



## ANNEXES

### ANNEX 1

#### **Annex 1.1. List of the Bilateral and Multilateral Agreements and the Regional Initiatives in the Area of Joint Management of Water and Energy Resources in Central Asia.**

Agreement amongst the Government of the Republic of Kazakhstan, the Government of the Kyrgyz Republic, and the Government of the Republic of Uzbekistan about use of the fuel/energy and water resources, construction and exploitation of gas pipelines in the Central Asian region (Tashkent, 5 April, 1996);

Agreement amongst the Government of the Republic of Kazakhstan, the Government of the Kyrgyz Republic, and the Government of the Republic of Uzbekistan about use of the water and energy resources of the Syrdarya river basin (Bishkek, 17 March, 1998);

Protocol amongst the Government of the Republic of Kazakhstan, the Government of the Kyrgyz Republic, and the Government of the Republic of Uzbekistan about use of the water and energy resources of the Naryn-Syrdarya cascade of reservoirs in 2001;

Agreement amongst the Government of the Republic of Kazakhstan, the Government of the Kyrgyz Republic, and the Government of the Republic of Uzbekistan about cooperation in the area of nature protection and rational use of the natural resources (17 March, 1998);

Agreement amongst the Government of the Republic of Kazakhstan, the Government of the Kyrgyz Republic, the Government of the Tajik Republic and the Government of the Republic of Uzbekistan about cooperation in the area of hydro-meteorology (17 June, 1999);

Agreement amongst the Government of the Republic of Kazakhstan, the Government of the Kyrgyz Republic, the Government of the Tajik Republic and the Government of the Republic of Uzbekistan about parallel operation of the energy systems of the Central Asian countries (Bishkek, 17 June, 1999);

Agreement between the Republic of Uzbekistan and Turkmenistan about cooperation in the water management issues (Chardjev, 16 January, 1996);

Agreement between the Government of Republic of Uzbekistan and the Government of Turkmenistan about the onerous land use (Ashgabad, 17 April, 1996).

Table 1.2. **List of the International Organizations to which Uzbekistan is a Member**

<b>N</b>	<b>Abbreviation</b>	<b>Full Title of Organization</b>
1	UNO	United Nations Organization
2	UNIDO	United Nations Industrial Development Organization
3	UN ESCAP	Economic and Social Commission for Asia and the Pacific
4	UNCITRAL	United Nations Commission for International Trade Law
5	UNDP	United Nations Development Program
6	UNESCO	United Nations Educational, Scientific, and Cultural Organization
7	UNCTAD	United Nations Conference on Trade and Development
8	UNECE	United Nations Economic Commission for Europe
9	WIPO	World Intellectual Property Organization
10	WHO	World Health Organization
11	ILO	International Labor Organization
12	ITU	International Telecommunication Union
13	IBRD	International Bank for Reconstruction and Development
14	IFC	International Finance Corporation
15	IDA	International Development Association
16	MIGA	Multilateral Investments Guarantee Agency
17	IMF	International Monetary Fund
18	OSCE	Organization for Security and Cooperation in Europe
19	EBRD	European Bank of Reconstruction and Development
20	EEC	European Energy Charter
21	ADB	Asian Development Bank
22	WCO	World Customs Organization
23	IDB	Islamic Development Bank
24	OECD	Organization of Economic Cooperation and Development
25	ICO	Islamic Conference Organization
26	ICAC	International Cotton Advisory Committee
27	IAEA	International Atomic Energy Agency
28	ISTCO	International Satellite Telecommunication Organization
29	ISO	International Standardization Organization
30	WTO	World Tourist Organization
31	FAO	Food and Agriculture Organization

Source: UNDP, 2003

## ANNEX 2

Table 2.1. Average Substances Concentration in the Amudarya River Near Nukus

Parameters	Average Annual Substances Concentration (mg/l)				
	1991	1992	1993	1994	1995
Dissolved Oxygen	8.09	8.61	9.33	10.29	10.05
BOD	0.68	1.26	0.62	1.10	1.49
COD	16.3	12.8	19.0	9.6	8.5
Ammonium Nitrate	0.06	0.07	0.06	0.02	0.04
Nitrate	0.06	0.88	0.80	0.52	0.56
Nitrite	0.01	0.034	0.021	0.019	0.011
Fe (III)	0.03	0.03	0.02	0.03	0.02
Copper (II) (ug/l)	2.5	3.8	0.8	1.5	2.2
Zinc (II) (ug/l)	12.5	7.6	9.7	9.9	10.5
Phenols	0.006	0.002	0.002	0.005	0.003
Petrochemicals	0.04	0.06	0.04	0.06	0.03
Cr (ug/l)	1.0	2.7	1.6	0.7	0.5
MAC	0.04	0.01	0.01	0.01	0.02
Suspended Matters	101	435	277	260	136
DDT (ug/l)	0	0	0	0	0
-HCH (ug/l)	0.023	0.134	0.047	0.023	0.001
Fluorine	0.36	0.31	0.20	0.21	0.26
Arsenic (ug/l)	0.6	2.5	0.1	1.2	1.7
Mineralization	814	995	1,090	1,025	1,244

Source: WB, 1998 Ecological assessment of I&D in the Amudarya River Basin, IWACO and others

Table 2.2. Reservoirs of Uzbekistan

Oblast	Q-ty	Available Storage Capacity, km <sup>3</sup>	Oblast	Q-ty	Available Storage Capacity, km <sup>3</sup>
<i>Amudarya River Basin</i>			<i>Syrdarya River Basin</i>		
Khorezm	1	4.505	Andidjan	3	1.760
Kashkadarya	14	2.348	Tashkent	5	1.999
Samarkand	7	1.063	Fergana	4	0.255
Surkhandarya	4	0.902	Namangan	7	0.239
Navoi	2	0.845	Djizak	4	0.181
Bukhara	2	0.430	Syrdarya	2	0.012
		10.093			4.446

Source: GEF/WB WEMP Project, Report of the NWG of Uzbekistan, 2002

### ANNEX 3

Table 3.1. **Structure of Distribution of the Republic’s Oblasts and Rayons Amongst the Basin Administration of Irrigation Systems (BAIS)**

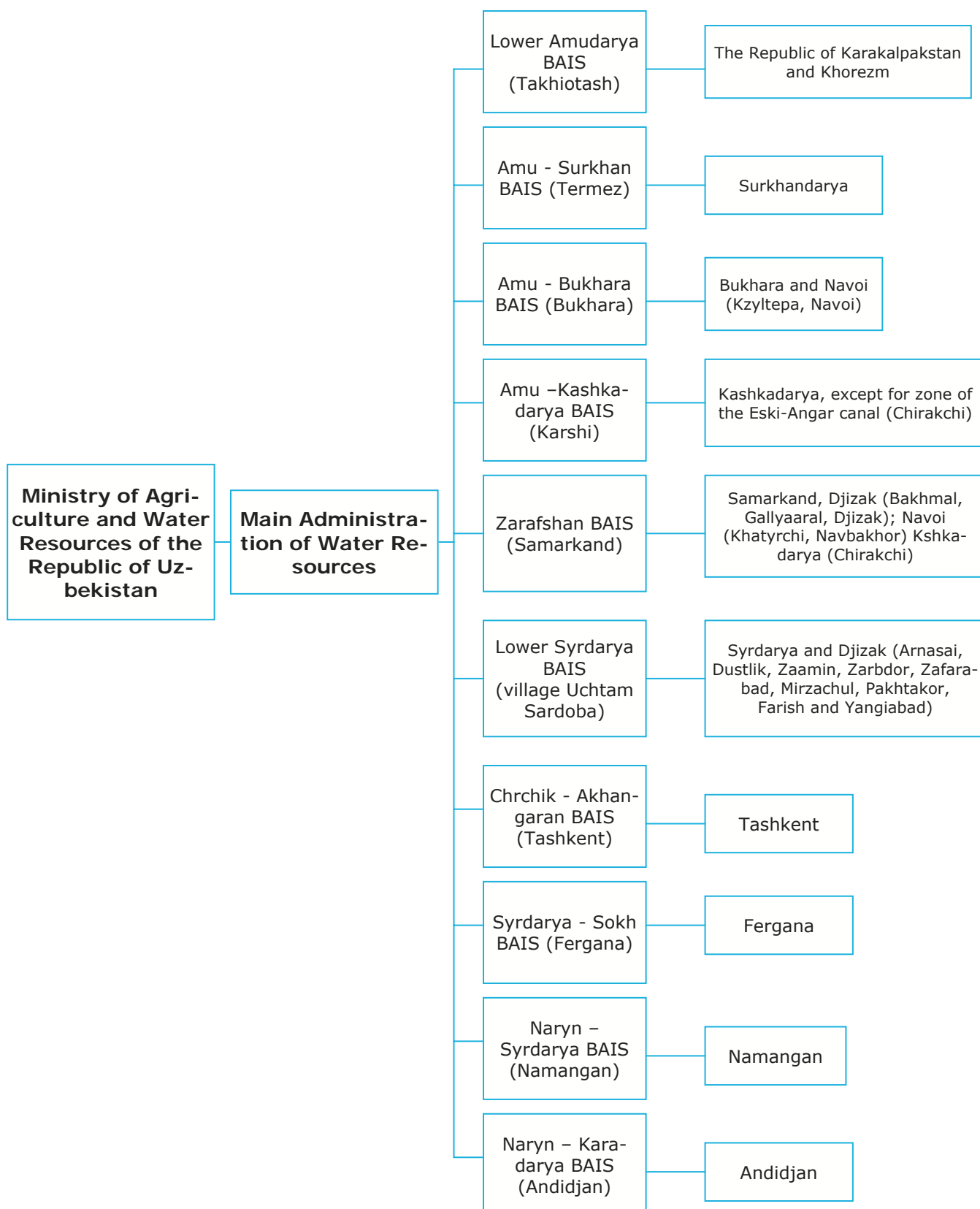
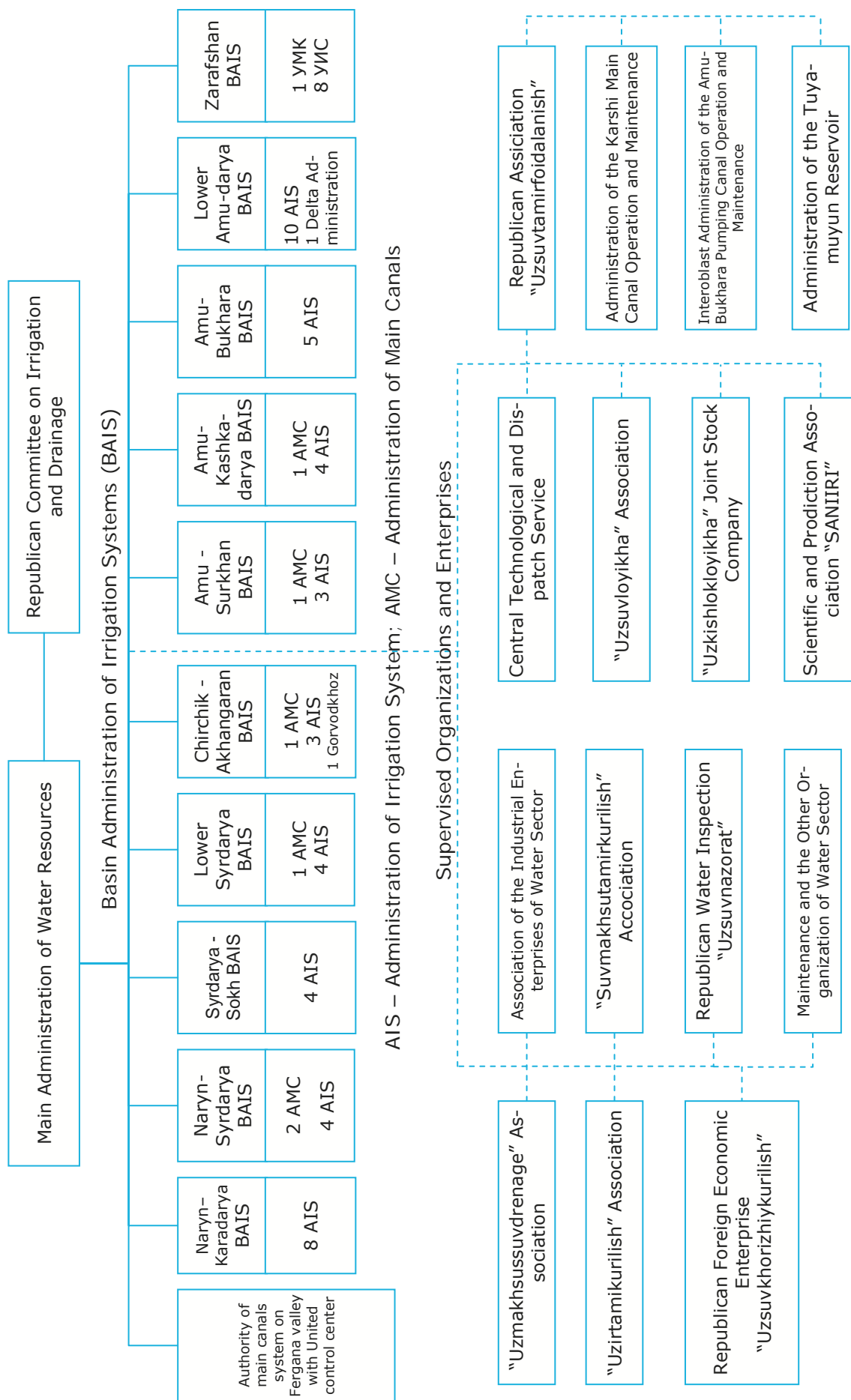


Table 3.2. Managerial Structure of Water Resources Administration of the Republic of Uzbekistan [72]



**ANNEX 4**

Figure 4.1. **Amudarya River Scheme (GEF/WB, WEMP, 2002)**

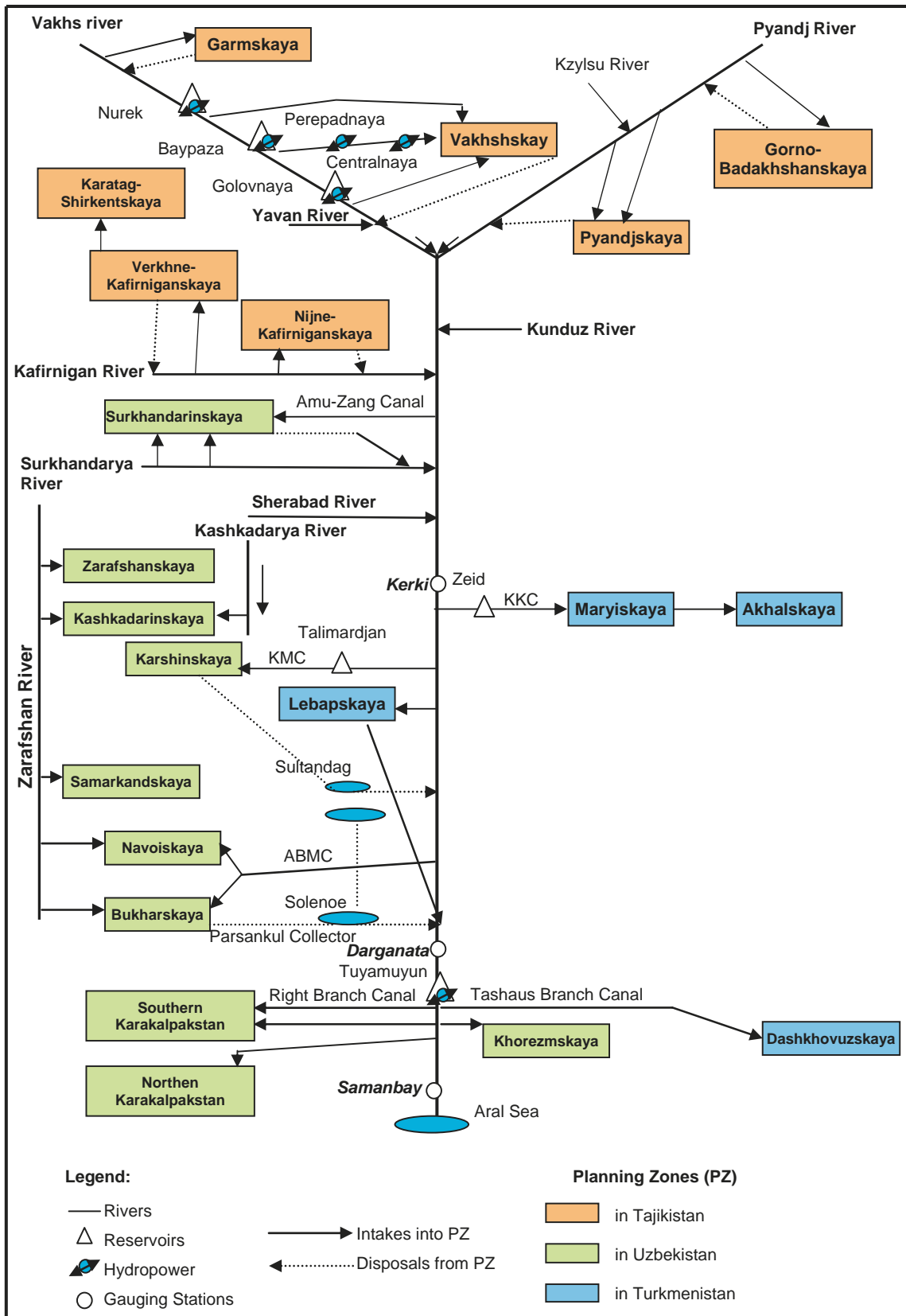
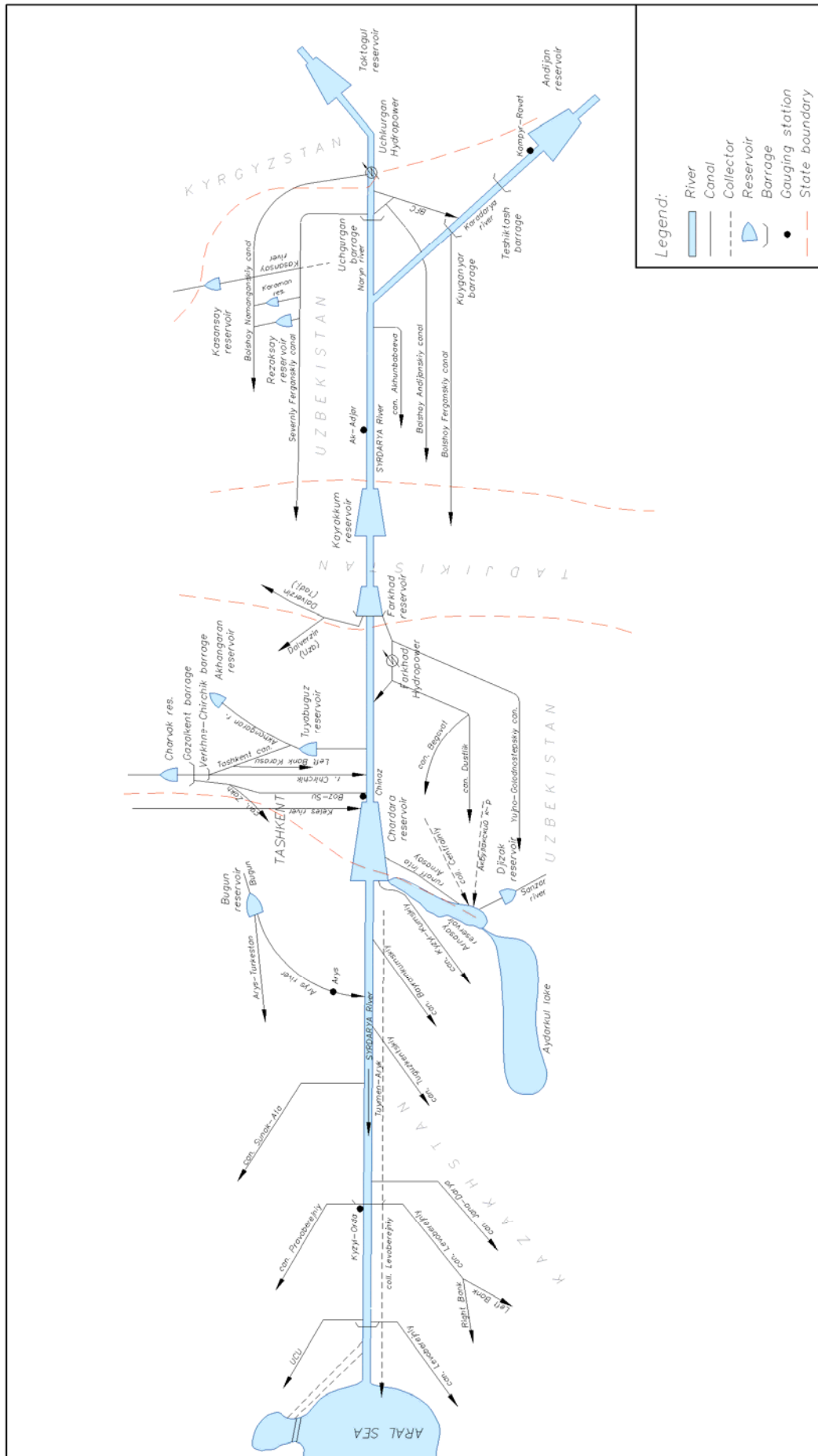


Figure 4.2. Syrdarya River Scheme [72]



## ANNEX 5

Table 5.1. Preferable Projects from the River Basin Management Viewpoint, Right Bank of the Amudarya River (WB Uzbekistan Drainage Project, EA, 1997)

Sector	Management Objective	Tasks to be Solved	Preferable Option	Compromise
Water Resources	Water Quality Management	Use of local depressions for salts accumulation; increase of irrigation systems efficiency	Connection of Sichankul - Sultandag - Dengizkul; Karateren pumping station	Creation of flowage and/or balance between confined and flow-through system of depressions for conservation of biodiversity
Land Resources	Salinity and Water Logging Reduction	Improvement of the on-farm irrigation and drainage systems; improvement of inter-farm collector and drainage network	Beruni collector	Serious improvement of irrigation practice and maintenance of stable regime of wetlands management
Biological Resources	Increase of Biodiversity	Compensation of biodiversity losses in the basin and creation of wetlands	Connection of Sichankul - Sultandag - Dengizkul; Beruni collector	Compromises are similar to the ones for the previous objectives. In addition, development of the Akhchadarya river wetlands and conservation of pastures for stockbreeders and households in project area.
Social Economy	Support to Economic Development	Capacity building for economic development	Beruni collector	Development of the Akhchadarya river wetlands and conservation of pastures for stockbreeders and households in project area.
Managerial Structures	Compliance of projects with managerial capabilities; development of managerial structures	Feasible development of managerial structures	Use of system of the preferable projects; Water resources management; Ecological resources management	Development of management structures for both water and biological resources.



Table 5.2. **Regional and National Projects Financed by the International Donors in Uzbekistan**

Project Title	Financing Agency	Implementation Period	Budget, mln. USD	Implementation Agency / Local Counterpart
<b>Water / Irrigation</b>				
Project on municipal water supply and improvement of sanitary conditions in Bukhara and Samarkand	WB; SECO	2002-2007	40.9	Water Supply Organizations (Vodokanal) of Bukhara and Samarkand
Rural Water Supply and Improvement of Sanitary Conditions	WB	1997-2005	75	State Statistics Agency (Goskomstat)
Drainage, Irrigation and Waterlogged Lands Improvement Project (Phase - I)	WB	2003-2010	60	MAWR; Mott MacDonald & Temelsu
Amu-Zang Irrigation System Rehabilitation Project	ADB	2004-2009	73	MAWR
Rural water supply Project in Western Uzbekistan	ADB	2002-2005	38	Ministry of Economy
Urban Water Supply	ADB	2001-2007	36	Agency of Municipal Services of the RUz
Rural Water Supply	SDC	2004-2006	1.7	International Secretariat on Water Issues
Assistance in Liquidation of Drought Impacts in the Aral Sea Region	ADB	2002	0.15	Ministry of Economy
Possible Services and Water Conservation for Indigent Urban Inhabitants	ADB	2004-2006	1.5	Ministry of Economy
Drinking Water Supply in the Khorezm Oblast. Improvement of Health Care in Various Regions	Germany / Creditunstal	1995-2005	13.8	Cabinet of Ministers, AIK Obi Khaet
Central Asian Regional Information Base on Water (CAREWIB)	SDC	2003-2006	0.29	SIC ICWC; GRID-Arendal;
Regional Center of Hydrology (Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan, Uzbekistan)	SDC	2002-2003	1.5	SDC on water and geology
Canals Automation Project in Fergana Valley (Kyrgyzstan, Tajikistan, Uzbekistan)	SDC	2002-2005	1.3	BVO "Syrdarya"
Integrated Water Resources Management (Kyrgyzstan, Tajikistan, Uzbekistan)	SDC	2001-2005	2.3	SIC ICWC; IWMI
Project on Training in Water Resources Management in the Central Asia	CIDA	2000-2005	1.5	SIC ICWC; McGill University; Canada
Central Asia Natural Resources Management Program (Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan, Uzbekistan)	USAID	2000-2005	35	PA Consulting
Water User Associations Support Program (Kyrgyzstan, Tajikistan, Uzbekistan)	USAID	2004-2007	25	Winrock Int., USAED; New Mexico
Integrated Water Resources Management in Low Lands and Deltas of the Aral Sea Basin (Kazakhstan, Turkmenistan, Uzbekistan)	US State Department	2004-2005	0.12	SIC ICWC
Regional Training Course "Assistance to Water User Associations "	JICA	2004-2008	0	IC Tsukuba, Japan

Economic and Ecological Restructuring of Land and Water Use in the Khorezm Oblast	BMBF	2002-2006	1.3	MAWR
Development of Program for Preparation of Indicators for Environment and Water Resources Management in the Central Asia (EWASIA)	EU TEMPUS	2003-2006	0.5	Wageningen University;ТИИМ
Water Resources Management and Agricultural Production in the Central Asian Republics (WARMAP)	EU TACIS	1995-2000	4.75	Aquater, DHV
Water and Environment Management in the Aral Sea Basin	GEF; EU TACIS	1998-2003	22.8	GEF Agency, IFAS
Special UN Program on Economy of the Central Asia (SPECA)	UNECE, UNESCAP		0	Governments of Central Asian countries
Improvement of Irrigation Water Use Efficiency and Water Quality in Uzbekistan	STCU	2003-2006	0.3	Scientific/Research Institute (SRI) of Cotton Production; SRI of Veterinary
Cooperative International Study of the Transboundary Rivers Pollution in the Central Asia	STCU	2003-2006	0.15	Institute of Nuclear Physics
<b>Total on Water</b>			436.86	
<b>Agriculture</b>				
Project on Support to Rural Industrial Enterprises	WB	2001-2006	36.14	MAWR
Ak-Altyn Agricultural Development Project	ADB	2001-2004	36	MAWR
Agricultural Development Project in Karakalpakstan	JICA	2005-2008	0	Council of Ministers of Karakalpakstan
Training for Professional and Senior Management Staff of Agricultural Sector in the Central Asian Countries	BMZ	2006-2014	2.2	Germany, TIIM and CAR Universities
Regional Network for Assistance in Wheat Growing and Seed Productivity in the Central Asia	BMZ	2002-2005 (accomplished)	1.6	MAWRs, Institutes of Selection jointly with CYMMIT.
Economic Development in the Selected Regions of Uzbekistan (Component: Sustainable Use of Land Resources in Karakalpakstan)	BMZ	2005 - 2011	1.2	Cabinet of Ministries of the RUz and Council of Ministries of the RK, MAWR
<b>Total on Agriculture</b>			77.14	
<b>Land / Desertification</b>				
Land Improvement Project in the Bukhara, Navoi, and Kashkadarya Oblasts	ADB	2004-2005	0.55	MAWR
Assistance to the private agricultural sector of Uzbekistan and improvement of forest plantations on the dried bottom of the Aral Sea	GTZ	1995-2006	0	Goskompriroda
Integrated management for sustainable use of saline and gypsiferous soils and Component Field Farmer Schools (FAO/TCP/UZB/2901)	FAO	2002-2005	0.36	MAWR, Uzgipromeliovodkhoz
Sustainable agricultural practice in the droughty regions of Karakalpakstan (FAO/TCP/UZB/2903)	FAO	2003-2005	0.37	MAWR, SANIIRI / ICARDA
Increase of cotton and wheat productivity through adaptation of soil conservation farming system (FAO/TCP/UZB/3001)	FAO	2004-2005	0.36	MAWR, TIIM


Stabilization of the dried areas of the Aral Sea in Central Asia – Option for continuation from 2006 (continuation of the Aral Sea project in the RUz)	BMZ	2005 - opened	3.8	MAWR of RUz and Kyzylorda, Kazakhstan
Regional Project "Support to implementation of the UN Convention to Combat Desertification (UN CCD) in Asia"	BMZ	2001-2007	5.2	GTZ in the countries of Asia
Sustainable management of situation associated with locust in the Central Asia (Kazakhstan and Uzbekistan)	BMZ	2003-2007	2	MAWRs of KAZ and UZB
Combat desertification and amelioration of saline soils in the Aral Sea region (Kazakhstan)	BMBF	2001-2004		University of Bielefeld, Germany
Assistance to ecologically sustainable agriculture and from 2001: Recultivation of the dry Aral Sea bottom and assistance to the private sector of agriculture and business	BMZ	1995-2004 (accomplished)	8.8	MAWR
Initiative of the Central Asian Countries in Land Resources Management (ICACLRM) (Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan, Uzbekistan)	GEF; Bilateral Governments	2005 (disapproved)		ADB
Economic and ecological restructuring of land and water use in the Khorezm Oblast (Uzbekistan): Development study pilot project: Second Phase from 2002 to 2006, Approved	Government of Germany (BMBF)	2001-2011	1.3	MAWR, UNESCO; ZEF; DLR
<b>Total on Land</b>			22.74	


Sources: CACILM, NFP of Uzbekistan, 2006






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