

**MINISTRY OF SANITATION AND WATER RESOURCES  
COMMUNITY WATER AND SANITATION AGENCY**



**FIRST QUARTER PROGRESS REPORT**

**JANUARY 1 TO MARCH 31, 2019**

**THE CHIEF EXECUTIVE**

**PRIVATE MAIL BAG  
KOTOKA INTERNATIONAL AIRPORT  
ACCRA, GHANA**

Phone: (0302) 983104 / 518401  
E-mail: [info@cwsa.gov.gh](mailto:info@cwsa.gov.gh)  
Website: [www.cwsa.gov.gh](http://www.cwsa.gov.gh)

## TABLE OF CONTENTS

<b>TABLE OF CONTENTS .....</b>	<b>1</b>
<b>LIST OF TABLES .....</b>	<b>VI</b>
<b>1.0 INTRODUCTION.....</b>	<b>1</b>
<b>2.0 PERFORMANCE OF KEY INDICATORS .....</b>	<b>2</b>
<b>2.1 PERFORMANCE OF FINANCIAL AND ECONOMIC INDICATORS .....</b>	<b>2</b>
<b>2.2 PERFORMANCE OF EFFICIENCY AND PRODUCTIVITY INDICATORS .....</b>	<b>2</b>
<b>2.2.1 Water Supply Systems .....</b>	<b>2</b>
<b>2.2.2 Sanitation Indicators.....</b>	<b>3</b>
<b>2.2.3 Community Capacity Building Indicators .....</b>	<b>3</b>
<b>2.3 PERFORMANCE OF DYNAMIC/MANAGEMENT IMPROVEMENT INDICATORS.....</b>	<b>5</b>
<b>3.0 COLLABORATION.....</b>	<b>7</b>
<b>4.0 HUMAN RESOURCES AND GENERAL ADMINISTRATION.....</b>	<b>8</b>
<b>4.1 MANAGEMENT .....</b>	<b>8</b>
<b>4.2 STAFFING.....</b>	<b>8</b>
<b>4.3 TRAINING AND DEVELOPMENT.....</b>	<b>9</b>
<b>5.0 PARTICIPATION IN MANAGEMENT OF PIPED WATER SYSTEMS .....</b>	<b>10</b>
<b>5.1 ASHANTI REGION .....</b>	<b>10</b>
<b>5.1.1 Maintenance and Rehabilitation Works .....</b>	<b>10</b>
<b>5.1.2 Community Education/Sensitisation .....</b>	<b>10</b>
<b>5.1.3 Engagement of Auxiliary Staff.....</b>	<b>10</b>

5.1.4	Meetings with Stakeholders and WSMS .....	10
<b>5.2</b>	<b>BONO, AHAFO AND BONO EAST REGIONS .....</b>	<b>11</b>
5.2.1	Stakeholders' Conference on Rural Water Sub-Sector Policy Reforms .....	11
5.2.2	Management of Goaso Water System .....	11
5.2.3	Redevelopment of Existing Boreholes .....	11
5.2.4	Rehabilitation of Mim Water System .....	12
5.2.5	Repair and Maintenance Works .....	12
5.2.6	State of Submersible Pumps .....	12
5.2.7	Sanitation and Hygiene Promotion .....	12
5.2.8	Water Safety and Water Quality Monitoring .....	13
<b>5.3</b>	<b>CENTRAL REGION .....</b>	<b>13</b>
5.3.1	Updates on Water Systems managed by the Region .....	13
5.3.2	Stakeholders Engagement .....	13
5.3.3	Baseline Survey .....	14
5.3.4	Rehabilitation and Expansion of Water Systems .....	14
<b>5.4</b>	<b>EASTERN REGION.....</b>	<b>14</b>
5.4.1	Water Quality Analysis.....	14
5.4.2	Rehabilitation Works.....	14
5.4.3	Repair and Maintenance Works.....	15
5.4.4	New Connections and Meter Installation.....	15
5.4.5	Community Meetings.....	16
<b>5.5</b>	<b>GREATER ACCRA REGION .....</b>	<b>16</b>
5.5.1	Procurement of Storage Tanks for Standpipes.....	16
5.5.2	Expansion of Kweiman-Danfa Water Supply Scheme (KDWSS).....	17
5.5.3	Water Connection to Selected Palaces.....	17
5.5.4	Preparation of Water Safety Plan.....	17
5.5.5	Meetings with Stakeholders and WSMS .....	17
5.5.6	Current Status of the Water Systems .....	18
5.5.7	Water Safety Issues .....	19
<b>5.6</b>	<b>NORTHERN, NORTH EAST AND SAVANNA REGIONS .....</b>	<b>19</b>
5.6.1	Appraisal of WSMS .....	19
5.6.2	Water Shortages and Community Agitations.....	20

5.6.3	Installation of Water Meters and Repair Works.....	20
5.6.4	Stakeholders' Engagements .....	20
5.7	UPPER EAST REGION .....	21
5.8	UPPER WEST REGION.....	21
5.8.1	Deployment of WSMS to Additional Water Systems.....	21
5.8.2	Rehabilitation Works.....	22
5.8.3	Capacity Building for WSMS.....	22
5.8.4	Regional Stakeholders' Engagements .....	22
5.9	VOLTA AND OTI REGIONS.....	23
5.9.1	Rehabilitation and Repair Works.....	23
5.9.2	Water Quality Analysis.....	25
5.10	WESTERN AND WESTERN NORTH REGIONS .....	26
5.10.1	Management of Additional Water Systems .....	26
5.10.2	Engagement of Auxiliary Staff .....	26
5.10.3	Stakeholders' Engagement.....	26
5.10.4	Installation of Water Meter and Repair Works.....	27
6.0	PROJECTS.....	28
6.1	ASHANTI REGION .....	28
6.2	BONO, AHAFO AND BONO EAST REGIONS .....	28
6.3	CENTRAL REGION.....	30
6.4	EASTERN REGION.....	33
6.4.1	RI/USAID WASH Project .....	33
6.4.2	Ghana-Chinese Government 1000 Borehole Program.....	33
6.4.3	Project Maji.....	33
6.4.4	Plan International Ghana RWASH Program.....	34
6.4.5	Launching of EPF Sanitation Project.....	34
6.5	GREATER ACCRA REGION .....	34

<b>6.6</b>	<b>NORTHERN, NORTH EAST AND SAVANNA REGIONS .....</b>	<b>37</b>
6.6.1	AF-SRWSP .....	37
6.6.2	SRWSP .....	38
6.6.3	UNICEF Assisted WASH Projects .....	38
6.6.4	Social Investment Fund Project .....	39
6.6.5	RI/USAID H <sub>2</sub> O Collaboration Project .....	39
6.6.6	China/GoG 1000 Boreholes Project .....	40
<b>6.7</b>	<b>UPPER EAST REGION .....</b>	<b>40</b>
6.7.1	AF- SRWSP .....	40
6.7.2	UNICEF-Assisted WASH Project.....	40
<b>6.8</b>	<b>UPPER WEST REGION .....</b>	<b>41</b>
6.8.1	AF-SRWSP .....	41
6.8.2	GoG 20,000 Borehole Project.....	42
6.8.3	UNICEF-Assisted WASH Project.....	42
6.8.4	UN Habitat WASH in DPCs.....	43
<b>6.9</b>	<b>VOLTA AND OTI REGIONS .....</b>	<b>43</b>
6.9.1	Four (4) Constituencies Water Supply Project Phase III- Austrian Government Funded (STRABAG).....	43
6.9.2	WSIP of the Ghana-Spain Debt Swap for Development Programme .....	44
6.9.4	Plan International Ghana IWASH Project.....	45
6.9.5	UNICEF WASH Programme .....	45
<b>6.10</b>	<b>WESTERN AND WESTERN NORTH REGIONS .....</b>	<b>46</b>
6.10.1	AF-SRWSP .....	46
6.10.2	RI/USAID .....	46
<b>7.0</b>	<b>CHALLENGES.....</b>	<b>48</b>
<b>8.0</b>	<b>RECOMMENDATIONS.....</b>	<b>50</b>
<b>9.0</b>	<b>CONCLUSION .....</b>	<b>52</b>

## **LIST OF TABLES**

Table 1: Performance of Financial/Economic Indicators for the First Quarter, 2019.....	2
Table 2: Performance of Efficiency/Productivity Indicators for the First Quarter, 2019 .....	3
Table 3: Performance of Dynamic and Management Improvement Indicators .....	5
Table 4: Staff Strength and Vacancies as at end of First Quarter, 2019 .....	9
Table 5: Status of Rehabilitation Works on the Krachi Area Water Supply Schemes .....	24
Table 6: Status of On-going WASH Projects in Central Region .....	31
Table 7: Status of On-going WASH Projects in Greater Accra Region .....	35
Table 8: Status of Works done under the Water Supply Improvement Project .....	44

## **ACRONYMS**

3-DWSS	3-Districts Water Supply Scheme
AF-SRWSP	Additional Financing - Sustainable Rural Water and Sanitation Programme
AR	Ashanti Region
BAR	Brong Ahafo Region
CLTS	Community Led Total Sanitation
CNCC	CWSA National Communication Committee
CR	Central Region
CRO	Community Relations Officer
CSO	Civil Society Organisation
CWSA	Community Water and Sanitation Agency
CWSA-GAR	Community Water and Sanitation Agency – Greater Accra Region
DA	District Assembly
DCEs	District Chief Executives
DICCS	District Interagency Coordinating Committees
DPC	Disaster-prone Community
DPs	Development Partners
DSDP	Debt Swap for Development Programme
ECG	Electricity Company of Ghana
ER	Eastern Region
F4WASH	Football for WASH
GAR	Greater Accra Region
GHS/GHC	Ghana Cedis
GOG	Government of Ghana

GWCL	Ghana Water Company Limited
HQ	Head Quarters
IDA	International Development Association (of the World Bank)
IMC	Interim Management Committee
IT	Information Technology
IWASH	Integrated Water, Sanitation and Hygiene
KVIP	Kumasi Ventilated Improved Pit
MBFHI	Mother Baby Friendly Health Initiative
MDAs	Ministries, Departments and Agencies
MDCDs	Municipal and District Coordinating Directors
MMDAs	Metropolitan, Municipality & District Assemblies
MMDCEs	Metropolitan, Municipality & District Chief Executives
MoU	Memorandum of Understanding
MSWR	Ministry of Sanitation and Water Resources
NGOs	Non-Governmental Organisations
NR	Northern Region
ODF	Open Defecation Free
PSO	Private Sector Organizations
RCC	Regional Coordinating Council
RI	Rotary International
RICCS	Regional Interagency Coordinating Committees
RWST	Regional Water and Sanitation Team
SDG	Sustainable Development Goal
SEC	State Enterprises Commission



SRWSP	Sustainable Rural Water and Sanitation Programme
UER	Upper East Region
UN-Habitat	The United Nations Human Settlements Programme
UNICEF	United Nations Children’s Fund
USAID	United States Agency for International Development
UWR	Upper West Region
VIPs	Ventilated Improved Pit Latrines
VR	Volta Region
VRA	Volta River Authority
WASH	Water, Sanitation and Hygiene
WATSAN	Water and Sanitation
WR	Western Region
WSIP	Water Supply Improvement Project
WSMS	Water Systems Management Staff
WSMT	Water and Sanitation Management Team

## **EXECUTIVE SUMMARY**

This report gives an overview of the activities carried out by the Community Water and Sanitation Agency (CWSA) in the first quarter of 2019 in fulfilment of the Agency's mandate of delivering safe water and related sanitation services to rural communities and small towns throughout the country. It therefore presents the achievements made under the two main operational areas of the Agency namely facilitating the delivery of Water, Sanitation and Hygiene (WASH) services to rural communities and small towns and the ongoing rural water sub-sector reforms within which CWSA is directly managing small towns water supply systems across the country.

On account of the rural water sub-sector reforms, CWSA is currently managing 106 small towns water supply systems throughout the sixteen administrative regions of the country. Baseline surveys are ongoing for the additional seventeen (17) water systems brought under the reform program in order to establish the levels of functionality of the water systems and the rehabilitation works required. Water Safety Plans have also been prepared for most of the water systems and water quality testing/analysis, disinfection of source boreholes, etc. are ongoing as part of the implementation measures. Borehole cleaning and redevelopment as well as rehabilitation and expansion works are ongoing in most of the water systems, some of which are expected to be completed in the coming quarter. Bulk and service water meters were procured and installed on the various water systems to help monitor and track water production, distribution and consumption. As part of strategies to communicate the Rural Water Sub-Sector Policy Reforms to stakeholders, the National Communication Committee of the Agency held regional stakeholders' conferences in seven regions during the quarter.

Total income to the Agency from January to March amounted to GHS34,783,510.00 compared with total budgeted income of GHS64,218,077.00. This created an income shortfall of GHS29,434,567.00.

CWSA within the quarter drilled a total of fifteen (15) successful boreholes as against the target of forty-seven (47) and installed hand pumps on twenty-five (25) successful boreholes compared with the target of forty-seven (47). The Agency also constructed a total of 1,078 Household Latrines (VIPs) as against a target of 3,000 and achieved Open Defecation Free status in seventy-seven (77) communities, exceeding the quarterly target of thirty-five (35). Also, a total of twenty-

four (24) WSMTs were formed and five (5) trained compared with the targets of thirty-seven (37) and forty (40) respectively.

CWSA maintained strong collaboration with rural WASH sub-sector stakeholders namely Government of Ghana; Ministry of Sanitation and Water Resources; allied Ministries, Departments and Agencies; Development Partners; Regional Coordinating Councils; Municipal and District Assemblies; Community Members; Traditional Authorities; Civil Society Organizations; and Private Sector Organizations in implementing rural WASH projects throughout the country. The projects implemented include the Additional Financing for Sustainable Rural Water and Sanitation Programme (AF-SRWSP) funded by the International Development Association (IDA) of the World Bank; Rotary International/USAID WASH Project; UNICEF/GoG WASH Project; UN-Habitat WASH in Disaster Prone Communities (DPC); Water Supply Improvement Project (WSIP) of the Ghana-Spain Debt Swap for Development Programme (DSDP); and Social Investment Fund (SIF) Project among others.

The Agency required a total of two hundred and thirty-six (236) staff, out of which two hundred and nine (209) were at post thereby creating twenty-seven (27) vacancies. As part of capacity building for staff, CWSA held a three-day training workshop (from 26<sup>th</sup> – 28<sup>th</sup> February, 2019) for all Accountants and Information Technology Experts on the use of a payroll application software designed by the IT and Finance Units of the Agency. The purpose of the workshop was to train all intended user staff of the payroll application software to enable decentralisation of salary payment mechanisms for the Water Systems Management Staff from the Head Office level to the Regional level; and train the staff on financial reporting.

Key among the challenges encountered during the quarter include frequent pipe burst and breakdown of the water systems due to their deplorable state before CWSA's intervention; water rationing as a result of inadequate water sources and pumps for most of the water systems; frequent burning of pumps and control panels due to intermittent power supply; insufficient budgetary allocation and untimely release of Central Government funds for CWSA's operations; and high mineral contents (fluoride, manganese, arsenic, iron, etc.) in underground water especially in the northern regions.

In order to address these challenges, CWSA will in the coming quarters mobilise adequate funds to intensify rehabilitation works on all water systems in deplorable state and as well provide adequate water sources and pumps for the water systems; liaise with the Government of Ghana to ensure timely release of adequate funds for operations and execution of intended WASH projects; and collaborate with WASH sector practitioners and the academia to research and innovate solutions to address issues of high mineral contents of underground water.

## **1.0 INTRODUCTION**

This report gives an overview of the activities carried out by the Community Water and Sanitation Agency (CWSA) in the first quarter of 2019 in fulfilment of the Agency's mandate of delivering safe water and related sanitation services to rural communities and small towns throughout the country. The report covers two broad operational areas of the Agency namely facilitating the delivery of Water, Sanitation and Hygiene (WASH) services to rural communities and small towns and the ongoing rural water sub-sector reforms within which CWSA is directly managing some small towns water supply systems across the sixteen administrative regions of the country. Specific issues presented in the report include achievements of key performance indicators, personnel issues, status of the reforms and ongoing WASH projects in the various regions, major challenges encountered by the Agency and proposed measures for improving service delivery in the rural WASH sector.

## 2.0 PERFORMANCE OF KEY INDICATORS

This section outlines the achievements of CWSA in the reporting period in respect of the Agency's 2019 performance indicators. The indicators are broadly grouped into financial and economic indicators, efficiency and productivity indicators, and dynamic and management improvement indicators as contained in the CWSA's 2019 Performance Contract signed with the Government of Ghana (GoG) through the Minister of Finance and the Minister of Sanitation and Water Resources (MSWR).

### 2.1 PERFORMANCE OF FINANCIAL AND ECONOMIC INDICATORS

Total income from January to March amounted to GHS34,783,510.00 compared with the total amount of GHS64,218,077.00 expected. This created an income shortfall of GHS29,434,567.00. Find details in table 1 below.

*Table 1: Performance of Financial/Economic Indicators for the First Quarter, 2019*

RECEIPTS	ANNUAL BUDGET (GHC)	YTD BUDGET (GHC)	YTD ACTUAL (GHC)	YTD BUDGET VARIANCE (GHC)
Revenue from sale of water	24,861,854.00	6,215,463.50	3,765,433.00	2,450,031.00
Other Income	1,458,418.00	364,604.50	365,987.00	(1,383)
Government of Ghana Subsidy	37,395,719.00	9,348,929.75	1,650,001.00	7,698,929.00
Donor Inflow	180,821,493.00	45,205,373.25	25,918,383.00	19,286,990.00
Funding from GWCL	12,334,824.00	3,083,706.00	3,083,706.00	
<b>TOTAL</b>	<b>256,872,308.00</b>	<b>64,218,077.00</b>	<b>34,783,510.00</b>	<b>29,434,567.00</b>

### 2.2 PERFORMANCE OF EFFICIENCY AND PRODUCTIVITY INDICATORS

#### 2.2.1 Water Supply Systems

The Agency drilled a total of fifteen (15) successful boreholes as against the target of forty-seven (47) and installed hand pumps on twenty-five (25) successful boreholes compared with the target of forty-seven (47). However, all indicators under both the Construction and Rehabilitation of Small Towns Piped Water Systems as well as GWCL Piped Connections recorded zero achievement.

### 2.2.2 Sanitation Indicators

CWSA constructed a total of 1,078 Household Latrines (VIPs) as against a target of 3,000 and also achieved Open Defecation Free status in seventy-seven (77) communities, exceeding the quarterly target of thirty-five (35).

### 2.2.3 Community Capacity Building Indicators

A total of twenty-four (24) WSMTs were formed and five (5) trained during the quarter compared with the targets of thirty-seven (37) and forty (40) respectively. CWSA during the reporting period took over the management of seventeen (17) water systems which exceeds the target of eight (8) for the quarter.

Find in table 2 below the details of the targets and achievements of the above-mentioned performance indicators.

*Table 2: Performance of Efficiency/Productivity Indicators for the First Quarter, 2019*

Performance Criteria	Unit of Measurement	2019 Annual Target	Q1 Target	Q1 Achievements	Variance for Qtr. 1	% Achieved in Qtr. 1
<b>Water Supply Systems</b>						
<b>New Boreholes Constructed</b>						
1. Boreholes sites selected	No.	<b>189</b>	47	0	(47)	0
2. Successful boreholes drilled	No.	<b>189</b>	47	15	(32)	33
3. Successful boreholes with hand pumps installed	No.	<b>189</b>	47	25	(22)	53
<b>New Small Communities Piped Systems Constructed</b>						
1. Systems with feasibility studies completed	No.	<b>0</b>	0	0	0	0
2. Systems with designs completed	No.	<b>0</b>	0	0	0	0
3. Systems contracted out	No.	<b>0</b>	0	0	0	0
4. Systems Practically completed	No.	<b>0</b>	0	0	0	0
<b>Small Towns Piped Systems Constructed</b>						
1. Systems with feasibility studies completed	No.	<b>29</b>	7	0	(7)	0
2. Systems with designs completed	No.	<b>29</b>	7	0	(7)	0

Performance Criteria	Unit of Measurement	2019 Annual Target	Q1 Target	Q1 Achievements	Variance for Qtr. 1	% Achieved in Qtr. 1
3. Systems contracted out	No.	29	7	0	(7)	0
4. Systems practically completed	No.	14	4	0	(4)	0
<b>New Limited Mechanized Systems Constructed</b>						
1. Systems with feasibility studies completed	No.	0	0	0	0	0
2. Systems with designs completed	No.	0	0	0	0	0
3. Systems contracted out	No.	0	0	0	0	0
4. Systems practically completed	No.	0	0	0	0	0
<b>Small Towns Piped Systems Rehabilitated</b>						
1. Systems contracted out	No.	20	5	0	(5)	0
2. Systems practically completed	No.	20	5	0	(5)	0
<b>GWCL Piped Connections Completed</b>						
1. Systems with designs completed	No.	9	3	0	(3)	0
2. Systems contracted out	No.	9	3	0	(3)	0
3. Pipe connections (to communities) completed	No.	9	3	0	(3)	0
<b>Sanitation</b>						
<b>CLTS Activities</b>						
1. Communities to Enter	No	141	35	77	42	220
2. Open Defecation Free Communities	No	450	100	77	(23)	77
3. Household Latrines (VIPs) Constructed		14,000	3,000	1,078	(1,922)	36
4. Schools/ Institutional Latrines Installed	No.	0	0	0	0	0
<b>Community Capacity Building Activities</b>						
1. WSMTs formed * (point sources)	No.	148	37	24	(13)	65
2. WSMTs trained (point sources)	No.	161	40	5	(35)	12.5
3. No. of new Pipe systems under CWSA management	No.	30	8	17	9	212.5



\*WSMTs in place refers to the number of Water and Sanitation Management Teams comprising “a set of people elected to be in charge of a water facility” be it point source facility or a pipe system and not the individual members in the Team.

## 2.3 PERFORMANCE OF DYNAMIC/MANAGEMENT IMPROVEMENT INDICATORS

Table 3 below shows the performance of dynamic and management improvement indicators as at the end of the quarter.

*Table 3: Performance of Dynamic and Management Improvement Indicators*

<b>Performance Criteria</b>	<b>Unit of Measurement</b>	<b>Annual Target</b>	<b>1<sup>st</sup> Quarter Target</b>	<b>1<sup>st</sup> Quarter Achievement</b>
<b>Dynamic Effects</b>				
Submission of 2019 Budgeted Staff Training Programme	Month	January	January	Not yet submitted
Percentage Implementation of 2019 Budgeted Training Programme	%	100	25	20
Submission of Draft Strategic Investment Plan (2020-2024)	Month	October	N/A	N/A
Submission of 2019 Maintenance Programme for Assets	Month	January	January	Not yet submitted
Percentage Implementation of 2019 Maintenance Programme for Assets	%	100	25	50
Submission of 2019 Safety Plan	Month	January	January	Not yet submitted
Percentage Implementation of 2019 Safety Plan	%	100	25	50
Submission of 2019 Water Safety Plan	Month	January	January	Not yet submitted
Implementation of 2019 Water Safety Plan	%	100	25	Information not Available
<b>Management Improvement/ Projects</b>				
Submission of Quarterly Reports	Weeks after Quarter	6	6	8
Conformance to SEC reporting format	No. of Items	6	6	To be determined by SEC
Submission of 2018 Audited Financial Statements	Month	April	N/A	N/A
Submission of 2020 Draft Performance Contract	Month	October	N/A	N/A
Submission of 2020 Draft Budget	Month	August	N/A	N/A
Submission of copies of Invitation Letters to Board meetings	Weeks after meeting	1	-	Not yet submitted

<b>Performance Criteria</b>	<b>Unit of Measurement</b>	<b>Annual Target</b>	<b>1<sup>st</sup> Quarter Target</b>	<b>1<sup>st</sup> Quarter Achievement</b>
Submission of copies of Board attendance List to meetings	Weeks after meeting	1	-	Not yet submitted
Submission of 2018 Board Evaluation report	Month	January	January	Not yet submitted
Submission of 2020 Procurement Plan	Month	November	N/A	N/A

### **3.0 COLLABORATION**

The Agency maintained strong collaboration with rural WASH sub-sector stakeholders in the implementation of rural WASH programs, projects and activities as well as the rural water sub-sector reforms. The stakeholders include GoG, MSWR, allied Ministries, Departments and Agencies (MDAs), Development Partners (DPs), Regional Coordinating Councils (RCCs), Municipal and District Assemblies, Community Members, Traditional Authorities, Civil Society Organizations (CSOs) and Private Sector Organizations (PSOs).

## **4.0 HUMAN RESOURCES AND GENERAL ADMINISTRATION**

### **4.1 MANAGEMENT**

Management of CWSA, both at national and regional levels, continued to actively interact with staff on issues such as technical, planning and investments, extension services, Management Information System (MIS), finance and administrative. This culminated in effective planning and delivery of WASH services to rural communities and small towns across the regions. In that connection, management held regular staff and stakeholders' meetings to discuss progress of ongoing projects and the rural water sub-sector reform programme. Also, management with the support of staff monitored and supervised the activities of contractors and consultants working on various WASH projects as well as the operations of all the CWSA-managed water systems across the country.

During the quarter, management of the Agency led by the Chief Executive negotiated performance contracts for the year 2019 with all the regional offices. The negotiations took place at the CWSA Head Office Conference Room between 14<sup>th</sup> and 18<sup>th</sup> January, 2019. The contract documents have been finalised and would be signed in the coming quarter.

Moreover, the Board of Directors of the Agency met once during the quarter (on 12<sup>th</sup> February, 2019) to innovate strategies to deal with the challenges of the rural water sub-sector reforms and WASH services delivery to rural communities and small towns in general.

### **4.2 STAFFING**

The staffing situation of CWSA did not change over the period compared to end of year 2018. The Agency required a total of two hundred and thirty-six (236) staff, out of which two hundred and nine (209) were at post creating twenty-seven (27) vacancies. Table 4 below shows the details of the staffing situation at the head office and regional offices of the Agency as at end of March, 2019.

*Table 4: Staff Strength and Vacancies as at end of First Quarter, 2019*

<b>Region Staff</b>	<b>AR</b>	<b>BAR</b>	<b>CR</b>	<b>ER</b>	<b>GAR</b>	<b>NR</b>	<b>UER</b>	<b>UWR</b>	<b>VR</b>	<b>WR</b>	<b>HQ</b>	<b>Total</b>
<b>Expected</b>	21	18	18	20	19	22	18	16	21	19	44	236
<b>Available</b>	17	16	20	17	16	18	18	18	18	17	34	209
<b>Vacancies</b>	4	2	0	3	3	4	0	0	3	2	10	27

### 4.3 TRAINING AND DEVELOPMENT

A three-day training workshop was held for all Accountants and Information Technology Specialists on the use of a payroll application software designed by the IT and Finance Units of the Agency. The workshop took place at the Anita Hotel, Ejisu in the Ashanti Region from 26<sup>th</sup> – 28<sup>th</sup> February, 2019. The purpose of the workshop was to train all intended user staff of the payroll application software to enable decentralisation of salary payment mechanisms for the Water Systems Management Staff (WSMS) from the Head Office level to the Regional level; and train the staff on financial reporting. All CWSA Regional Directors and Head Office Directors were also present at the workshop.

The Agency also held orientation sessions for all newly deployed WSMS across the regions and as well retrained some WSMS already at post.

## **5.0 PARTICIPATION IN MANAGEMENT OF PIPED WATER SYSTEMS**

CWSA through its regional offices continued to manage the small towns water systems already under the Agency's management and as well rope some additional water systems into CWSA's management as part of the Rural Water Sub-Sector Policy Reform. The progress made by the regional offices is outlined as follows.

### **5.1 ASHANTI REGION**

The Regional Office carried out borehole redevelopment, repair works, community education and employment of auxiliary staff for the water systems among others as part of the reforms in the region. Details are as follows.

#### **5.1.1 Maintenance and Rehabilitation Works**

The Region carried out redevelopment of boreholes for Manso Nkwanta, Manso Atwere and Juaben Water Systems. Repairs and maintenance of pipelines and water meters was done for some water systems. Bulk water meters and service meters were also installed.

#### **5.1.2 Community Education/Sensitisation**

Education and sensitization were intensified in communities where the Region is participating in the management of water systems. This resulted in strong rapport between community members and the WSMS thereby contributing to payment of outstanding water bills.

#### **5.1.3 Engagement of Auxiliary Staff**

Selection interviews for auxiliary staff for the eight (8) water systems ended and suitable candidates engaged.

#### **5.1.4 Meetings with Stakeholders and WSMS**

Stakeholders were engaged as part of the process to bring more water systems under the management of the Agency. The Regional Office also embarked on monitoring visits to all the CWSA-managed water systems and discussed operational issues including challenges and mitigating measures where necessary. The water systems managers were also invited to the regional office to participate in the Regions' monthly progress meetings.

## 5.2 BONO, AHAFO AND BONO EAST REGIONS

During the quarter, the Regional Office held a regional stakeholders' conference to communicate the reform activities being carried out in the region to all stakeholders and also to solicit their contributions for a successful transformation of the rural water sub-sector. The Region also continued community engagements in order to bring more water systems under the reform program while intensifying rehabilitation of water systems that are already under the Agency's management. Details of the activities are as follows.

### **5.2.1 Stakeholders' Conference on Rural Water Sub-Sector Policy Reforms**

A regional stakeholders' conference on the reforms was organized on 19<sup>th</sup> February 2019 at the Eusbett Hotel, Sunyani. A total of 116 stakeholders including representatives from the Regional Coordinating Council and District Assemblies, Community Opinion Leaders, WSMT Chairmen, CWSA staff and the media participated. The CWSA Regional Director made a presentation on the status of the reforms in the region while the CWSA National Communication Committee (CNCC) presented the Rural Water Sub-Sector Policy Reforms emphasizing the need to sustain investments within the sub-sector through efficient management of the water facilities towards achieving the Sustainable Development Goal (SDG) 6.

### **5.2.2 Management of Goaso Water System**

The Asunafo North Municipal Assembly in February 2019 expressed interest in handing over the Goaso Water System to CWSA to manage under the rural water sub-sector reform. Initial stakeholder consultations have ended and a Transition Team comprising CWSA Head Office and Regional Office, the Asunafo North Municipal Assembly and Goaso community representatives was constituted by the Chief Executive of CWSA in March 2019. Official handing over of the water system is scheduled for 1<sup>st</sup> April 2019.

### **5.2.3 Redevelopment of Existing Boreholes**

The Contractor, Weddi Africa Limited has completed the works for redevelopment of five boreholes (two in Kwame Danso and three in Goaso) to re-establish their maximum sustainable yields. Project completion reports are expected in April 2019.

Also, ASPAC International of Belgium contracted Joyful Water Ventures Ltd to carry out redevelopment of eight (8) boreholes in Wenchi. Works on seven (7) have been completed and reports are expected in April 2019.

#### **5.2.4 Rehabilitation of Mim Water System**

Construction of pump houses was completed in January 2019 whilst the vandalized electrical lines connecting the pump houses were reconstructed in February 2019. Contract for the supply and installation of four (4) submersible pumps (National GRID) and one (1) submersible pump (Photovoltaic) was awarded to Jual Group Gh. Ltd in March 2019.

#### **5.2.5 Repair and Maintenance Works**

The control panels on Kwame Danso and Krobo Water Systems were damaged by fire outbreak and have been replaced. Burst pipes on transmission lines in Krobo, Wenchi and Akuma-Brahoho were quickly repaired which safeguarded contamination of water and restored customer confidence.

#### **5.2.6 State of Submersible Pumps**

One submersible pump each in Krobo, Kwame Danso and Goaso are defective as a result of burning of the pump motor and therefore require replacement. Five (5) boreholes each in Wenchi and Mim are without submersible pumps. This occurred due to removal of the pumps because of defects. In effect, thirteen (13) new pumps are required for installation. Moreover, a submersible pump in Akuma-Brahoho experiences frequent automatic trip-off and requires assessment.

#### **5.2.7 Sanitation and Hygiene Promotion**

The Sanitation Action Plan for the year was submitted to CWSA Head Office in March 2019. The Plan outlines the sanitation situation and strategies to improve conditions in AKuma-Brahoho, Krobo, New Longoro, Nkrankwanta, Mim and Kwame Danso. Critical sanitation and hygiene issues identified include open defecation, indiscriminate disposal of refuse and bushy surroundings. Strategies to deal with the issues include collaboration with District Environmental Health Unit in sensitising the communities. Also, private customers without household latrines are being prioritised for supports for household toilet construction. Compilation of needy households in the various communities is ongoing and is expected to end in May 2019.



### **5.2.8 Water Safety and Water Quality Monitoring**

Implementation of 2019 Water Safety Plan commenced in all the participating communities. Training on residual chlorine testing was conducted for technical staff of Wenchi and Kwame Danso in March 2019. The latest water quality test results revealed improvements with respect to coliform contamination which could be attributed to strict chlorine dosing. However, the high iron content identified in Wenchi and Mim Water Systems requires immediate remedial actions such as installation of Aqualite Treatment Plants.

## **5.3 CENTRAL REGION**

The CWSA – Central Region during the period carried out series of stakeholders’ engagements resulting in more water systems coming under the reform program. Details of the activities are presented as follows.

### **5.3.1 Updates on Water Systems managed by the Region**

During the quarter, five (5) additional water systems were brought under the Agency’s direct management. They are Ayanfuri in Upper Denkyira West District, Kwameprakrom/Amissah in Upper Denkyira East District, Asamankese/Achiase in Assin South District, Enyinabrim in Abora Asebu Kwamankese District, and Akropong in Assin North District. This brings the number of water systems under CWSA Central Region’s direct management to eighteen (18).

However, the chiefs and people of Diaso have refused to allow CWSA to manage the Diaso Water System. The WSMS deployed to the community have since been recalled and posted to different water systems. As at the end of the quarter, a total of seventy-three (73) WSMS had been deployed to the Region.

### **5.3.2 Stakeholders Engagement**

Stakeholder engagements towards CWSA’s participation in the management of Assin Dansame, Breman Bedum, Brakwa/Kokoso, Kyekyewere and Wawase Water Systems were carried out. Again, the Region organized a regional stakeholders’ conference to further throw more light on the new rural water sub-sector policy direction. In attendance were the Regional Minister, MMDCEs, Chiefs, Opinion Leaders, Institutions and the Media.

### **5.3.3 Baseline Survey**

Baseline surveys for Ayanfuri, Kwameprakrom/Amissah, Enyinabrim, Akropong and Assin Praso water systems were carried out during the quarter.

### **5.3.4 Rehabilitation and Expansion of Water Systems**

Supply of water from the Endwa/Aponsie/Brofoyedru Water System to the whole Assin Akonfudi township through a distribution line commenced after an agreement was reached with the concerned citizens of the community, who had earlier refused to allow CWSA to manage the water system.

The Region facilitated the emergency cleaning, redevelopment, pumping and water quality tests of Twifo Hemang water system to re-establish the safe yield of the source borehole. Also, an assessment was conducted on the Aqualite Treatment Plants for all CWSA-managed water systems with iron problems and report prepared for further action.

## **5.4 EASTERN REGION**

The Region among other things carried out water quality analysis and as well intensified rehabilitation works on the water systems under its management. Highlights of the activities are presented below.

### **5.4.1 Water Quality Analysis**

With the exception of Bosuso, water samples were collected from all the water supply systems and sent to the laboratory for both physical and bacteriological test. The points of collection were the pump houses, storage tanks, standpipes and private connections.

### **5.4.2 Rehabilitation Works**

The separate ECG meter for the Akwadum Water System Office and a new meter for Pump House No.1 of Bosuso Water System were installed and connected to the national grid. Pump House No.1 of the Bosuso Water System was also rehabilitated.

The Regional Office has taken delivery of some bulk materials to carry out extension works on the water systems. The materials include uPVC and HDPE Pipes and fittings. Works on the extension of distribution pipelines for new standpipe construction at Asesewa commenced after a meeting

was held with the DA and elders from the community. The standpipes are located at the Methodist Church, Zongo, DCE Area and along the Asesewa main road. Construction of the platforms and soakaways have been completed awaiting the erection of concrete post and overhead fetching points.

Also, a reconnaissance survey was conducted at Akooko following request by the WSMS to extend the distribution pipeline to a new developing area. Materials for the extension works have been procured and works are yet to begin.

### **5.4.3 Repair and Maintenance Works**

The Regional Office procured and assembled eight (8) tool boxes for the water system offices to enable the WSMS carry out routine and periodic maintenance works effectively.

During the month of February 2019, the submersible pump for the only borehole at Nankese developed a fault and was not able to transmit water into the storage tank. After assessment, it was realized that efficiency of the pump motor had deteriorated and the cycle time was unacceptably low. A new motor was therefore purchased to replace the inefficient one and water supply restored. Some faulty components of the control panel as well as the Sanikit of the water system were replaced.

Pump House No.1 of the Asesewa Water System, located at Odometa was rewired and the control panel serviced. The Sanikit unit which had its cover destroyed and had become brittle over the years was also replaced with a new chlorine dosing unit. The control panel for Pump House No.1 of the Akim Sekyere Water System was serviced. The phase relay and water level relay were also replaced.

### **5.4.4 New Connections and Meter Installation**

Within the quarter, materials for forty-two (42) new connections were purchased and transported to the various water systems to enable the connection of new customers to the water systems.

The Region also procured plumbing materials to support the installation of the first batch of water meters received from Head Office. All standpipe meters were changed while faulty private connection meters are gradually being replaced. Details of the meters changed are as follows;

Akwadum/Nankese – 56, Akroso – 58, Asiakwa – 23, Akim Sekyere – 28, Akooko – 16 and Asesewa – 69.

#### **5.4.5 Community Meetings**

Complaints were received from private customers (households) of Akim Sekyere Water System on tariff rationalization. A meeting was therefore scheduled for 15<sup>th</sup> March, 2019 to explain to the customers the rationale behind the tariff rationalization. However, the Regional Water and Sanitation Team (RWST) was met by angry residents led by a sub-chief thereby disrupting the meeting.

### **5.5 GREATER ACCRA REGION**

The Greater Accra RWST held several engagements with stakeholders and as well took some initiatives towards ensuring that adequate safe water is delivered to the communities that are under the reform program. The activities are detailed as follows.

#### **5.5.1 Procurement of Storage Tanks for Standpipes**

Owing to water shortages and rationing in some communities under the 3 Districts Water Supply Scheme (3DWSS), procurement of tanks to store water for sale during the rationing periods was recommended. An analysis and compilation of communities mostly affected by the rationing has been undertaken and budget discussed with Head Office. The Regional Office is currently awaiting the required structural designs for placement of the tanks from Head Office to enable it finalise the budget for onward submission.

In addition, fourteen (14) standpipes with storage tanks installed earlier by the WATSANs/vendors were assessed. It was observed that the storage tanks are filled using water hoses when the standpipes are not in use. However, the vendors in most cases are unable to store water in the storage tanks due to the high demand at the standpipes coupled with the short nature of rationing periods. It was therefore recommended that the storage tanks should be directly connected and metred to ensure that fetching at standpipes is not interrupted.

### **5.5.2 Expansion of Kweiman-Danfa Water Supply Scheme (KDWSS)**

To facilitate the release of land for the expansion works for the water system, two (2) families have been identified as owners of the pieces of land on which the additional three (3) high yielding boreholes were drilled. Heads of the families have been contacted for discussions on the modalities for the release of the land.

### **5.5.3 Water Connection to Selected Palaces**

Request for water connection to palaces was made by the Coastal Chiefs Association during an engagement and approval has since been given for the connection of nine (9) palaces. As at March 2019, two (2) palaces had been connected. The Region will provide follow up support to the technical units to ensure that the remaining connections are done.

### **5.5.4 Preparation of Water Safety Plan**

Inputs were made into the preparation of the guidelines for 2019 Water Safety Plans. The Region facilitated the establishment of water safety planning teams at both the regional and water system levels.

### **5.5.5 Meetings with Stakeholders and WSMS**

The Region participated in the monthly meeting of the Interim Management Committee (IMC) of the Abokobi-Oyarifa-Teiman Water Supply Scheme, held on 1<sup>st</sup> February, 2019. The meeting was mainly to discuss 2019 budget and work plan for the water scheme. The WSMT submitted the budget document to the District Assembly for approval and copied CWSA.

In March 2019, the Region participated in another IMC meeting where the report on pumping test for the existing borehole was discussed. The test result has been submitted to CWSA-GAR for study and recommendations. Another meeting was held on 26<sup>th</sup> March 2019 between the Regional Office and the Chiefs to discuss CWSA's participation in the management of the water scheme. The chiefs gave the Regional Office the opportunity to engage each of the communities so as to provide adequate information to the community members. The engagement will also allow for questions and clarifications on the objectives of the reform.

Progress meetings were held in all three (3) water schemes to assess improvements, challenges and their mitigation measures and as well discuss the 2019 performance targets. A meeting was held with CROs of 3DWSS on 29<sup>th</sup> March to discuss the processes, challenges and lessons learnt in the preparation of their Sanitation Action Plans. The Region also assisted the CROs to draw work plans for critical activities for the month of April.

### **5.5.6 Current Status of the Water Systems**

#### ***3-Districts Water Supply Scheme***

During the quarter, there were repair works on the transmission and distribution lines as well as stand pipes. However, some transmission and distribution lines are in poor conditions resulting in a number of leakages and pipe bursts during the quarter.

The Region monitored the operation of the eleven (11) piloted prepaid meters. Generally, participants of the pilot program have given positive feedbacks on the performance of the meters over the pilot period.

#### ***Kweiman-Danfa Water Supply Scheme***

Major challenges encountered during the period include unstable power supply due to some maintenance works carried out by ECG; and non-production of water for one week due to a week-long disconnection by ECG, resulting in series of agitations by community members. The submersible pump for Pump House No.2 got burnt and a new pump installed. Also, 200 service meters were supplied and installation is ongoing.

Water sampling for testing has been carried out and GWCL is yet to deliver the results. Currently, no measures are in place to check water quality and safety at the pump house.

#### ***Osdoku Water Supply Scheme***

Branching of the main distribution line to the metal bridge has been completed. The three (3) 33KV Fuse which exploded has also been reinstalled successfully by ECG. The bearings, gasket and seals on one of the two (2) pumps at the booster station were replaced. Repair works is currently ongoing on the second pump.

The water scheme has started rationing water supply especially to the Asutsuare Township. The main problem is at the slow sand filtration tank where two (2) 4 inches pipes were merged into a single 4 inches pipe to supply water to the clear tank for chlorination and onward transmission.

The continuous spillage or overflow of water at errata tank has always resulted in accumulation of algae on the tank. Removal of the three-metal sieves which normally sieve off debris from the raw water has also resulted in gradual accumulation of dirt in the sedimentation tank, slowing down the rate at which water is being pumped out. It is therefore proposed that a two-layer concrete block be laid on the errata tank with two outlets to allow water to escape without algae accumulating on the errata.

The Water System Manager attended a management meeting organized by the Shai-Osudoku District Assembly at Akuse on 15<sup>th</sup> January, 2019. The forum gave the Water System Manager the opportunity to make a presentation on emerging issues and challenges of the water system.

### **5.5.7 Water Safety Issues**

The regional water safety team undertook a field trip to enable the team identify hazards and associated risks, assess already existing control measures and make recommendations for improvement. The observations and recommendations were compiled into a water safety plan for each water supply scheme and submitted to Head Office.

## **5.6 NORTHERN, NORTH EAST AND SAVANNA REGIONS**

The Region is currently managing seven (7) water systems. However, the staff deployed to Bunkpurugu Small Town Water System had been withdrawn due to lack of cooperation by community leadership. The following are the major reform activities carried out by the RWST during the quarter.

### **5.6.1 Appraisal of WSMS**

The Regional Director constituted a five-member team to draw a plan for appraising all water system level staff. Subsequent to that, appraisal of staff of Tatale, Bunkpurugu, Bole, Daboya, Fufulso and Zabzugu Water Systems was completed during the quarter. The staff of Wulensi and Bimbilla will be appraised in the coming quarters.

### **5.6.2 Water Shortages and Community Agitations**

Inadequate water sources was a major challenge of all the water systems except Tatale and Fufulso. This has resulted in agitations in some communities and damaging media reportage on CWSA management of the water systems. Formal complaints have been received from Bimbilla and Zabzugu District Assemblies on the inadequate water supply. In Bimbilla, a total of seven (7) boreholes are currently functioning yet water supply is only about a third of the demand. The Region has therefore identified another borehole source in Bimbilla which could be explored and added to the water system. In the coming quarter, the region will do a detailed study on the additional boreholes required to meet water demand in these towns with the associated cost and forward same to Head Office for possible approval and funding.

### **5.6.3 Installation of Water Meters and Repair Works**

Lack of functional service meters is a key challenge of revenue mobilization in the region. The Region, however, received a total of 570 service meters and 9 water bulk meters from the Head Office and has installed them on the various water systems. Additional 867 service meters for domestic and 2 water bulk meters for pump houses are still needed. The Region also repaired four (4) broken down pumps to improve water delivery in Bimbilla.

### **5.6.4 Stakeholders' Engagements**

During the quarter, the Regional Office in collaboration with Head Office organized a stakeholders' engagement on the reforms. Issues discussed included the frequent breakdown of most water facilities, huge outstanding electricity bills, non-payment of water tariffs by individuals and institutions, and lack of water system expansion among others. Rehabilitation works undertaken by the Agency in the region resulting in improvement in water service delivery were also highlighted. Participants included two members of Parliament (Sawla-Tuna-Kalba and Savelugu Constituencies) who are also members of the Works and Housing Committee of parliament and representatives from the Regional Coordinating Council and UNICEF. Municipal and District Chief Executives (MDCEs), Municipal and District Coordinating Directors (MDCDs), NGOs, the Media, Chiefs and Opinion Leaders also participated in the conference.



## 5.7 UPPER EAST REGION

During the period, the Region installed computers and accessories at Sandema, Paga, Pusiga, Bongo and Zebilla Water Supply System Offices. The Region also replaced the submersible pump of Pump House No.1 for the Paga Water Supply System. The pump was downsized from 9m<sup>3</sup>/hr to 5m<sup>3</sup>/hr and the borehole is running successfully. Similarly, the Regional Office conducted pumping test and installed a submersible pump on one borehole each for Pusiga and Zebilla Water Supply Systems. The Pusiga Water System now runs on two (2) mechanised boreholes while Zebilla Water System runs on three (3) mechanised boreholes. The Region also;

- Facilitated pumping tests of the three (3) mechanised boreholes for the Bongo Water System and installation of one (1) submersible pump on Pump House No.2 of the same water system.
- Facilitated sustained pumping in Bongo where two (2) mechanised boreholes are now operational.
- Facilitated the redevelopment of boreholes A14 and A16 on the Zebilla Water System.
- Distributed 400 water service meters received from Head Office to the various water systems.
- Compiled and submitted VRA indebtedness of currently managed water systems.
- Participated in Upper East Regional stakeholders' conference on the rural water sub-sector policy reform.
- Compiled and submitted to Head Office the pipeline requirements for water systems expansion.
- Finalised Water Safety Plans for twenty (20) Water Systems.

## 5.8 UPPER WEST REGION

The CWSA – Upper West Region continued its supervision of the operations and management of the eleven (11) water systems currently under CWSA's management in the region. Further engagements with stakeholders took place in Nadowli-Kaleo and Wa East Districts to bring water systems in the two districts under CWSA management. Details of the activities carried out as part of the reforms are as follows.

### **5.8.1 Deployment of WSMS to Additional Water Systems**

Three (3) new water systems will be added to CWSA management in the next quarter. They are Funsu Water System (Wa East District), Kaleo and Nadowli Water Systems (Nadowli-Kaleo

District). Orientation was given to the newly appointed WSMS ahead of their assumption of duty on 1<sup>st</sup> April 2019.

### **5.8.2 Rehabilitation Works**

CWSA Head Office gave approval for reconstruction of three (3) boreholes (2 in Lawra and 1 in Gwollu Water Systems) which were discovered to be ‘open’ and contract for the works signed between Head Office and Messrs EE&E Construct Ltd. As at the end of the quarter, works on the two (2) wells in Lawra Water System was completed. However, works on the borehole in Gwollu is still pending due to the caving-in of the well. The well therefore requires drilling-through to recover its original depth, which according to the contractor does not form part of the scope of his work. Rehabilitation of pump houses in Tumu, Gwollu, Nandom, Lawra and Jirapa is ongoing.

Contracts for the installation of submersible pumps as part of the ongoing rehabilitation works for five (5) water systems in Tumu, Gwollu, Nandom, Jirapa and Lawra have been signed. As part of the contract, photovoltaic powered submersible pumps will be installed on one (1) borehole for each of the water systems.

### **5.8.3 Capacity Building for WSMS**

A one-day workshop was organized by the Region to train the WSMS on procurement, accountancy and general administration and as well refresh their knowledge on the water billing software. The workshop was attended by Water System Managers, Revenue Officers and Accounts Officers.

### **5.8.4 Regional Stakeholders’ Engagements**

The Region took its turn to organize a regional stakeholders conference to deliberate on the reforms and chart the way forward. The conference was attended by the Deputy Regional Minister, Chief Executives of DAs, traditional rulers, assembly members, NGOs in WASH and other relevant stakeholders. A major issue emerging at the conference was request by participants for CWSA to expedite action to bring all water systems in the region under the reform in order to avert their imminent collapse.

## 5.9 VOLTA AND OTI REGIONS

CWSA – Volta Region has been participating in the management of six (6) water systems since 18<sup>th</sup> June, 2018. Details of the activities carried out and the current status of the water systems are as follows.

### **5.9.1 Rehabilitation and Repair Works**

#### ***Akatsi Water Supply System***

The Regional CWSA with support from CWSA Head Office procured a contractor to carry out rehabilitation of two (2) pump houses and reconstruction of five (5) pump houses for the water system. The work is ongoing and is expected to be completed in April, 2019.

#### ***Adidome Water Supply System***

An assessment carried out on the treatment plant of the water system in the last quarter of 2018 revealed a deteriorating water quality as well as defects at the intake and treatment plant. As a result, the Regional Office with support from Head Office procured the services of a contractor (Messrs Down Limited) for rehabilitation works at the intake and the treatment plant. The works have been completed and handed over to CWSA and water quality has since improved considerably.

#### ***Damanko-Kpassa Water Supply System***

The Regional Office with support from Head Office procured and installed a new transformer for the water treatment plant, hence the water system now relies on the national grid. Rehabilitation works is ongoing on both the intake and the transmission lines of the water system. Even though the works have not been completed, works done so far has enabled the management staff to supply safe water to seven (7) additional communities and therefore the system currently supplies water to ten (10) out of the thirteen (13) communities under its jurisdiction.

#### ***Kwamekrom Water Supply System***

A borehole drilled by the erstwhile WSMT was pump tested during the previous quarter to establish the safe yields and water quality. Civil and other ancillary works on the refurbishment of the existing pump house and construction of a new one was completed and handed over to CWSA.

The new pump house is awaiting installation of submersible pump and its accessories for connection to the water system.

### ***Taviefe Water Supply System***

Rehabilitation works on the pump house and the high-level tank sites has been completed and handed over to CWSA. The water system is awaiting installation of submersible pump and accessories to make it operational.

### ***Vakpo Water Supply System***

Reconstruction of two (2) pump houses, construction of one (1) new pump house and rehabilitation works at the tank site was completed and handed over to CWSA. The water system is awaiting installation of pump and pump accessories to make it operational.

### ***Nkwanta Water Supply System***

CWSA Head Office provided support to the Region to award contract to Messrs E.E and E for the cleaning, redevelopment, pumping test and water quality analysis to ascertain the sustainable yield and water quality as well as rehabilitation of the pump houses and tank site. Works are currently ongoing and is expected to be completed in April, 2019.

### ***Krachi Area Water Supply Systems***

Rehabilitation works on the Banda, Kete Krachi and Chinderi Water Schemes is at advanced stage of completions. Staffs were deployed to manage Banda, Kete Krachi, Dambai and Chinderi Water Systems. However, Kete Krachi and Chinderi Water Systems are yet to be handed over to CWSA. Find details of the status of works in table 5 below.

*Table 5: Status of Rehabilitation Works on the Krachi Area Water Supply Schemes*

<b>Lot #</b>	<b>Contractor</b>	<b>Contract Duration</b>	<b>Contract Sum (GHS)</b>	<b>Community</b>	<b>IPCs (incl. Advance)</b>	<b>Percentage Completed</b>	<b>Remarks</b>
1	Pump Tech Engineering	2 Months	197,751.62	Banda & Chinderi	123,675.49	95%	Expected completion date 31/01/2019
2	Pump Tech Engineering	2 Months	197,175.00	Kete Krachi	157,707.50	95%	Expected completion date

Lot #	Contractor	Contract Duration	Contract Sum (GHS)	Community	IPCs (incl. Advance)	Percentage Completed	Remarks
							31/01/2019
3	CEEKABS Ltd.	2 Months	177,763.08	Dambai	148,402.92	83%	Expected completion date 31/01/2019
4	Pump Tech Engineering	3 Months	199,208.25	Damanko-Kpassa Area	139,249.36	85%	Expected completion date 28/02/2019
<b>Total</b>			<b>771.897.95</b>		<b>231,569.39</b>	<b>89.50%</b>	

## 5.9.2 Water Quality Analysis

### *Akatsi Water Supply System*

The WSMS implemented the appropriate control measures spelt out in the water safety plan to mitigate hazards and hazardous events identified. Public education on water and sanitation issues is still ongoing.

### *Kwamekrom Water Supply System*

Boreholes were redeveloped and water quality analysis conducted. The laboratory test results showed traces of iron and manganese in the water. However, another laboratory test will be conducted to validate the findings since the previous laboratory analysis conducted showed no signs of iron and manganese. Implementation of the water safety plan is ongoing with a couple of support programmes such as proper handwashing and hygiene promotion.

### *Adidome Water Supply System*

Laboratory test results in the previous quarter showed poor aesthetic qualities of the water. Results from the clear well showed a color value of 19.00 Hazen Units (HU) and turbidity value of 9.02 Nephelometric Turbidity Units (NTU) both exceeding the Ghana Standards Authority values of 15.00 HU for color and 5.00 NTU for Turbidity. Following recommendations, the filter media has been replaced and a SANIKIT fixed at the treatment site and cracks in the filter chamber mended as well. Water was sampled and tested for after the works was completed and the results showed a vast improvement in color form 19.00HU to 5.00 HU and turbidity from 9.07 NTU to 3.07 NTU.

Implementation of water safety plan is ongoing with series of community education on water safety issues at the household level.

### ***Damanko-Kpassa Water Supply System***

Implementation of water safety plan is in progress. Public sensitization on proper handling of drinking water and other water related issues was carried out in schools on World Water Day.

## **5.10 WESTERN AND WESTERN NORTH REGIONS**

The Region within the period undertook routine monitoring visits to all the water systems under its jurisdiction plus other activities outlined as follows.

### **5.10.1 Management of Additional Water Systems**

In August 2018, the people of Agona Nkwanta through their representatives (concerned citizens) made a formal appeal for restoration of water to their community after over six months of water crisis. The Regional Office pursued the matter and held talks with Head Office resulting in the Region temporarily managing the water system together with the Ahanta West Municipal Assembly and Messrs. DANAK Construction Ltd. During the quarter, the Agency held a meeting with the Municipal Assembly and Messrs. DANAK Construction Ltd. to pave way for a Public Private Partnership (PPP) arrangement. Subsequently, five (5) staff were deployed to manage the water system of which three (3) have reported. Orientation was held for them at the conference room of CWSA – Western Region on 4<sup>th</sup> March 2019. The Manager and the Accounts Officer for Nsuaem Water System are playing oversight responsibilities in the interim.

### **5.10.2 Engagement of Auxiliary Staff**

The auxiliary staff were interviewed for possible regularisation of their appointments and incorporation into the payroll system.

### **5.10.3 Stakeholders' Engagement**

The Region held a regional stakeholders' conference on the rural water sub-sector reforms on 8<sup>th</sup> March, 2019. In attendance were MDCEs, MDCDs, chiefs, assembly members, opinion leaders, the media and representatives from the RCC. Presentations by both the CNCC and the Regional

Office generated interests among participants in the reforms and requests from chiefs and assembly members that CWSA should make timely interventions in their communities.

#### **5.10.4 Installation of Water Meter and Repair Works**

Four hundred (400) service meters were installed in the various communities during the quarter. Additional 400 service meters were received from Head Office towards the end of the quarter and have been distributed to the water systems for installation in the coming quarter.

Repair works on a damaged distribution pipeline at new Yakase Water System, caused by Samartex Timber and Plywood Ltd. was completed. Also, pipe bursts along the distribution line of the water system as a result of road diversion works undertaken by the Aowin Municipal Assembly was repaired.

## **6.0 PROJECTS**

This section presents the status of GoG and Donor funded WASH projects currently ongoing in the regions. The region by region details as outlined below comprise the project activities carried out, major project milestones achieved, challenges and way forward for timely completion of the projects.

### **6.1 ASHANTI REGION**

There are no special WASH projects running in the region. However, contract was signed for civil works on the rehabilitation and expansion of the Seniagya Water System. The contractor will be introduced to the District Assembly and the community in the first week of April 2019.

### **6.2 BONO, AHAFO AND BONO EAST REGIONS**

The Regional Office facilitated the implementation of the Additional Financing - Sustainable Rural Water and Sanitation Project (AF-SRWSP) during the reporting period. The progress made on the project as at the end of the quarter is as follows.

#### ***Water***

The construction of five (5) small town water systems in Asiri and Jankufa in Jaman North District, Dotobaa in Nkoranza South Municipality, Brosankro in Tano South Municipal and Prang in Pru West District progressed over the quarter. Civil works completion in the various communities as at end of March 2019 were estimated as follows: Asiri (44.42%), Jankufa (63.25%), Dotobaa (60.35%), Brosankro (42.56%), and Prang (51.24%) completed. Registration of potential private customers is ongoing in all the five (5) beneficiary communities.

The contract for Electromechanical Works was signed with Pumptech Limited in February 2019. The works involve installation of hybrid power components of electrical and photovoltaic (solar) pumps in Prang, Dotobaa and Jankufa and installation of electricals in Brosankro and Asiri. The Photovoltaic materials were delivered to the three (3) communities in March 2019 and installations will commence in the coming quarter.

#### ***Sanitation and Hygiene Promotion***



The Sanitation and Hygiene Promotion component of the AF-SRWSP is aimed at achieving Open Defecation Free (ODF) in project communities. Activities involved community sensitisation and support for the construction of household Digni Loo toilets.

In February 2019, three (3) districts took delivery of their last consignment of complete Digni Loos. Additional Digni Loos were supplied to Nkoranza South Municipal, Banda and Sene West Districts. Sunyani Municipal and Sene East District are yet to take delivery of their Digni Loos.

The construction of 1,078 household latrines was completed within the quarter. Cumulatively to date, 1,640 household latrines have been completed in 122 beneficiary communities.

Construction of super structures for 1,710 household latrines in eighty-nine (89) communities is ongoing, most of which are at lentil level. However, there are delays in completing the latrines in all the beneficiary communities. Also, most of the beneficiaries want to use corrugated roofing sheets instead of locally available thatched roofing materials. Sensitisation is therefore ongoing to encourage the use of available cheaper roofing materials.

Verification for ODF communities was conducted in forty-two (42) communities in four (4) districts namely Sunyani and Techiman Municipals, and Kintampo South and Sunyani West Districts. A total of thirty-four (34) communities were declared free from open defecation.

Assessment was conducted in forty-four (44) schools to identify schools to benefit from the school teacher latrine construction. A total of thirty-six (36) schools in thirteen (13) districts were identified to benefit from ninety-five (95) latrines. The budget for the project is under review at CWSA Head Office. The preparation of MoU between CWSA and beneficiary schools as well as community contracting agreements between the schools and latrine artisans have been finalized. Construction is expected to commence within the second quarter of the year.

### ***Environmental and Social Safeguards***

Safeguard compliance monitoring was conducted in the five (5) beneficiary communities of the small towns water supply project to ensure quality with regards to environmental and social safeguards guidelines. It was observed in Prang that community members indiscriminately dump refuse at Pump House No.2. The District Assembly was advised to take appropriate action to

resolve the problem. Those whose properties were affected during construction within the period were identified and duly compensated.

### 6.3 CENTRAL REGION

As at the end of the quarter, all contractors under the AF-SRWSP had mobilized to site and works are at various stages of completion. As part of the environmental and social safeguards activities, compensation disclosure and payments to project affected persons were carried out. A total of 985 project affected persons have been so far compensated in all the beneficiary districts and municipality. The hygiene and sanitation promotion component of the AF-SRWSP also saw the completion of 382 household latrines which are in use. A total of 1,163 latrines including 569 Digni Loos are also under construction.

Updates on the status of the AF-SRWSP and other ongoing WASH projects in the region as at the end of the quarter are presented in table 6 below.

Table 6: Status of On-going WASH Projects in Central Region

Project Name(s)/ Funding Source/ Duration	Amount Received / Transferred through the Region to date	Overall Project Target	Cumulative Achievement (Since Project inception)	Reporting Quarter Target	Reporting Quarter Achievement	Remarks/ Challenges
IDA-AF-SRWSP		<u>GWCL Piped Connection</u> <ul style="list-style-type: none"> <li>• 9No. Small Towns Piped Water System</li> </ul> <u>SANITATION</u> <ul style="list-style-type: none"> <li>• 3,330 Household Latrines</li> <li>• 90 ODF communities</li> </ul>	<u>GWCL Piped Connection</u> <ul style="list-style-type: none"> <li>• 9No. Feasibility Study Completed</li> <li>• 9No. Design of water systems completed</li> </ul> <u>SANITATION</u> <ul style="list-style-type: none"> <li>• 382No. Household Latrines completed</li> </ul>	<u>GWCL Piped Connection</u>  <u>SANITATION</u>	<u>GWCL Piped Connection</u>  <u>SANITATION</u> <ul style="list-style-type: none"> <li>• 280No. Household Latrines completed</li> </ul>	Contractors are on site working  ODF Communities have been triggered.
UNICEF / GoG School WASH Project	€4,954,426.00	<u>WATER</u> <ul style="list-style-type: none"> <li>• 81No. Boreholes with Handpumps</li> <li>• 7No. Water Systems constructed</li> </ul> <u>SANITATION</u> <ul style="list-style-type: none"> <li>• 99No. Institutional KVIPs</li> </ul>	<u>WATER</u> <ul style="list-style-type: none"> <li>• 72No. Successful Boreholes drilled</li> <li>• 21No. Mcwafee plants constructed</li> <li>• 62No. Successful Boreholes with handpumps installed</li> <li>• 10No. Boreholes rehabilitated</li> <li>• 7No. Water Systems practically completed</li> </ul> <u>SANITATION</u> <ul style="list-style-type: none"> <li>• 114No. Institutional KVIPs constructed</li> <li>• 5No. KVIP rehabilitated</li> </ul>	<u>WATER</u>  <u>SANITATION</u> <ul style="list-style-type: none"> <li>• 30 No. Institutional Latrines constructed</li> </ul>	<u>WATER</u>  <u>SANITATION</u> <ul style="list-style-type: none"> <li>• 15 No. Institutional KVIPs constructed</li> </ul>	<u>WATER</u>

			<ul style="list-style-type: none"> <li>• 80No. Group Hand washing facilities procured</li> </ul>		<ul style="list-style-type: none"> <li>• 5No. Institutional KVIPs rehabilitated</li> </ul>	
Global Communities (USAID WASH for Health Project)			<u>WATER</u> <ul style="list-style-type: none"> <li>• 47No. Successful Boreholes with handpumps installed</li> </ul> <u>SANITATION.</u> <ul style="list-style-type: none"> <li>• 40No. Institutional KVIPs constructed</li> </ul>	<u>WATER</u>  <u>SANITATION</u>	<u>WATER</u>  <u>SANITATION.</u>	
Social Investment Fund (Integrated Rural Development Project)		<ul style="list-style-type: none"> <li>• 10 No. Boreholes</li> </ul>	7No. Boreholes mechanized with submersible pumps			
Rotary International/ USAID		<ul style="list-style-type: none"> <li>• 8 No. Boreholes</li> <li>• 13No. KVIP Latrines</li> </ul>	<u>WATER</u> <ul style="list-style-type: none"> <li>• 6No. successful Boreholes with handpumps installed</li> </ul> <u>SANITATION.</u> <ul style="list-style-type: none"> <li>13No. KVIP Latrines</li> </ul>	<u>WATER</u>  <u>SANITATION.</u> <ul style="list-style-type: none"> <li>• 8No. successful Boreholes constructed</li> <li>• 8No. successful Boreholes with handpump installed</li> </ul>	<u>WATER</u>  <u>SANITATION.</u> <ul style="list-style-type: none"> <li>• 8No. Successful Boreholes constructed</li> <li>• 8No, successful Boreholes with handpumps installed</li> </ul>	1 No. Borehole to be mechanised

## 6.4 EASTERN REGION

The CWSA – Eastern Region facilitated the implementation of Rotary International/USAID (RI/USAID) WASH Project, Ghana-Chinese Government 1000 Borehole Program and Plan International Ghana RWASH Projects among others. The status of implementation of the projects are highlighted as follows.

### 6.4.1 RI/USAID WASH Project

A preliminary survey was conducted in Dokrochiwa on the construction of a mechanized water system for the community. Water samples from the borehole were also collected during the pump test for water quality analysis.

Bids were received from shortlisted contractors (Dedart Co. Ltd; Environkay Engineering Services and Multi Concept Services Ltd) for the construction of four (4) iron removal plants in the region. The documents from the respective contractors were opened and evaluated on 14<sup>th</sup> March, 2019 and evaluation report submitted to RI/USAID for approval and award of contract.

WSMTs Training I has been completed in all twelve (12) communities and Training II completed in four (4) communities namely Minimade, Alafia, Kwame Kyere and Lartehfom Ayibontey.

### 6.4.2 Ghana-Chinese Government 1000 Borehole Program

Commissioning of the Ghana-Chinese Government 1000 Borehole Project was held at Densuso on 1<sup>st</sup> February, 2019. The event was attended by officials from MSWR, representative of the Chinese Government, representatives from CWSA – Head Office and other stakeholders in the WASH sector. Under this project, 174 boreholes have been drilled so far – 165 of which were successful. Ten (10) iron removal plants were also constructed for boreholes with high iron content.

### 6.4.3 Project Maji

A solar powered system constructed by Maji Foundation, with support from Zenith Bank, which was to be inaugurated on 21<sup>st</sup> January, 2019 had to be called off and dismantled that same day due to the unruly behaviour of a faction of the people of Adasawase. Despite all efforts to get them to see reason, there was no understanding and therefore Amanase in the Ayensuano District was

chosen as a replacement. The town has already been surveyed by the RWST and community sensitization is on course before construction begins.

#### **6.4.4 Plan International Ghana RWASH Program**

Preparation of traverses for geophysical investigations in twelve (12) communities in the Akuapem North Municipality have been undertaken.

#### **6.4.5 Launching of EPF Sanitation Project**

The EPF has provided funds for the construction of 100 VIP latrines in Kwame Kyere and Alafia in the Ayensuano District. The sanitation project was duly launched on 27<sup>th</sup> March, 2019 at Kwame Kyere for the information and awareness of both communities. The project also involves the training of some latrine artisans in the two (2) communities.

### **6.5 GREATER ACCRA REGION**

The Greater Accra Regional Office of CWSA facilitated the implementation of the RI/USAID WASH Project, Rotary Accra Ridge Global Fund Project, and UNICEF F4WASH 2.0 Program. Details of these projects are presented in table 7 below.

Table 7: Status of On-going WASH Projects in Greater Accra Region

Project Name(s)/ Funding Source/ Duration	Amount received or transferred through the region to date	Overall Project Target	Cumulative Achievement (Since Project inception)	Reporting Quarter Target	Reporting Quarter Achievement	Remarks/ Challenges
Rotary Accra Ridge Global Grant Project	GH¢12,129.00	5 boreholes with hand pumps  Provide community animation and training to WATSANs in 5 communities	Community verification completed.  Community entry activities completed in 5 communities.  Hydro-geophysical investigation completed.  5 boreholes successfully drilled.  Water quality test conducted.  Mobilization phase activities have been carried out.  Construction of MWACAFE plant 90% completed.	Installation of handpumps.  Award of contract for construction of MWACAFE Plant	Contract for construction of MWACAFE plant awarded.  Construction of MWACAFE plant 90% completed.	The GMIMII Hand pump is not in the market. The Afridev handpump has been recommended for use on the boreholes.
RI/USAID WASH PROJECT (16No. Boreholes)	GH¢ 9,860.00	Hydrogeological investigations.  Drilling of 16No. boreholes.  Construction of platforms and installation of 15No. handpumps.  Mechanization of 1 borehole	Bidding documents have been sold.  Bid evaluation has been conducted and a report submitted.  Mobilization phase activities have been carried out in 11 communities.  All 16 boreholes successfully drilled.  8No. boreholes hydrofractured.	Pumping test conducted.  Water quality analysis planning phase activities (WSMT training 2, HSAPs, FMP formulation, etc)	Borehole logging has been done.  8No. boreholes have been Hydrofractured.  Hygiene & Sanitation Action Plans prepared for 4 communities.  Platforms constructed on 10No. boreholes.	Unsuccessful/marginal boreholes drilled in some beneficiary communities

		Provision of extension services in 11 communities	Handpumps installed on 4 boreholes and pumping test completed.  Water quality analysis carried out.		4No. GMIMII handpumps were installed	
UNICEF F4WASH 2.0 Program – Construction of 25 Institutional Latrines	GH¢4,080.72	Construction of 25No. institutional latrines in selected schools within LeKMA and LaDMA	Bid evaluation is completed.  Approval given by Entity Tender Committee for award of contract.	Award of Contract.  Signing of contract and introduction of contractors to sites.	The Entity Tender Committee has approved the evaluation report and recommendations for award of contracts.	Negotiations to review contract sum due to limited budget.
Rotary/USAI D WASH Project	GH¢3,983.00	7No. institutional latrines with hand washing facilities.	Evaluation of bids completed and contract awarded.  Construction works on 4No. institutional latrines have been completed		2No. 3-Seater WC toilet at Amarmoley and Oduman Clinics are near completion.  4No. 4-Seater KVIP at Tebu, Fante Mayera and Balagonno are near completion.  Contract re-awarded for completion of 2No. WC toilet, 4No KVIP latrines and construction of 1No 4-seater KVIP latrine.	RI recommended the termination of the contract of Shakdeen Ltd due to poor performance.  The contract has been re-awarded to Links Drilling and construction Ltd.



## 6.6 NORTHERN, NORTH EAST AND SAVANNA REGIONS

The major WASH projects implemented by the CWSA-Northern Region over the period include AF-SRWSP, UNICEF Assisted WASH Projects, Social Investment Fund Project and RI/USAID H2O Collaboration Project. Details of these projects are as follows.

### 6.6.1 AF-SRWSP

#### *Water*

The Regional Office organized a start-up meeting for relevant stakeholders under the project. Participants included chief executives and coordinating directors from the beneficiary districts, district works engineers, planning officers, contractors and the project consultants. The meeting was used as a platform to further explain the scope of the project, the financial arrangements in place with regards to invoicing and payments, and project milestones among others. The meeting also offered participants opportunity to acquaint themselves with other stakeholders of the project and their responsibilities.

Handing over of project sites was completed in the quarter. Participants included CWSA, the project consultant, contractors, beneficiary district assembly representatives and traditional leadership of the beneficiary towns. Currently, all the contractors are on site except in Chereponi where there is a civil conflict. Although the Chereponi District Assembly has given assurance that the conflict is over and that there is no security threat, a meeting is being planned for the next quarter to assess the security situation in order to guarantee the security of the contractors.

#### *Sanitation and Hygiene Promotion*

The second regional level monitoring of CLTS activities under the sanitation component of the project was carried out within the quarter. The joint team made up of officers from CWSA and the Regional Environmental Health Directorate visited an average of three communities in each of the fifteen (15) project beneficiary MMDAs. The team also held discussions with the DICCS and the MDCDs on the slow pace of work by the field teams. It was made known to the MMDAs that no funds will be released to them until they fulfil provisions under the second tranche of monies received.

After initially declaring five (5) communities ODF, the Sawla-Tuna-Kalba District has agreed to take on board thirteen (13) additional communities bringing the total number of communities yet to be declared ODF to fourteen (14). The Region also embarked on an exercise to assess schools and health centers for the provision of teachers' latrines under the project. The assessment sought to establish the need and availability of space for the construction of the facilities. A total of 260 latrines are to be provided in eighty-one (81) institutions in eighteen (18) MMDAs.

### ***Environmental and Social Safeguards***

The environmental and social safeguard team completed all compensation payment activities to Project Affected Persons (PAP) after receiving the valuation report from the Lands Commission. The team also checked on the status of the land acquisition documentation processes in the various towns. The exercise is a pre-requisite for the commencement of construction works under the project.

#### **6.6.2 SRWSP**

Messrs. Lestako Ventures Ltd who constructed the Kpalbe Water Supply System is yet to be paid retention due him by the East Gonja Municipal Assembly.

#### **6.6.3 UNICEF Assisted WASH Projects**

UNICEF with funding from various sponsors continued supporting the implementation of WASH Programmes in the region through the Northern Regional Coordinating Council. The status of the various UNICEF Assisted sub-projects under CWSA's facilitation are as follows:

##### ***Sanitation Sub-Project***

The office continued with the monitoring and supervision of latrine construction works in schools and health facilities. As a result of delays in the release of funds from UNICEF, only four (4) of the outstanding thirty-nine (39) latrines were completed within the quarter. The twenty (20) additional latrines contracted out to best performing contractors with running contracts are at various levels of completion and are expected to be completed by April 2019.

##### ***Water Sub-Project***

Fifty-four (54) out of the total of 109 drilling attempts made were successful. There were four (4) marginal and fifty-one (51) dry wells. Also, thirty-three (33) pipe extensions were completed pending connection to the respective water supply systems.

A project progress meeting was held at the conference room of CWSA – Northern Regional Office. In attendance were the project consultants for the drilling and pipe extensions, contractors, staff of UNICEF and CWSA. The meeting offered the consultants an opportunity to brief CWSA on the progress of work.

### ***Water Safety Plan Implementation***

Water samples were collected by GWCL for testing to ascertain the physico-chemical and bacteriological elements in the water. The samples were collected from three (3) households and two (2) standpipes in the pilot communities. The results will guide action taking including community sensitization on water safety where necessary.

#### **6.6.4 Social Investment Fund Project**

Two (2) outstanding drilling activities in Kukuo in the Nanumba South District and mechanization of one (1) borehole each in Kukuo and Yunyoo are still outstanding. Efforts by the Region to arrange a meeting to discuss plans for completing all outstanding works has been unsuccessful. The Region is yet to receive response on request submitted to CWSA Head Office for intervention and further directives.

#### **6.6.5 RI/USAID H<sub>2</sub>O Collaboration Project**

Nine (9) institutional latrines completed under the project were handed over to beneficiary schools by representatives of Rotary Tamale Local Branch. Defects detected have been communicated to the contractor for correction.

Also, during the quarter, five (5) boreholes were drilled, two (2) of which were successful and another two (2) marginal. Platforms were constructed on the two (2) successful wells while the two marginal boreholes proved to be successful after pumping for almost three hours during a follow-up pumping test. Concrete pads were therefore constructed and hand pumps installed on all four (4) boreholes. Also, water quality analysis was done on all the boreholes and the results indicate that the water is safe for human consumption.

### **6.6.6 China/GoG 1000 Boreholes Project**

The three (3) outstanding boreholes in Tolon District under the China/GoG 1000 Boreholes Project is still pending.

## **6.7 UPPER EAST REGION**

The Regional Office collaborated with relevant stakeholders in executing the AF-SRWSP and UNICEF Assisted WASH Projects. Details are as follows;

### **6.7.1 AF- SRWSP**

The Regional Office monitored CLTS implementation in seven (7) districts namely Bawku and Kassena Nankana Municipalities; and Kassena Nankana West, Bongo, Garu, Tempene and Builsa South Districts. A total of 1,106 Digni Loos and 669 additional drums were received for forty (40) beneficiary communities in five (5) districts namely Bawku Municipality, Kassena Nankana West, Bongo, Builsa South and Builsa North Districts. Installation was done in some beneficiary communities in the five (5) districts. Also, latrine construction in five (5) communities in the Kassena Nankana West District is 80% complete whilst construction activities in the other districts have reached 30% completion.

The Region engaged some school authorities on the availability of land for the construction of school teachers' latrines and also recommended the approval for the payment of 1<sup>st</sup> and 2<sup>nd</sup> tranches of funds to DICCS and Field Facilitators as approved under the sanitation component of the project. The Community Safeguard Facilitators trained earlier were inaugurated and provided with stationery during the quarter.

### **6.7.2 UNICEF-Assisted WASH Project**

The Regional Office participated in a stakeholders' meeting on the construction of WASH facilities for six (6) health centres under the UNICEF Mother Baby Friendly Health Initiative (MBFHI) and also supervised and monitored the construction activities. Construction is completed, final inspection done and all the facilities technically handed over to the beneficiary health centres. The Office also carried out the following activities under the UNICEF Projects;

- Supervised and monitored the construction of KVIP latrines under the UNICEF Football for WASH (F4WASH) Project. In all, twenty-four (24) KVIPs have been completed and six (6) handed over to the beneficiaries.
- Supervised and monitored the construction of KVIP latrines under the UNICEF ENHANCED WASH Project in schools. Eight (8) KVIPs have been completed and handed over to beneficiary schools.
- Monitored the drilling of eighteen (18) boreholes in the Builsa South and Bongo Districts. Thirteen (13) boreholes have been drilled and fitted with hand pumps while the outstanding ones are at various stages of completion.
- Monitored Water Safety Plan implementation in the two (2) pilot communities under UNICEF initiative.
- Participated in Environmental and Social Management Framework meeting organised by the Department of Community Development through UNICEF.
- Participated in RICCS takeover of 3<sup>rd</sup> party verification training in Bolgatanga and field visit to Garu.
- Participated in UNICEF Maiden Sanitation Marketing Team meeting in Bolgatanga.
- Participated in the Social Norms Review/Result Based Financing (RBF) Team meeting organised by the Department of Community Development in Bolgatanga
- Participated in UNICEF sponsored Sanitation Technology Training in Bolgatanga

## 6.8 UPPER WEST REGION

The major ongoing projects facilitated by the CWSA – Upper West Region during the quarter are the AF-SRWSP, GoG 20,000 Borehole Project, UNICEF-Assisted WASH Project and the UN Habitat WASH in Disaster-Prone Communities (DPCs). Details of the projects are as follows.

### 6.8.1 AF-SRWSP

#### *Water*

The Regional Office monitored ongoing rehabilitation and expansion works on the Lambussie and Hamile-Happa Small Town Piped Water Systems. The two water systems were about 60% complete as at the end of the quarter.

The Region also advertised draft tender documents for the drilling of 250 boreholes in five (5) districts. Bids were opened between 18<sup>th</sup> and 22<sup>nd</sup> March, 2019 for all the beneficiary districts. Bidding documents have also been advertised for the supply and installation of handpumps and sale of documents closes on 25<sup>th</sup> April 2019. Messrs Phibeta Consult has held discussions with CWSA – Head Office on supervision of the project.

Drilling of thirty (30) boreholes in five (5) districts which commenced in 2018 is on-going. The contractor Messrs EE&E has so far made eleven (11) drilling attempts in three (3) districts with six (6) successes. The contractor has since submitted the first invoice which has been forwarded to Head Office for onward submission to Ministry of Finance for payment.

### ***Sanitation and Hygiene Promotion***

Hygiene and sanitation promotion in 120 communities is ongoing. A total of fifty (50) ODF communities have been achieved at the end of the quarter.

### **6.8.2 GoG 20,000 Borehole Project**

The status of the project has not changed during the quarter under review. A total of 116 successful boreholes have been drilled since inception of the project. Concrete pads have been constructed and hand pumps installed as well on eighty-six (86) of the boreholes. Concrete pads are yet to be constructed on the remaining thirty (30) boreholes whose hand pumps are yet to be supplied.

### **6.8.3 UNICEF-Assisted WASH Project**

#### ***Water***

The Region through the CWSA Head Office has advertised for bids for the drilling of boreholes for selected schools in Nadowli Kaleo, Sissala West and Wa East Districts and also rehabilitation of piped water systems in Gwollu (Sissala West District); Kaleo and Nadowli (Nadowli-Kaleo District); Daffiama (Daffiama-Bussie-Issa District); and Funsu (Wa East District).

### ***Sanitation and Hygiene Promotion***

The Regional Office has handed over eight (8) KVIP latrines in eight (8) schools in the Wa West District out of the thirty-two (32) latrines to be constructed. The beneficiary schools are Jambussie/Mwaabasi Kindergarten and Primary, Nankpaanabuli Primary, Naasa Basic, Deriguoteng, Kantu DA Primary, Kantu Junior High School, Guo and Eggu Primary Schools. The remaining twenty-four (24) latrines are at various stages of completion.

The Regional Office through Head Office has open bids for the construction of five (5) latrines and rehabilitation of five (5) institutional latrines in the Nadowli-Kaleo District.

#### **6.8.4 UN Habitat WASH in DPCs**

Continuous monitoring of boreholes provided under the WASH in DPCs was carried out in the beneficiary districts namely Lawra, Nadowli-Kaleo, Wa West and Sissala East Districts over the quarter.

### **6.9 VOLTA AND OTI REGIONS**

Over the period, the CWSA - Volta Regional Office facilitated the implementation of the Water Supply Improvement Project (WSIP) of the Ghana-Spain Debt Swap for Development Programme (DSDP), Plan International Ghana Integrated Water, Sanitation and Hygiene (IWASH) Project and UNICEF WASH Programme. Details of the projects are as follows.

#### **6.9.1 Four (4) Constituencies Water Supply Project Phase III- Austrian Government Funded (STRABAG)**

The phase III of the project involves construction of distribution networks to supply water to Central Tongu, North Tongu, Adaklu and Agotime–Ziope Districts, and Ho Municipality. The Ministry of Finance has confirmed acceptance of increase in loan agreement from €7.8million to €11.5million to the Austrian Government. Following this, a joint memorandum (by the Hon. Minister of Finance and the Hon. Minister of Sanitation & Water Resources) was sent to the Cabinet of the Republic of Ghana for approval of a loan of €11.5 million for the commencement of the project.

## 6.9.2 WSIP of the Ghana-Spain Debt Swap for Development Programme

M/S DOWIN Ltd, the contractor responsible for the construction of the Ziope Limited Mechanised System and Akpokope/Batume Junction Water Supply Systems (LOT 2) practically completed the works and handed over to CWSA in December 2018. The facilities are in the defects liability period. Construction works on the remaining water systems is in ongoing. Progress is however slow especially for Lot 4 (Water Supply Schemes for Anyirawase, Kpale Xorse, Kpale Ga, Saviefe Agorkpo, Saviefe Deme & Saviefe Gborgame) where the contractor Messrs VALOOK Construction Works Ltd has done only approximately 18% of the works within the entire period allowed for the project. Similarly, M/S BISS Integrated Company Ltd. who is responsible for Lot 6 (Surface Water Supply Schemes for Adaklu Waya & Agotime Afegame) has completed only approximately 30% of the works over the allowable construction period.

However, some Interim Payment Certificates (IPCs) presented to the Ministry of Finance takes too long to be honoured thereby affecting timely completion of works. Table 8 below shows the levels of completion of works done.

*Table 8: Status of Works done under the Water Supply Improvement Project*

Lot #	Contractor	Contract Duration	Contract Sum (GHS)	IPCs (including Advance)	Percentage Completed	Remarks
1	YANDEG Co. Ltd.	6 Months	2,074,432.51	1,281,680.44	62%	Behind schedule
2	DOWIN Ltd.	6 Months	1,550,115.24	1,373,067.68	95%	Practically completed. DLP running
3	BIZ-GEO Co. Ltd	6 Months	1,593,635.75	591,311.39	30%	Behind schedule
4	VALOOK Contract Works Ltd.	6 Months	1,807,084.51	328,560.82	18%	Behind schedule
5	DENLARRY Construction Works Ltd.	6 Months	1,445,393.90	607,894.50	42%	Behind schedule
6	BISS Integrated Company Ltd.	9 Months	3,043,260.00	840,593.39	30%	Behind schedule
7	UNIMENSIL Ventures Ltd.	9 Months	3,566,031.76	1,458,581.55	75%	Satisfactory
<b>Total</b>			<b>15,079,953.67</b>	<b>6,481,689.77</b>	<b>42.98%</b>	

The Project Manager of the TRAGSA Group (the Spanish consultant) on the DSDP project undertook a fifth mission from 11<sup>th</sup> to 19<sup>th</sup> February, 2019 on the construction supervision phase



to have first-hand information on progress of work. There are nine (9) missions in all and the next mission is tentatively expected in the 2<sup>nd</sup> quarter of 2019.

### **6.9.3 RI/USAID Collaboration WASH Project**

The construction of five (5) boreholes in the Kadjebi and Nkwanta South Districts was completed by the consultant (M/S Watersites Ltd) and contractor (M/S JoissamGH Ltd). Due to the high level of Manganese in the water, the Regional Office recommend the installation of MWACAFE treatment plant on the boreholes for Dodo Akum and Hevikpotame.

### **6.9.4 Plan International Ghana IWASH Project**

Plan International in collaboration with the German National Office under the IWASH Project in schools and communities engaged the services of the Region to facilitate the drilling of twelve (12) boreholes in twelve (12) communities in the Afadzato South District. The communities are Leklebi Dafor, Leklebi Fiape, Tafi Abuife, Tafi Ando, Tafi Mador, Have Sadzikofe, Have Ando No.1, Have Ando No.2, Woadze Tsatoe, Nyagbo Odumase, Leklebi Agbesia and Adigbo Tornu. The Region has carried out baseline (reconnaissance) survey in all the communities and the report submitted to Plan International Ghana. Other activities including geophysical site investigation and drilling supervision will be carried out in the next quarter.

### **6.9.5 UNICEF WASH Programme**

#### ***Sanitation and Hygiene Promotion***

During the period, the three (3) KVIPs (one each for Keta A.M.E Zion, Woe Rhema and Anloga Atiehefe Basic Schools in the Keta Municipal Assembly) abandoned by the contractor (M/S Anansu Trust Ltd) were repackaged and awarded to Messrs. WIN MEG Ventures Limited. All the latrines are currently under construction.

Also, works on the rehabilitation of fifteen (15) KVIP latrines for fifteen (15) schools in three (3) districts (North Dayi District, Kpando and Keta Municipalities) commenced within the quarter.

#### ***Water Safety Planning***

The Region has commenced the second monitoring phase of the implementation of Water Safety Plans in the two (2) pilot communities. As part of that, the Region held two separate one-day pre-

monitoring and planning meetings with the DCEs and core staff of the two implementing districts at Kadjebi and Dzolokpuita in the month of February. The meetings afforded the Regional Water Safety Planning Team the opportunity to update the DCEs and as well brief newly transferred core district assembly staff on the basics of water safety planning and the status of the project in their districts.

In the Ho West District, the Regional Water Safety Planning Team requested for replacement of two officers on the District Water Safety Planning Team who would be going on retirement in March and April, 2019 and the District Assembly acted accordingly. The Regional and District Water Safety Planning Teams also carried out separate monitoring visits to Wawaso and Anfoeta Gbogame in the month of March.

#### 6.10 WESTERN AND WESTERN NORTH REGIONS

The CWSA – Western Region facilitated the implementation of the AF-SRWSP and RI/USAID WASH projects over the period. Details of the projects are as follows.

##### **6.10.1 AF-SRWSP**

###### *Water*

The procurement process for the completion of the Oseikojokrom and Asempaneye Water Systems was completed and contracts awarded. A start-up meeting was held and the contractor trained on environmental and social safeguards. Works is expected to commence in the next quarter.

###### *Sanitation and Hygiene Promotion*

During the quarter, the Region facilitated the distribution of Digni-loos to the communities and construction of superstructures. The Region has so far received and distributed 2,317 Digni-loos. The beneficiary districts were Juaboso, Ellebelle, Sefwi Wiawso, Aowin, Wassa Amenfi Central, Wassa East and Bia West.

##### **6.10.2 RI/USAID**

Drilling works on seven (7) boreholes, six (6) to be fitted with hand pumps and one (1) to be mechanised for a limited reticulation, has been completed. WATSAN formation was completed

during the quarter and training scheduled for the second quarter of the year. Procurement is ongoing for the award of contract for mechanisation of the one borehole.

***Sanitation and Hygiene Promotion***

The seven (7) beneficiary communities of the project were sensitized on good hygiene and sanitation practices. WATSAN committees were also formed to see to the effective management of the facilities being provided.

## 7.0 CHALLENGES

The Agency encountered some technical, operational, financial and administrative challenges in delivering WASH services to rural communities and small towns within the quarter. These challenges largely impacted negatively on achievement of the Agency's performance targets for the quarter. Key among them are highlighted as follows;

- Frequent pipe burst and breakdown of the water systems due to their deplorable state before CWSA's intervention.
- Inadequate water sources and pumps for most water systems resulting in water rationing in almost all small towns across the regions.
- Frequent burning of pumps and control panels due to intermittent power supply.
- Inability of the water systems to serve the entire populations within their spheres of influence due to lack of expansion over the years.
- Resistance of some community members and chiefs to CWSA's participation in the management of the water systems.
- Irregular power supply for reliable water supply in most of the communities.
- Delays in payments (by Ministry of Finance/Spanish Embassy) for works done by the contractors under the TRAGSA project thereby delaying project completion dates.
- Insufficient budgetary allocation and untimely release of GoG funds for CWSA's operations.
- Lack of commitment on the part of some contractors/consultants on WASH projects resulting in late delivery of project outputs and low quality of works.
- Huge outstanding electricity bills incurred by the erstwhile operators of some of the water systems that are currently under CWSA's management.
- Low commitment and capacity of most WSMTs to manage water systems that are still under their management coupled with low capacity and resource constraints of MMDAs to monitor the activities of these WSMTs.

- High mineral contents (fluoride, manganese, arsenic, iron, etc.) in underground water especially in the northern regions.
- High salinity of groundwater particularly in communities along the coast.
- Lack of adequate strong field vehicles and motor bikes for operational and monitoring activities.
- Non-payment of the 5% retention to contractors by MMDAs for physical facilities constructed under the SRWSP.
- Difficulty in accessing some project communities especially in the northern part of the country due to poor roads.

## 8.0 RECOMMENDATIONS

The Agency makes the following recommendations for addressing the abovementioned challenges towards the provision of improved WASH services to Ghana's rural communities and small towns for the attainment of the SDG 6;

- The Agency to mobilise adequate funds to intensify rehabilitation works on all water systems in deplorable state and as well provide adequate water sources and pumps for the water systems under the reform.
- The Agency to undertake expansion works on water systems that have outlived their design lifespan to enable them serve the entire populations within their spheres of influence.
- CWSA to continue dialogues with relevant stakeholders especially at the community level to win the buy-in and support of community members and chiefs for the Agency's reform program.
- The Agency to consider solar energy as an alternative source of power for the water systems to ensure uninterrupted water supply to customers.
- CWSA to lobby the Ministry of Finance and the Spanish Embassy for prompt payment of all outstanding monies due the contractors working under the TRAGSA project.
- The Agency to liaise with GoG to ensure timely release of adequate funds for operations and execution of intended WASH projects.
- CWSA to continue to pay off the outstanding electricity bills incurred by the erstwhile WSMTs and private operators of the water systems that are currently under the Agency's management.
- CWSA to intensify the use of professionals to manage the small towns water systems and closely monitor their activities so as to deliver safe, reliable, affordable and sustainable water to the rural and small towns population.
- CWSA to collaborate with WASH sector practitioners and the academia to research and innovate solutions to address issues of high mineral contents of underground water.
- CWSA to lobby for cross country vehicles to facilitate effective monitoring of projects and the activities of WSMS and other WASH service providers.

- The Agency to liaise with the Ministry of Local Government and Rural Development and the RCCs to lobby the MMDAs to ensure payment of the 5% retention to contractors for physical facilities constructed under the SRWSP.

## **9.0 CONCLUSION**

Even though not much was achieved under ongoing WASH projects as it was evident in the review of the key performance indicators for the quarter, the Agency made some significant strides in the rural water sub-sector reforms through the rehabilitation of some water systems, regular monitoring of water quality and efficient management of the water systems. This resulted in improvement in both the quantity and quality of water supplied to people living in some rural communities and small towns.

The several regional and community level stakeholders' engagements carried out within the quarter also resulted in community buy-in and support for the reform agenda except few communities which are yet to appreciate the importance of the reforms. As a result, in the coming quarter, stakeholders' engagements will continue in both the reform communities and communities that are yet to participate in the reform. Also, the nationwide regional stakeholders' engagements on the reforms, which commenced in the reporting quarter will take place in the remaining regions i.e. Ashanti and Greater Accra in the coming quarter.

CWSA will however maintain strong partnership with all rural WASH sector players notably GoG, sector ministry, allied MDAs, DPs, CSOs, the private sector and MMDAs to ensure timely completion of all ongoing projects in the sector.