

**GLOBAL WATER PARTNERSHIP
(GWP)**

SUPPORT TO WATER RESOURCES COMMISSION

SUSTAINABLE DEVELOPMENT GOAL 6

**PROGRESS REPORT ON
IMPLEMENTATION OF REVIEW OF TANO AND PRA
BASINS INTEGRATED WATER RESOURCES
MANAGEMENT PLANS IN GHANA**

Draft Report

Prepared by: Maxwell Boateng-Gyimah

January, 2022

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1. INTRODUCTION

The Water Resources Commission (WRC), in collaboration with the Country Water Partnership - Ghana (CWP-Ghana) is implementing the IWRM Action Plan for Ghana through review of the Integrated Water Resources Management (IWRM) Plans for the Pra and Tano Basins.

The key components of the roadmap included the following:

1. Preliminary review of the existing IWRM Plans.
2. Obtain the relevant data on Pra and Tano basins from the 2021 Population and Housing Census Data undertaken by Ghana Statistical Service (GSS).
3. Re-develop the Pra and Tano Basins Maps, taking into account the newly created districts, demography, land-use/cover change and newly granted water use permits in the basins.
4. Re-run the Water Evaluation and Planning (WEAP) tool for water allocation in the basins.
5. Hold a 3-day residential workshop with teams from the Basins to harmonize perspectives towards finalizing the IWRM Plans.

2. PROGRESS MADE

The WRC/CWP-Ghana team has implemented actions towards review of the Pra and Tano Basins IWRM Plans. This was premised on several (both formal and informal) meetings held to define a roadmap and to consolidate the approach to implement agreed activities. The IWRM Plans have similar structures, thus enabling joint discussions of the related issues.

During the residential meeting at Dodowa, participants held break-out sessions for the respective basins' team, working simultaneously on chapters 3 and 4 of the IWRM Plans. The chapter 3 involved WEAP modelling where the teams organized data into relevant and usable formats. The chapter 4 dealt with the outputs of the Strategic Environmental Assessment (SEA) results obtained from the stakeholder consultations in the basins.

2.1 Assigned tasks to individuals and groups

Preliminary discussions between CWP-Ghana and WRC resulted in defined activities and assigned tasks to the teams and individuals, based on the outline of the existing Plans and the progress made (Table 1). This approach was key to the process, recognizing that WRC made a case to internalize the review of the IWRM Plans, drawing on the staff capacity.

Table 1 Activities, Responsibilities and Progress

Activity/Section/Chapter	Responsible	Progress towards activity
Revise Preamble to IWRM plans	Executive Secretary	Completed
Review Figure 1.1 on institutional framework to reflect current reforms of the sector	Executive Secretary	Completed
Revise Section 1.3 on purpose of the plan	Chief Engineer – Surface Water	Completed
Update Section 1.4 on preparation and structure of the plan to include new activities carried out.	Pra and Tano Basin Officers	Completed
Update Section 2.0 on baseline description	Chief Engineer – Surface Water	Ongoing
Revise write up on section 2.1 on location and physical characteristics to include newly created regions and districts	Pra and Tano Basin Officers	Ongoing. Descriptions of physical characteristics of basins with newly created districts
Section 2.3.1 on demography and settlement patterns should be revised to reflect current status	Pra and Tano Basin Officers	Ongoing. Landuse/cover maps for 3 different time scales of 10 years have been produced.
Revise Table 2.2 on District areas and populations	Chief Engineer – Surface Water	Completed
Revise Sections 2.6 and 2.7 on water quality	Water Quality Expert	Ongoing
Update Section 3.1 on WEAP	Maxwell Boateng-Gyimah/James Aggrey	WEAP Models for Pra and Tano basins completed. Write-ups under review
Update Section 3.2.2. on land use and land cover	Chief Engineer – Surface Water	Maps finalised and incorporated in IWRM Plans.
Revise Sections 4.1 and 4.2 on the consultative processes	Pra and Tano Basin Officers	Completed. SEA results incorporated in IWRM Plans for both basins.
Update Section 5 on objectives and strategic actions	Pra and Tano Basins Officers	Completed
Revise Section 5.2 on Monitoring and regular reviews of the plan.	Executive Secretary, WRC	Completed
Update Section 6 on mechanisms for implementation	Pra and Tano Basins Officers	Completed
Check all references	Pra and Tano Basin Officers	Ongoing

2.2 Preliminary Review of the IWRM Plans for Pra and Tano Basins

This action was carried out at two levels: the first involved consideration of the Plans by the Basins' teams to ascertain the data needs. The WRC staff at the head office, led by the Executive Secretary, provided technical backstopping by further reviewing the work done by the Basins' teams.



Figure 1: Pra and Tano Basins IWRM Plans review session at WRC conference room

Also, the teams gathered and collated available data including demography and water use rates. Two meetings were also held online with the basins' teams to appreciate the challenges encountered, particularly data on demography while defining the way forward.

2.3 Re-develop Tano and Pra Basins Maps

The Centre for Remote Sensing and Geographic Information Services (CERGIS) of University of Ghana submitted the first draft of maps to WRC at the end of October 2021. Subsequently, comments were addressed and the readiness to address further concerns is commendable. Finally, budgetary concerns were addressed. The Maps report is at Annex 1.

2.4 Re-run the WEAP Models for Pra and Tano Basins

The WEAP models for Pra and Tano basins were developed for the initial IWRM Plans. The basins have evolved and new developments need to be incorporated to reflect the current happening in the basins. As a result, all the relevant water users and respective abstraction rates have been incorporated while removing users that are no longer in operation. The result of the model will then feed into the projections to guide decision making on water allocation in the basins. The models set up for Pra and Tano have been reviewed and all relevant inputs completed. Review on the outputs of the models for both basins is ongoing.

2.5 Harmonizing views on data for Pra and Tano IWRM Plans review

The WRC head office, CWP-Ghana, and Basins' teams held a residential meeting from 9th to 11th December 2021 at Forest Hotel, Dodowa towards harmonizing data needed to complete the Pra and Tano Basins IWRM Plans. The meeting afforded clarification of critical issues including demography and water use rates that are integral to the IWRM Plans review process. Further, refinement of existing WEAP models for the respective basins required the active participation of the Basin Officers who are well vexed with the terrain and related activities that impact water resources.

3.0 CONCLUSIONS AND WAY FORWARD

The review of the Pra and Tano Basins IWRM Plans is underway towards producing the draft revised Plans. Provisional Census data have been used to compute figures for the IWRM Plans. The planning stage took into account involvement of Officers in charge of the Basins. However, implementation saw the need to include their assistants as well. As a result, WRC made provision for their participation in the residential meeting at Forest Hotel, Dodowa.

At Dodowa, revision of chapters 1, 5 and 6 of both Pra and Tano Basins IWRM Plans were completed, awaiting completion of the chapters 2, 3, and 4. The responsible technicians are working to complete these chapters by end of January 2022.

ANNEX 1 REPORT ON MAPS FOR THE PRA AND TANO BASINS



Report-Pra_Tano
basin mapsV3.pdf