

Supporting Report for Chapter 8

“Evaluation of Proposed Management Plans”

Contents

	Page
Annex to 8.1 Economic and Financial Evaluation-----	SA8-1
Annex to 8.1.1 Surface Water Development-----	SA8-7
Annex to 8.1.2 Water Conveyance-----	SA8-21
Annex to 8.1.3 Sea/Brackish Water Desalination-----	SA8-25
Annex to 8.1.4 Wastewater Reuse-----	SA8-29
Annex to 8.1.5 Overall Financial/Economic Evaluation -----	SA8-87
Annex to 8.2.1 Evaluation of Institutional and Legislative----- Measures for Privatization	SA8-107
Annex to 8.3 Environmental Evaluation-----	SA8-110

**ANNEX to 8.1.5
Overall Financial/
Economic Evaluation**

Table 8.1.5-1 Memorandum in Conducting Financial/Economic Analysis

Item	Additional Water (MCM)	Total Cost (JD mil.)	Memorandum in Conducting Financial/Economic Analysis
A. Technical & Private Sector Management			
01-TP Water Feasibility, Design and Assessment Studies	0.0	(34.0)	
03-TP Amman Water and Wastewater Management Contract	0.0	(23.0)	
03-TP The Governorate Support Section (GS)	0.0	(9.2)	
04-TP Planning and Management Unit (PMU)	0.0	(4.0)	
Total	0.0	0.0	
B. Water Development Projects			
(1) Municipal Water			
01-WT Dini Amman Water Conveyer	100.0	437.5	This is a water development/conveyance project and as such both the water and the cost concerned are considered for evaluation.
02-WT Capital Investment Program	(18.0)	(150.0)	This is a water supply network rehabilitation project, producing no new water and as such the cost concerned is not considered for evaluation.
03-WT Miscellaneous Small Projects - Network and Supply Exp	(-)	(25.0)	This is essentially a water supply network rehabilitation project, producing no new water and as such the cost is not considered for evaluation.
04-WT Desalination Conveyer to Urban Jordan (30+10 MCM)	60.0	100.0	This is a water conveyance project, and 29 MCM of water to be newly available and the conveyance cost are considered for evaluation.
05-WT Al-Wihda Dam Water Supply Project / Irbid	(25.0)	27.0	This is the project to transfer the water to be newly produced by the Wahda dam and as such the cost concerned is considered for evaluation.
06-WT Hirbaa and Kafrein Desalination Plant	30.0	56.2	This is a water development project and as such both the water to be developed and the cost concerned are considered for evaluation.
07-WT Dier Alla - Zai Amman II	(45.0)	65.0	This is the project to convey peace water and as such the cost concerned is considered for evaluation.
08-WT On-going Rehabilitation - Zarqa Governorate	(23.0)	(35.0)	This is essentially a water supply network rehabilitation project, producing no new water and as such the cost is not considered for evaluation.
09-WT Wadi Al Arab - Irbid Municipal Water Supply	(25.0)	(27.0)	This project is an alternative of 05-WT Al-Wihda Dam Water Supply Project/Irbid. It is dropped as 05-WT is adopted.
10-WT Tabqaat Fahl - Irbid	(-)	18.0	This is a new water conveyance project and as such the cost concerned is considered for evaluation.
12-WT Desalination at Aqaba	15.0	82.1	This is a water development project and as such both the water to be developed and the cost concerned are considered for evaluation.
13-WT Deep Groundwater Investigations	5.0	13.0	This is a water development project and as such both the water to be developed and the cost concerned are considered for evaluation.
14-WT Lagoon Wells	11.0	10.0	This is a water development project and as such both the water to be developed and the cost concerned are considered for evaluation.
15-WT Corridor Water Supply Project	10.0	10.0	This is a water development project and as such both the water to be developed and the cost concerned are considered for evaluation.
16-WT Dead Sea Water Treatment Plant	(15.0)	10.0	This is the project to treat water to be newly developed and supplied and as such the cost concerned is considered for evaluation.
17-WT Wadi Mousa Water Supply	6.6	9.0	This is a water development/conveyance project and as such both the water and the cost concerned are considered for evaluation.
18-WT Community Infrastructure Project	4.0+(2.0)	3.0	This is the project for water development and rehabilitation, and as such both the water and the cost concerned are considered for evaluation.
19-WT Dini Amman Water Conveyer Branch to Ma'an/Madaba	(29.0)	3.8	These are the projects to convey newly developed water and as such the cost concerned is considered for evaluation.
20-Upgrading of Inter-Governorate Transfer Line Phase 1	(18.0)	(11.9)	These are essentially the projects for the rehabilitation of conveyance facilities and as such the cost concerned is not considered for evaluation.
20-Upgrading of Inter-Governorate Transfer Line Phase 2	(82.0)	(30.8)	These are essentially the projects for the rehabilitation of conveyance facilities and as such the cost concerned is not considered for evaluation.
19-WT Wahda Dam	103.0	151.0	This is a water development project and as such both the water to be developed and the cost concerned are considered for evaluation.
24-WT Wala Dam	10.0	22.0	This is a water development project and as such both the water to be developed and the cost concerned are considered for evaluation.
Sub-Total	359.6	1,027.6	

(2) Irrigation Water			
20-WT Mugh Wair Conveyer and Southern Ghors Infrastructure	(54.5)	67.2	This is essentially a new water conveyance project and as such both the water to be developed and the cost concerned are considered for evaluation.
21-WT Mugh Dam	35.0	47.0	This is a water development project and as such both the water to be developed and the cost concerned are considered for evaluation.
22-WT Jordan Rift Valley Improvement Project	0.0	(35.0)	This is a study project producing no water and the cost, being not directly relevant to any construction projects, is not considered for evaluation.
23-WT Tannur Dam	15.6	21.7	This is a water development project and as such both the water to be developed and the cost concerned are considered for evaluation.
25-WT Small Dam (Ibn Hamed, Karak, Medden)	11.0	13.0	This is a water development project and as such both the water to be developed and the cost concerned are considered for evaluation.
26-WT Wadi Araba Development Project	3.6	12.0	This is a water development project and as such both the water to be developed and the cost concerned are considered for evaluation.
27-WT Feedan Dam	6.0	8.4	This is a water development project and as such both the water to be developed and the cost concerned are considered for evaluation.
28-WT Rehabilitation of Southern Ghors Irrigation Stage 1	(45.0)	(9.0)	This is a water supply system rehabilitation project, producing no new water and as such the cost concerned is not considered for evaluation.
29-WT Rehabilitation of Husban-Kafrein Irrigation Project	(11.0)	(5.0)	This is a water supply network rehabilitation project, producing no new water and as such the cost concerned is not considered for evaluation.
30-WT KAC Siphon Upgrading	(20.0)	(3.5)	This is a siphon system upgrading project, producing no new water and as such the cost concerned is not considered for evaluation.
31-Storage on Jordan River and Side Wadis	30.0	70.0	This is a water development project and as such both the water to be developed and the cost concerned are considered for evaluation.
32-Water Harvesting, Badia Region	15.0	20.3	This is a water development project and as such both the water to be developed and the cost concerned are considered for evaluation.
11-WT Wadi Zarqa Main, Zarqa Springs Project	20.0	15.0	This is a water development project and as such both the water to be developed and the cost concerned are considered for evaluation.
Sub-Total	136.2	274.6	
Total	495.8	1,302.2	
C. Wastewater Treatment Projects			These wastewater treatment/conveyance projects that are listed in the investment programs of MWI are taken up here.
01-WW Upgrading and Expansion of Samra WWTP	63.0	105.0	This is the project to newly treat wastewater and as such the wastewater to be treated and the cost concerned are considered for evaluation.
02-WW South Amman Wastewater Project Phase 1- Stage 2	15.0	70.0	This is the project to newly treat wastewater and as such the wastewater to be treated and the cost concerned are considered for evaluation.
03-WW Aqaba Pre-Treatment Plant and Conveyer	0.0	45.0	This is essentially a new wastewater conveyance project and as such the cost concerned is considered for evaluation.
04-WW Miscellaneous Small Projects	0.0	44.0	This is essentially a new wastewater conveyance project and as such the cost concerned is considered for evaluation.
05-WW Irbid Stage 1	8.0	43.0	This is the project to newly treat wastewater and as such the wastewater to be treated and the cost concerned are considered for evaluation.
06-WW Jordan Valley Sanitation - North Shunah	3.0	30.0	This is the project to newly treat wastewater and as such the wastewater to be treated and the cost concerned are considered for evaluation.
07-WW Irbid Stage II	6.0	48.0	This is the project to newly treat wastewater and as such the wastewater to be treated and the cost concerned are considered for evaluation.
08-WW Ongoing Rehabilitation Various Cities	5.0	30.0	This is the project to newly treat wastewater and as such the wastewater to be treated and the cost concerned are considered for evaluation.
09-WW Mazar, Muta and Aldebaraniya Wastewater Projects	2.0	28.7	This is the project to newly treat wastewater and as such the wastewater to be treated and the cost concerned are considered for evaluation.
10-WW Aqaba Wastewater Project	5.0	12.0	This is the project to newly treat wastewater and as such the wastewater to be treated and the cost concerned are considered for evaluation.
11-WW Nahr and Adjacent Areas Wastewater Project	2.0	18.0	This is the project to newly treat wastewater and as such the wastewater to be treated and the cost concerned are considered for evaluation.
12-WW Wadi Mousa Wastewater Project	2.0	20.0	This is the project to newly treat wastewater and as such the wastewater to be treated and the cost concerned are considered for evaluation.
13-WW Community Infrastructure Wastewater Project	1.0	10.0	This is the project to newly treat wastewater and as such the wastewater to be treated and the cost concerned are considered for evaluation.
14-WW Saleeb Wastewater System	1.0	10.0	This is the project to newly treat wastewater and as such the wastewater to be treated and the cost concerned are considered for evaluation.
15-WW Upgrading Kufranja and Ajlun WWTP	2.0	12.0	This is the project to newly treat wastewater and as such the wastewater to be treated and the cost concerned are considered for evaluation.
16-WW South Amman Wastewater Project Phase 1 - Jiza/Talbiya	2.0	11.0	This is the project to newly treat wastewater and as such the wastewater to be treated and the cost concerned are considered for evaluation.
17-WW Dead Sea Wastewater Infrastructure	1.0	6.0	This is the project to newly treat wastewater and as such the wastewater to be treated and the cost concerned are considered for evaluation.
18-WW Madaba WWTP Upgrade and Expansion	1.0	6.0	This is the project to newly treat wastewater and as such the wastewater to be treated and the cost concerned are considered for evaluation.
19-WW Upgrading Ma'an WWTP	1.5	6.0	This is the project to newly treat wastewater and as such the wastewater to be treated and the cost concerned are considered for evaluation.
20-WW Upgrading Tafileh WWTP	1.5	6.0	This is the project to newly treat wastewater and as such the wastewater to be treated and the cost concerned are considered for evaluation.
21-WW Upgrading and Expansion of Karak WWTP	6.0	23.0	This is the project to newly treat wastewater and as such the wastewater to be treated and the cost concerned are considered for evaluation.
22-WW Upgrading Mafrag WWTP	1.5	5.5	This is the project to newly treat wastewater and as such the wastewater to be treated and the cost concerned are considered for evaluation.
23-WW Ramtha WWTP Upgrade & Expansion	1.0	6.0	This is the project to newly treat wastewater and as such the wastewater to be treated and the cost concerned are considered for evaluation.
24-WW Abu-Nuier WWTP Upgrade & Expansion	2.0	3.0	This is the project to newly treat wastewater and as such the wastewater to be treated and the cost concerned are considered for evaluation.
25-WT Jordan Valley Community Waste Management Project	1.0	2.0	This is the project to newly treat wastewater and as such the wastewater to be treated and the cost concerned are considered for evaluation.
Total	133.5	600.2	

Table 8.1.5-2 Annual Cost Scenario

Item	Additional Water (MCM)	O & M Cost (\$M, M,L.b)	Water Allocation (%, M,L.b)	Total Cost (JD mil)	Completed	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	
A. Technical & Private Sector Management																											
01-TF Water Feasibility, Design and Assessment Studies	0.0			(34.0)	(2.0)	(3.0)	(3.0)	(3.0)	(3.0)	(3.0)	(3.0)	(3.0)	(3.0)	(3.0)	(3.0)	(3.0)	(3.0)	(3.0)	(3.0)	(3.0)	(3.0)	(3.0)	(3.0)	(3.0)	(3.0)		
02-TF Jordan Water and Wastewater Management Contract	0.0	9%	90,10,8	(23.0)	(1.6)	(5.3)	(5.3)	(5.3)	(5.3)	(1.4)	(1.4)	(1.4)	(1.4)	(1.4)	(1.4)	(1.4)	(1.4)	(1.4)	(1.4)	(1.4)	(1.4)	(1.4)	(1.4)	(1.4)	(1.4)		
03-TF The Governance Support Sector (G)	0.0			(9.2)	(0.5)	(0.4)	(0.5)	(0.5)																			
04-TF Planning and Management Unit (PMU)	0.0			(6.0)		(1.0)	(1.0)	(1.0)																			
Total	0.0			8.0	8.0	0.8	0.0	0.0	0.0	0.0	8.0	0.8	0.8	0.0	0.0	0.0	8.0	0.8	0.8	0.0	0.0	0.0	8.0	0.0	0.8	0.0	
B. Water Development Projects																											
(i) Municipal Water																											
01-WT Das Anman Water Company	100.0	2%	90,10,8	427.5		20.0	65.0	90.0	90.0	98.0	83.5	31.9	31.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	
02-WT Capital Investment Program	18.0	2%	90,10,8	(150.0)	(4.0)	(21.9)	(31.0)	(31.0)	(31.0)	(4.5)	(4.5)	(4.5)	(4.5)	(4.5)	(4.5)	(4.5)	(4.5)	(4.5)	(4.5)	(4.5)	(4.5)	(4.5)	(4.5)	(4.5)	(4.5)		
03-WT Rehabilitation of Social Projects - Network and Supply Sys.	(4.3)	2%	90,10,8	(25.0)							(5.0)	(5.0)	(5.0)	(5.0)	(5.0)	(5.0)	(5.0)	(5.0)	(5.0)	(5.0)	(5.0)	(5.0)	(5.0)	(5.0)	(5.0)	(5.0)	
04-WT Desalination Conveyer in Urban Jordan (20+18 MCM)	60.0	1%	90,10,8	188.0							20.0	40.0	40.0	10.0	10.0	18.0	30.0	30.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	
05-WT Al-Muhala Des Water Supply Project 1st Mil	(25.0)	2%	90,10,8	27.0								5.0	10.0	12.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
06-WT Harkat and Eafan Desalination Plant	30.0		90,10,8	56.2							18.2	18.2	18.2	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	
07-WT Dar Aila - 2nd Aila II	(45.0)	12%	90,10,8	81.0		23.0	35.0	30.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0		
08-WT On-going Rehabilitation - Daraa Governorate	(23.0)	3%	90,10,8	(25.0)	(20.0)	(6.0)	(9.0)	(1.0)	(1.0)	(1.0)	(1.0)	(1.0)	(1.0)	(1.0)	(1.0)	(1.0)	(1.0)	(1.0)	(1.0)	(1.0)	(1.0)	(1.0)	(1.0)	(1.0)	(1.0)		
09-WT Wadi Al Arab - Irbid Municipal Water Supply	(25.0)	2%	90,10,8	(27.0)							(14.0)	(15.0)	(15.0)	(1.0)	(1.0)	(1.0)	(1.0)	(1.0)	(1.0)	(1.0)	(1.0)	(1.0)	(1.0)	(1.0)	(1.0)	(1.0)	
10-WT Tabbagat Fahl - Irbid	(4.3)	(3%)	90,10,8	11.0	11.5	3.5	3.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
11-WT Desalination at Aqaba	15.0		87,35,8	12.1							6.8	6.8	6.8	6.8	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5		
12-WT Deep Groundwater Investigation	5.0	2%	90,10,8	17.0		1.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	
13-WT Lagoon Walls	11.0	3%	75,25,8	18.0		4.0	6.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	
14-WT Canadian Water Supply Project	10.0	3%	90,10,8	18.0		4.0	6.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	
15-WT Dead Sea Water Treatment Plant	(15.0)	3%	90,10,8	18.0							2.0	4.0	4.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	
16-WT Wadi Naseer Water Supply	6.0	2%	100,0,8	8.0	4.5	4.5	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	
17-WT Community Infrastructure Project	4.0+(2.0)	3%	90,0,8	8.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	
18-WT Das Anman Water Company Branches Wadi Nadaha	(29.0)	6%	90,34,8	8.0																							
19-Upgrading of Inter-Governorate Transfer Line Phase 1	(18.0)		100,0,8	(11.0)																							
20-Upgrading of Inter-Governorate Transfer Line Phase 2	(22.0)		100,0,8	(10.0)																							
21-WT Wadi Darra	10.0	0.3%	54,5,41	751.0		15.0	25.0	35.0	35.0	33.8	9.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5		
22-WT Wadi Darra	10.0	1%	38,0,42	22.0	5.0	5.0	5.0	7.0	8.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2		
23-WT Total	359.0			1,027.6	23.0	64.0	113.1	146.9	166.2	169.5	116.5	121.4	84.1	89.1	63.9	31.4	65.4	65.6	65.7	65.9	55.3	55.4	55.5	55.6	56.7		

Q) Irrigation Water																							
21-WT High West Concrete and Sanitaires Glass Infrastructure	€4.5	1%	8,75,45	67.3		15.0	20.0	10.0	9.2	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7		
24-WT High East	25.0	1%	8,54,48	47.0	10.0	12.0	15.0	7.0	8.5	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3		
25-WT Jordan Rift Valley Improvement Project	0.0			35.0				10.0	10.0	10.0	10.0												
26-WT Tawfiq Dam	15.6	1%	8,62,38	21.7		7.0	10.0	7.7	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2		
27-WT Isaili Dam (Im Barak, Karak, Mafraq)	11.0	1%	8,27,73	13.0				2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0		
28-WT Wadi Araba Development Project	3.6	2%	10,0,98	12.0				4.0	4.0	4.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2		
29-WT Faridah Dam	6.0	1%	8,0,108	8.4				2.1	1.6	2.5	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		
30-WT Rehabilitation of Southern River Irrigation Stage I	645.0	2%	8,0,108	29.0				14.0	15.0	10.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2		
31-WT Rehabilitation of Hulaq-Et-Sass Irrigation Project	11.0	2%	8,0,108	25.0				(2.0)	(2.0)	(2.0)	(2.0)	(2.0)	(2.0)	(2.0)	(2.0)	(2.0)	(2.0)	(2.0)	(2.0)	(2.0)	(2.0)		
32-WT KAC System Upgrading	20.0	2%	8,0,108	2.5				(2.0)	(2.0)	(2.0)	(2.0)	(2.0)	(2.0)	(2.0)	(2.0)	(2.0)	(2.0)	(2.0)	(2.0)	(2.0)	(2.0)		
33-Storage in Jordan River and Side Wadis	30.0	1%	8,0,108	70.0																17.5	28.0	24.5	
34-Water Harvesting, Baita Region	15.0	2%	5,8,95	20.3															1.8	1.8	1.8	1.8	
35-WT Wadi Zarqa Main, Zara Spring Project	20.0	1%	8,20,88	11.0				3.0	9.0	3.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2		
Sub-Trial	156.3			274.6	10.0	15.0	40.0	54.1	39.0	19.5	6.3	6.3	5.7	5.7	3.8	3.8	3.8	21.3	31.8	28.2	31		
Total	492.8			1,302.2	33.0	79.0	155.1	203.0	283.2	179.8	122.7	127.7	89.7	94.7	72.7	23.4	62.2	69.4	87.0	97.7	83.6		
C) Wastewater Treatment Projects																							
01-WW Upgrading and Expansion of Suraq WWTP	63.0	2%	8,0,108	305.0				5.0	23.0	31.0	25.0	20.0	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	
02-WW South Amman Wastewater Project Phase I Stage 2	15.0	1%	8,0,108	20.0							5.0	5.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	
03-WW An Gzaib Pre-Treatment Plant and Conveyance	0.0	0%	8,0,108	45.0	27.0	16.0	2.0	1.0	1.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
04-WW Mousaieen Beach Project	0.0	1%	8,0,108	44.0				4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
05-WW Mafraq Stage I	8.0	1%	8,0,108	43.0	34.0	9.0	0.4	1.4	1.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	
06-WW Jordan Valley Irrigation - North Shunah	3.0	1%	8,0,108	30.0							5.0	10.0	10.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	
07-WW Mafraq Stage II	6.0	1%	8,0,108	48.0				2.0	1.0	1.0	10.0	10.0	8.0	0.5	0.5	1.5	0.5	0.5	0.5	0.5	1.5	0.5	
08-WW Gizaqah Balatah Various Cases	5.0	1%	8,0,108	30.0	30.0	10.0	0.3	1.3	1.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
09-WW Major, Mafraq and Al-Karak Wastewater Project	2.0	(1%)	8,0,108	28.7														9.6	9.6	9.6	8.2	9.3	
10-WW Aqaba Wastewater Project	5.0	1%	8,0,108	12.0							3.0	5.0	4.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
11-WW Mafraq and Ajloun Areas Wastewater Project	2.0	1%	8,0,108	18.0							6.0	6.0	6.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
12-WW Madaba Wastewater Project	2.0	1%	8,0,108	20.0	13.0	7.0	0.2	1.2	1.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
13-WW Community Infrastructure Wastewater Project	1.0	1%	8,0,108	10.0				2.0	3.0	3.0	2.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
14-WW Balqa Wastewater Systems	1.0	1%	8,0,108	10.0							2.0	2.0	2.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
15-WW Upgrading Yabur and Zalab WWTP	2.0	(1%)	8,0,108	12.0							3.0	6.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
16-WW South Amman Wastewater Project Phase 1 - Jizzi/Talheya	2.0	1%	8,0,108	11.0				5.0	4.0	4.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
17-WW Dead Sea Wastewater Infrastructure	1.0	1%	8,0,108	6.0				2.0	2.0	1.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
18-WW Mafraq WWTP Upgrade and Expansion	1.0	1%	8,0,108	6.0				1.0	2.0	2.0	1.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
19-WW Upgrading Wadiqah Zalab WWTP	1.5	1%	8,0,108	6.0						1.6	1.4	3.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
20-WW Upgrading Talia WWTP	1.5	1%	8,0,108	6.0						1.6	2.4	3.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
21-WW Upgrading and Expansion of Karak WWTP	6.0	1%	8,0,108	23.0				1.0	4.0	4.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
22-WW Upgrading Mafraq WWTP	1.5	1%	8,0,108	5.5				1.4	1.8	1.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
23-WW Rusaifa WWTP Upgrade & Expansion	1.0	1%	8,0,108	6.0				3.0	2.0	1.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
24-WW Abu Ghosh WWTP Upgrade & Expansion	2.0	1%	8,0,108	3.0									1.0	1.0	1.0	1.0	0.8	0.8	0.8	0.0	0.0	0.0	0.0
25-WT Jordan Valley Community Waste Management Project	1.0	1%	8,0,108	2.0						0.5	1.5	1.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Total	133.5			600.2	24.0	47.0	34.0	72.0	84.0	67.4	54.9	63.9	54.4	47.6	12.3	13.3	9.8	9.8	9.8	8.5	9.8	9.8	