



## Wastewater Management Sustainability Project (P172578)

MIDDLE EAST AND NORTH AFRICA | West Bank and Gaza | Water Global Practice |  
Special Financing | Investment Project Financing | FY 2020 | Seq No: 7 | ARCHIVED on 13-Sep-2023 | ISR57462 |

Implementing Agencies: Palestinian Ministry of Finance, Palestinian Water Authority

### Key Dates

#### Key Project Dates

Bank Approval Date: 10-Jun-2020

Effectiveness Date: 22-Sep-2020

Planned Mid Term Review Date: 04-Jul-2022

Actual Mid-Term Review Date: 07-Sep-2022

Original Closing Date: 30-Jun-2024

Revised Closing Date: 30-Jun-2024

### Project Development Objectives

Project Development Objective (from Project Appraisal Document)

The Project Development Objectives are to: (i) support the continuation of wastewater treatment services in North Gaza; and (ii) strengthen the capacity of the water institutions to efficiently manage wastewater services.

Has the Project Development Objective been changed since Board Approval of the Project Objective?

No

### Components Table

Name

Component 1: Support the continued operation of the NGWMF:(Cost \$7.10 M)

Component 2: Rehabilitation and upgrade of the NGWMF to improve efficiency, build resiliency and address emergencies:(Cost \$3.40 M)

Component 3: Capacity building for sustainability of wastewater services:(Cost \$2.20 M)

Component 4: Project management and implementation support:(Cost \$1.00 M)

Component 5: Contingency Emergency Response Component

### Overall Ratings

Name	Previous Rating	Current Rating
Progress towards achievement of PDO	<span style="color: orange;">■</span> Moderately Satisfactory	<span style="color: red;">■</span> Moderately Unsatisfactory
Overall Implementation Progress (IP)	<span style="color: red;">■</span> Moderately Unsatisfactory	<span style="color: red;">■</span> Unsatisfactory
Overall Risk Rating	<span style="color: orange;">■</span> Substantial	<span style="color: orange;">■</span> Substantial

### Implementation Status and Key Decisions

The North Gaza Wastewater Management Facilities have been continuously performing according to the required standards. However, the implementation is affected by persistent delays in key activities, which are reflected in the Unsatisfactory Implementation rating and the Moderately Unsatisfactory PDO rating. Despite the close collaboration between the PWA and the World Bank to expedite implementation, there is a risk that project activities will not be completed by the closing date.



**Risks**

**Systematic Operations Risk-rating Tool**

Risk Category	Rating at Approval	Previous Rating	Current Rating
Political and Governance	High	Substantial	Substantial
Macroeconomic	High	Moderate	Moderate
Sector Strategies and Policies	Substantial	Moderate	Moderate
Technical Design of Project or Program	Substantial	Moderate	Moderate
Institutional Capacity for Implementation and Sustainability	High	Substantial	Substantial
Fiduciary	High	High	High
Environment and Social	Substantial	High	High
Stakeholders	Moderate	Low	Low
Other	Moderate	Moderate	Moderate
Overall	High	Substantial	Substantial

**Results**

**PDO Indicators by Objectives / Outcomes**

Maintain the continuous operation of the NGWMF				
▶ Percentage of quality control tests that comply with applicable environmental standards for WWTPs effluent discharges (Percentage, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	80.00	90.00	90.00	90.00
Date	16-Feb-2020	22-May-2023	27-Jul-2023	21-May-2024
Comments:	This indicator refers to the percentage of quality control tests that comply with applicable environmental standards for WWTPs effluent discharge and reuse in irrigation as set by the Palestinian environmental standards. The target is set at 90% which is considered good practice. The intermediate and end targets are the same (90%) because if this is maintained at that rate for four years it means that the NGWMF is operating adequately and continuously.			
▶ Number of people benefiting from improved sanitation services (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	368,000.00	368,000.00	368,000.00	368,000.00



Date	13-Feb-2020	22-May-2023	27-Jul-2023	21-May-2024
Comments:	This indicator covers both the population that is connected to a sewer system and is directly benefiting from the NGWMF treatment services, but also the total population of the four North Gaza municipalities which are benefiting from improved health and environmental conditions due to the continuous operations of the NGWMF. According to the latest census the total population of the four north Gaza municipalities is 368000 inhabitants. If this number is kept constant during the four years of implementation it means that the NGWMF is operating adequately and continuously.			
☐ Number of female beneficiaries (Number, Custom Breakdown)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	181,000.00	181,000.00	181,000.00	181,000.00
Date	13-Mar-2020	22-May-2023	27-Jul-2023	21-May-2024

Improve technical capacity of wastewater management services in North Gaza				
▶ Percentage of the monthly volume of wastewater arriving at the TPS that is treated (Percentage, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	70.00	88.00	66.00	90.00
Date	17-Feb-2020	22-May-2023	27-Jul-2023	21-May-2024
Comments:	This indicator measures the ability of the EQ pond and emergency overflow pond to retain excess wastewater safely to then pump it to the WWTP, as well as the integrated management of both the TPS and WWTP.			

Improve the institutional capacity of wastewater management services in North Gaza				
▶ NGWMF O&M function integrated (or mainstreamed) into the CMWU (Yes/No, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	No	No	Yes
Date	13-Feb-2020	22-May-2023	27-Jul-2023	21-May-2024
Comments:	CMWU has signed the agreement to take over the O&M of the NGEST facilities and is already involved at the technical level. The project will continue to support the gradual transition once the fiduciary activities are met.			

Improve financial capacity of wastewater management services in North Gaza				
▶ Percentage of the O&M costs that are covered by municipal transfers to the CMWU (Percentage, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	20.00



Date	26-Mar-2020	22-May-2023	27-Jul-2023	21-May-2024
Comments:	As a baseline, municipalities served by the NGWMF are currently not financially covering (nor partially) the O&M costs of the NGWMF. As a result of the service agreements to be facilitated through component 3, municipalities will gradually start contributing to the overall O&M costs of the NGWMF (10 percent in year 2, 15 percent in year 3 and 20 percent in year 4). Setting up the mechanism for municipal contributions is already an important result in itself and sets the basis for partial cost-recovery, which in the medium to longer term strengthens the financial capacity of the sector. The municipal contributions could be deposited in a special account (escrow account) during the project duration and will become available to the CMWU to finance the O&M of the NGWMF, once the O&M responsibilities are transferred to them (to be further assessed during implementation).			
<b>► Average O&amp;M costs of the NGWMF per month in USD (Amount(USD), Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	277,000.00	126,400.00	126,400.00	136,000.00
Date	20-Feb-2020	22-May-2023	27-Jul-2023	21-May-2024
Comments:	This is a proxy measure of the reduction in O&M costs referenced at the baseline year, taking into account unit costs of all inputs. The indicator reflects efficiency gains due to the biogas generator beginning operation in the second year, PV panels starting operation in the fourth year covering all the NGWMF electricity needs and any efficiency gains due to better operational practices.			

### Intermediate Results Indicators by Components

<b>Component 1: Support the continuous operation of the NGWMF</b>				
<b>► O&amp;M team is staffed and operational (Percentage, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	95.00	95.00	100.00
Date	13-Feb-2020	22-May-2023	27-Jul-2023	21-May-2024
Comments:	Key positions in the O&M team are filled and process is ongoing to hire the remaining positions.			
<b>► Percentage of sludge produced monthly that is adequately disposed (Percentage, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	95.00	95.00	98.00
Date	20-Feb-2020	22-May-2023	27-Jul-2023	21-May-2024
Comments:	Amount of digested sludge (with a dry content of maximum 18 percent) that is safely transported from the WWTP and safely disposed in a landfill compared to the total amount of sludge produced. The ability to treat, collect, transport and dispose the produced sludge is a measure of the continuous operation of the NGWMF.			

<b>Component 2: Rehabilitation and upgrade of the NGWMF for efficiency, resiliency and emergencies</b>				
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►EQ and emergency pond system operational (Percentage, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	100.00
Date	13-Feb-2020	22-May-2023	27-Jul-2023	01-Apr-2023
Comments:	This activity has been delayed as it was decided that this is added to the direct contract to be done by a supervision consultancy . PWA has prepared technical justification report for the needs and it has been sent to the Cabinet of Ministers on 16th August 2021. It is still waiting the endorsement after which the CTD will carry out the remaining procurement process by issuing the RFP to get the technical and financial proposals , evaluation, and contract negotiations to conclude contract procurement.			
►Rehabilitation works for the NGWTF have been completed (Percentage, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	20.00	20.00	100.00
Date	11-Mar-2020	22-May-2023	27-Jul-2023	21-May-2024
Comments:	Additional critical rehabilitation has performed since last ISR including maintenance on the submersible pumps at random lakes, repair works of the existing meters installed at the pressure line were completed, in addition to the rehabilitation works that already started for the leveling of random lakes			

Component 3: Capacity building for sustainability of wastewater services				
►CMWU's business plan developed (Yes/No, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	No	No	Yes
Date	13-Feb-2020	22-May-2023	27-Jul-2023	21-May-2024
Comments:	ToR has already been prepared for tendering			
►Technical assistance with a recognized expert partner has been signed and implemented (Text, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No arrangement	Terms of Reference have been finalized	Terms of Reference have been finalized	Implemented
Date	13-Feb-2020	22-May-2023	27-Jul-2023	21-May-2024
Comments:	Technical assistance with a recognized expert partner, this could be through a twinning agreement with a recognized utility, has been signed and implemented as specified in the terms of reference approved by the Bank. This will be supported through the technical assistance foreseen in the project.			
►Number of contract agreements signed between CMWU and the municipalities (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target



Value	0.00	0.00	0.00	4.00
Date	13-Feb-2020	22-May-2023	27-Jul-2023	21-May-2024
Comments:	Process is on-going with support of consultancy service to facilitate the discussion between CMWU and the four municipalities.			
<b>► Number of beneficiary workshops conducted to raise awareness of the NGWMF operations (Number, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	3.00
Date	20-Feb-2020	22-May-2023	27-Jul-2023	21-May-2024
Comments:	Number of workshops conducted to raise awareness of the NGWMF operations, with a focus on increasing willingness to pay for the services. A workshop only counts towards this indicator if a minimum number of 30 people participate. This is a non-cumulative target.			

Component 4. Project management and implementation support

**► Annual satisfaction surveys published and discussed in participatory manner (Number, Custom)**

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	1.00
Date	16-Feb-2020	22-May-2023	27-Jul-2023	21-May-2024
Comments:	Annual satisfaction surveys published and discussed in participatory manner every year. The indicator is non-cumulative. The indicator does not look at the actual satisfaction level of the services because this is tightly intertwined with sewerage services provided by the municipalities and beyond the project's control. It is difficult to separate citizen satisfaction only with wastewater services. However, the process of discussing the results of the satisfaction surveys and engaging with the community in this way is an important result for citizen engagement.			

**► Grievances related to delivery of project benefits that are addressed (Percentage, Custom)**

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	90.00
Date	17-Feb-2020	22-May-2023	27-Jul-2023	21-May-2024
Comments:	Grievances registered related to delivery of project benefits are addressed			

**► Increase in received applications from female applicants to the positions opened under the Project (Percentage, Custom)**

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	30.00	30.00	20.00
Date	17-Feb-2020	22-May-2023	27-Jul-2023	21-May-2024



Comments:	This indicator measures the efforts of the PWA to encourage applications of female professionals to the open positions for the O&M team of the NGWMF (about 10 open positions). As part of the hiring process for the O&M team and PSMU, the PWA will perform outreach activities to female professional networks targeted at encouraging female professionals to apply to open positions under the Project via specific workshops and/or visits. This indicator is only applicable to the first and second year where hiring will take place.			
	☐ Number of female professionals interviewed (Percentage, Custom Supplement)			
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	30.00	30.00	30.00

**Overall Comments**

Most of the PDO indicators are contingent on the operation of the NGWWTP and have been consistently met with support from the project. Nevertheless, the long-term financial sustainability of the plant depends on the handover of the plant's operation to the CMWU and the successful negotiation of service agreements with the municipalities. These were required at early stages of implementation, but as of July 2023 are not yet completed and at serious risk of slipping beyond the project closing date.

**Performance-Based Conditions**

**Data on Financial Performance**

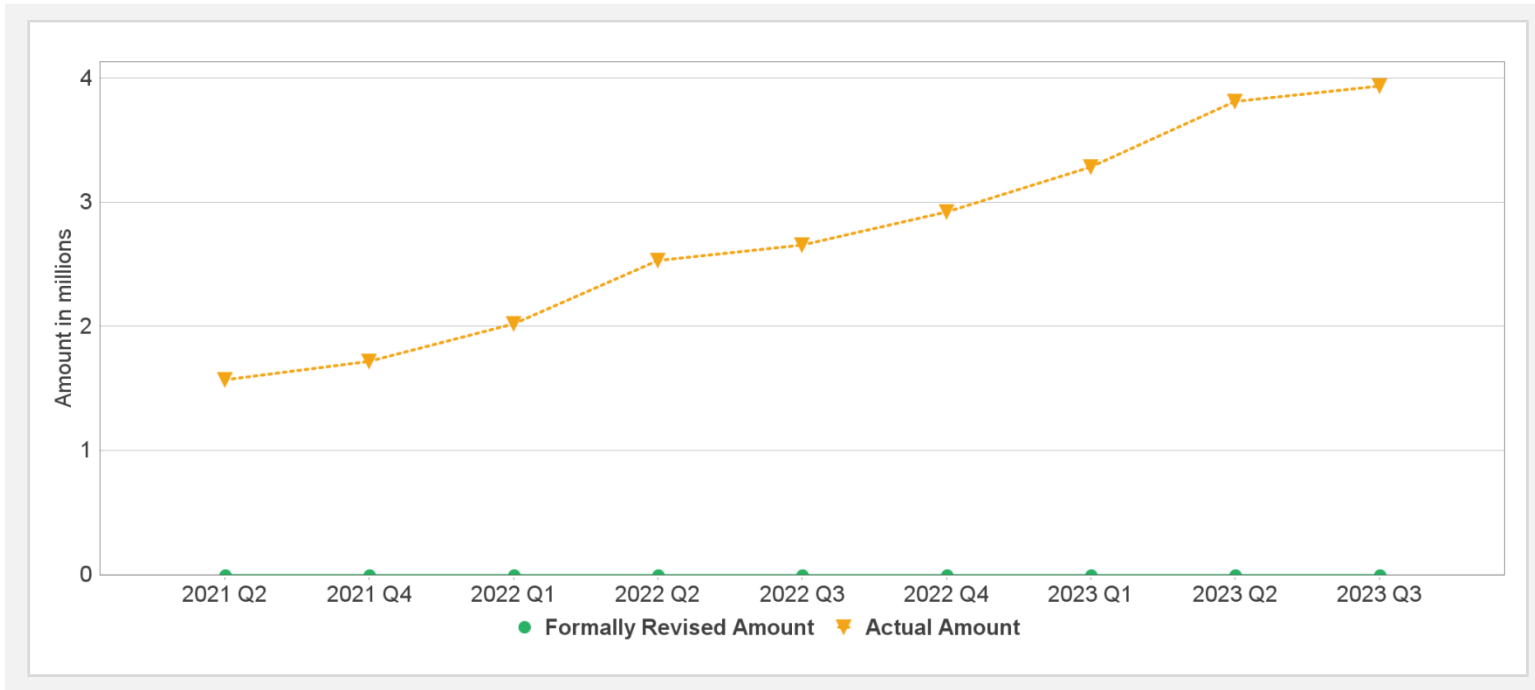
**Disbursements (by loan)**

Project	Loan/Credit/TF	Status	Currency	Original	Revised	Cancelled	Disbursed	Undisbursed	% Disbursed
P172578	TF-B2694	Effective	USD	3.70	3.70	0.00	1.15	2.55	<div style="width: 31%; height: 10px; background-color: #28a745; border: 1px solid #ccc;"></div> 31%
P172578	TF-B2735	Effective	USD	10.00	10.00	0.00	2.79	7.21	<div style="width: 28%; height: 10px; background-color: #28a745; border: 1px solid #ccc;"></div> 28%

**Key Dates (by loan)**

Project	Loan/Credit/TF	Status	Approval Date	Signing Date	Effectiveness Date	Orig. Closing Date	Rev. Closing Date
P172578	TF-B2694	Effective	10-Jun-2020	02-Sep-2020	22-Sep-2020	30-Jun-2024	30-Jun-2024
P172578	TF-B2735	Effective	10-Jun-2020	02-Sep-2020	22-Sep-2020	30-Jun-2024	30-Jun-2024

**Cumulative Disbursements**



### Restructuring History

There has been no restructuring to date.

### Related Project(s)

There are no related projects.