



County Government of Laikipia

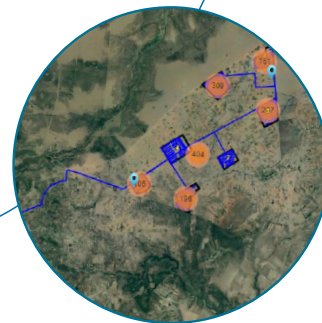
2019 - 2020

DEPARTMENT OF
WATER, ENVIRONMENT & NATURAL RESOURCES

ANNUAL REPORT

FOR THE FINANCIAL YEAR 2019/2020

September, 2020.





REPUBLIC OF KENYA
COUNTY GOVERNMENT OF LAIKIPIA
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DEPARTMENT OF WATER, ENVIRONMENT AND NATURAL RESOURCES

INTEGRATED ANNUAL REPORT
FOR THE FINANCIAL YEAR 2019/2020

September, 2020.



County Government of
Laikipia

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County Government of Laikipia

01. Introduction

The directorate of Environment and Natural resources in Laikipia County is mandated to perform various tasks, which include ensuring clean, secure and safe environment particularly during this period when we are facing COVID-19 for better living through waste collection and disposal. Policy formulation and implementation for better utilization of existing natural resources. During the financial year 2019/2020, the directorate has implemented a number of activities, which include refuse collection/ solid waste management, installation of skip bins, staff sensitization about Covid 19, surveying, beaconing and fencing of County cemeteries and dumpsites among others. This report highlights the directorate's vision, mission achievements and challenges experienced during the financial year 2019/2020. The directorate has collaborated with various stakeholders to achieve its mandate.

1.1 Vision Statement

A clean, healthy, safe and sustainably managed environment and natural resources.

1.2 Mission Statement

To promote, monitor, conserve, protect and sustainably manage the environment and natural resources

1.3 Scope of works

1. Garbage collection and disposal.
2. Maintenance and management of Storm Water Drainage Systems.
3. Cleaning of public toilets.
4. Environmental awareness creation and clean up campaigns.
5. Servicing and repair of refuse trucks.
6. Installing and maintenance of electric fence to solve human-wildlife conflict.
7. Natural Resources and Environmental policies formulation and Draft Bill review.
8. Stakeholders meeting and workshop on invasive species eradication
9. Cemetery maintenances and management.
10. Review and approval of appraisals staff meetings and updating work plans for all staff for uploading to Icoms.
11. Noise pollution control



02. Activities

2.1 Solid Waste Management

Town clean ups, solid waste collection and disposal is a major activity of the directorate carried out in all major towns, urban centres, markets and all public premises to ensure efficient management and cleanliness at all times.

The table below summarizes activities undertaken within the directorate at the sub-county level

Table 1: Solid waste management – a key function of the Directorate of Environment and Natural Resources

i) Refuse Collection & Disposal

	RUMURUTI	WEST	EAST	NORTH
ACHIEVEMENTS	<p>Schedule was well adhered to. Total collected waste for final disposal was 4872 tons. Continuous clean up undertaken in location.</p> <p>Towns covered include: Rumuruti, Muwarak, Thome & Olmoran</p>	<p>Approximately 48,000 tonnes of waste were collected in Nyahururu Town and its environs.</p> <p>Towns covered include: Nyahururu, Kinamba, Karandi, Oljabet, Muthengera, Karinga, and Sipili.</p>	<p>Approximately 26, 520 tonnes of garbage swept, collected and transported to the dumpsite.</p> <p>Towns covered include: Nanyuki town, Wiyumiririe, Baraka, Thingithu & Likii</p>	<p>Approximately 3,000 tonnes of garbage swept, collected and transported to the dumpsite.</p> <p>Towns covered include: Doldol town, Chumvi, Naibor, Kimanjo, Jua kali</p>

ii) Supply, delivery & issuance of PPEs & Working tools to solid waste management staff

	RUMURUTI	WEST	EAST	NORTH
ACHIEVEMENTS	<p>Supply, delivery and issuance of Personal Protective Equipment and working tools to Solid Waste Management staff is done for 300 staff across the county in the financial year 2019/2020.</p> <p>No case of work related injuries have been reported.</p>			

iii) Maintenance of storm water drainage

	RUMURUTI	WEST	EAST
ACHIEVEMENTS	<p>Work on drains done 3 times /weeks in Rumuruti township. Clearing of drains done weekly in outstations.</p> <p>Approximately 100 km of the storm water drains were cleaned, cleared and unclogged.</p>	<p>Approximately 351 km of the storm water drains were cleaned, cleared and unclogged.</p>	<p>Approximately 500kms drainage system unclogged and maintained.</p>

iv) Maintenance of dumpsites

	RUMURUTI	WEST	EAST
ACHIEVEMENTS	<p>Weekly open air burning of refuse. Clearing of hedges and bushes in dumpsite compound. Dumpsite surveyed in the review year for fencing Dumpsite was excavated and compacted</p>	<p>Excavating and compacting of Nyahururu Dumpsite</p>	<p>Nanyuki dumpsite road murramed and graded. Compaction of waste at the dumpsite done to create more space for disposal.</p>

v) Maintenance of cemetery grounds

	RUMURUTI	WEST	EAST
ACHIEVEMENTS	<p>Maintenance of Rumuruti cemetery by clearing of vegetation and bushes within.</p> <p>Clearing of the vegetation was done in the review year. The motorbike was received and has eased movement. Cemetery maintenance included in monthly schedule.</p>	<p>Surveying, beaconing, and fencing of Igwamiti cemetery.</p> <p>Maintenance bush clearing of Siberia Cemetery in Nyahururu.</p> <p>140 graves were sold and 59 bodies buried.</p>	<p>Surveying, beaconing, and fencing of St George's cemetery done.</p> <p>Surveying, beaconing, clearing of bushes and fencing of Thingithu cemetery done. Fencing is ongoing</p> <p>Bush clearing done at St. George's cemetery. Surveying and beaconing of St George's cemetery (approximately 2.95 acres). 27 unclaimed bodies have been disposed within the cemetery. 139 graveyards sold at St. George's cemetery</p>

vi) Maintenance of public toilets.

	RUMURUTI	WEST	EAST
ACHIEVEMENTS	<p>Cleaned and maintained toilets at Rumuruti; ward office, livestock market, stadium, social hall, mutanga, Olmoran and Kiamariga</p> <p>Maintenance of public toilet on daily basis. Staff assigned on rotation basis in Rumuruti township.</p>	<p>Cleaning and maintenance of public toilets at Nyahururu markets, matatu stages, CBD, social hall and ward offices on a daily basis.</p>	<p>Cleaning and maintenance of public toilets at CBD, Nanyuki markets, county offices and social hall on a daily basis.</p>



Plate 1: Unclogging and maintenance of drainages in Nanyuki town



Plate 2: Loading and transportation of garbage to the dumpsite in Nyahuru



Plate 3: Disposal of unclaimed bodies by staff from the directorate of environment in Nyahuru cemetery.



Plate 4: Compaction and management of dumpsites in major towns is a key function of the directorate



Plate 5: Rumuruti environmental staff conducting a clean up campaign day under the theme MJI SAFI JUKUMU LANGU

2.2 Climate Change

During the year under review the directorate came up with a climate change policy to guide the process of mainstreaming climate change into programming and development interventions in the County. The policy sets out a framework for establishing and operationalizing the County Climate Change Unit which is the legal entity that brings together all county department to address climate change mainstreaming collectively. The climate change unit will have structures devolved to the ward and village level in line with the National Policy, Legislation, Strategy and Action Plan on climate change that provide guidelines on climate change mainstreaming and financing.

a) The directorate has continued to play a leading role in coordinating climate change financing/mainstreaming as well as engaging other stakeholders working on climate change. The directorate is engaged in a new financing program titled Financing Locally – Led Climate Action (FLOCCA) signed between the Kenya Government and the World Bank in March 2020. This program is coordinated by the National Treasury and the Council of Governors.

b) The program has a one year preparatory phase from March 2020 to February 2021. Thereafter it will be implemented over a five (5) year period. The program focuses on building County level capacity for planning, budgeting, monitoring, reporting and implementation of local climate actions in partnership with communities. It also focuses on strengthening of national level capacity for coordination, monitoring and reporting.

The directorate has also been involved in the development of Kenya's Climate Change Report to the UNFCCC on Green House Gas Emissions.

This report presents Kenya's Intended Nationally Determined Contribution (INDC) in response to decisions adopted at the 19th and 20th sessions of the Conference of the Parties to the United Nations Framework Convention on Climate Change (UNFCCC); that invite Parties to communicate to the Secretariat their INDCs, towards achieving the objective of the UNFCCC as set out in Article 2 of the Convention.

2.3. Management of Invasive Plant Species – *Opuntia Stricta*

Invasive plant species pose a major threat to the livelihood of the people living in drier part of Laikipia County specifically the Northern part. Vast areas of land within community/group ranches have been invaded by invasive plant species that have reduced the acreage of land available for quality pasture production or any other meaningful use. *Opuntia Stricta* is the predominant of the invasive plant species and have invaded huge areas of the open rangelands. The rate of spread has been high as a result of livestock and wildlife foraging on the plant species thus spreading it over the degraded rangelands which provide a fertile ground for growth and multiplication of these plants.

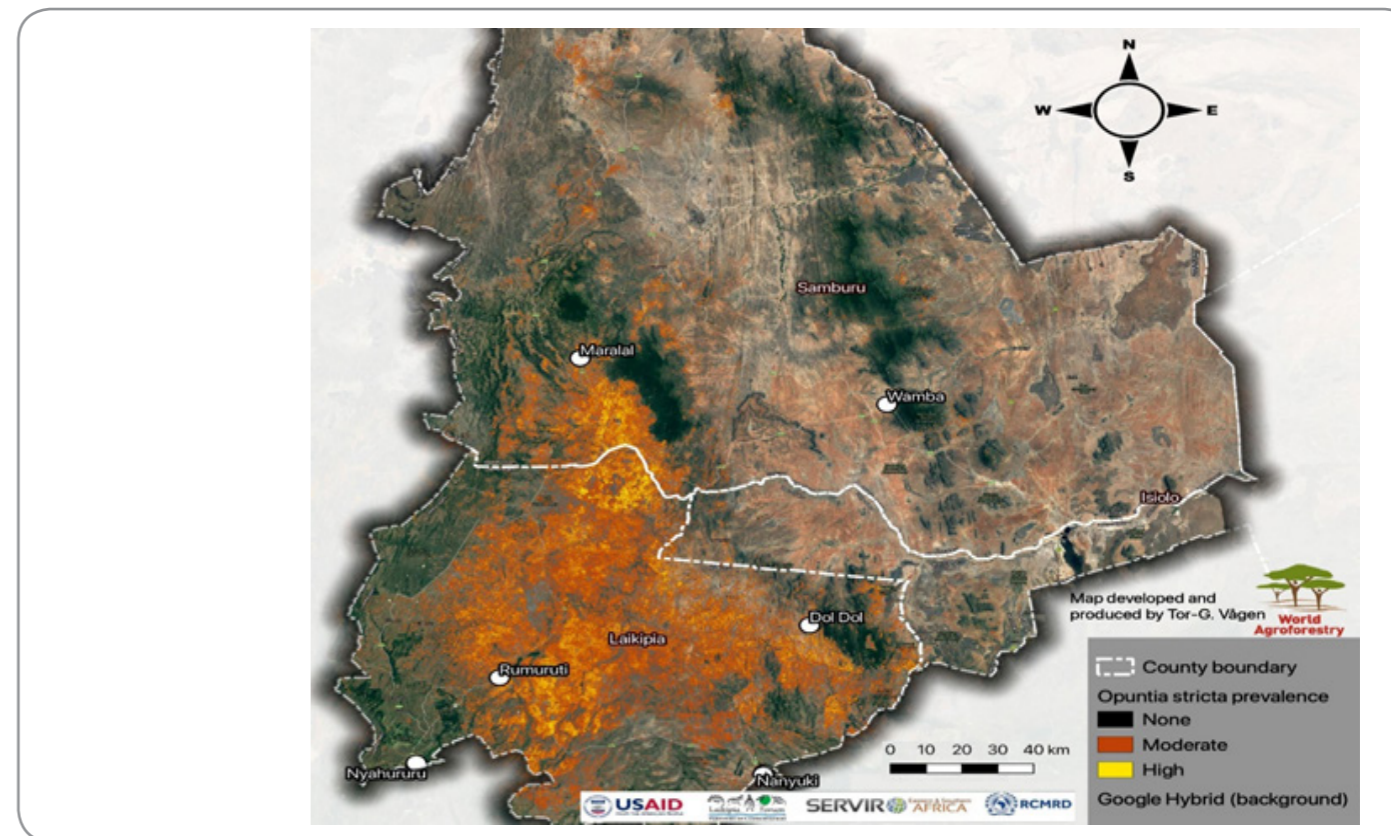


Figure 1: Map of Laikipia County showing the concentration of invasive plant species - *Opuntia stricta*. (Courtesy of LWF and RCMRD)

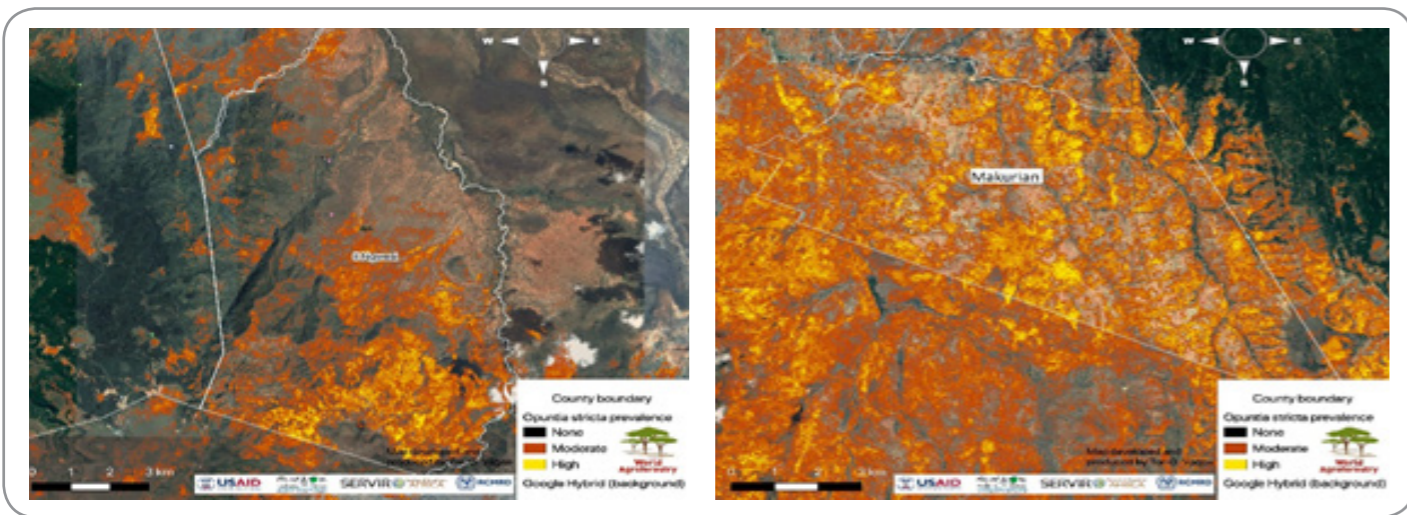


Figure 2: Maps showing the rate of invasion of Opuntia Stricta in Il Ngwesi and Makurian Group Ranches (Courtesy of LWF and RCMRD 2020)

To respond to this menace the directorate of environment and natural resources initiated a program titled Management of Invasive Plant Species. The program brings together different actors/stakeholders to address the management of invasive plant species. The directorate is the coordination point of the program and all stakeholders who include Laikipia Wildlife Forum (LWF), World Vision Kenya – IMARA program (WVI), Northern Rangelands Trust (NRT), Regional Centre of Mapping of Resources for Development (RCMRD), KWS, Loldaiga Farm, Naibunga Conservancy, Loisaba Conservancy, ILMAMUSI, Mpala Research Centre, Twala Cultural Manyatta and Community Lands/Group Ranches (13 community groups/lands).

During the year several activities were outlined and achieved as provided in the summary table below:

Table 2: Management of opuntia species						
ACHIEVEMENTS	3 meetings were held during the year	258 acres were removed in Makurian and Twala cultural manyatta	11 green houses constructed and 300 acres infected with cochineal bug	258 acres were removed in Makurian and Twala cultural manyatta	56 acres reseeded in Makurian	258 acres were removed in Makurian and Twala cultural manyatta

2.4. Natural Resource management

a) Mining

In February 2020 the directorate organized and co-hosted with Laikipia County Development Authority a conference on the mineral potential of Laikipia County. The conference was a follow-up to a preliminary mineral exploration survey commissioned in 2018/19 financial. The survey was targeted at the mineral, rock deposits and gemstones potential in Laikipia to determine their location, chemical compositions, spatial extent and economic significance. It was found that the County is endowed with the following deposits:

- Vermiculite
- Bauxite
- Laterites
- Iron ores
- Garnets
- Bentonite clays
- Limestone
- Phonolites

- sand and gravel
- granites
- Beryl
- Quarts and quartzites
- sillimanites
- corundum
- marble
- Mica

The conference brought together leading mining industry executives, thought leaders and companies operating in Kenya and other parts of the world, national and county government mining experts, artisanal miners, mine owners, bankers and funders, exploration and mapping companies, community leaders and civil society organizations involved in the extractive industries.

Key resolutions of the conference will be used in the 2020/2021 Financial year to continue debate, further mineral exploration and initial prospecting in the County.

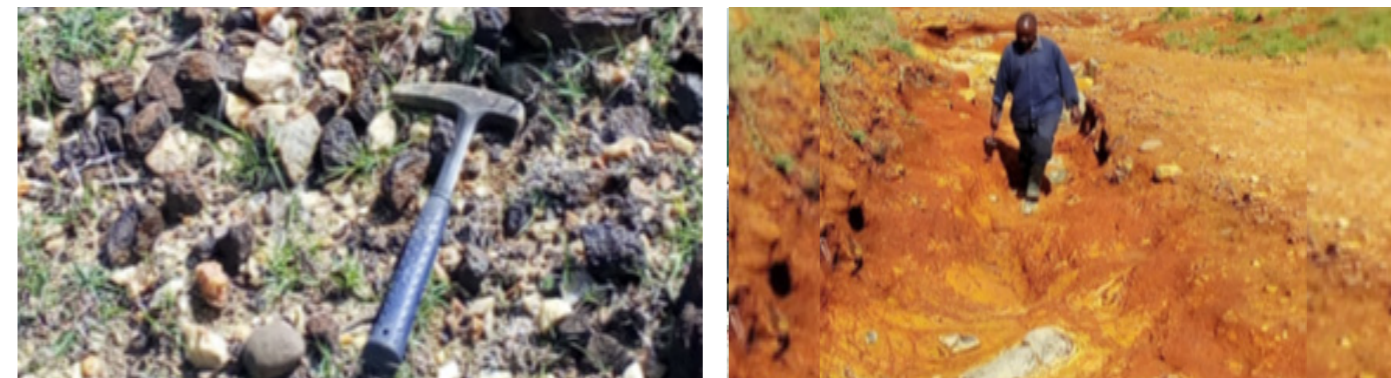


Plate 6: Photos of Iron ore debris scattered over 100m wide area in Naibor and Yellow limonite ore near Kirimon at location 37N 0260979, UTM 0074131 (courtesy Laikipia mining report)

b) County Environmental Action Plan-CEAP

In the 2019/2020 financial year the directorate of Environment and Natural Resources began a process putting together the County Environmental Action Plan. The process has involved consultations different stakeholders including the County Environment Committee (CEC), County Assembly and County Departments to have a buy-in of the initiative.

In February 2020 the department organized a consultative meeting with the Assembly Committee on Agriculture, Water, Environment and Natural Resources to appraise them on the need for a CEAP. This initiative is being undertaken in partnership with NEMA (who are providing technical assistance) and World Vision Kenya – IMARA Program (who are providing financial support).

A secretariat comprising of the three lead organization has been put in place to steer the process of finalizing the document. The team has set up a technical task force of experts from various fields to compile chapter reports for inclusion in the final document.

2.5. Human Wildlife Conflict Mitigation

a) Supplied materials for construction of Mathira Solar fence: Fencing Posts, Strands, energizers while Space For Giants provided labour. 6.2 Km of fencing completed

b) Engaged 12 fence attendants for the Rumuruti Solar fence constructed by the Kenya Forest Service (KFS). Attendants were provided with a motorbike alongside PPEs.

c) The Locust invasions happened in the region in January 2020, the four Counties and the Secretariat of The Cooperation for Peace & Development (Amaya Triangle Initiative) has been at the forefront in Coordinating the exercise closely with the County and National Government Leadership. Food and Agriculture (FAO) came in supported in the training of the scouts, provision of leadership and chemicals in the war. To date few swarms in Laikipia and Samburu remains and hope by the end of October the war will have been won.



MATHIRA SOLAR FENCE

6.2km

of Human Wildlife Fence



Mathira Solar Powered Human-Wildlife Fence: A total of 6.2 km of Human-Wildlife fences have been successfully installed.



Locust control using drones and scouts from Laikipia, Samburu and Baringo getting trained in desert locust control and surveillance.

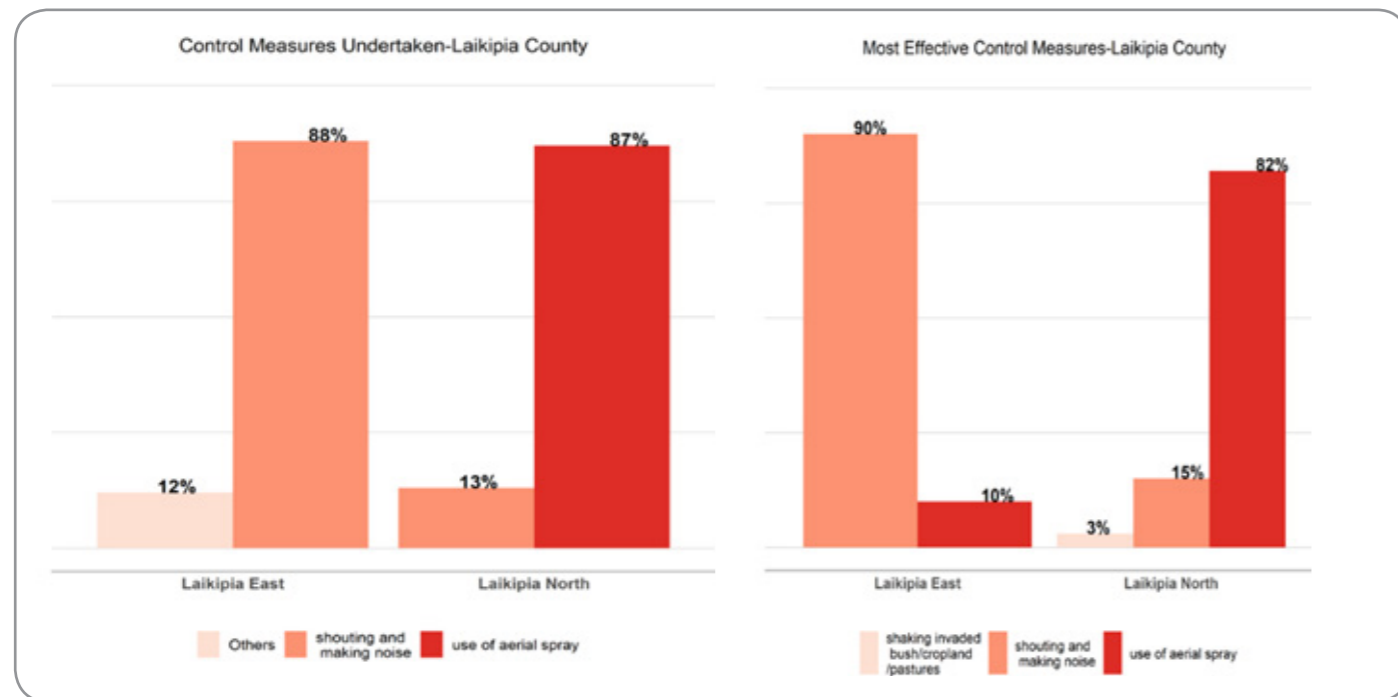


Figure 3: Types and most effective control measures in Laikipia County



Figure 4: Potential conflict areas due to cropland/pasture/range land affected by DL invasion in the county

2.6. Responding to COVID 19 Pandemic

Following the outbreak of the COVID 19 pandemic the directorate responded by carrying out Disinfection and fumigation exercise targeting markets, government offices, police stations, prisons and public installations such as bus parks and Nanyuki railway station. The department also carried out an awareness campaign on social distancing and hand washing as well as ensuring that its staff are provided with PPEs whenever they are on duty.

The directorate with support from other stakeholders/donors has place has placed hand washing water tanks and soap at strategic locations in many centres in the county. We have equally been involved in the Lisha Jamii program, an initiative of the county to support vulnerable families with food items and other basic requirements during these hard times



DASHBOARD : ANNUAL PROJECTS PROGRESS TRACKER

DASHBOARD



MANAGEMENT OF INVASIVE PLANT SPECIES: OPUNTIA STRICTA



- 258 acres of Opuntia removed in Makurian & Twala cultural Manyatta.
- 2 Greenhouses constructed and 300 acres infected with cochineal bug.
- 56 acres of rangeland reseeded in Makurian

MAINTENANCE OF STORM WATER DRAINAGE SYSTEM



Approximately 851 Kilometers of drainage system unclogged:

1. Rumuruti - 100%
2. Laikipia West - 351 kms
3. Laikipia East - 500 kms

BOREHOLES - DRILLING EQUIPPING & REHABILITATION



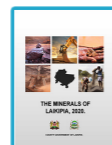
- 31 Boreholes drilled, equipped & rehabilitated
1. Laikipia North - 1 Drilled & 4 Equipped
 2. Laikipia West - 16 Drilled & 8 Equipped
 3. Laikipia East - 4 Drilled & 5 Equipped

SCOOPING OF DAMS, WATER PANS AND SPRINGS:



- 2,860M3 of water attained
- 3 Dams, 15 Water Pans, 1 Spring Completed.

LAIKIPIA COUNTY MINIG CONFERENCE 2020



- 600 participants and attendants attracted:
- 30 Speakers and panelists
- 25 Exhibitors
- 16 Mineral deposits discovered in Laikipia County

SOLID WASTE MANAGEMENT:



- 79,392T of solid waste collected:

 1. Rumuruti - 4,820 tonnes
 2. Laikipia West - 48,000 tonnes
 3. Laikipia East - 26,520 tonnes
 4. Rumuruti - 2,860 tonnes



Gallery 1: Inspection of the equipping of Arjiyu borehole



Gallery 2: Inspection of Mugumo dispensary borehole



Gallery 3: Inspection of Mulango Water pan in Laikipia North



3.1 : TIGITHI WARD PROJECTS PROGRESS



EQUIPPING OF MWIYOGO BOREHOLE



PROJECT STATUS COMPLETE

NO. OF BENEFICIARIES: **360** (HOUSEHOLDS)



FUNDED BY: COUNTY GOVERNMENT OF LAIKIPIA

KSHS. **2,806,893.70**



SCOPE OF WORKS: **INSTALLATION OF:**
- A SOLAR POWERED SUBMISIBLE PUMP
- A 10M3 PLASTIC WATER TANK AND
- A COMMUNAL WATER POINT



MIKUBUNE MASONRY TANK & EXTENSION PIPING



PROJECT STATUS COMPLETE

NO. OF BENEFICIARIES: **450** (HOUSEHOLDS)



FUNDED BY: COUNTY GOVERNMENT OF LAIKIPIA

KSHS. **2,992,728.77**



SCOPE OF WORKS: **INSTALLATION OF:**
- CONSTRUCTION OF 150M3 MASONRY TANK



JERICHO - KIAHUKO WATER PROJECT



PROJECT STATUS COMPLETE

NO. OF BENEFICIARIES: **170** (HOUSEHOLDS)



FUNDED BY: COUNTY GOVERNMENT OF LAIKIPIA

KSHS. **1,792,200.00**



SCOPE OF WORKS: **PIPELINE EXTENSION**



IRIUKO FARMERS WATER PROJECT



PROJECT STATUS COMPLETE

NO. OF BENEFICIARIES: **15** (HOUSEHOLDS)



FUNDED BY: COUNTY GOVERNMENT OF LAIKIPIA

KSHS. **2,118,450.00**



SCOPE OF WORKS: **SCOOPING OF WATERPANS:**
- CONSTRUCTION OF 15 HOUSEHOLD WATER PANS



3.1.2 SOLIO SETTLEMENT WATER PROJECT PROGRESS



SOLIO VILLAGES - TIGITHI WARD



PROJECT STATUS COMPLETE

NO. OF BENEFICIARIES: **1500** (HOUSEHOLDS)



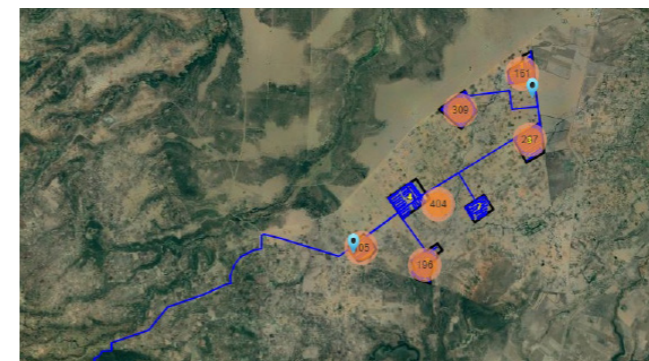
FUNDED BY: COUNTY GOVERNMENT OF LAIKIPIA & WATER SECTOR TRUST FUND

KSHS. **--.00**



SCOPE OF WORKS: **1,386 WATER CONNECTION APPLICATIONS**
1,042 CONNECTIONS ALREADY DONE

	CONNECTION APPLICATIONS	INSTALLED METERS
VILLAGE 1:	221	184
VILLAGE 2:	386	347
VILLAGE 3:	320	273
VILLAGE 4:	291	240
VILLAGE 5:	118	109
VILLAGE 6:	257	214
VILLAGE 7:	238	204
TOTAL:	1,831	1,571





3.2 : THINGITHU WARD PROJECTS PROGRESS



RELI B BOREHOLE

PROJECT STATUS COMPLETE



NO. OF BENEFICIARIES: **350** (HOUSEHOLDS)



FUNDED BY: COUNTY GOVERNMENT OF LAIKIPIA

KSHS. **2,445,492.00**



SCOPE OF WORKS: **DRILLING & TESTING:**
-DRILLING
-PUMP TESTING YIELD 36M3/HR



YARD PRIMARY BOREHOLE

PROJECT STATUS COMPLETE



NO. OF BENEFICIARIES: **300** (HOUSEHOLDS)



FUNDED BY: COUNTY GOVERNMENT OF LAIKIPIA

KSHS. **2,546,002.80**



SCOPE OF WORKS: **DRILLING & TESTING:**
- BORE HOLE DRILLING - YIELD 26M3/HR
- PUMP TESTING YIELD 26M3/HR

NOTES: PENDING EQUIPPING TO BE HANDED OVER TO NAWASCO



Test pumping at Reli B borehole



Test pumping at Yard Primary School borehole



3.3: NANYUKI WARD PROJECTS PROGRESS



JIKAZE WATER PROJECT

PROJECT STATUS COMPLETE



NO. OF BENEFICIARIES: **400** (HOUSEHOLDS)



FUNDED BY: COUNTY GOVERNMENT OF LAIKIPIA

KSHS. **2,989,600.00**



SCOPE OF WORKS: **CONSTRUCTION & EXTENSION:**
-PIPING EXTENSION
-CONSTRUCTION OF 150M3 MASONRY TANK



MUKURI DAM SPILL WAY

PROJECT STATUS COMPLETE



NO. OF BENEFICIARIES: **150** (HOUSEHOLDS)



FUNDED BY: COUNTY GOVERNMENT OF LAIKIPIA

KSHS. **746,707.5**



SCOPE OF WORKS: **DAM SPILLWAY CONSTRUCTION:**
-BUILT CONCRETE SILL AND REP RAP OF THE SPILL WAY.

NOTES: SITE HAND OVER HAS BEEN DONE, PROJECT IS ONGOING,



MUKURI BOREHOLE

PROJECT STATUS COMPLETE



NO. OF BENEFICIARIES: **350** (HOUSEHOLDS)



FUNDED BY: COUNTY GOVERNMENT OF LAIKIPIA

KSHS. **1,471,428.00**



SCOPE OF WORKS: **SUPPLY & INSTALLATION OF PIPES:**
-MANHOLE AND WATER TROUGH CONSTRUCTION



NKANDO WATER PROJECT

PROJECT STATUS COMPLETE



NO. OF BENEFICIARIES: **450** (HOUSEHOLDS)



FUNDED BY: COUNTY GOVERNMENT OF LAIKIPIA

KSHS. **1,295,000.00**



SCOPE OF WORKS: **PIPPING EXTENSION:**
SUPPLY OF PIPES AND FITTINGS HAS BEEN SOURCED



MUKURI WATER PANS

PROJECT STATUS COMPLETE



NO. OF BENEFICIARIES: **13** (HOUSEHOLDS)



FUNDED BY: COUNTY GOVERNMENT OF LAIKIPIA

KSHS. **2,118,450.00**



SCOPE OF WORKS: **20 WATER PANS:**
SCOOPING OF 20 WATER PANS OF 500M ^3

NOTES: WATER PANS COMPLETE AND HOLDING WATER



NANYUKI CEMETERY

PROJECT STATUS COMPLETE



NO. OF BENEFICIARIES: **13** (HOUSEHOLDS)



FUNDED BY: COUNTY GOVERNMENT OF LAIKIPIA

KSHS. **995,280.00**



SCOPE OF WORKS: **CONSTRUCTION OF:**
- CONSTRUCTION OF NANYUKI CEMETRY ABLUTION BLOCK

NOTES: PROJECT IS ONGOING



3.4: SEGERA WARD PROJECTS PROGRESS



ENDANA COMMUNITY BOREHOLE

PROJECT STATUS COMPLETE



NO. OF BENEFICIARIES: **450** (HOUSEHOLDS)



FUNDED BY: COUNTY GOVERNMENT OF LAIKIPIA

KSHS. **2,499,999.17**



SCOPE OF WORKS: **EQUIPPING WITH:**
- A SOLAR POWERED SUBMERSIBLE PUMP
- INSTALLATION OF A HIGH MAST
- 10M3 TANK IN PLACE & OPERATIONAL



SIRAT PRIMARY SCHOOL

PROJECT STATUS COMPLETE



NO. OF BENEFICIARIES: **13** (HOUSEHOLDS)



FUNDED BY: COUNTY GOVERNMENT OF LAIKIPIA

KSHS. **2,787,804.80**



SCOPE OF WORKS: **DRILLING:** SUBMERSIBLE PUMP
- PUMP TESTING YIELD 4M3/HR
- 10M3 TANK & WATER POINT



ONTULILI BOREHOLE / MUKIMA

PROJECT STATUS COMPLETE



NO. OF BENEFICIARIES: **500** (HOUSEHOLDS)



FUNDED BY: COUNTY GOVERNMENT OF LAIKIPIA

KSHS. **2,772,110.00**



SCOPE OF WORKS: **EQUIPPING WITH:**
- A SOLAR POWERED SUBMERSIBLE PUMP
- 10M3 TANK & WATER POINT



OLDIGIRI PRIMARY SCHOOL BOREHOLE

PROJECT STATUS COMPLETE



NO. OF BENEFICIARIES: **N/A** (HOUSEHOLDS)



FUNDED BY: COUNTY GOVERNMENT OF LAIKIPIA

KSHS. **2,661,480.80**



SCOPE OF WORKS: **DRILLING :** DRILLED TO 160M DEPTH
(DRY BOREHOLE)



3.5 : UMANDE WARD PROJECTS PROGRESS



MURUNGAI BOREHOLE

PROJECT STATUS **COMPLETE**



NO. OF BENEFICIARIES: **250** (HOUSEHOLDS)



FUNDED BY: COUNTY GOVERNMENT OF LAIKIPIA
KSHS. **2,475,440.00**



SCOPE OF WORKS: **EQUIPPED WITH:**
A 10M3 PLASTIC WATER TANK INSTALLED AND A COMMUNAL WATER POINT



DAIGA PRIMARY BOREHOLE

PROJECT STATUS **COMPLETE**



NO. OF BENEFICIARIES: **200** (HOUSEHOLDS)



FUNDED BY: COUNTY GOVERNMENT OF LAIKIPIA
KSHS. **2,496,238.00**



SCOPE OF WORKS: **EQUIPPING:**
WITH SUBMERSIBLE PUMP SOLAR POWERED

NOTES: SITE HAND OVER DONE



TETU BOREHOLE

PROJECT STATUS **COMPLETE**



NO. OF BENEFICIARIES: **150** (HOUSEHOLDS)



FUNDED BY: COUNTY GOVERNMENT OF LAIKIPIA
KSHS. **2,489,476**



SCOPE OF WORKS: **EQUIPPING & PIPELINE EXTENSION:**
- A SOLAR POWERED SUBMERSIBLE PUMP
- A 10M3 PLASTIC WATER TANK

NOTES: OPERATIONAL & SERVING NEARBY COMMUNITY



NYARIGINU SECONDARY

PROJECT STATUS **COMPLETE**



NO. OF BENEFICIARIES: **200** (HOUSEHOLDS)



FUNDED BY: COUNTY GOVERNMENT OF LAIKIPIA
KSHS. **2,495,571.80**



SCOPE OF WORKS: **EQUIPPING WITH:**
- SUBMERSIBLE PUMP
SOLAR POWERED

NOTES: SITE HAND OVER DONE



3.6: NGOBIT WARD PROJECTS PROGRESS



NYAKINYUA BORE HOLE

PROJECT STATUS **COMPLETE**



NO. OF BENEFICIARIES: **430** (HOUSEHOLDS)



FUNDED BY: COUNTY GOVERNMENT OF LAIKIPIA
KSHS. **3,700,000.00**



SCOPE OF WORKS: **EQUIPPING WITH:**
- A SOLAR POWERED SUBMERSIBLE PUMP
- PIPING EXTENSION

NOTES



KARIGU-INI DAM

PROJECT STATUS **COMPLETE**



NO. OF BENEFICIARIES: **600** (HOUSEHOLDS)



FUNDED BY: COUNTY GOVERNMENT OF LAIKIPIA
KSHS. **3,435,630.00**



SCOPE OF WORKS: **DRILL AND EQUIP BOREHOLE WITH:**
- SCOOPING OF RESERVOIR
- EMBANKMENT ENLARGEMENT
- CAPACITY 20,000M3



KIANDEGE WATER PROJECT

PROJECT STATUS **COMPLETE**



NO. OF BENEFICIARIES: **500** (HOUSEHOLDS)



FUNDED BY: COUNTY GOVERNMENT OF LAIKIPIA
KSHS. **1,505,680.00**



SCOPE OF WORKS: **EQUIPPING & INSTALLATION:**
- SUPPLY OF PIPES



3.7 : MUKOGONDO EAST WARD PROJECTS PROGRESS

CHUMVI - PURCHASE OF PIPES

PROJECT STATUS COMPLETE

NO. OF BENEFICIARIES: **200** (HOUSEHOLDS)

FUNDED BY: COUNTY GOVERNMENT OF LAIKIPIA
KSHS. **2,183,700.00**

SCOPE OF WORKS: **EQUIPPED:** SUPPLY OF PIPES AND FITTINGS

NOTES: PIPES HAVE BEEN SUPPLIED

OLAR AJIJO BOREHOLE

PROJECT STATUS COMPLETE

NO. OF BENEFICIARIES: **380** (HOUSEHOLDS)

FUNDED BY: COUNTY GOVERNMENT OF LAIKIPIA
KSHS. **2,593,597.00**

SCOPE OF WORKS: **EQUIPPING:** WITH A SOLAR POWERED EQUIPMENT

OSIRWA WATER PROJECT / TANK

PROJECT STATUS COMPLETE

NO. OF BENEFICIARIES: **600** (HOUSEHOLDS)

FUNDED BY: COUNTY GOVERNMENT OF LAIKIPIA
KSHS. **2,183,700.00**

SCOPE OF WORKS: **EQUIPPING & PIPELINE EXTENSION:** - CONSTRUCTION OF 225M3 MASONRYTANK

ETHI SECONDARY COMMUNITY BOREHOLE

PROJECT STATUS COMPLETE

NO. OF BENEFICIARIES: **540** (HOUSEHOLDS)

FUNDED BY: COUNTY GOVERNMENT OF LAIKIPIA
KSHS. **2,449,224.00**

SCOPE OF WORKS: **EQUIPPING WITH:** - SOLAR POWER

NOTES: (CHANGE OF MODE OF PUMPING. KPLC TO SOLAR POWER)

DOLDOL BOREHOLE

PROJECT STATUS COMPLETE

NO. OF BENEFICIARIES: **200** (HOUSEHOLDS)

FUNDED BY: COUNTY GOVERNMENT OF LAIKIPIA
KSHS. **780,000**

SCOPE OF WORKS: **PIPELINE EXTENSIONS** REPLACEMENT OF SUBMISIBLE PUMPING SET



For more information, visit: www.laikipia.go.ke/water-and-natural-resources





3.8: MUKOGONDO WEST WARD PROJECTS PROGRESS



OLMUNICHOI BOREHOLE

PROJECT STATUS COMPLETE



NO. OF BENEFICIARIES: **340** (HOUSEHOLDS)



FUNDED BY: COUNTY GOVERNMENT OF LAIKIPIA
KSHS. **2,799,544.00**



SCOPE OF WORKS: **DRILLING & EQUIPPING WITH:**
- PUMP TESTING

NOTES: (BOREHOLE DRILLED TO 155M DEPTH. YIELD 1M3/HR)



KURUM BOREHOLE EQUIPPING

PROJECT STATUS COMPLETE



NO. OF BENEFICIARIES: **300** (HOUSEHOLDS)



FUNDED BY: COUNTY GOVERNMENT OF LAIKIPIA
KSHS. **2,408,960.40**



SCOPE OF WORKS: **EQUIPPING BOREHOLE WITH:**
- SOLAR EQUIPMENT,
A 10M3 PLASTIC WATER TANK, PROVIDE CWP (STAND TAP) INSTALLED

NOTES: (EQUIPPING OF KURUM B/H)



MUSUL WATER PANS - 15

PROJECT STATUS COMPLETE



NO. OF BENEFICIARIES: **45** (HOUSEHOLDS)



FUNDED BY: COUNTY GOVERNMENT OF LAIKIPIA
KSHS. **2,418,701.00**



SCOPE OF WORKS: **SCOOPING OF WATER PANS**
15 WATER PANS

NOTES: (15 NO. HOUSEHOLD WATER PANS CONSTRUCTED MAINLY FOR LIVESTOCK WATERING)



LOSHEKI DAM

PROJECT STATUS COMPLETE



NO. OF BENEFICIARIES: **800** (HOUSEHOLDS)



FUNDED BY: COUNTY GOVERNMENT OF LAIKIPIA
KSHS. **3,777,060.00**



SCOPE OF WORKS: **EQUIPPING BOREHOLE WITH:**
-SCOOPING OF RESERVOIR
-EMBANKMENT ENLARGEMENT
-BUILT CONCRETE SILL AND REP RAP OF THE SPILL WAY

NOTES: (DAM REPAIRED AND REHABILITATED. CAPACITY 15000M3)



IL-POLEI BOREHOLE

PROJECT STATUS COMPLETE



NO. OF BENEFICIARIES: **300** (HOUSEHOLDS)



FUNDED BY: COUNTY GOVERNMENT OF LAIKIPIA
KSHS. **640,000**



SCOPE OF WORKS: **REPAIR & SERVICING**



For more information, visit:
www.laikipia.go.ke/projects-dashboard





3.9 : SALAMA WARD PROJECTS PROGRESS



NGUO BOREHOLE

PROJECT STATUS COMPLETE



NO. OF BENEFICIARIES: **400** (HOUSEHOLDS)



FUNDED BY: COUNTY GOVERNMENT OF LAIKIPIA
KSHS. **3,174,087.00**



SCOPE OF WORKS: **DRILLING AND EQUIPPING:**
- DRILLING AND DEVELOPMENT OF THE BOREHOLE UP TO 250M
- TEST PUMPING WITH A YIELD OF 2.4M3/HR

NOTES: LOW YIELD



KIRIMA WATER PROJECT

PROJECT STATUS COMPLETE



NO. OF BENEFICIARIES: **700** (HOUSEHOLDS)



FUNDED BY: COUNTY GOVERNMENT OF LAIKIPIA
KSHS. **2,105,980.00**



SCOPE OF WORKS: **EXCAVATION AND PIPING:**
- EXCAVATION AND PIPE LAYING OF 3.9KM



KANDORO SPRINGS PROJECT

PROJECT STATUS COMPLETE



NO. OF BENEFICIARIES: **600** (HOUSEHOLDS)



FUNDED BY: COUNTY GOVERNMENT OF LAIKIPIA
KSHS. **2,353,698.00**



SCOPE OF WORKS: - REHABILITATION OF THE SPRINGS,
- INSTALLATION OF PUMP, RECONSTRUCTION OF CATTLE TROUGH COMMUNAL WATER POINT CONSTRUCTION OF TANK AND SOLAR STRUCTURE



MUTARA BOREHOLE

PROJECT STATUS COMPLETE



NO. OF BENEFICIARIES: **800** (HOUSEHOLDS)



FUNDED BY: COUNTY GOVERNMENT OF LAIKIPIA
KSHS. **2,957,768.00**



SCOPE OF WORKS: **DRILLING:**
- DEVELOPMENT UP TO 180M
- TEST PUMPING WITH A YIELD OF 8M3/HR



NGANOINI WATER PROJECT

PROJECT STATUS COMPLETE



NO. OF BENEFICIARIES: **500** (HOUSEHOLDS)



FUNDED BY: COUNTY GOVERNMENT OF LAIKIPIA
KSHS. **2,105,980.00**



SCOPE OF WORKS: **EXCAVATION AND PIPE LAYING OF 10.2KM**

NOTES: (WAYLEAVE FOR THE PIPELINE)



CONSTRUCTION OF NGANOINI MASONRY TANK

PROJECT STATUS COMPLETE



NO. OF BENEFICIARIES: **500** (HOUSEHOLDS)



FUNDED BY: COUNTY GOVERNMENT OF LAIKIPIA
KSHS. **2,980,000.00**



SCOPE OF WORKS: CONSTRUCTION OF A MASONRY STORAGE TANK 150M3



NDARAGWITI BOREHOLE

PROJECT STATUS COMPLETE



NO. OF BENEFICIARIES: **200** (HOUSEHOLDS)



FUNDED BY: COUNTY GOVERNMENT OF LAIKIPIA
KSHS. **3,100,000.00**



SCOPE OF WORKS: **DRILLING OF BOREHOLE UPTO 250M DEVELOPMENT & TEST PUMPING**
TESTED YIELD 5M3



3.10 : OLMORAN EAST PROJECTS PROGRESS



MLIMA MEZA BOREHOLE EQUIPPING

PROJECT STATUS COMPLETE



NO. OF BENEFICIARIES: **700** (HOUSEHOLDS)



FUNDED BY: COUNTY GOVERNMENT OF LAIKIPIA

KSHS. **3,495,776.00**



SCOPE OF WORKS: **SOLAR EQUIPPING
INSTALLATION OF SUBMERSIBLE PUMP**



KAHARATI BOREHOLE

PROJECT STATUS COMPLETE



NO. OF BENEFICIARIES: **400** (HOUSEHOLDS)



FUNDED BY: COUNTY GOVERNMENT OF LAIKIPIA

KSHS. **2,777,852.00**



SCOPE OF WORKS: - DRILLING AND DEVELOPMENT OF THE BOREHOLE UP TO 170M
- TEST PUMPING WITH A YIELD OF 3M3/HR

NOTES: (LOW YIELD)



NAIBROM BOREHOLE

PROJECT STATUS COMPLETE



NO. OF BENEFICIARIES: **N/A** (HOUSEHOLDS)



FUNDED BY: COUNTY GOVERNMENT OF LAIKIPIA

KSHS. **250,000.00**



SCOPE OF WORKS: **PIPELINE EXTENSIONS
TEST PUMPING YIELD 0.5M3/HR**

NOTES: (LOW YIELD OF THE BOREHOLE - NON-OPERATIONAL)



MBOGOINI BOREHOLE

PROJECT STATUS COMPLETE



NO. OF BENEFICIARIES: **326** (HOUSEHOLDS)



FUNDED BY: COUNTY GOVERNMENT OF LAIKIPIA

KSHS. **2,890,522.80**



SCOPE OF WORKS: **DRILLING & EQUIPPING:**
- DRILLING OF BOREHOLE UP TO 200M
- DEVELOPMENT AND TEST PUMPING
- TESTED YIELD 2M3/H

NOTES: LOW YIELD



TANDARE BOREHOLE (REPAIR & SERVICE)

PROJECT STATUS COMPLETE



NO. OF BENEFICIARIES: **400** (HOUSEHOLDS)



FUNDED BY: COUNTY GOVERNMENT OF LAIKIPIA

KSHS. **540,000.00**



SCOPE OF WORKS: **REPAIR & SERVICING:**
- REPLACEMENT OF SUBMERSIBLE PUMPING SET



SIPILI SCHOOL OF THE DEAF BOREHOLE

PROJECT STATUS COMPLETE



NO. OF BENEFICIARIES: **400** (HOUSEHOLDS)



FUNDED BY: COUNTY GOVERNMENT OF LAIKIPIA

KSHS. **430,000.00**



SCOPE OF WORKS: **REPLACEMENT OF SUBMERSIBLE:**
- PUMPING SET



3.11: SOSIAN WARD PROJECT PROGRESS



NDONYOLOIP BOREHOLE

PROJECT STATUS COMPLETE



NO. OF BENEFICIARIES: **600** (HOUSEHOLDS)



FUNDED BY: COUNTY GOVERNMENT OF LAIKIPIA

KSHS. **3,200,208**



SCOPE OF WORKS: **DRILLING AND DEVELOPMENT:**
- DRILLING OF BOREHOLE UP TO 250M
- DEVELOPMENT DONE

NOTES: (BOREHOLE DECLARED DRY)





3.12 : RUMURUTI WARD PROJECTS PROGRESS



MACHUNGURU BOREHOLE

PROJECT STATUS COMPLETE



NO. OF BENEFICIARIES: **600** (HOUSEHOLDS)



FUNDED BY: COUNTY GOVERNMENT OF LAIKIPIA

KSHS. **2,364,430.00**



SCOPE OF WORKS: - BOREHOLE UP TO 250M
- TEST PUMPING WITH A YIELD OF 2M3/HR
- EQUIPPING WITH SUBMERSIBLE PUMP
- CONSTRUCTION OF TANK AND SOLAR SUPPORT STRUCTURE -PROVISIONAL OF 2 COMMUNAL WATER POINTS & TEST PUMPING WITH A YIELD OF 2.4M3/HR

NOTES: LOW ACCESSIBILITY & LOW YIELD



AINAPMOI BOREHOLE

PROJECT STATUS COMPLETE



NO. OF BENEFICIARIES: **328** (HOUSEHOLDS)



FUNDED BY: COUNTY GOVERNMENT OF LAIKIPIA

KSHS. **2,520,000**



SCOPE OF WORKS: **DRILLING AND EQUIPPING:**
- DRILLING OF BOREHOLE UP TO 270M
- DEVELOPMENT AND TEST PUMPING
- TESTED YIELD 1M3/H

NOTES: (LOW YIELD OF 1M3/H)



MUGUONGO WATER PROJECT

PROJECT STATUS COMPLETE



NO. OF BENEFICIARIES: **320** (HOUSEHOLDS)



FUNDED BY: COUNTY GOVERNMENT OF LAIKIPIA

KSHS. **316,680.00**



SCOPE OF WORKS: **PIPPING EXTENSION:**
SUPPLY AND DELIVERY OF 350 PIPES

NOTES: (CUSTOMERS CONTRIBUTION FOR SUSTAINABILITY)



MUTAMAIYU BOREHOLE

PROJECT STATUS COMPLETE



NO. OF BENEFICIARIES: **400** (HOUSEHOLDS)



FUNDED BY: COUNTY GOVERNMENT OF LAIKIPIA

KSHS. **2,848,925.20**



SCOPE OF WORKS: DRILLING & DEVELOPMENT:
- BOREHOLE UP TO 200M
- TEST PIPING WITH A YIELD OF 7M3/HR



3.13: MARMANET WARD PROJECTS PROGRESS



KINAMBA BOREHOLE

PROJECT STATUS COMPLETE



NO. OF BENEFICIARIES: **300** (HOUSEHOLDS)



FUNDED BY: COUNTY GOVERNMENT OF LAIKIPIA

KSHS. **2,700,000.00**



SCOPE OF WORKS: DRILLING & DEVELOPMENT:
- BOREHOLE DRILLED UP TO 155M
- DEVELOPMENT & TEST PUMPING
- TEST PIPING WITH A YIELD OF 2M3/HR



MAJANI GATITU BOREHOLE

PROJECT STATUS COMPLETE



NO. OF BENEFICIARIES: **300** (HOUSEHOLDS)



FUNDED BY: COUNTY GOVERNMENT OF LAIKIPIA

KSHS. **3,194,640.00**



SCOPE OF WORKS: DRILLING OF BOREHOLE UP TO 230M
DEVELOPMENT AND TEST PUMPING
TESTED YIELD 7M3



CHEMU BOREHOLE

PROJECT STATUS COMPLETE



NO. OF BENEFICIARIES: **300** (HOUSEHOLDS)



FUNDED BY: COUNTY GOVERNMENT OF LAIKIPIA

KSHS. **2,577,660.00**



SCOPE OF WORKS: INSTALLATION OF SOLAR PANELS,
PUMP CONTROLLER, LAYING OF 1KM
PIPELINE CONSTRUCTION OF BOTH TANK
AND SOLAR STRUCTURES

NOTES: (WATER POINTS ARE FAR FROM THE CONSUMERS THEREFORE ADDITIONAL PIPES REQUIRED TO REACH MORE CONSUMERS)



MAKENZI WATER PROJECT

PROJECT STATUS COMPLETE



NO. OF BENEFICIARIES: **250** (HOUSEHOLDS)



FUNDED BY: COUNTY GOVERNMENT OF LAIKIPIA

KSHS. **291,102.00**



SCOPE OF WORKS: **PIPPING EXTENSION:**
SUPPLY AND DELIVERY OF 300 PIPES

NOTES: (CUSTOMERS CONTRIBUTION FOR SUSTAINABILITY)



KARABA WATER PROJECT

PROJECT STATUS COMPLETE



NO. OF BENEFICIARIES: **320** (HOUSEHOLDS)



FUNDED BY: COUNTY GOVERNMENT OF LAIKIPIA
KSHS. **735,672.00**



SCOPE OF WORKS: **PIPPING SUPPLY:** SUPPLY AND DELIVERY OF 350 PIPES

NOTES: (CUSTOMERS CONTRIBUTION FOR SUSTAINABILITY)



CHERETA PRIMARY BOREHOLE

PROJECT STATUS COMPLETE



NO. OF BENEFICIARIES: **660** (HOUSEHOLDS)



FUNDED BY: NORTHERN WATER SERVICES BOARD
KSHS. **3,000,000.00**



SCOPE OF WORKS: **CONSTRUCTION OF:**
- DRILLING AND DEVELOPMENT OF THE BOREHOLE UP TO 250M
- TEST PUMPING WITH A YIELD OF 3M3/HR SUPPORT STRUCTURE

NOTES: (PIPES AND FITTINGS TO SERVE MORE CONSUMERS)



LIMUNGA BARAKA BOREHOLE

PROJECT STATUS COMPLETE



NO. OF BENEFICIARIES: **300** (HOUSEHOLDS)



FUNDED BY: COUNTY GOVERNMENT OF LAIKIPIA
KSHS. **2,800,000.00**



SCOPE OF WORKS: DRILLING OF BOREHOLE UP TO 200M DEVELOPMENT AND TEST PUMPING TESTED YIELD 7M³



MUNYU BOREHOLE

PROJECT STATUS COMPLETE



NO. OF BENEFICIARIES: **300** (HOUSEHOLDS)



FUNDED BY: COUNTY GOVERNMENT OF LAIKIPIA
KSHS. **2,800,000.00**



SCOPE OF WORKS: DRILLING OF BOREHOLE UP TO 200M DEVELOPMENT AND TEST PUMPING TESTED YIELD 2M³



3.14: IGWAMITI WARD PROJECTS



KAITI BOREHOLE

PROJECT STATUS COMPLETE - AWAITING EQUIPPING



NO. OF BENEFICIARIES: **250** (HOUSEHOLDS)



FUNDED BY: COUNTY GOVERNMENT OF LAIKIPIA
KSHS. **3,199,187.20**



SCOPE OF WORKS: DRILLING OF BOREHOLE UP TO 250M DEVELOPMENT AND TEST PUMPING TESTED YIELD 4M³

NOTES: (POOR ACCESSIBILITY)



MUTHENGERA WATER PROJECT

PROJECT STATUS COMPLETE



NO. OF BENEFICIARIES: **300** (HOUSEHOLDS)



FUNDED BY: NORTHERN WATER
KSHS. **900,000.00**



SCOPE OF WORKS: **SUPPLY & INSTALLATION OF PIPES**



MAHIANYU BOREHOLE

PROJECT STATUS COMPLETE - AWAITING EQUIPPING



NO. OF BENEFICIARIES: **200** (HOUSEHOLDS)



FUNDED BY: COUNTY GOVERNMENT OF LAIKIPIA
KSHS. **3,100,000.00**



SCOPE OF WORKS: DRILLING OF BOREHOLE UP TO 230M DEVELOPMENT AND TEST PUMPING TESTED YIELD 8M³





3.15: GITHIGA WARD PROJECTS



BUSTANI PRIMARY BOREHOLE

PROJECT STATUS COMPLETE - AWAITING EQUIPPING



NO. OF BENEFICIARIES: **400** (HOUSEHOLDS)



FUNDED BY: COUNTY GOVERNMENT OF LAIKIPIA
 KSHS. **2,891,724.00**



SCOPE OF WORKS: -DRILLING OF BOREHOLE UP TO 180M
 -DEVELOPMENT AND TEST PUMPING
 -TESTED YIELD 2.5M³/H

NOTES: LOW YIELD



Gallery 4: Kabiru cemetery - Fencing & Maintenance of grounds



APPENDIX: ON-GOING WORKS - NORTH SUB-COUNTY



Appendix 1: Foundation excavation for the 225M3 masonry tank and materials for Osirwa W/P

Appendix 2: Drilling of Oldigiri primary school b/h –Dry borehole



Appendix 3: Solarization of Aljiju borehole



Appendix 4: Ongoing solar equipping of Ethi community borehole



Appendix 5: Loshaki Dam rehabilitation works



Appendix 6: Loshaki Dam after rehabilitation



APPENDIX: ON-GOING WORKS - LAIKIPIA WEST



Appendix 7: Foundation excavation for the 225M3 masonry tank



Appendix 8: Concreting of floor slab for nganoini masonry 135m3 tank



Appendix 9: Foundation excavation for the 225M3 masonry tank and materials for Osirwa W/P



Appendix 10: Drilling of Oldigiri primary school b/h -Dry borehole



Appendix 11: Drilling of Bustani borehole



Appendix 12: Concreting of floor Slab for Nganoini Masonry 135M3 Tank



Appendix 13: Solar Panels, Tank, Pump controller and CWPat Machunguru B/Hole



Appendix 14: Drilling of Gatitu Borehole



Appendix 15: Inspection of Muchunguru primary school borehole in Laikipia West



Appendix 16: Test Pumping for Mutara Borehole



Appendix 17: Test Pumping for Mutara Borehole



APPENDIX: ON-GOING WORKS - LAIKIPIA EAST



Appendix 18: Solar Equipping at Tetu borehole



Appendix 19: Construction of a 135M3 Concrete Tank at Mikubune



Appendix 20: Test pumping at Reli B borehole



Appendix 21: Test pumping at Yard Primary School borehole



Appendix 22: Inspection of Tetu borehole



Appendix 23: Murungai borehole in Umande ward



Appendix 24: Drilling and Equipping of Muthengera borehole in Igwamiti ward



Appendix 25: Murungai borehole in Umande ward



Appendix 26: Inspection of Mlima Meza borehole in Olmororan Ward



Appendix 27: Solarization of Chemu borehole in Marmamet ward



Appendix 28: Water Reticulation at Solio - May 2020



Appendix 29: Water reticulation in Solio villages



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NANYUKI

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