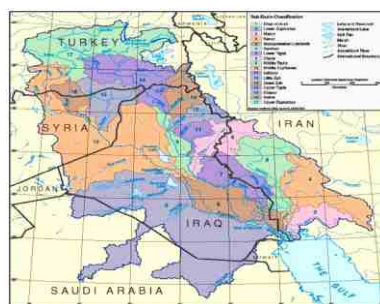
In order to better portray the expected drought, Mr. Ali presented statistical information reflecting the grave decline in the

year 2007-2008 precipitation (i.e. rainfall), which fell below 50% of the average rate in an unprecedented manner.

Average Precipitation In the Kurdistan Region (2000-2008)

Location	Average Precipitation (mm)		
	Average	2000-2001	2007-2008
Erbil	400.0	295.1	168.3
Dohuk	565.0	199.0	235.0
Sulaymania	850.0	790.0	355.0
Dukan	767.0	462.7	222.0
Darbandikhan	685.0	291.0	216.0

Source: MoWR



Sub-Basin Classification Map

At the strategy level, Mr. Ali presented the required immediate, intermediate and long-term measures to address the situation and

emphasized the urgent need for adopting an Integrated Water Resources Management Plan.

Kurdistan Region Groundwater Wells Survey Results

Governorate	No. of Legal Wells	No. of Unregistered Wells	Total No. of Wells	Percentage of Unregistered Wells
Erbil	4338	2,500	6,838	37
Dohuk	1958	62	2,020	3
Sulaymania	13,546	17,230	30,776	56
Total	19,842	19,792	39,634	50

Source: MoWR





ENVIRONMENT

H.E. Mr. Dara Muhammad Amin, KRG Minister of Environment, stated that the ministry, established only in 2006, is struggling to establish the necessary foundations for advancing operational effectiveness. He highlighted the ministry's mandates as revolving around 14 spheres ranging from policy development, planning, standards of implementation and monitoring of programmes and applying mitigation measures.

The main challenges facing the ministry include lack of adequate testing laboratories and inadequate capacities. The absence of an environmental protection legislative framework, sub-optimal awareness among the people of Kurdistan, the prevalence of land mines, pollution by radioactive substances, the absence of specialized institutions, untreated sewage, desertification and endangered biodiversity are among the major environmental challenges in the Kurdistan region.



Mr. Dara Muhammad Amin, KRG Minister of Environment Delivering the Presentation



Environmental Challenges in the Kurdistan Region



◆ 6. Day 2: Phase I Programme Activities

◆ 6.1 General Introduction

The second day of the conference was fully dedicated for the participating ministries and governorates to present the proposed Phase I of KRG's programme activities.

Following an introduction for the second day proceedings, Mr. Zagros Fatah, Director General, Development Coordination and Cooperation, MoP, presented the formulation process of the KRG's "Reduction of the Incidence of Waterborne Diseases" programme. He reiterated that the programme was triggered by last summer's cholera outbreak in Kurdistan Region that soon spread across Iraq to the rest of the 18 provinces. Mr. Fatah stated that while the programme is still at embryonic stages and undergoing recurrent fine tuning, it represents a starting point for better aligned and coherent efforts to address the problem. The programme has been engineered in a flexible manner in order to allow for adjustments as needed.

He further stated that although the needs are immense and the gaps are wide, the presentations to follow represent a sample of the proposed Phase I interventions; the full Phase I proposed programme activities have been distributed to the participants. While the programme addresses a multi-sectoral approach covering all relevant sectors including planning, health, education, electricity and so forth, the presentations to follow will only cover those related to basic social services as outlined previously.

The second day was organized by sector whereby each presented its proposed Phase I interventions. A few exceptions apart, presentations started at the strategic level (i.e. ministry level) and then extended to the services level (i.e. Governorate level).



Mr. Zagros Fatah, DG KRG MoPDC presenting the formulation process of the KRG's "Reduction of the Incidence of Waterborne Diseases" programme

◆ 6.2 Health

MINISTRY OF HEALTH

MoH started the session by presenting a "Water and Food Inspection" proposal. One of the major underlying causes of the recent cholera outbreak was the inadequate inspection and control of potable water supplies and, to a lesser extent, fodder items.

This project aims at monitoring the current situation as an integral element of the KRG's preparedness plan with a view to limit the reoccurrence of last summer's cholera outbreak and of other waterborne diseases. Project activities would include the

establishment of 3 field working teams of MoH's preventive health department consisting of 2 medical doctors and 1 paramedic each with the purpose of closely monitoring potable water supplies and fodder items.

The project would result in direct benefits for the entire region's population totalling some 5 million inhabitants against a total estimated implementation cost of US\$ 960,000 and an implementation period of 2 years.



Dr. Abdul Rahman Yones, KRG Minister of Health Answering Questions Following the Presentation of Ministry of Health



Mr. Tahir Abdullah, Deputy Governor of Erbil

DOHUK GOVERNORATE

Dohuk Governorate presented a “Waterborne Infectious Diseases Control” proposal. In the absence of safe sanitation means in conjunction with tapped water supplies, more than 50% of the diseases and mortality rates among young children are reported to be waterborne.

This project aims at: reviewing the current Control of Diarrhoeal Diseases (CDD) programme policies and activities in Dohuk Governorate; strengthening the capacity of the medical doctors and health workers and the use of new ORS formula and zinc supplementation; strengthening the communication capacity of PHCs health workers and raising community awareness on proper personal hygiene practices. This is expected to result in the proper diagnosis and management of diarrhoeal disease cases with emphasis on preventive measures

among health workers across the governorate.

Project activities include launching a surveillance programme targeting diarrhoea cases in all health facilities, in particular registration forms tracking with respect to all diarrhoea cases and formulation of standard procedures for collection of V.C. samples from all watery diarrhoea cases.

The project would result in direct benefits for the Governorate totalling some 828,947 inhabitants against a total estimated implementation cost of US\$ 1.8 million and an implementation period of 1 year. The project is expected to generate some US\$ 12.43 million in annual savings on the region's health sector expenditures.

6.3 Municipalities

MINISTRY OF MUNICIPALITIES

MoM started the session by presenting a “Kurdistan Region WATSAN Master Plan” proposal. The project comprises the backbone for any future work by being the only possible tool for ensuring a coherent and aligned approach. The lack of a comprehensive WATSAN master plan has led to:

- ◆Lack of a methodological approach constraining the KRG's ability to prioritize and implement its requirements
- ◆Inadequate WATSAN services are rapidly becoming critical factors that limit further economic development
- ◆Inadequate WATSAN services limit the provision of basic health and hygiene services
- ◆A WATSAN master plan is a necessity for guiding all sector related interventions in a coherent manner.

This project aims at: reducing the incidence of waterborne diseases; reducing the use of contaminated shallow wells; advancing water security for 5 million inhabitants; contributing towards environmental preservation; improving the deteriorated health and socio-economic conditions of the region; providing

the KRG with the required planning tools for informed decision making and implementation of priority projects; complementing a cross-sectoral policy approach to respond to the growing demands for water in the context of finite supplies; coordinating the development of water supply and sanitation systems to optimize economic and social welfare without compromising the sustainability of the ecosystem; and reducing incentives for rural-urban migration.

Project activities include: data collection and records documentation; technical studies; formulation of master plan proposals; feasibility studies and environmental impact assessments; selection of master plan proposals; development of sector interventions under a phased development plan; development of sector intervention budget planning; preliminary designs and documentation for the immediate phase of implementation; and capacity building.

The project will result in indirect benefits to the entire region's population totalling some 5 million inhabitants against a total estimated implementation cost of US\$ 11 million and an implementation period of 2 years.



Active Participation of Audience Following MoM Presentation



ERBIL GOVERNORATE

Erbil Governorate presented a “**Khabat, Kawrgosikl, Shakholan, Sofaya and Chama Dubz Water Supply Project**” proposal. The project area is suffering from an immense shortage in water supply, resulting in the widespread use of unsafe and untreated water. Women and children, particularly girls, spend a significant portion of their day fetching water from contaminated sources, private vendors and other sources.

This project aims at: reducing the incidence of waterborne diseases through water supply assets supplying safe potable water to 60,000 inhabitants; increasing safe potable supply services by 9,000,000 litres per day; restoring wastewater services to pre-1982 levels; developing operation and maintenance capacity of the KRG WATSAN sector; creating some 25,000 man-days of temporary employment opportunities for the poor and

vulnerable segments of the population and lifting the burden of fetching water off the shoulders of women and children, freeing up time to pursue other beneficial activities.

Project activities include: preparation of project studies, designs and technical specifications; provision of 7 water treatment facilities of capacities ranging between 200 and 100 cubic meters per hour, and delivering a training programme for system Operation and Maintenance (O&M) staff.

The project will result in direct benefits for the 60,000 inhabitants of the project area against a total estimated implementation cost of US\$ 8.4 million and an implementation period of 1 year. The project is expected to generate some US\$ 900,000 in annual savings on the region’s health sector expenditures.



UNDP Team Consultations in the Preparation Period

SULAYMANIA GOVERNORATE

Sulaymania Governorate presented a “Sulymania City Asbestos Water Distribution Network Replacement” proposal. The project area’s water distribution network totals some 950 km of pipelines, constructed of different materials, of which 2.7% was constructed some 65 years ago. Furthermore, a significant portion of the network is constructed of asbestos cement pipelines. This results in lengthy delays for the complex repair process of any defective parts and therefore shutdown of the service until parts are sourced. Moreover, highly contaminated infiltration water tends to ingress into the imperfect asbestos cement pipelines resulting in contamination of potable water supplies.

This project aims at: reducing the incidence of waterborne diseases by supplying safe potable water to 100,000 inhabitants; restoring wastewater services to pre-1982 levels; developing O&M capacity of the KRG

WATSAN sector; creating temporary employment opportunities for the poor and vulnerable segments of the population and lifting the burden of fetching water off the shoulders of women and children, thereby freeing up time for other beneficial activities.

Project activities include: construction and equipping of all required works including replacement of some 26 km of asbestos cement water distribution pipelines by another material and delivering a comprehensive capacity building and training programme for O&M staff.

The project will result in direct benefits for the 100,000 inhabitants of the project area against a total estimated implementation cost of US\$ 4.75 million and an implementation period of 1 year. The project is expected to generate US\$ 1.5 million in annual savings on the region’s health sector expenditures.





DOHUK GOVERNORATE

Dohuk Governorate presented a “**Dohuk City Water Distribution Network Replacement**” proposal. The Dohuk city water supply system consists of a water distribution network of some 400 km of pipelines, constructed of different materials, of which 40% was constructed some 45 years ago. The aging factor has compounded the already imperfect distribution network making repair and maintenance virtually impossible in many cases. The imperfect network results in substantial losses totalling some 40%, resulting in water shortages. Furthermore, ingress of highly contaminated infiltration water resulting from the widespread use of on-site sanitation facilities results in an alarming degree of contamination of the potable water supplies.

This project aims at: reducing the incidence of waterborne diseases; providing safe and stable potable water supply to 100,000

inhabitants; developing O&M capacity of the KRG WATSAN sector; creating employment opportunities for the poor and vulnerable segments of the population and lifting the burden of fetching water off the shoulders of women and children, thereby freeing up time to engage in other beneficial activities.

Project activities include: construction and equipping of all required works including replacement of some 100 km of asbestos cement water distribution pipelines and delivering a comprehensive capacity building and training programme for O&M staff.

The project will directly benefit 62,000 inhabitants of the project area against a total estimated implementation cost of US\$ 7 million and an implementation period of 1 year. The project is expected to generate US\$ 930,000 annually in savings on the region's health sector expenditures.



Dr. Dindar Zebari, the KRG Coordinator to the United Nations, Highlighting the Importance of the Programme: "Reduction of the Incidence of Waterborne Diseases"

6.4 Water Resources

MINISTRY OF WATER RESOURCES

MoWR started the session by presenting a “Water Quality Monitoring Programme for Dokan, Darbandikhan and Dohuk Lakes” proposal. The absence of a comprehensive surface water quality monitoring programme has resulted in a lack of adequate surface water data and information, which in turn constrains proper decision making. This affects several sectors including potable water supply, agriculture and others. Against this backdrop MoWR has identified the urgent need for a comprehensive water quality monitoring programme for Dokan, Darbandikhan and Dohuk Lakes.

This project aims at: reducing the incidence of waterborne diseases; contributing towards surface water protection and therefore water security for some 1.5 million inhabitants;

improving the deteriorated health and socio-economic conditions of the project area; providing the means and tools to the KRG for informed decision making and to better plan and implement priority projects; and increasing land available for agriculture.

Project activities include: reconnaissance and field investigations; field survey and data collection; procurement of water quality testing equipment; sampling and water analysis, and reporting.

The project will provide indirect benefits to the entire project area population of some 1.5 million inhabitants against a total estimated implementation cost of US\$ 3.3 million and an implementation period of 10 months.



SULAYMANIA GOVERNORATE

Sulaymania Governorate presented a **“Groundwater Quality Mapping”** proposal. Very limited attention has been paid to monitoring, development, conservation, protection, etc, of groundwater resources to date, which in conjunction with the lack of conventional sewerage systems and widespread use of on-site sanitation facilities results in heavy contamination of groundwater. Excessive extraction of groundwater results in increasing salinity levels and, hence, constrains its treatability.

This project aims at: reducing the incidence of waterborne diseases; contributing towards groundwater preservation and reducing the use of contaminated shallow wells and thereby improving water security for some 600,000 inhabitants; contributing towards

environmental preservation; improving the deteriorated health and socio-economic conditions of the project area; and providing the KRG with the necessary tools for informed decision making; and reducing incentives for rural-urban migration.

Project activities include: field survey for selecting locations for the monitoring of wells; drilling a number of monitoring wells across the governorate; data collection, and data analysis and reporting.

The project will directly benefit 600,000 people in the project area against a total estimated implementation cost of US\$ 2.25 million and an implementation period of 1 year.

DOHUK GOVERNORATE

Dohuk Governorate also presented a **“Groundwater Quality Mapping”** proposal. Hitherto there has been very little emphasis on groundwater quality in the Kurdistan Region. The cholera outbreak of 2007 and its diagnosis as being waterborne resulting from the use of contaminated groundwater underlines the necessity of urgent measures to be pursued with respect to aquifer mapping, monitoring their quality and overseeing their preservation and environmental protection.

This project aims at: reducing the incidence of waterborne diseases; contributing towards groundwater preservation and reducing the use of contaminated shallow wells, thereby improving water security for half a million inhabitants; contributing towards environmental preservation; improving the deteriorated health and socio-economic

conditions of the project area; providing the KRG with the necessary tools to better plan and prioritize the infrastructure projects in the Kurdistan Region; and reducing incentives for rural-urban migration.

Project activities include: field surveys for delineating aquifers and selecting monitoring wells locations; registration and monitoring of sites and areas that may induce groundwater pollution; recognition of possible groundwater divides within aquifers; drilling a number of monitoring wells across the governorate; data collection, and data analysis and presentation.

The project will result in direct benefits for some 500,000 inhabitants of the project against a total estimated implementation cost of US\$ 2.25 million and an implementation period of 1 year.

INFORMATION MANAGEMENT AND MINE ACTION PROGRAMS (IMMAP)

IMMAP presented a **“Water Resources Information Management”** proposal. The KRG Water Sector currently possesses very limited IM/GIS capacity and unregistered wells are growing in number. There is an urgent need to clarify the coverage of registered and unregistered wells.

The project will provide indirect benefits to the entire Kurdistan Region population totalling 5 million inhabitants against a total estimated implementation cost of US\$ 1 million and an implementation period of 1 year.



Mr. Tahir Abdullah, Deputy Governor of Erbil



◆ 6.5 Environment

MINISTRY OF ENVIRONMENT

Environmental Survey Programme for Dokan and Darbandikhan Lakes



Dohuk: Dazzling Landscape

Mitigating environmental hazards is severely hampered by the absence of adequate environmental data, information and tools. The current levels of point pollution of Dokan and Darbandikhan lakes result in negative impacts on the water quality, aquatic life, agriculture and the ecosystem at large. Therefore, there is an urgent need to undertake comprehensive water environmental survey programme for both lakes.

This project aims at: reducing the incidence of waterborne diseases; Improving surface water quality and increasing water security for 1.5 million people; contributing towards environmental protection, aquatic life

preservation and ecosystem balance; improving the deteriorated health and socio-economic conditions of the project area; increasing the availability of land for agriculture; and providing the means and tools to the KRG for informed decision making, better planning and implementing priority projects.

Project activities include: reconnaissance and field investigations; field survey and data collection; and sampling and water analysis.

The project will indirectly benefit some 1.5 million inhabitants against a total estimated implementation cost of US\$ 260,000 and an implementation period of 1 year.

Radiation Assessment in Kurdistan Region

The absence of adequate environmental data and information on air, soil and groundwater radiation has resulted in a state of ambiguity regarding the current situation of the region in terms of radioactive contamination. Given historical incidents, MoE identified the urgent need to embark on a comprehensive radiation assessment programme for the Kurdistan Region, which can be a prelude for a larger scale survey for the whole of Iraq.

This project aims at: collecting all information pertaining to radioactivity in the region; developing the necessary sector capacities; development of proper directives (maps, reports, guidelines and public awareness programmes); laying the groundwork for a survey to cover the rest of Iraq, and ensuring compliance with International relevant standards. Upon successful implementation, the project will result in:

- ◆ Identification of the background radiation levels and their sources.

- ◆ Determination of the concentration of radioactive elements in the region.

- ◆ Training of sufficiently skilled field professionals.

- ◆ Production of scientifically approved radioelement maps and reports to serve in the current and future development programs.

- ◆ Identification of hazardous areas and postulating measures of mitigation and rectification.

Project activities include: establishing surveying teams to cover the entire region; training team members to ensure proper execution of the programme, and collecting and analysing groundwater, air and soil samples.

The project will provide indirect benefits to the entire population of the region totalling some 5 million, against a total estimated implementation cost of US\$ 6.8 million and an implementation period of 2 years.





Kurdistan Central Environmental Laboratories

The absence of adequate environmental laboratories severely hampers MoE activities. The ability to establish pollution levels and control means and to evaluate the assimilation capacity of local environmental components is limited. Technical data required for preparing scientific inputs for KRG's environmental policies and strategic plans is largely absent. The capacity to advise decision makers environmental assessments of development plans is limited, as well as the ability to embark on new projects based on EIA (Environmental Impact Assessment) studies.

This project aims at: reducing the incidence of waterborne diseases; improving the currently

deteriorated environmental quality; contributing towards the pursuit of holistic multi-dimensional approaches for all sector interventions, and providing the means and tools for better environmental planning.

Project activities include: providing the required equipment, apparatus and reagents and delivering a comprehensive capacity building and training programme for operating the equipment.

The project indirectly benefit the entire population of the region totalling some 5 million, against a total estimated implementation cost of US\$ 7 million and an implementation period of 9 months.



Awareness Campaign in Schools
Source: KRG - MoE

7. Day 3: Briefings by the International Community and Closing Statements and Speeches

The last day of the conference was dedicated to the International Community to brief the participants on their past and ongoing support to the KRG, as well as future plans related to the delivery of basic social services, with particular reference to water and sanitation. This was followed by closing statements of representatives of the United Nations, the Federal Government of Iraq and the Kurdistan Regional Government.

Presentations and speeches were delivered by several government officials and donor organizations including: Government of the Czech Republic; Government of Japan; Government of the Russian Federation; Government of South Korea; and Government of the United States of America. These highlighted their support to the KRG to date and their future support plans.



CLOSING STATEMENTS

Closing statements to the conference were provided by: Ambassador Talal Al-Khedery on behalf of the Minister of Foreign Affairs of Iraq, Mr. Hosyar Zebari; Mr. Ghandanfar Rafeek of the Ministry of Planning and Development Cooperation; and Mr. Mahmoud Osman, KRG Representative on the Iraq Strategic Review Board (ISRB).

All speakers thanked the hosts and organizers of the conference and were looking forward to concrete actions to follow-up on the extensive discussions during the conference.



CLOSING SPEECHES

Following the the International Community briefing and the closing statements, closing

speeches were given by the UNCT and the KRG.



UNITED NATIONS

On behalf of Mr. Steffan De Mistura, The Special Representative of the United Nations Secretary General, Mr. Paolo Lembo, UNDP-Iraq Country Director, extended his thanks to the KRG for hosting such an unprecedented and successful conference. The conference exhibited an unsurpassed participation level including KRG officials, officials from Central Government, International Community, UNCT and citizens all of which share a common vision

towards a better future for the Kurdistan region, which proves, among others, a remarkable level of partnership.

Mr. Lembo underlined that this event was very successful in delivering several messages to the UNCT not the least important of which that the UNCT needs to spearhead and coordinate the efforts of all contributors bringing the required harmony and synergy.





Underlining the importance of water to the regional, national and global economy, Mr. Lembo stated that water is everyone's business and particular attention needs to be paid to the coordinated and equitable usage of water. He further added that during the past days it became obvious that the KRG is in dire need to embark on preparing an Integrated Water Resources Management Plan that would comprise the only feasible manner in which the entire spectrum of water consuming sectors could be consolidated in a holistic and harmonized manner. This plan would be guided by the individual sectors' plans and therefore,

would catalyze the preparation of these. He further underscored the importance of paying more attention to wastewater, the "Silent Energy".

Mr. Lembo closed by kindly requesting the KRGs comments and suggestions on the initial draft of the technical paper addressing "Financing Integrated Water Resources Management, From Value to Finance", which explores new horizons for the Iraqi water sector, and which was shared with all participants, in order to custom tailor this to the KRG requirements.



KURDISH REGIONAL GOVERNMENT

Mr. Omer Fattah, the KRG's Deputy Prime Minister, said, "This event is the first of its kind in Iraq and demonstrates the proactive stance of the KRG concerning development. We appreciate the contributions of all participants", He added, "Today, we need the support of the international community not to protect us from attempted genocide, but to help us progress and achieve social development". Mr. Fattah expressed the UNCT with particular reference to UNDP for supporting this unsurpassed event.

Mr. Fattah reiterated the KRG's commitment to supporting the initiative and stated that "you are drafting an important chapter in the history or Kurdistan" with your envisaged contribution towards the development of this important part of Iraq. "We hope the projects that you may support would be an example to follow on a nationwide level", he added.

According to Mr. Fattah, "While Kurdistan suffered the doings of the old regime for a while, now the Kurdish people are suffering the consequences of years of neglect and dilapidated infrastructure covering a wide spectrum of sectors such as water, electricity,

wastewater, solid wastes, health, education and so forth, I request our partners including donor agencies and the UN to expedite their response in order to respond to the current crisis situation in a timely fashion",.

"It is apparent that this year the situation will be far worsened by the encountered drought. This will have major impacts on all aspects of life in the Kurdistan region. In order for the KRG to address these problems, we are calling for the support of our partners; donor organizations; governments; UN with the particular support of UNDP", said Mr. Fattah. Mr. Fattah further stated: "Again we request you, Excellencies, to support the KRG with developing new water treatment and distribution systems, wastewater collection and treatment systems due to the major impact this sector has on the wellbeing of the people of Kurdistan".

Mr. Fattah closed his speech by adding: "We are grateful for your participation and potential support and thank you for your support to Kurdistan and ensure you that the KRG will be a main partner in your envisaged support initiatives".

8. The Way Forward

RECOMMENDATIONS

Based on the extensive presentations, consultations and situation analysis during the first two days of the conference, the following represents the main recommendations:

◆ For the short, medium and long term action plan, the International Community's support is called upon for

implementing the proposed Phase I interventions together with any additionally defined future activities.

◆ It became apparent that limited progress has been achieved since last year's cholera outbreak in connection with addressing the root causes of the outbreak. Therefore, in the unfortunate

event of reoccurrence of cholera or a similar waterborne disease outbreak this summer, last years approach may be very suited. Although last summer's approach was custom tailored to address the outbreak in Sulaymania, a similar approach can be formulated for other locations. This is as follows;

Water and Sanitation Sectors Intervention Action Plan, Emergency / Immediate Term Plan

A. Ensure Increased Safe Potable Water Supply

a. In coordination with Ministry of Water Resources and as deemed possible, release of more water, preferably 24/7, from Dokan Dam to ensure uninterrupted operation of Dokan water treatment facility and, as such, decrease dependence on shallow groundwater wells and private vendors.

b. Increase water tankering to piped water un-served dwellings. Inhabitants should be entitled to the Basic Water

Requirement Only (i.e. about 15 litres per inhabitant per day) to alleviate demand.

c. Tankered water should be provided to the population free of charge.

d. Emergency stand-by power generation sets to be provided to Sanchennare waterworks and Dokan water treatment facility to ensure uninterrupted operation.

e. Provide extensive chlorine monitoring programme at consumer interfaces in order to adjust chlorine dosing at source

to achieve a chlorine residual around 0.5 ppm.

f. Increase distribution of chlorine tablets and floaters to private wells' owners.

g. Launch an extensive community campaign targeting the population delivering several messages including "limit use of private wells", "boil water before use" and the like.

B. Divert Current Wastewater Outfalls Upstream Dokan Water Treatment Facility

a. Clustering and/or collection of the various outfalls into a single or several sumps.

b. Construct an urgent gravity sewer line

convening the sumps' content to the downstream of Dokan water treatment facility.

OR

c. Provide a submersible pump and force main for each collection pump and discharge to the downstream the Dokan water treatment facility.

C. Enhanced Water Quality Monitoring and Surveillance Systems

a. Establishment of joint Department of Health (DoH) and Department of Water Supply (DoWS).

b. Increase the number of monitoring teams in order to cover all monitoring and surveillance requirements (i.e. raw water,

source, networks, storage tanks, wells, etc).

c. Provide all essential water quality laboratory requirements including reagents, laboratory supplies, vehicles, fuel, etc.

d. Enhancement of logistical support to water quality monitoring teams.

e. Enhance detailed laboratory data analysis means, recommendations and reporting to ensure availability of the necessary tools to decision makers.

Follow-Up Actions

The following represent UNDP's proposed set of follow-up actions:

Follow-up with donor organizations for possible funding to Phase I of the KRG's plan.

UNCT will provide technical support to the KRG for further developing Phase I of the KRG's programme.

UNCT will provide technical support to the KRG for further developing Phase I of the KRG's programme interventions.

UNCT will provide technical support to the KRG for custom tailoring an intervention action plan for addressing the unfortunate event of reoccurrence of a similar outbreak.



Annex I

CONFERENCE AGENDA



Improving Basic Social Services in KRG
14 16 April 2008
Draft Agenda

14 April Conference opening & Programmatic approach to addressing Waterborne diseases and relevant sectoral overviews

9:00 – 9:30 Registration of participants

Session 1 Opening

Stage:

Government of Iraq: KRG PM, KRG DPM, KRG MoP, OCUNA, Central Government
 UNDP Iraq CD

9:30 – 9:45 Introduction: Dr. Zebari – KRG Coordinator to UN

Speeches:

9:45 - 10:30 H.E. KRG Prime Minister Delivered by H.E Minister of Health

10:30 – 10:50 UNDP Iraq Country Director

10:50 – 11:20 Central Government Senior Official

11:20 – 12:30 Coffee Break & Press Conference (Stage members only)

Session 2 Approach and relevant sectors overview

Stage:

KRG: KRG Coordinator to UN, MoP, MoH, MoM, MoE, MoWR, Erbil Gov, Sulymania Gov, Dohuk Gov
 UNDP Iraq CD

Presentations

12:30 – 13:15 MoH – H.E Minister of Health

Q&A Session

13:15 – 14:30 Lunch Break

14:30 – 15:15 MoWR, H.E Minister of Water Resources

Q&A Session

15:15 – 15:30 Coffee Break

15:30 – 16:15 MoE, H.E Minister of Environment

16:15 – 16:30 Governor, Erbil Governorate

Q&A Session

16:30 – 16:45 Governor, Sulymania Governorate

Q&A Session

16:45 – 17:00 Governor, Dohuk Governorate

Q&A Session

17:00 – 17:15 Day one wrap-up (Dr. Zebari – KRG Coordinator to UN)



15 April Proposed sectoral interventions within the proposed programme

- 9:00 – 9:15 Opening and Introduction of second day objectives (KRG Coordinator to UN)
09:15 – 09:30 Sector Facilitator Introduction (MoP, DG)

Session one Health Sector

Stage:

Dr. Zebari – KRG Coordinator to UN , MoP, Relevant DG's of Erbil, Suleymaniyah and Dohuk, MoH
UNDP Iraq CD

- 09:15 – 10:15 Presentation by MoH
Presentation by Dohuk Governorate

10:15 – 10:45 Questions

10:45 – 11:00 Coffee Break

Session Two Water Resources

Stage:

Dr. Zebari – KRG Coordinator to UN, MoP, Relevant DG's of Erbil, Suleymaniyah and Dohuk, MoWR
UNDP Iraq CD

- 11:00 – 11:45 Presentation by MoWR
Presentation by Sulaymaniyah Governorate
Presentation by Dohuk Governorate

11:45 – 12:15 Questions

Session Three Environment

Stage:

Dr. Zebari – KRG Coordinator to UN, MoP, Relevant DG's of Erbil, Suleymaniyah and Dohuk, MoE
UNDP Iraq CD

12:15 – 13:00 Presentation by MoE

13:00 – 13:30 Questions

13:30 – 14:30 Lunch

Session Four Municipalities

Stage:

Dr. Zebari – KRG Coordinator to UN, MoP, Relevant DG's of Erbil, Suleymaniyah and Dohuk, MoM
UNDP Iraq CD

14:30 – 15:15 MoM – H.E Minister of Municipalities

15:15 – 15:30 Coffee Break

15:30 – 16:30 Presentation by MoM
Presentation by Erbil Governorate
Presentation by Sulaymaniyah Governorate
Presentation by Dohuk Governorate

16:30 – 17:00 Questions

17:00 – 17:15 Day two wrap-up (Dr. Zebari – KRG Coordinator to UN)





16 April Donors and UNCT briefing on initiative support

9:00 – 9:15	Opening & Introduction (Dr. Zebari – KRG Coordinator to UN)
9:15 – 9:45	UNDP Presentation
09:45- 10:30	Donors Briefing on initiative support, Donor Presentations & Questions
10:30 – 10:45	Coffee Break
10:45 - 11:00	Donors Briefing on initiative support, Donor Presentations & Questions
11:00 – 13:00	Closing speeches UNDP Central Government KRG
13:00 – 14:00	Lunch



Annex II

Prioritized Phase I Programme Activities/Projects



No.	Sector/ Sub Sector	Project Area/ Location	Project Title	Project Value (USD Million)	Project Duration (months)	Project Direct Beneficiaries (Inhabita.)	Employment Opportunities Created (work- days)	Resulting Regional Annual Savings (USD million)
1	HEALTH							
1.1		Kurdistan Wide	Water and Food Inspection	0.960	24	5,000,000	NA	NA
1.2		Dohuk Governorate	Water - Born Infectious Diseases Control	1.800	12	828,947	NA	12.43
2	MUNICIPALITIES							
2.1	Water and Sanitation							
2.1.1		Dohuk Governorate	School Water and Sanitation Facilities Rehabilitation Programme	9.000	24	100,000	50,000	1.500
2.1.2		Kurdistan Wide	Kurdistan Regional WATSAN Master Plan	11.500	24	5,000,000	NA	NA
2.2	Water Supply							
2.2.1		Amadiya City, Dohuk Governorate	Amadiya Central Water Treatment Facility	65.000	24	170,000	200,000	2.550
2.2.2		Aqra City, Dohuk Governorate	Aqra Central Water Treatment Facility	75.000	24	220,000	225,000	3.300
2.2.3		Ba adra City, Dohuk Governorate	Ba adra City Water Supply	1.550	6	5,000	5,000	0.075
2.2.4		Bardarash City, Dohuk Governorate	Bardarash City Water Supply	3.500	12	10,000	11,000	0.150
2.2.5		Dohuk City, Dohuk Governorate	Central Dohuk Water Treatment Facility	140.000	24	662,000	420,000	9.930
2.2.6		Dohuk City, Dohuk Governorate	Dohuk City Water Distribution Network Replacement	7.000	12	62,000	21,000	0.930
2.2.7		Kalakji City, Dohuk Governorate	Kalakji City Water Supply	2.200	6	5,000	7,000	0.075
2.2.8		Sheladizy City, Amadiya District, Dohuk Governorate	Sheladizy City Water Supply	2.100	12	15,000	6,000	0.225
2.2.9		Sumail City, Dohuk Governorate	Sumail City Water Distribution Network Replacement	3.000	10	20,000	9,000	0.300
2.2.10		Zakho City, Dohuk Governorate	Zakho City Water Distribution Network Replacement	3.000	10	20,000	10,000	0.300
2.2.11		Diyana Sub-District, Erbil Governorate	Badyan Rural Water Supply Project	0.315	6	2,000	900	0.030
2.2.12		Khalifan Sub-District, Erbil Governorate	Banoka, Jonara, Senawa and Kany Golk Multy Rural Water Supply Project	0.775	6	2,000	2,500	0.030

No.	Sector/ Sub Sector	Project Area/ Location	Project Title	Project Value (USD Million)	Project Duration (months)	Project Direct Beneficiaries (Inhabita.)	Employment Opportunities Created (work-days)	Resulting Regional Annual Savings (USD million)
2 MUNICIPALITIES (continued)								
2.2 Water Supply (continued)								
2.2.13		Salahaddin Sub-District, Erbil Governorate	Darabizmara Water Supply Project	0.315	6	800	900	0.012
2.2.14		Erbil City, Erbil Governorate	Erbil City Water Distribution Network Replacement	4.150	12	30,000	13,000	0.450
2.2.15		Erbil City, Erbil Governorate	Eskan Quarter Water Distribution Network Replacement	0.500	12	7,000	1,500	0.105
2.2.16		Hareer Sub-District, Erbil Governorate	Graw Khailany Rural Water Supply Project	0.500	6	3,000	1,500	0.045
2.2.17		Erbil Governorate	Khabat, Kawrgosikl, Shakholan, Sofaya, Chama Dubz Water Supply Project	8.400	12	60,000	25,000	0.900
2.2.18		Erbil City, Erbil Governorate	Rapareen Quarter Water Distribution Network Replacement	0.750	12	35,000	2,000	0.525
2.2.19		Erbil City, Erbil Governorate	Ronake and Mantekawa Water Distribution Network Replacement	0.250	6	25,000	750	0.375
2.2.20		Erbil City, Erbil Governorate	Salahadeen Quarter Water Distribution Network Replacement	0.500	8	8,000	1,500	0.120
2.2.21		Erbil City, Erbil Governorate	Setaqan Quarter Water Distribution Network Replacement	1.000	12	8,000	3,000	0.120
2.2.22		Shorish Sub-District, Erbil Governorate	Smaq Shirny Bichuk, Hajy Wsuy Gichake and Gawra Rural Water Supply Project	0.500	6	800	1,500	0.012
2.2.23		Sulymania City, Sulymania Governorate	Central Water Supply Workshop	5.135	12	1,200,000	15,000	NA
2.2.24		Darbandikhan District, Sulymania Governorate	Darbandikhan Water Treatment Facility	3.825	12	33,000	12,500	0.495

No.	Sector/ Sub Sector	Project Area/ Location	Project Title	Project Value (USD Million)	Project Duration (months)	Project Direct Beneficiaries (Inhabita.)	Employment Opportunities Created (work- days)	Resulting Regional Annual Savings (USD million)
2 MUNICIPALITIES (continued)								
2.2 Water Supply (continued)								
2.2.25		Dokan District, Sulymania Governorate	Dokan Water Treatment Facility	2.615	12	8,000	8,000	0.12
2.2.26		Pebaz Sub- District, Sulymania Governorate	Pebaz Water Treatment Facility	1.660	12	5,000	5,000	0.075
2.2.27		Sulymania Governorate	Rehabilitation and Extension of Sulymania Governorate Water Supply System	9.625	24	400,000	29,000	6
2.2.28		Sulymania City, Sulymania Governorate	Rehabilitation of Existing Dokan- Sul Water Supply Project	25.500	12	400,000	77,000	6
2.2.29		Solymania City, Solymania Governorate	Extension of Dokan Water Treatment Facility	18.200	12	400,000	55,000	6
2.2.30		Sulymania City, Sulymania Governorate	Sarchennare Waterworks Feasibility Study	1.500	6	320,000	NA	NA
2.2.31		Sulymania City, Sulymania Governorate	Rehabilitation of Sarchennare Waterworks	12.000	8	320,000	36,000	4.8
2.2.32		Sulymania City, Sulymania Governorate	Sulymania City Asbestos Water Distribution Network Replacement	4.750	12	100,000	14,000	1.5
2.2.33		Sulymania City, Sulymania Governorate	Sulymania City Water Distribution Network Replacement	50.500	24	320,000	152,000	4.872
2.3 Wastewater								
2.3.1		Zakho City, Dohuk Governorate	Zakho City Main Sewerage System	6.000	24	72,000	18,000	1.080
2.3.2		Zakho City, Dohuk Governorate	Zakho General Hospital Wastewater Treatment Facility	1.400	6	300,000	4,000	NA
2.3.3		Erbil City, Erbil Governorate	Erbil Slaughterhouse Wastewater Treatment Facility	3.000	24	25,000	9,000	0.375
2.3.4		Erbil City, Erbil Governorate	Erbil City Integrated Wastewater Project	223.50 0	48	1,000,000	670,000	15
2.3.5		Halabja District, Sulymania Governorate	Halabja Wastewater Treatment Facility	9.000	12	20,000	27,000	0.300
2.3.6		Khurmali Town, Sulymania Governorate	Khurmali Wastewater Treatment Facility	7.000	12	16,000	21,000	0.240

No.	Sector/ Sub Sector	Project Area/ Location	Project Title	Project Value (USD Million)	Project Duration (months)	Project Direct Beneficiaries (Inhabita.)	Employment Opportunities Created (work- days)	Resulting Regional Annual Savings (USD million)
2 MUNICIPALITIES (continued)								
2.3 Wastewater (continued)								
2.3.7		Koya District, Erbil Governorate	Koya Wastewater Treatment Facility	10.000	12	25,000	30,000	0.375
2.3.8		Qaladza Town, Sulymania Governorate	Qaladza Wastewater Treatment Facility	8.000	12	18,000	24,000	0.27
2.3.9		Rania District, Sulymania Governorate	Rania Wastewater Treatment Facility	10.000	12	180,000	20,000	2.7
2.3.10		Said Sadiq Town, Sulymania Governorate	Said Sadiq Wastewater Treatment Facility	8.000	12	20,000	24,000	0.3
2.3.11		Sirwan Town, Sulymania Governorate	Sirwan Wastewater Treatment Facility	8.000	12	20,000	24,000	0.3
2.3.12		Soran District, Erbil Governorate	Soran Wastewater Treatment Facility	15.000	12	40,000	45,000	0.6
2.3.13		Sulymania City, Sulymania Governorate	Sulymania City Main Sewage Culvert	6.000	24	100,000	18,000	1.5
2.3.14		Sulymania City, Sulymania Governorate	Sulymania City Wastewater Treatment Facility Feasibility Study	2.000	8	320,000	NA	NA
2.4 Solid Waste								
2.4.1		Dohuk City, Dohuk Governorate	Dohuk City Solid Waste Management Project	9.000	24	110,000	27,000	NA
2.4.2		Erbil City, Erbil Governorate	Erbil Solid Waste Management Project	9.000	24	1,250,000	27,000	NA
2.4.3		Rwandooz Sub- District, Erbil Governorate	Rwandooz Solid Wastes Management Project	3.200	12	20,000	5,000	0.272
2.4.4		Darattoo Sub- District, Erbil Governorate	Darattoo Solid Waste Management Project	5.000	12	50,000	15,000	NA
2.4.5		Kasnazan Sub- District, Erbil Governorate	Kasnazan Solid Waste Management Project	2.100	12	24,000	7,000	NA
2.4.6		Khabat District, Erbil Governorate	Khabat Solid Waste Management Project	11.350	12	100,000	34,000	NA
2.4.7		Qushtappa Sub- District, Erbil Governorate	Qushtappa Solid Waste Management Project	1.850	12	16,000	6,000	NA
2.4.8		Shaqlawat District, Erbil Governorate	Shaqlawat Solid Waste Management Project	3.000	12	23,000	9,000	NA
2.4.9		Shawes Sub- District, Erbil Governorate	Shawes Solid Waste Management Project	2.100	12	23,000	6,000	NA

No.	Sector/ Sub Sector	Project Area/ Location	Project Title	Project Value (USD Million)	Project Duration (months)	Project Direct Beneficiaries (Inhabita.)	Employment Opportunities Created (work- days)	Resulting Regional Annual Savings (USD million)
3 WATER RESOURCES								
3.1 Policy								
3.1.1		Kurdistan Wide	Development of Integrated Water Resources Framework	6.000	36	5,000,000	NA	NA
3.2 Dams								
3.2.1		Koya/TaqTaq, Erbil Governorate	Elingakh Dam Project	6.000	24	50,000	22,000	NA
3.2.2		Zaweta, Dohuk Governorate	Gali Bradol Dam Project	6.000	24	60,000	22,000	NA
3.2.3		Sharbazher, Sulymainia Governorate	Khewata Dam Project	96.250	24	100,000	360,000	NA
3.2.4		Sharbazher, Sulymainia Governorate	Khewata Dam Design	5.500	6	100,000	20,000	NA
3.2.5		Shaqlawa, Erbil Governorate	Qapakiyan Dam Project	7.250	24	20,000	22,000	NA
3.2.6		Amedi/Sarsank, Dohuk Governorate	Sibna Dam No. 1 Project	6.000	24	65,000	18,000	NA
3.2.7		Amedi/Sarsank, Dohuk Governorate	Sibna Dam No. 2 Project	6.000	24	65,000	18,000	NA
3.3 Groundwater								
3.3.1		Dohuk Governorate	Groundwater Quality Mapping	2.250	12	500,000	NA	NA
3.3.2		Dohuk Governorate	Erbil Intergranular Aquifer Study	1.000	8	500,000	NA	NA
3.3.3		Erbil, Sulymainia and Dohuk Governorates	Rehabilitation of Springs and Shallow Wells Programme	5.500	12	200,000	16,000	3
3.3.4		Sulymania Governorate	Chamabsmila Subsurface Dam Pre-Feasibility Study	1.000	8	100,000	NA	NA
3.3.5		Sulymania Governorate	Groundwater Quality Mapping	2.250	12	600,000	NA	NA
3.3.6		Sulymania Governorate	Groundwater Artificial Recharge in Peramagroon Area Study	1.000	8	320,000	NA	NA
3.3.7		Sulymania Governorate	Rania Intergranular Aquifer Study	1.000	8	100,000	NA	NA
3.3.8		Sulymania Governorate	Sharazoo-Halabja Intergranular Aquifer Study	1.000	8	75,000	NA	NA



No.	Sector/ Sub Sector	Project Area/ Location	Project Title	Project Value (USD Million)	Project Duration (months)	Project Direct Beneficiaries (Inhabita.)	Employment Opportunities Created (work- days)	Resulting Regional Annual Savings (USD million)
3 WATER RESOURCES (continued)								
3.4 Water Quality								
3.4.1		Dohuk and Sulaymaniyah Governorate	Griminess Sweeper Equipment	4.400	10	1,500,000	10,000	NA
3.4.2		Sulaymaniyah and Dohuk Governorates	Water Quality Monitoring Programme for Dokan, Darbandikhan and Dohuk Lakes	3.300	10	1,500,000	NA	NA
4 ENVIRONMENT								
4.1		Dokan and Darbandikhan Lakes Area	Environmental Survey Programme for Dokan and Darbandikhan Lakes	0.260	12	1,500,000	NA	NA
4.2		Erbil City, Kurdistan Wide	Environmental Training Centre	13.600	48	5,000,000	NA	NA
4.3		Erbil City, Sulaymaniyah, Dohuk	Kurdistan Central Environmental Laboratories	7.000	9	5,000,000	NA	NA
4.4		Kurdistan Wide	Radiation Assessment in Kurdistan Region	9.350	24	5,000,000	NA	NA





Annex III

CONFERENCE PARTICIPANTS

Conference Participants

Prime Minister's Office		
	Name	Title
1	Mr. Adnan M. Qadir	Minister of Labour and Social affairs
2	Dr. Anwar Abdellah	DG of Health Affairs
3	Mr. Mariwan Badrkhan	Advisor to the PM
4	Mr. Bahnam K.	Professor
5	Mr. Staffor Clarry	Humanitarian Affairs Advisor
6	Mr. Arjun Clarry	Humanitarian Affairs Advisor

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8	Mr. Shamal Abdulrahman Mufty	Ministry's Advisor
9	Mr. Anees Abdulahad Nabaty	DG Technical Affairs
10	Mrs. Sharmeen Hamad Khoshnaw	DG Awareness & Media
11	Dr. Azad Mustafa Khudur	Director of Coordination and Public Relations
12	Dr. Bilnd Ibrahim Dizaye	Ministry's Advisor
13	Mr. Ali Hassan Ahmed	Ministry's Advisor

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15	Dr. Jameel Ali Rasheed	DG Health Affairs
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17	Dr. Khais Qadir Ahmad	Director of CDC

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20	Mr. Mohammed A. Mahmood	Deputy DG of Water and Sewerage
21	Mr. Mariwan Faizy	Deputy DG of Water and Sewerage
22	Mr. Ninos H. Braymok	Expert
23	Mrs. Noor N. Mohsin	Engineer
24	Mrs. Ann Mirani	Advisor
25	Dr. Thomas Renhan	Municipality Expert
26	Mr. Robert Katzensen	Urban Planning Expert
27	Mr. Loay Fraukh	Water and Sewage Expert
28	Mr. Barham Ismail	Consultant



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30	Mr. Mohammed Amin Faris	General Director of Irrigation and Surface water
31	Mr. Akram Ahmad Rasool	General Director of Dams
32	Mr. Dlear Umer Abdulla	General Director of Study & Design
33	Mr. Mahmood Aziz Ahmad	General Director of Ground Water
34	Mr. Sardar Ibrahim Qanbar	Expert Engineer
35	Mrs. Aram Ibrahim Qanbar	Relationship Manager MoWR
36	Mr. Joseph Donahue	Chief Executive Officer
37	Mr. Richard Shadeed	Technical Advisor
38	Mr. Nabaz T. Abdullah	Consultant

Ministry of Planning		
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40	Mr. Zagros Fatah Siwaily	DG Department of Coordination & Cooperation
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43	Mr. Sherwan Asad Qader	DG Public Investment Projects
44	Mr. Moaed Qoja	Head of Quality Control Department
45	Dr. Fuad Hussein	President Office Manager

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47	Mrs. Nawroz Mustafa Amin	Manager of Planning Dept. of Sulaymanya City
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49	Dr. Sherko Abdulah	DG Health
50	Mr. Bahaadin Ibrahim	DG Rural Water
51	Mr. Dyar Mohammed Ali	DG Rural Water
52	Mr. Omid Mohammed Mustafa	Director of Ground Water Consultant

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54	Mr. Mostafa El-Emam	Advisor to the Governor
55	Dr. Abdalla Saeed	Director General of Health
56	Dr. Nazar M. Salim Numan	Professor of Geology/University of Dohuk
57	Mr. Faris Haji Salim	Head of Planning Department/Dir. of Water
58	Mr. Delshad Abdulrahman	Director of Environment Office

Erbil Governorate		
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60	Mr. Tahir Abdullah Othman	Deputy Governor
61	Mr. Sarhang Jalal Saeed	Protection Director



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	Name	Title
62	Mr. Mamand Rasul	DG Administrative Affairs-Office of Iraq President
63	Mr. Sagvan Murad Jundi	DG Protocol- Office of Iraq President
64	Mr. Tariq Nazar Salman	DG for Iraq Fund External Development - Ministry of Finance
65	Ambassador Talal Hashim Al-Khudairy	Head of Organizations and Multi National Cooperation Department-Ministry of Foreign Affairs
66	Mr. Ibrahim Khalil Ibrahim	1st Secretary-Head of UN Specialized Organization Section in the Department of Organizations and Multi National Cooperation-Ministry of Foreign Affairs
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75	Dr. Khaldoon Al-Bassam	DG-Ministry of Industry and Minerals
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129	Fauzi Ramzi	Counsel of Ministers Protocol
130	Berivan Nazar	OCUNA
131	Nabaz Abdullah	OCUNA
132	Diyar Yusif	OCUNA
133	Shleir Ali	Ministry of Labor and Social Affairs
134	Twana Abubakir	Ministry of Labor and Social Affairs
135	Farhad Jamil Nadir	Ministry of Natural Resources
136	Omer Rasheed	Dept. of Foreign Relations
137	Hoshang Muhamed	Dept. of Foreign Relations
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147	Mr. Fawaz Farooq Josef	Photographer-Babylon Media
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149	Mrs. Ebtessam Ismaeel	Usher
150	Mrs. Sabah Ebrahim	Usher
151	Mrs. Lina Amer	Usher
152	Mrs. Amani Ayat	Usher
153	Mr. Sirwan Abdul Karim Ali	Usher



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155	Mr. Salim Khalas	Aswat Al Iraq
156	Basam	Al-Iraqia TV
157	Hemn Amin	Kurdi Sat
158	Amar Najmadin	Kurdistan TV
159	Shawqi Qadir	Kurdistan TV
160	Bargasht Akryl	Zagwos TV
161	Hogr Gharib	U T V
162	Mukhlis Khoshnaw	Gons
163	Ahmed Zawiti	Al-Jazeera
164	Omar Farhadi	Voice of America
165	Roshana Ali	Xebat
166	Rebwar	Hawlaty
167	Midya	
168	Rawsht Nawzad	Kurdistan new
169	Rafiq	Kurdistan Report
170	Bulind Mustafa	Barzan
171	Hama Mamand	Radio new
172	Karvan Stuni	HawlerPost
173	Safin Hamid	Finance Presss Agency
174	Mohamed Jambaz	AP
175	Nizar Jambaz	AP
176	Awene	
177	Lesa	Jemawe
178	Sirwa Abdul Wahid	Al Hurra
179	Diar Hama Ali	Al Hurra
180	Shamal Aqrawi	Reuters
181	Murad Jambaf	Reuters
182	Abas	PUK Header
183	Ashtar	
184	Nizar	Al Sharqiya
185	Rebin	Payamar
186	Choman Hiwa	Dangi Kurdistan
187	Lawand	BHA Turkish Channel
188	Soran	BHA Turkish Channel
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190	Salam Karkuki	Geil Kurdistant
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192	Shafie' Roshani	Tishk
193	Salahi Nadri	Tishk
194	Mhammadi Mhammadi	Rozh Helat
195	Aubi Abdul Ghafur	Rozh Helat
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199	Hussien Himady	Rudau Newspaper
200	Elaf, Zaman, Rojnama	
201	Ali Khan	CHA
202	Jian A.	DHA
203	Mr. Abdulla Sabri	Furat TV
204	Sahar TV	
205	Press TV	
206	Al-Sharqiya	
207	CHA Turkish Channel	