

IRAQI MINISTRIES
of
Water Resources Municipalities and
 Public Works
Environment

NEW EDEN MASTER PLAN
FOR INTEGRATED WATER RESOURCES
MANAGEMENT IN THE MARSHLANDS AREA

Volume I

Overview of present conditions and current
use of the water in the marshlands area

Book 2

Water and sanitation

Annex B

Water and sanitation survey forms

Prepared in cooperation with

The Italian Ministry for the Environment and Territory and Free Iraq Foundation

ITALY - IRAQ

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FORM A: TOWN/VILLAGE/SETTLEMENT

Town/Village/Settlement ID code Gov. District *Name*

Coordinate x ° ' " *Coordinate y* ° ' "

Existed prior to Marsh draining? YES NO

Distance to closest river/canal km *Name of river/canal*

Resident population n° *Seasonal residents* n°

Urbanized area ha

Industrial activities 1 = very significant
2 = significant
3 = not significant

Agricultural activities 1 = very significant
2 = significant
3 = not significant

Prevailing industrial productions

Prevailing agricultural productions

Number of water buffalos n°

Main activity for livelihood *Fishery* % *Livestock* %

Agriculture % *Other* %

Main handicrafts activities

PUBLIC SERVICES

Education

Kindergartens n° Total children

Primary schools n° Total students

Intermediate schools n° Total students

Secondary schools n° Total students

Universities n° Total students

Medical Services

Hospitals n° Total beds

Medical centers n°

Other Services

Military barracks n° Total soldiers

Hotel/resorts n° Total beds

Connection to power grid YES NO

Current power availability 1=good
2= acceptable
3=poor

NOTES

Name of surveyor

FORM B: SERVICES PROVIDED PER TOWN/VILLAGE

Gov. District Name
 Town/Village/Settlement ID code

WATER SUPPLY NETWORK

	Public supply	Tank/reservoir	Marsh	Canal	Water truck
Drinking water source	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Service water source	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Other purposes (bathing ecc..) water source

	Potable water				Raw water			
Service coverage by water supply network	<input type="text"/> %		<input type="text"/> %					
Boosting stations	<input type="text"/> n°		<input type="text"/> n°					
	Trunk main	Supply network	Trunk main	Supply network				
Length	<input type="text"/> km	<input type="text"/> km	<input type="text"/> km	<input type="text"/> km				
Average age	<= 10 years	<input type="text"/> %	<input type="text"/> %	<input type="text"/> %				
	>10 and <=30 years	<input type="text"/> %	<input type="text"/> %	<input type="text"/> %				
	> 30 years	<input type="text"/> %	<input type="text"/> %	<input type="text"/> %				
Prevailing materials	Type*	%	Type*	%				
	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>				
	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>				
	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>				
Operational performance	<input type="text"/>	1=good 2=acceptable 3=poor	<input type="text"/>	<input type="text"/>				
	<input type="text"/>		<input type="text"/>	<input type="text"/>				
	<input type="text"/>		<input type="text"/>	<input type="text"/>				
Current state	<input type="text"/>		<input type="text"/>	<input type="text"/>				
Reservoir/Tank volume	<input type="text"/>	m³	<input type="text"/>	m³				
Service coverage by reservoir/tank	<input type="text"/>	%	<input type="text"/>	%				

WATER TREATMENT PLANT

Name <input type="text"/>	Name <input type="text"/>
<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>

NOTES

FORM B: SERVICES PROVIDED PER TOWN/VILLAGE

SEWER NETWORK

Wastewater disposed to Public sewer Soil Marsh/Canal Underground

Service coverage % % %
Waste water sewer Combined sewer Storm water sewer

Length of network km km km

Pumping stations n° n° n°

Average age
 <= 10 years %
 >10 and <=30 years %
 > 30 years %

Prevailing materials * 1= Concrete
 2= Ductile iron
 3= Cast Iron
 4= Plastic - PE, HDPE
 5= Plastic - PVC
 6= Plastic - PFRV
 7= Plastic - Other
 8= Other

Type*	%	Notes
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>

Operational performance 1=good
 2=acceptable
 3=poor

Current state

Sewer connected to wastewater treatment system YES NO

Untreated wastewater from sewer network disposed to Soil Marsh/Canal Underground

WASTEWATER TREATMENT PLANTS

Name	Name
<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>

NOTES

FORM C: DRINKING WATER TREATMENT PLANTS

Town/Village/Settlement Gov. District *Name of settlement*

Plant Name

Coordinate x ° ' " *Coordinate y* ° ' "

PLANT

This plant supplies more than one Town/Village/Settlement? YES NO

Conventional treatment facility YES NO

Compact unit YES NO

Reverse osmosis plant YES NO

NOTES

CHARACTERISTICS

Capacity m³/h

Clarification / flocculation YES NO *Disinfection* YES NO

Filtration YES NO *Sludge treatment* YES NO

Desalination YES NO

CURRENT STATE

Structures 1=good
2=acceptable
3=poor

Machinery 4=not built
5=under construction

Operational performance 1=good
2=acceptable
3=poor
4=not working

Notes

Notes

DRINKING WATER SOURCE

Town/Village/Settlement Gov. District *Name of settlement*

Name of source

Coordinate x ° ' " *Coordinate y* ° ' "

Type of source 1=surface water uptake
2=well or spring water

Salinity content mg/l

Length of supply main km

NOTES

Name of surveyor

FORM E: URBAN PLANNING

CODE

Governorate

Area ID code

Name

Districts/Sub-Districts completely included in the area

DEMOGRAPHY

Resident population increase

 n°

Built-up area increase

 ha

Refugees living in the area

 n°

Refugees coming from other areas

 n°

Towns/settlements to be developed

SOCIO-ECONOMY

Economic activities increase

Industrial

1 = very significant
2 = significant
3 = not significant

Agricultural

 ha

Fishery

 ha

Productions to be developed

Towns/settlements interested by activity increase

Main handcraft activities to be developed

Water buffalos increase

 n°

Name of surveyor

FORM E: URBAN PLANNING

PUBLIC SERVICES

Educational services increase

New Kindergartens n° Tot. childr.

New Primary schools n° Tot. stud.

New Intermediate schools n° Tot. stud.

New Secondary schools n° Tot. stud.

New Universities n° Tot. stud.

Medical Services increase

New Hospitals n° Tot. beds

New Medical centers n°

Other Services increase

New Military barracks n° Tot. soldiers

New Hotel/resorts n° Tot. beds

Other (specify)

Service	N°	Total users
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>

Transportation

Paved roads km *Un-paved roads* km

Railways km *Airport* YES NO

Solid waste treatment facilities *Landfill* YES NO n°

Incinerator YES NO n°

Composting facility YES NO

Other (specify) YES NO

NOTES

Name of surveyor