



# CLUB DES AMIS DU VILLAGE

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## PROJECT: «IMPROVE ACCESS TO WATER FOR THE COMMUNITY OF SAGBADAÏ IN THE PREFECTURE OF TCHAOUDJO»

MID-TERM TECHNICAL REPORT OF THE DRILLING PROJECT IN SAGBADAÏ  
(FROM THE LAUNCH OF THE PROJECT TO THE ANALYSIS OF THE DRILLING WATER)

Ref.: NGO CAV / GG / Projects 2024 / 002

SEPTEMBER 2024

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**« UNE ORGANISATION DE PROMOTION DE LA FEMME ET DE PROTECTION DE L'ENFANCE »**

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## **INTRODUCTION**

The project “Improving access to water for the Sagbadaï community in the Tchaoudjo prefecture ” began with the awareness-raising stage of this community on August 1, 2024. It is implemented by the NGO CAV with the financial support of the COCHRAN Family based in the USA through GlobalGiving .

This report summarizes all activities carried out from August 1 to September 24, 2024.

The following activities were carried out during this period:

- Raising awareness among the population about the project and setting up drilling sites ;
- Carrying out geophysical studies;
- Drilling wells;
- Water pumping and analysis
- Monitoring of project activities.

## **PROGRESS OF ACTIVITIES**

### **1. Raising awareness among the population about the project and establishing drilling sites:**

The awareness-raising took place on August 1, 2024 in favor of the Sagbadaï community with the participation of the project team including the Coordinator and the Accountant of the NGO, the Director of the drilling company and the quality controller

During this awareness-raising session, the beneficiaries were provided with information on their responsibilities to now take charge of the management and maintenance of the works to be built.

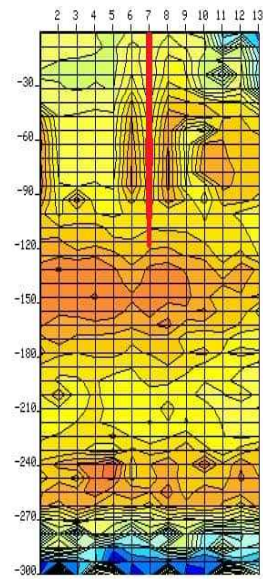
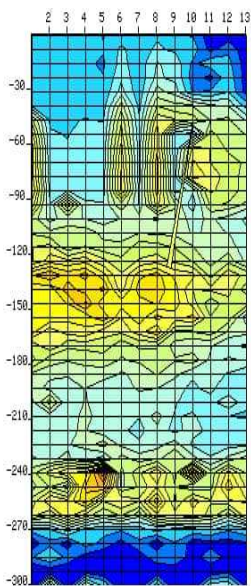
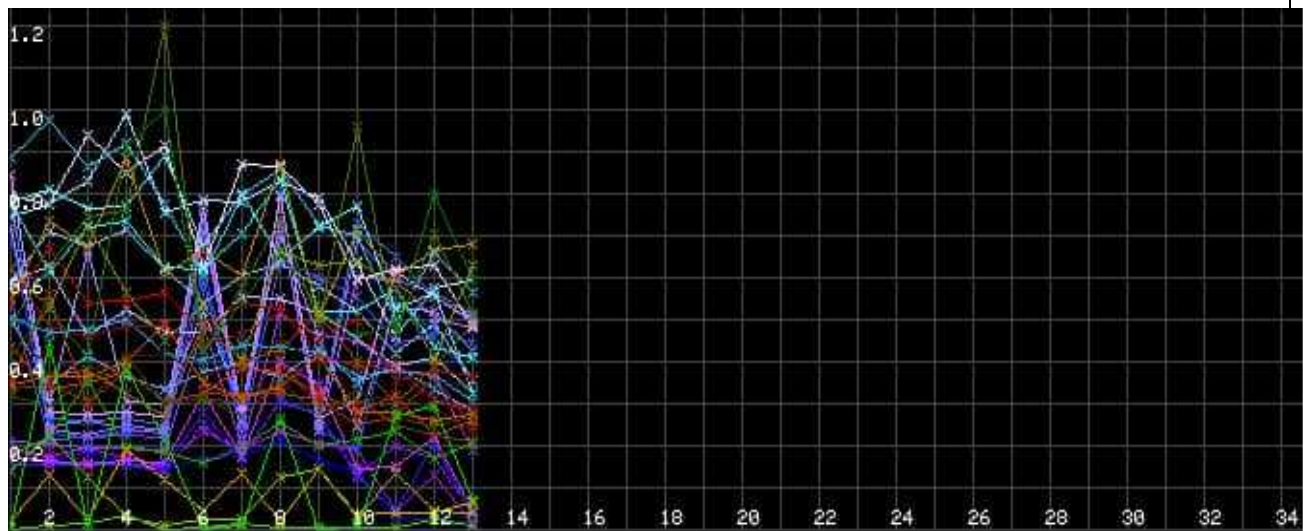
An area of at least a quarter of a hectare has been selected by the community for geophysical studies.

### **2. Geophysical studies:**

Geophysical studies were carried out on August 27, 2024. These studies revealed the existence of abundant water tables at a depth of approximately 60 meters as indicated by the following results:

**Table 1 – Results of geophysical studies**

Date: 08/29/2024	Region : Central	Prefecture: Tchaoudjo
Canton: Kpangalam	Village: Sagbadaï	Place name: Tchore
Profile length: 23 m	Number of points: 13	Orientation: W / E
	Positive point: 07	
Latitude: 9.075943°	Longitude: 1.063242°	Altitude: 356.22



**Conclusion: Point 7 is favorable for drilling 60 meters deep on average and 90 meters deep at most.**

### 3. Drilling, Development and Equipment of Drilling

The drilling works were successfully completed on August 29, 2024 at the chosen site. The technical data are recorded in the table below

**Table 2 – Drilling results**

No.	Region	Prefecture	Canton	Village	Place name	Drilling date	Depth (m)	Flow rate of Drilling (m <sup>3</sup> /h)	Status
1	Central	Tchaoudjo	Kpangalam	Sagbadai	Tchore	08/29/2024	70	3,500	Positive

### 4. Pumping and physicochemical and microbiological analyses of borehole water:

The pumping of the boreholes was carried out two (2) weeks after the drilling stage. It took place on September 12, 2024 and consisted of:

- ✓ Measure the flow rate of the borehole;
- ✓ Determine the variation in its production at different flow rates;
- ✓ Quantify aquifer characteristics, including permeability coefficient and water storage capacity.

The pumping data is shown in the table below:

**Table 3 – Pumping results**

Region	Prefecture	Canton	Villages	place name	Flow rate (m <sup>3</sup> )	Static Level (m)	Dynamic Level (m)	Pump rating (m)
Central	Tchaoudjo	Kpangalam	Sagbadai	Tchore	5,400	5.56	55	65

At the end of the pumping, water samples were taken for physicochemical and bacteriological analyses at the laboratory, at the Regional Directorate of Hygiene and Sanitation. The analyses were carried out from September 12 to 17, 2024.

The results of the analyses were therefore deemed satisfactory and fully meet WHO (World Health Organization) standards.

The results are contained in the following tables

**Table 4 – Results of physicochemical water analyses**

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L'HYGIENE PUBLIQUE**

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Laboratoire du SRHAB Centrale

**FICHE DE CONTROLE DE ROUTINE D'ANALYSE PHYSICO-CHIMIQUE D'EAU DE  
BOISSON**

Numéro de référence : 022/SRHAB/2024	Date de réception : 12/09/24
Origine : TCHAOUDJO/KPANGALAM/SAGBADAI/TCHORE	Date de début des analyses : 12/09/24
Nom du client : ONG CAV	
Date et heure de prélèvement : 12/09/2024 à 10H45mn	
Responsable de prélèvement : Entreprise GOODLUCK	Date de fin des analyses : 17/09/24
Désignation de l'échantillon : Eau brute de forage	

N°	Paramètres physico-chimiques	Méthode	Résultats	Directives UE	Directives OMS
1	Couleur (Qualitatif)	Qualitatif	0	< 15(*)	<20
2	Odeur (qualitatif)	Qualitatif	Aucune	Limite subjective	-
3	Saveur (qualitatif)	Qualitatif	Aucune	Limite subjective	-
4	pH	Potentiométrie	7.6	6,50-8,50(*)	6,50-8,50
5	Turbidité (NTU)	Tube de Jackson	<5	5	<5
6	Fluorure (mg F/L)	Photométrie	0.04	1,5	1,5
7	Fer total [Fe <sup>2+</sup> Fe <sup>3+</sup> ](mg Fe/L)	Photométrie	0.03	≤0,2 (*)	≤0,3
8	Manganèse (mg Mn/L)	Photométrie	0.008	≤0,05 (*)	≤0,4
9	magnésium (mg Mg/L)	Photométrie	15.00	≤50 (*)	-
10	TH calcique (mg Ca <sup>2+</sup> /L)	Photométrie	37.00	100(**)	-
11	TH magnésienne (mg Mg <sup>2+</sup> /L)	Photométrie	20.00	≤50 (*)	-
12	Ammonium (mg NH <sub>4</sub> <sup>+</sup> /L)	Photométrie	0.00	≤0,5 (*)	≤1,5
13	Nitrates (mg NO <sub>3</sub> /L)	Photométrie	0.007	≤50 (*)	≤50
14	Nitrites (mg NO <sub>2</sub> /L)	Photométrie	0.00	≤0,1 (*)	≤3
15	Ortho phosphates (mg PO <sub>4</sub> <sup>3-</sup> /L)	Photométric	0.06	≤ 5 (*)	1,5
16	Arsenic (µg AS/L)	photométrie	0.00	≤ 50	≤ 10

**INTERPRETATION :**

L'échantillon analysé est de qualité physico-chimique et organoleptique "SATISFAISANTE".

Date : 17/09/2024

Le responsable :



**Table 5 – Results of microbiological water analyses**

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Laboratoire du SRHAB Central

MICROBIOLOGIQUE

FICHE DE CONTROLE DE ROUTINE D'ANALYSE PHYSICO-CHIMIQUE D'EAU DE  
BOISSON

*[Signature]*  
Ousmane

Numéro de référence : 022/SRHAB/2024	Date de réception : 12/09/24
Origine : TCHAOUDJO/KPANGALAM/SAGBADAI/TCHORE	Date de début des analyses : 12/09/24
Nom du client : ONG CAV	Date de fin des analyses : 17/09/24
Date et heure de prélèvement : 12/09/2024 à 10H45mn	
Responsable de prélèvement : Entreprise GOODLUCK	
Désignation de l'échantillon : Eau brute de forage	

**RESULTATS**

N°	Paramètres	Résultat	Conc. Admissible	Conformité
1	Coliformes thermo tolérants (44°C) (CTH)	0	1 UFC/100 ml	satisfaisante
2	<i>Escherichia coli</i> (E.c)	0	1 UFC/100 ml	satisfaisante
3	Entérocoques (Ent.)	0	1 UFC/100 ml	satisfaisante
4	<i>Salmonella spp</i>	0	Absence/100 ml	satisfaisante

<p><b>INTERPRETATION :</b> L'échantillon d'eau analysé est de qualité microbiologique "SATISFAISANTE" par rapport aux paramètres recherchés.</p>	<p>Date : 16/09/2024 Le responsable : <i>[Signature]</i></p> <p><i>[Stamp: Naya]</i> Naya Du Service de l'Hygiène et de l'Assainissement de Base (SRHAB) Region Centrale</p>
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## 5. Coordination and monitoring of project activities.

Follow-ups were carried out by the project team. This team is composed of the Coordinator, the Accountant and the Cashier of the NGO. Monitoring tours of the drilling work were organized during the geophysical studies, drilling and water pumping work. Telephone, email and Whatsapp contacts were exchanged between the project team, the company and the person responsible for technical monitoring of the project.

### II - NEXT STEPS:

The activities to be carried out from September 26, 2024 are as follows:

- Supply of equipment and installation of mechanical feed systems (Construction of the drilling superstructure).
- Support for the establishment of the Water Committee, responsible for monitoring and managing drilling;
- Training of Water Committees on the maintenance and sustainable management of boreholes;
- Technical and provisional reception of works;
- Final acceptance of works;
- Monitoring and supervision of project activities.

Done in Sokodé, September 25, 2024.

For the NGO CAV, the Coordinator



**GBELE-GUEWE Djobo Ousmane**

**ANNEXES:**

**SOME PHOTOS OF THE ACTIVITIES CARRIED OUT**



**Awareness raising in the Sagbadai community on August 1 · 2024**





**Geophysical studies organized on August 27, 2024**



**Well drilling at the project site on August 29, 2024**



Well drilling at the project site on August 29, 2024





**Drilling test organized on September 12, 2024**

