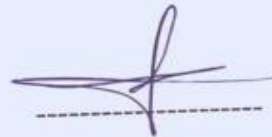


MEMORANDUM

FROM: DISTRICT ENVIRONMENTAL HEALTH ANALYST
TO: DCE/DCD
DATE: 10TH JANUARY, 2023
SUBJECT: SUBMISSION OF 2022 ANNUAL REPORT

I submit herewith the annual report of the Environmental Health and Sanitation Unit of the Ellembele District Assembly for your perusal and necessary action.

Thank you



Oliver Cromwell

② BPO/AD

P/s take note and include in EDA progress report

10/01
2023

ELLEMBELLE DISTRICT ASSEMBLY



ENVIRONMENTAL HEALTH AND SANITATIONN UNIT

ANNUAL REPORT FOR 2022

BY: PHILIP YAW ZUTUNU

DIST. ENV. HEALTH
ANALYST

1.0 INTRODUCTION

Waste is introduced into the environment due to day-to-day activities of humans. Waste management which seeks dealing with waste at every stage from generation and collection through to final disposal control are the best way in enhancing environmental health by preventing contact with humans or their immediate environment. Ghana as a nation is largely plagued by sanitation challenges, including problems with disposing of both solid and liquid wastes and other environmental ailment.

The Ellembele District's Environmental Health and Sanitation Unit of has its main office located in Nkroful, the District Capital. with two sub- office located in Aiyinase and Esiam. Control and management of all environmental and sanitary related issues within the District are the primary responsibilities of the department. In view of this, the department was able to undertake the following activities prior to the action plan for the year for all quarters, oversight of waste and collection, cleanliness of key business districts, and enforcing sanitation legislation, participation of the communities in good sanitation practices, neighborhood disinfection and cleanup and food handlers training and screening.

2.0 ADMINISTRATION

2.1. Staffing

The District has nine Environmental Health Officers, one Environmental Health Analyst, two (2) Assistant Environmental Health Analysts, one (1) Technical officer and six (6) Technical Assistants responsible for sanitation within the District. Per the ratio of Environmental Health Officer to the Community, it shows that Officers are under staffed. The table below shows Officers grade and their jurisdiction of work.

Table 1.

S/N	Staff Name	Rank	Station
1.	Oliver Cromwell	Environmental Health Analyst	DEHA- Nkroful
2.	Philip Yaw Zutunu	Assistant Env. Health Analyst	DDEHA
3.	Robert Opuni Mensah	Assistant Env. Health Analyst	Aiyinase Council
4.	Linda Eshun	Env.Health Officer1	Aiyinase Area Council
5	Ivy Kodzovi	Principal. Env. Health Assistant	Esiama Area Council
6.	Gladys Akahee	Senior Env'tal Health Assistant	Esiama Area Council
7.	Alusi Doris Awontemi	Senior Env'tal Health Assistant	Aiyinase Area Council
8.	Bana Mohammed	Senior Env'tal Health Assistant	Esiama Area council
9.	Chambas Maximus Bumbommong	Environmental Health Assistant	Aiyinase Area council

2.2. Sanitation Guards and Service Personnel

Currently the Unit has only four Sanitation Guards employed by the National youth Employment programme to support the activities of Environmental Health Officers. They assist Officers in their various Area Councils as shown in the table below.

Table 2.

S/N	NAME	DESIGNATION	AREA STATIONED
1.	Francis N. K. Asabah	Sanitation guard	Nkroful
2.	Duaglas Anyimiah	Sanitation guard	Esiama
3.	Linda Elimah	Sanitation guard	Aiyinase
4.	Moses Musah	Sanitation guard	Nkroful
5.	Stephen Boavoh Quayson	Service person	Nkroful
6.	Philemon Osei	Service person	Nkroful
7.	Armah Isaiah	Service person	Nkroful

2.3 Labourer Force

The Unit has a total of six (6) market sweepers, four (4) office cleaners and four (4) labourers responsible for weeding, packing of items, burial of pauper and any other work. Out of this only one is permanent and the rest are employed by the District. The table below shows labourers and their place of jurisdiction.

Table 3.

S/N	NAME	DESIGNATION	STATION
1.	Patience Cudjoe	Market sweeper	Asasetre
2.	Obed Kpolly	Market sweeper	Asasetre
3.	Esther Kwofie	Market sweeper	Asasetre
4.	Rebecca Blay	Office cleaner	Nkroful
5.	Christina Fobi	Office cleaner	Nkroful
6.	Godfred Miezah	Labourer	Nkroful
7.	Maxwel Essien	Labourer	Nkroful
8.	Anko Kwofie	Market sweeper	Aiyinase
9.	Francis Armah	Market sweeper	Aiyinase
10.	Seseku Kwofie	Market sweeper	Aiyinase
11.	Nkrumah Yvette	Office cleaner	Nkroful
12.	Gladys Kwakuvi	Office cleaner	Nkroful
13.	James Kabenlah	Labourer	Nkroful
14.	John Annor	Labourer	Nkroful

3.0 WASTE MANAGEMENT

3.1 Solid Waste

The District has two final waste disposal sites situated at Ampain and Nkroful, the most frequently used one is the Ampain site. The Nkroful site is not frequently use because of the bad road nature to the dump site. However, both sites are being managed on quarterly bases. The pictures below show pushing and leveling activities during each quarter of the year.



Fig 1. Before pushing at Nkroful and Ampain final disposal site



2. during pushing at Nkroful and Ampain final disposal site.



fig.3. After pushing at Nkroful and Ampain site

3.2. Container Services in the District

The District has a total number of sixteen (16) skips, with one Skip truck. Out of the sixteen (16) skips, ten (10) belongs to the Zoomlion Ghana LTD and the remaining six (6) belongs to the District Assembly. However, lifting and management is done by Zoomlion and supervised by the Environmental Health Officers. The table below shows highly populated communities with skips.

Table 4

S/N	Community	Population	Quantity daily solid waste generation	Number of container	Location of container in the community
1.	Esiama	12,317	6.1585tons	4	Kundum grounds, Nkroful road, Mozukro, adjacent Esiama cemetery
2.	Nkroful	5,918	2.959tons	4	New site (2) Near MP`s office (1) catholic primary(1)
3.	Aiyinase	17,104	8.552tons	3	Near Aiyinase Health center, Awiebo road
4.	Kikam	5,851	2.9255 tons	2	Near the community market
5.	Asanda	5,541	2.7705 tons	1	Public toilet
6.	Edwakpole	1,042	0.521tons	1	Near the old waste disposal site
7.	Teleku Bokazo	6,103	3.0515 tons	1	New site
	Total		26.938tons	16	

➤ Daily district wide waste generation

District Population – 120,893

=120,893x0.5kg /1000

=60.4465tonnes

- The first quarter district wide waste generation

Daily generation by 90 days

= 60.4465x90 days

=5,440.185 tons of waste

Hence the annual waste generation is **1,958,466.5tonnes**

NB: from the table above the District needs additional containers to enhance solid waste management.

3.3 Central Business cleansing

The Environmental Health Unit supervised and monitored the day-to-day activities of Zoomlion employees in cleaning of the central business centers such as truck parking lots, sewers and other public places in the district. The cleaning and collection of refuse at their respective centers occurs daily from 5am to 7am early in the morning.



Zoomlion cleaning the central business centers

4.0 LIQUID WASTE

4.1 Liquid Waste

Currently the District is having one stabilization pond at Nkroful dump site which is used for liquid waste disposal.

4.2 Drain cleansing activities

On 16th November, 2022 the Environmental Unit in collaboration with NADMO organized drain cleansing exercise at Aiyinase in order to ensure free flow of waste water and also prevent breeding of mosquitoes.



During



After

4.3 Household Latrine Situation in the District from 2020 to 2022

Liquid waste management has improved as a result of an increase number of household latrines in the District. The increase is linked to previous CLTS program implemented by the District Assembly. Table below shows the details of household latrines in the District.

Table 5**SUMMARY OF 2020- 2022 HOUSEHOLD TOILETS**

AREA COUNCIL	2020	2021	2022
ASASETRE	527	541	704
NKROFUL	543	552	746
KIKAM	588	595	723
AIYINASE	1534	1590	1744
ATUABO	504	525	738
ESIAMA	888	897	1099
AWIEBO/BASEKE	423	443	633
TOTAL	5007	5143	6387

5.0 Market Sanitation

Aiyinase and Asasetre are the locations of the District Assembly's two operational market centers which. The Environmental Health Unit is in charge of overseeing waste management within the District. The District's lack of storage containers prevents the solid waste produced at any market places from reaching the designated final disposal sites. Temporal locations, however, have been set up within these two communities to handle the waste produced.

6.0 Communal Labour \ Clean up exercise

To improve the clean and healthy environment in the District, the Environmental Health Unit prepared a number of cleanup exercises for the week of each quarter. The Environmental Health Unit trained opinion leaders in the various communities to embrace the practice in order to promote environmental cleanliness and good health. Below are a few images from the activity.



Communal labour/cleanup exercise

7.0 HYGIENE EDUCATION AND PROMOTION

7.1 Community Education on improved Sanitation

The Environmental Unit organized a community forum in four (4) communities, namely Esiam, Asasetre, Ala Bokazo and Aiyinase on 28th to 31st March, 2022 to sensitized and educate Chiefs, Opinion leaders and community members on the need to keep their community clean and the benefits of having a clean and healthy Environment. Some topic areas include:

- Organizing communal labour
- Education on access to improve household latrines.
- Education on food safety
- Education on environmental degradation



7.2 Enforcement/ Prosecution

The unit prosecuted 20 sanitary offenders, 19 tax defaulters and 8 people without building permit and 7 illegal miners. The prosecuting Officer has also defended the District Assembly on some legal issues level against the Assembly. This has been indicated in the table below:

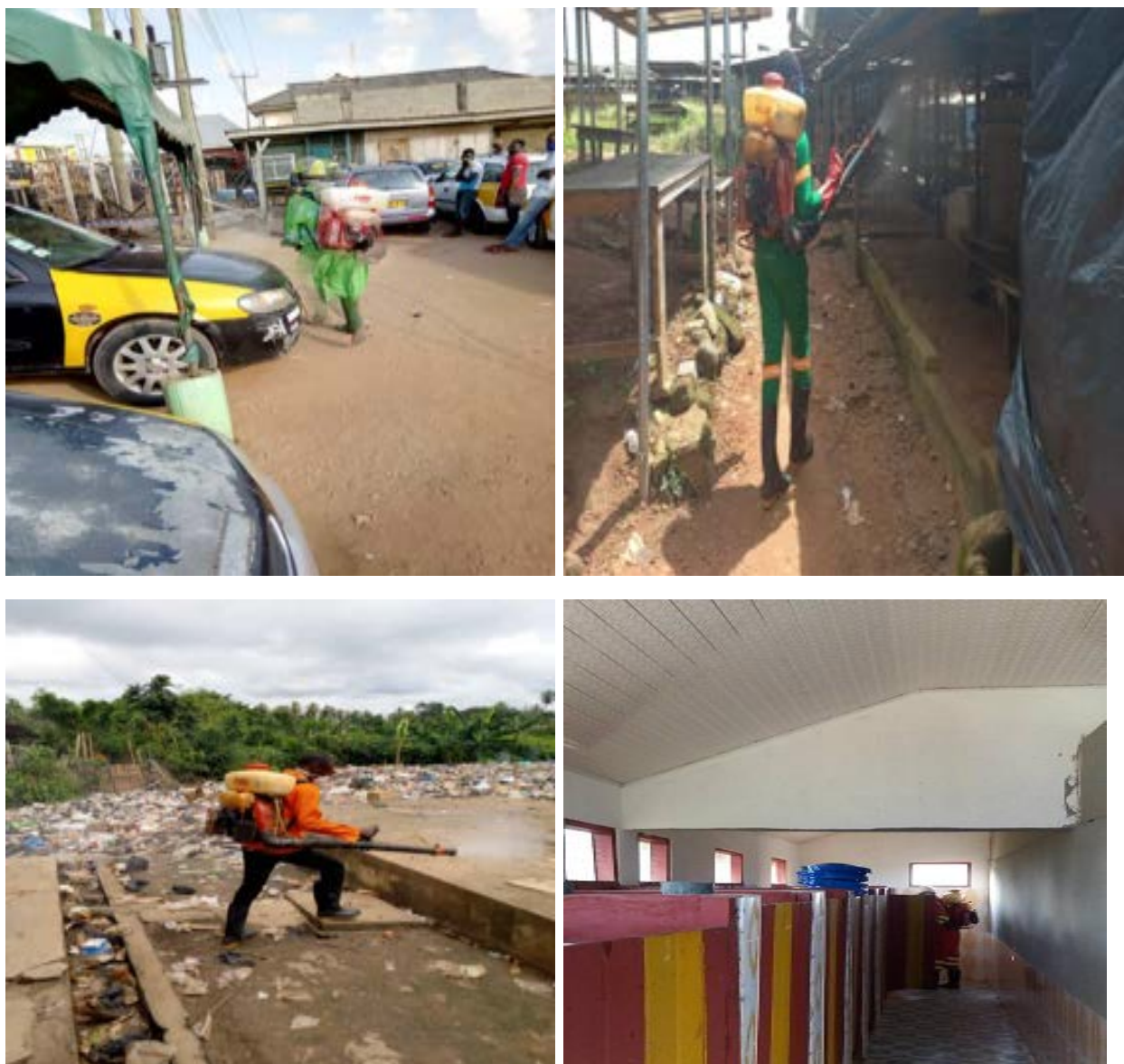
Table 6

Community	Sanitary offenses	Tax defaulters	Building offenses	Illegal miners
Esiama	7	7	1	
Aiyinase	8	9	6	
Asanda	3	2		
Nkroful	2	1		
Teleku Bokazo				7
Anwia			1	

8.0 Disinfection

In the year 2022 Zoomlion carried out disinfection exercises in market centers, public drains, public toilets in the District. Their activities were supervised by the Environmental Health unit of the Ellembele District Assembly.





District wide disinfection exercise

9.0 FOODHYGIENE

9.1 Food handlers screening

Environmental Health and sanitation Unit under the year 2022, intensifies its education for food vendors within the Ellembele District. Vendors were asked to provide hand washing materials for their customers. In all 180 vendors were registered and 147 availed themselves for screening. Out of 147 screened, 129 vendors were fit to display food for the public consumption while 18

vendors were not fit. The 18 however, went through thorough treatment and were confirmed by Medical Officer before their cards were issued to them.

Note: All the 147 cards were distributed to the food vendors in the year, 2022.



Screening Exercise

The table below shows the total number of food vendors screened within the year 2022.

Table 7.

S/N	Community	Total number screened	Total number fit	Total number unfit
1.	Nkroful	23	21	2
2.	Asasetre	24	21	3
3.	Aiyinase	17	14	3
4.	Ewiebo / Baseke	26	23	3
5.	Kikam	21	17	4
6	Esiam	36	33	3
	Grand Total	147	129	18

9.2 MONITORING OF FOOD VENDORS

Following the screening process, food vendors are observed to ensure everyone serving food to the public is healthy. Those who failed the fitness were also watched over to make sure they received medical care.

A team made up of Environmental Health Officers also performed stores inspections during the reviewed year. At the final disposal locations, several objects were confiscated and destroyed. The following things were taken into custody and destroyed:

- Expired foods.
- Dented canned foods
- Rusted canned foods.



10.0 PREMISES INSPECTION

10.1 Domiciliary inspection

One of the key responsibilities of every Environmental Health Officer is conducting domiciliary inspections in order to prevent any disease outbreak. The Unit carried out household inspections in order to inform the residents of the importance of maintaining a clean environment. A total of

102 homes were examined within the course of the year. Throughout the inspections of various properties during the analyzed year, the following common nuisances were found:

Table 8

NUISANCE DETECTED	ACTIONS TAKEN
Overgrowth of weeds, Insanitary bath-house with algae growth, cobwebs in kitchen.	Health education, issue of abatement notices, cautions, instance removal of nuisances
Open defecation, crude dumping in backyard, insanitary pen, overgrowth of weeds	Health education, issue of abatement notices, cautions, instance removal of nuisances
Indiscriminate dumping of refuse, choked gutters and over flow of soak away pit.	Health education, issue of abatement notices, cautions, instance removal of nuisances
Insanitary bathroom drains, selling of food under unhygienic environment and dust bins contains uncovered.	Health education, issue of abatement notices, cautions, instance removal of nuisances
Indiscriminate dumping of refuse, accumulation of anal cleaning of materials in toilet and dusting of toilet facilities	Health education, issue of abatement notices, cautions, instance removal of nuisances

11.0 ENVIRONMENTAL ENHANCEMENT PROGRAMMES

11.1 NOISE POLLUTION CONTROL

The Ellembelle District assembly responded to several noise pollution complaints in 2022. Also, six (6) local information centers have been registered by the department of Environmental health so that they do not create excessive noise that disturbs the public. Local bars were also monitored to keep the noise down and close early to avoid disturbed sleep.

11.2 TREE PLANTING EXERCISE

Under the year 2022, the unit together with Seventh Day Adventist church embarked on tree planting exercise in order to restore the lost ecosystem in two communities in the Ellembelle District. This program was undertaken on June 22-23, 2022. Below are pictures showing the execution of the exercise.



Aiyinase



Salman

EDUCATION AND RECLAMATION OF ILLEGAL MINING (GALAMSEY) SITES AT TELEKU BOKAZO

The Environmental Health Unit of the District Assembly embarked on series of activities on education and reclamation of illegal mining sites at T Bokazo under the 2022-year review.

During the operation, 7 illegal miners were sentenced to reclaim all the degraded sites on June 15, 2022.



Reclaimed site at Teleku Bokazo

12.0 COMPLAINTS

The Unit also received a number of complaints from community members of which Officers made follow ups to address their challenges. Issues high on the list included:

- Leakage of effluent from public latrines
- Problem from water and sanitation committees.
- Noise nuisance

13.0 CHALLENGES

- The inadequacy of funds to support hygiene and sanitation activities is a major challenge to the unit.
- Lack of engineered site for both liquid and solid waste is also a major problem to the district
- Poor drainage system in the markets
- Lack of slaughter house for proper meat inspection
- Lack of protective clothing for laborers.
- Inadequate sanitary tools for the Unit

14.0 RECOMMENDATIONS

- It is recommended that the Assembly should liaise with some of the companies in the district to support the construction of an engineered landfill and a liquid waste treatment site for the disposal of waste.
- It is also recommended that slaughter house and pound should be constructed to enhance good meat inspection and revenue generation
- It is recommended that Environmental Health unit should be well resourced to help improve sanitation.
- Additional refuse containers should be purchase to enhance proper solid waste collection and disposal.