

LAWS OF KENYA

## THE WATER RESOURCES REGULATIONS

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Kenya

Water Act

## The Water Resources Regulations

Legal Notice 43 of 2021

Legislation as at 31 December 2022

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## **WATER ACT**

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## Part I - PRELIMINARY

## 1. Citation

These Regulations may be cited as the Water Resources Regulations.

#### 2. Interpretation

(1) In these Regulations, unless the context otherwise requires—

"abstraction" means the taking of water from any water resource, either permanently or temporarily;

"airline" is a tube installed in a borehole or well for the purposes of measuring water level;

"alteration" means any physical change in the depth, diameter, casing, screen or any other structural change in an existing borehole, or any consequent change in Permit yield as a result of an approved Variation;

"analysis" means the testing or examination of any matter, substance or process for the purpose of determining its composition or qualities or its effect (whether physical, chemical or biological) on any segment of water or examination thereof;

"annual potential recharge" means, in respect to an aquifer, annual potential recharge as defined by the Authority in water resources allocation guidelines issued by the Authority from time to time.

"aquifer" means a geological formation, group of formations or part of a formation containing sufficient saturated permeable material to yield significant quantities of water to boreholes or springs;

"artificial groundwater recharge" means the intentional augmentation of groundwater resources by directly improving the infiltration of water to a target aquifer through the construction of suitable recharge structures;

"Association" means a water resources user association;

"authorisation" means authorisation issued by the Authority to construct works;

"authorised" means as approved by the Authority;

"basic human needs" means the quantity of water required for drinking, food preparation, washing of clothes, bathing, basic sanitation

and is assumed to be equal to twenty-five litres per person per day;

"basin area water resources management strategy" refers to a document that has been prepared for the purpose of directing the management of the water resources within the basin area;

"borehole" means a hole, usually vertical, drilled for the extraction of or measurement of groundwater;

"canal" means any surface drain, ditch, furrow, channel, flume or other conduit for conveying water, the surface of which is at atmospheric pressure;

"chemical" means a chemical substance in any form whether by itself or in a mixture or preparation, whether manufactured or derived from nature and includes industrial chemicals, pesticides, fertilizers and drugs;

"commercial irrigation" means irrigation primarily for commercial purpose;

"dam" includes any existing or proposed structure together with appurtenant works, which is capable of containing, storing or impounding water (including temporary impoundment or storage) above ground level, whether that water contains any substance or not;

"discharge" means volumetric flow rate;

"driller" or "drilling contractor" means a person, firm or agency which is registered under these potential Regulations to undertake the construction or rehabilitation of a borehole;

"effluent" means waste which is-

(a) a liquid which flows out of a containing space;

(b) sewage water or other liquid, untreated, partially or completely treated discharged directly or indirectly into a water resource;

"environment" includes the physical factors of the surroundings of human beings including land, water, atmosphere, climate, sound, odour, taste, the biological factors of animals and plants and the social factor of aesthetics and includes both the natural and the built environment;

"emergency" means a disaster or hazard caused by climatic, hydrologic, tectonic, accidental, natural or man-made events which have or potentially can affect a large population and which require extraordinary measures to be undertaken to safeguard public interests;

"flow" means a volume of water passing a cross section of a body of water, watercourse or works in a unit of time;

"groundwater" means the water of underground streams, channels, artesian basins, reservoirs, lakes and other bodies of water in the ground, and includes water in interstices below the water table;

"groundwater potential" means groundwater potential as defined by the Authority in water resources allocation guidelines issued by the Authority from time to time;

"indexation" means the methodology for adjustment of the water use charge whereby the water use charge is allowed to change by the rate of inflation over the initial price;

"inspector" means any water service inspector appointed in accordance with regulation 81;

"irrigation" refers to the artificial application of water to a plant;

"land holder" in relation to land, means the registered owner of the land or the person in whom the land is otherwise vested by law, and includes—

- (a) any person who by any established right, customer estate whatsoever is, or is entitled to be, the holder or possessor of land;
- (b) any person lawfully holding or occupying land in accordance with the provisions of any law empowering the allotment of land upon the promise of title, subject to the fulfilment by the allottee of prescribed conditions; and
- (c) any person to whom a mining lease or mining location has been granted under the Mining Act (Cap. 306);

"land reclamation" means the process of making land capable of more intensive use by changing its general character, as by drainage of excessively wet land; irrigation of arid or semiarid land; or recovery of submerged land from seas, lakes and rivers;

"measuring device" refers to a fitting, equipment or infrastructure which can be calibrated to provide an accurate measure of the flow or level of water;

"natural resources" include resources of air, land, water, animals and plants including their aesthetic qualities;

"operator" means any person authorized to construct works under these regulations by authorization, or to divert, abstract, or use water by permit;

"permit" means a permit for the time being in force under this Act;

"permit holder" means the person the Authority has issued with a permit or any other person acting under the authority of the permit holder;

"plan" means map or drawing and the associated literature;

"point source" means any discernible, confined and discrete conveyance, including but not limited to any pipe, ditch, channel, conduit, tunnel, well, discrete fissure, container, rolling stock, concentrated animal feeding operation or vessel or other floating craft from which pollutants are or may be discharged;

"pollution", in relation to a water resource, means any direct or indirect alteration of the physical, thermal, chemical and biological properties of the water resource so as to make it—

- (a) less fit for any beneficial purpose for which it is or may reasonably be expected to be used; or
- (b) harmful or potentially harmful to-
  - (i) the welfare, health or safety of human beings;
  - (ii) any aquatic or non-aquatic life or property; or
  - (iii) the environment;

"pond" means a natural depression that contains water;

"qualified water sector professional" means a person qualified under these to provide the services of a professional chemist, hydrologist, hydrogeologist, engineer, surveyor or other professional service required to be performed under the Act;

"receiving water body" means any surface or groundwater body that may be used for effluent disposal under the Act;

"regional office" means an office of the Authority established within or near to a basin area pursuant to the provisions of the Act;

"rehabilitation" means any physical, mechanical or chemical process conducted in any water infrastructure which is undertaken to improve its operational status;

"riparian area" is land which by virtue of the proximity of the land to a water body, management obligations shall be imposed on the owner of the land by the Authority;

"soil and water conservation plan" refers to a set of activities that have to be done in order to reduce the likelihood of soil and water loss from the landscape;

"stakeholder" is a person or entity that has influence over or is affected by a certain activity on the resource;

"standard" means the limits as established under these regulations which are made pursuant to the Act or any other written law;

"subsistence irrigation" means irrigation primarily for household food security purposes;

"use", in relation to water contained in or forming part of a water resource, means-

- (a) abstraction, obstruction, or diversion of the water resource;
- (b) discharge of materials or substances into the water resource;
- (c) derivation of energy from the water resource;
- (d) derivation or extraction of natural resources or other materials from a water resource;

(e) any other activity, of a kind prescribed by these Regulations, in relation to the water resource;

"variation" means any authorised amendment made to a water permit.

"waste" includes any matter prescribed to be waste and any matter whether liquid, solid, gaseous, hot or radioactive substances, which is discharged, emitted or deposited in the environment in such volume composition or manner likely to cause an alteration of the environment;

"waste disposal" means the action of releasing, depositing, discharging emitting all forms of waste not authorized by the Authority into the environment that has the potential to causing pollution and adversely affecting the quality of water resources;

"waste disposal control plan" means the plan referred to in the Fourth Schedule of these Regulations whose purpose is to control the discharge of any pollutant into a water resource;

"water resources monitoring network" means the set of equipment, infrastructure established for the purpose of monitoring the quantity and quality of the water resources;

"water resource user association" means an association of water users, or other stakeholders who have formally and voluntarily associated for the purposes of cooperatively sharing, managing and conserving a common water resource and resolution of water use conflict;

"Water Tribunal" means the Water Tribunal established by section 119 of the Act;

"weir" means an obstruction placed across the watercourse or body of water for the primary purpose of abstracting or diverting water,

or of arresting or retarding its flow, but not for storage; and

"wetland" refers to an area where plants and animals have become adapted to temporary or permanent flooding by saline, brackish or fresh water.

(2) Unless otherwise provided, the units shall be International System of Units.

#### 3. Application of Regulations

- (1) These Regulations shall apply to the regulation, management, use and development of water resources.
- (2) These Regulations shall apply to all water resources whether perennial or seasonal and including water resources of the territorial sea.

#### Part II - PRESCRIPTION OF WATER USE ACTIVITIES

#### 4. Schedule of activities

Without prejudice to the generality of section 2 of the Act, the activities set out in Part 1 of the First Schedule carried out on or in relation to a water resource shall be regarded as water use activities requiring a water use permit.

#### 5. Requirement for a permit for water use activities

The activities listed in Part 2 of the First Schedule are water use activities in respect of which an application for variation of permit shall be required.

#### 6. Categorization of water resource use applications

(1) Water use activities shall be categorised into four categories on the basis of the criteria stipulated in Part 3 of the First Schedule.

- (2) In the categorisation of water resources under sub regulation (1), the views of the Basin Water Resources Committee and the Association shall be taken into account, and, where there is no registered Association, the views of the local representative associations whose objectives are natural resource use or natural resource use conflict resolution shall be considered.
- (3) In determining the category into which a water use activity falls, account shall be taken of and effect given to the differences associated with the characteristics of the catchment or basin in which the water resources is located and the particular circumstances of each water resource as stipulated by the Authority in water allocation guidelines.
- (4) A person aggrieved by the decision of the Authority on the category into which a water use falls may appeal to the Water Tribunal.

#### Part III – APPLICATION FOR A PERMIT OR OTHER AUTHORITY FOR WATER USE

#### 7. Application for a permit

- A person who intends to undertake an activity involving the use of water from a water resource shall apply to the Authority for a permit before commencing the activity.
- (2) A person who fails to obtain a permit as provided under sub regulation (1) commits an offence.

#### 8. Permit for temporary use

Where the activity for which the water is intended to be used is temporary in nature, the application shall be for a period of one year or such longer period, not exceeding two years, as may be determined by Authority.

#### 9. Water use to be appurtenant to land

- (1) An application for a water use permit shall be made by the owner of the land on which the water use is to take place and, where the applicant is not the landowner, the consent of the owner of the land shall be endorsed on the application.
- (2) An application for a permit under sub regulation (1) shall be accompanied with evidence of ownership of the land which shall be—
  - (a) the registered document of title, where the land is registered; or
  - (b) where the land is not registered, other documentary evidence satisfactory to the Authority that the applicant is the lawful landowner or has the authority of the lawful landowner to make the application.

#### 10. Easements, wayleaves, etc.

- (1) A permit holder seeking to use water on land other than the land on which the water use activity is to occur shall obtain an easement, wayleaves or other legal right of access.
- (2) An application for an easement or other right of access under sub regulation (1) shall be made in the Form WRA 002 set out in the Thirteenth Schedule and accompanied by the fee set out in the Second Schedule.
- (3) The easement or right of access referred to in this regulation may be in existence at the time of the application or to be granted upon the issue of the water use permit.
- (4) A person intending to enter upon land belonging to other persons for survey or investigative purposes of water resource management or development shall submit to the Authority an application in Form WRA 016 set out in the Thirteenth Schedule and accompanied by the fee set out in the Second Schedule.

(5) The Authority shall be indemnified against all claims by landowners for damage or losses arising from works developed by a permit holder or a person authorised to construct works for the use of water.

## 11. Consent of owner of works

- (1) An applicant intending to use works owned by another person shall, at the time of the application and on every renewal thereafter, produce to the Authority satisfactory evidence of the consent or agreement of the owner of the works to the intention to use the works.
- (2) Where in the opinion of the Authority monitoring and control of the water use activity would be best achieved by the issuance of separate permits to applicants intending to share common works, the Authority may issue separate water permits or a supplementary permit in the Form WRA 019 set out in the Thirteenth Schedule.

## 12. Use of existing works in the public interest

- (1) Where, in the opinion of the Authority, public interest would best be served by the use of existing works, the Authority may, after giving the owner of the works an opportunity to make representations, order the owner of the works to make available the works to any applicant so long as the water use of the owner of the works is not adversely affected.
- (2) The owner of the works whose works are, pursuant to an order of the Authority, to be used by another applicant for a water use activity, shall be entitled to prompt and fair compensation for use of the works.

## 13. Category A applications

- (1) An application for a permit for a proposed water use activity falling within category A activity specified in the First Schedule shall be—
  - (a) made prior to constructing or installing of the works;
  - (b) made to the Authority in Form WRA 001 set out in the Thirteenth Schedule;
  - (c) accompanied by the fee specified in the Second Schedule;
  - (d) accompanied by evidence of consultations undertaken with respective Associations and, where there is no registered Association, the local representative associations whose objectives are natural resource use or natural resource use conflict resolution and their views.
- (2) Upon receipt of the application under sub regulation (1), the Authority shall verify the evidence provided including seeking confirmation of the officials of the consulted Association or local representative association and upon confirmation, the regional office shall process the application.
- (3) If satisfied that the proposed water use activity poses a low risk of impact on the water resource and taking account of the comments of the Association or the respective local representative associations, the Authority shall approve the application by endorsing approval on the application.
- (4) Upon endorsement by the Authority under sub regulation (3), the applicant may commence the water use activity described in the application subject to conditions applicable to Category A water users.
- (5) The Authority may at any time require any Category A water user to be re-classified after an assessment of the water resource or for other reasonable cause.
- (6) Where there is a material change in any aspect of the water use—
  - (a) the water user shall notify the Authority within twenty-one days of the change; and

- (b) the Authority shall assess whether, in light of the change, a re-application or a variation of the conditions imposed on the water use is necessary.
- (7) Where a permit holder—
  - (a) fails to notify the Authority of a material change to the water use;
  - (b) uses water in breach of the conditions applicable to the water use;
  - (c) withholds relevant information from the Authority or gives information which is misleading in any material particular, commits an offence and the Authority may, in addition to any other penalties, cause the cancellation of the Category A water use permit.

## 14. Category B, C and D applications

- (1) An application for a permit for a proposed water use activity falling within Category B, C or D as specified in Part III of in the First Schedule shall—
  - (a) be made to the Authority in the Form WRA 001 set out in the Thirteenth Schedule;
  - (b) state the intended purpose of water use;
  - (c) be accompanied by a site assessment report, a hydrological assessment report or hydrogeological survey report and an environmental impact assessment study report which is compliant with the requirements in the Third Schedule; and
  - (d) be accompanied by the fee specified in the Second Schedule.
- (2) A separate application for water resource use as specified in the Second Schedule shall be required for each water use activity including for—
  - (a) each abstraction point, whether from surface or groundwater;
  - (b) each effluent discharge point unless covered under another application;
  - (c) each point of storage unless covered under another application; and
  - (d) separate water use activities other than those covered in paragraphs (a), (b) and (c).
- (3) The applicant shall pay the application fees for each complete application before the application is processed by the Authority.

#### 15. Maps to accompany applications

- (1) Every water use applicant shall submit to the Authority a map showing the water body, the location of the works, supply area, location of all authorizations or permits currently held by the applicant which are relevant to the application and any other relevant details as may be required by the Authority.
- (2) All significant points on the map shall be geo-referenced showing Universal Transverse Mercator (UTM) coordinates and zone with respect to the Arc 1960 datum.

#### 16. Technical report

- (1) Without prejudice to the provisions of regulation 14, each application for a water use activity under Category C or D shall be accompanied by a technical report prepared in accordance with the Fourth Schedule:
  - Provided that following a review of the application, the Authority may, require a category B applicant to submit a technical report.
- (2) A site assessment report or a technical report shall be prepared by a qualified and licensed water sector professional;

- (3) Where it is sufficiently demonstrated that an applicant is unable to use the services of a consultant in the preparation of a technical report as required under sub regulation (2), the Authority may, at the request of the applicant, undertake the report preparation.
- (4) A person seeking the services of the Authority in the preparation of the any technical report, shall—
  - (a) make a written request to the Authority; and
  - (b) pay prescribed fees for the Authority's services of preparing the report.
- (5) Where the Authority is satisfied that it is in the interest of the public and the applicant that the Authority undertakes the preparation of any technical report, the Authority shall prepare the report in accordance with these Regulations:
  - Provided that any water sector professional officer of the Authority who prepares the report shall not be involved in the evaluation of the same report following its submission to the Authority in support of the application for a permit.
- (6) Where a water sector professional officer of the Authority undertakes duties of preparing a site assessment report or any other technical report, he or she shall be deemed to be a qualified water sector professional for the purpose of preparing the site assessment report or any other technical report.

#### 17. Recommendations by Associations on applications

- (1) An water use applicant shall submit with each application evidence of consultations undertaken with the relevant Association and, where there is no registered Association operating in the area of the proposed water use, with the main local representative associations whose objectives are natural resource use or natural resource use conflict resolution and their views on the proposed water use.
- (2) Upon receipt of an application for a water use activity under a category B, C and D, the regional office of the Authority shall provide a copy of the application to the Association and the Basin Water Resource Committee for comments and where there is no registered Association operating in the area of the proposed water use, to the key local representative associations whose objectives are natural resource use or natural resource use conflict resolution named by the applicant as having been consulted.
- (3) The Association or local representative associations shall submit their comments to the Authority in the Form WRA 003 set out in the Thirteenth Schedule and copied to the applicant within thirty days of receipt of the application by the Association or associations as the case may be and the Authority shall make its decision within fourteen days of receipt of the comments.
- (4) Where the Association or local representative association does not submit comments within the period specified under sub regulation (3), the Authority may proceed to determine the application after the expiry of thirty days.

#### 18. Public notification

- (1) Applicants for Category C and D permits shall cause the permit application to be published in a national newspaper of wide circulation and in the Kenya Gazette.
- (2) At the end of each month, the Authority shall display all permit applications received, within the region, on the Authority's website, its regional and sub-regional offices and at the offices of the county commissioner, deputy county commissioner, assistant county commissioner, chief and assistant chief.
- (3) A public notification issued under this regulation shall specify—
  - (a) the name of the applicant;

- (b) the water resource in respect to which the application has been made;
- (c) the quantity of water applied for;
- (d) the purpose of water use for which the application has been made;
- (e) the land registration number;
- (f) the location or other local administrative unit within which the water use is to be undertaken; and
- (g) any other details relevant to the public with respect to the permit application.

## 19. Objection to permit application

- (1) Any person may object in writing to any permit application by stating grounds for the objection.
- (2) The objection shall be lodged with the Authority within thirty calendar days of the public notification issued under regulation 18.
- (3) The Authority shall consider all objections received within the prescribed period for submitting objections before determining the application and in its decision state how it has addressed the objections.

## 20. Guidelines and procedures for permits of temporary nature

The Authority shall administratively make guidelines and procedures for the application for permits for a temporary period.

## 21. Open meeting

- (1) If, based on the objections or representations received in response to a category C and D applications or other considerations, the Authority considers it necessary to hold a open meeting with relevant stakeholders and the public, the Authority shall convene such meeting at or near the site of the proposed water use to hear views on objections, representations and other considerations before determining the application.
- (2) The Authority shall give not less than fourteen days written notice of the intention to hold an open meeting on a stated day, time and venue to all the persons whose written objections were received on time and post the notice on the Authority's website, at the site of the proposed meeting and at the Authority's regional and sub-regional office.
- (3) The meeting under sub regulation (1) shall be open to the public and, if appropriate, may be conducted using a virtual platform.

#### 22. Rejection of application

- (1) Where the Authority rejects an application for a permit, it shall within thirty days of its decision, notify the applicant, and any objector to the application, of its decision in writing.
- (2) Where the applicant is aggrieved by the decision of the Authority under sub regulation (1), the applicant may within fourteen days of receiving the Authority's decision appeal against the decision of the Authority to the Water Tribunal.

## 23. Authorisation to construct works

- (1) Where the Authority approves an application for a water use permit, it shall issue an Authorisation to Construct Works in Form WRA 004 set out in the Thirteenth Schedule.
- (2) The Authorization issued under this regulation shall specify the period of time for completion of the works which may only be extended with the written permission of the Authority for good cause.

(3) Failure to complete works within the stipulated time or to comply with the stipulated conditions may result in the cancellation of the Authorization.

#### 24. Limitation on authorization

An Authorization to Construct Works does not authorise an applicant to commence abstraction or the proposed use of the water before the conditions governing the authorisation are certified as having been met.

#### 25. Extension of Authorization

- (1) Where the works are not completed within the time specified by the Authorization—
  - (a) a Progress Report shall be submitted to the Authority in lieu of a Completion Certificate; and
  - (b) the applicant may apply for an extension of time in Form WRA 005 set out in the Thirteenth Schedule accompanied by the Progress Report and an Explanatory Report for the failure to complete the Works within the time stipulated.
- (2) The Authority shall consider the Progress report and explanatory statement and may grant an extension for six months or such longer period as appears necessary to complete the works:
  - Provided that an extension shall not be granted for a period longer than the period initially stipulated for constructing the works.
- (3) If, despite the extension under this regulation, the construction of the Works is still not complete within the extended time, the Authorisation shall lapse and the Applicant shall, within a time stipulated by the Authority, submit to the Authority a plan for restoration of the site to, as near as is practicable, its original condition.

#### 26. Register of authorizations and permits

- (1) The Authority shall maintain a Register of authorisations and a Register of permits in the form shown in the Thirteenth Schedule for each particular resource.
- (2) Any person may obtain a copy of the Register of authorisations or Register of permits on payment of the fee specified in the Second Schedule.

## 27. Completion certificates

- (1) Upon completion of the works, the applicant shall submit a completion certificate to the Authority in Form WRA 006 set out in the Thirteenth Schedule.
- (2) Upon receipt of the completion certificate, and on payment by the applicant of inspection fees specified in the Second Schedule, the Authority shall inspect the works to ascertain that all the conditions stated on the Authorisation have been complied with to its satisfaction.
- (3) An inspector or a person authorised by the Authority shall inspect the works to ensure compliance to the Act and these Regulations.
- (4) Where the inspector is not satisfied with the completion status of the works, then he or she shall issue an Order within fourteen days detailing steps that shall be taken to bring the works to a satisfactory condition.
- (5) Where the inspector is satisfied that the works are complete, and that the conditions have been complied with, the Authority shall, following receipt of a water use permit application, issue a permit on the Form WRA 009 in the Thirteenth Schedule within thirty one days of receipt of a complete application.

## 28. Application for water use permit for surface and groundwater

Within thirty days of the date of the completion of the works, the applicant shall apply to the Authority for a water use permit in relation to surface water and ground water.

## 29. Water use permit validity

A water use permit granted under regulation 28 shall be issued for a period of five years but may be renewed or extended for a similar or shorter period following an application by the permit holder.

#### 30. Water resource user identification number

A water use permit shall bear a unique water resource user identification number or security code which shall whenever practicable identify the basin or sub-basin area in which the water use occurs.

#### 31. Permit fees

- (1) The permit holder shall pay the applicable fees as prescribed in the Second Schedule.
- (2) Failure to pay the prescribed permit fees may be a basis for revocation of the permit, disconnection of intakes, variation of the permit conditions, recovery proceedings through a civil suit or other enforcement action deemed appropriate by the Authority.
- (3) Where the permit holder, without due cause, delays in the payment of the water use fees to the Authority, interest at two per cent per month shall accrue on a daily basis until the water use fees are fully paid.

#### 32. Conditions of Permit

- (1) The Authority shall state on the permit, conditions to which the permit is subject to after considering the characteristics of the water resource or body of water, the water use proposed, the technical report, the representations received and any other relevant considerations.
- (2) A permit issued by the Authority shall be subject to such terms, restrictions and limitations as the Authority may deem proper to impose and to any, or all of the following minimum conditions—
  - (a) a permit shall not limit in any way the exercise of existing lawful water use rights of any other person nor imply any guarantee that the quantity of water referred to is or will become available;
  - (b) the water used under a permit if it is to be returned to any water resource shall not be polluted with any matter to such an extent as to be capable of causing injury or damage whether directly or indirectly to any person, public health or to livestock, animals fish, or crops or to any undertaking in respect of which such water is used;
  - (c) the permit holder shall take all reasonable precautions to the satisfaction of the Authority to prevent accumulation in any watercourse of silt, sand, gravel, stones, sawdust, refuse, sewerage, waste or any other substance which may be injurious to the water resource;
  - (d) in every permit issued by the Authority for mining, industrial purposes or hydropower the following conditions are implied—
    - (i) the water used shall be returned, if reasonably practicable, to the water resource from which it was taken or to such other water resource as the Authority may direct; and
    - (ii) the water used shall, in so far as the use to which it is to be put allows, be returned substantially undiminished in quantity or quality to the water resource from which it was taken.

- (3) The permit holder is responsible for fulfilling and meeting the cost of fulfilling all the conditions attached to the ermit.
- (4) Failure to comply with the conditions attached to the permit may be used by the Authority as a basis for suspension or cancellation of the permit.
- (5) A permit holder shall maintain a record of all water abstracted, diverted, stored or discharged, giving the date, time, quality and quantity and methods of such abstraction, diversion, storage or discharge and the purpose or purposes for which such water was used and such record shall be furnished to the Authority annually or at such more frequent periods as the Authority may specify.

## 33. Transfer of permit by permit holder

A permit holder may apply to the Authority for the transfer of the permit to another person in the Form WRA 012 set out in the Thirteenth Schedule.

## 34. Variation of permit by permit holder

- (1) A permit holder may apply to the Authority for variation of the permit in Form WRA 011 set out in the Thirteenth Schedule and accompanied by the assessment fees set out in the Second Schedule.
- (2) Where the variation does not result in a change in the category of water user or materially change the permitted water use, the Authority may, after taking into account any representations received, grant the application.
- (3) Before granting a variation application, the Authority shall give public notice of the application by posting for a period of thirty days on its web-site and at the regional and relevant sub-regional office particulars of the application and a brief summary of the nature and effect of the proposed variation and inviting persons with comments on the application to provide such comments within the thirty days.
- (4) Where the variation results in a change in the category of water use, the permit holder shall be required to apply for a new permit.
- (5) The permit as varied shall be made available in the register of permits maintained by the Authority.
- (6) A person who contravenes this regulation commits an offence and is liable, on conviction, to the penalties prescribed by these Regulations.

#### 35. Variation or cancellation of permit by the Authority

- (1) The Authority may, on its own motion, vary or cancel a water permit after giving the permit holder thirty days' notice to show cause why the permit should not be varied or cancelled and considering any representations made by the permit holder following receipt of the notice.
- (2) The Authority may undertake the following measures for enforcement—
  - (a) suspension;
  - (b) cancellation; or
  - (c) variation of a permit; or
  - (d) confiscation of any equipment or plant, or removal of works
- (3) Any cost incurred by the Authority in effecting a measure under this regulation shall be a cost recoverable from the permit holder.
- (4) The Authority shall post on its website and at the regional and sub-regional office, particulars of any permit variations or cancellations within thirty days of the variation or cancellation.

## 36. Renewal of permits

- (1) Three months before the expiry of a permit, a permit holder shall apply for its renewal by—
  - (a) making an application in Form WRA 010 in the Thirteenth Schedule; and
  - (b) paying the fees for renewal, any water use charge arrears and works inspection fees as prescribed in the Second Schedule.
- (2) A late submission of the application for the renewal of a permit will attract a penalty of twenty-five thousand shillings for each month of delay.
- (3) The Authority shall inspect the works before processing the application for renewal.
- (4) The Authority may require submission of technical reports contemplated under regulation 16 indicating the condition of the water resources at the time of the application for renewal before processing an application for renewal or impose new conditions or alter existing permit conditions as necessary in response to causes as stipulated in section 46 (1) of the Act.
- (5) If the permit holder does not apply for the renewal of the permit on expiry of the permit, the permit will automatically lapse and the Authority shall initiate the cancellation process in accordance with section 49 of the Act.

#### 37. Register of approved water users, water uses and permits

- (1) The Authority shall maintain a Register of approved water users, water uses and permits as required by section 54 of the Act
  - and post an electronic copy of the Register on its website.
- (2) A person may obtain a copy of the Register of approved water users, water uses and permits certified by the Authority on payment of the applicable fees set out in the Second Schedule.

#### 38. Permit of authorisation not a defence

The issue by the Authority of an authorisation or permit shall not be a defence to any civil action or to a criminal prosecution.

#### 39. Public notification of authorisations and permits

- (1) The Authority shall cause to be displayed on the notice board, at its offices and at the offices of the chief, a list of notifications on authorisations, permits and cancellations.
- (2) The list shall include a summary of the information pertaining to the water use activity.
- (3) Any person wishing to obtain full details of a particular permit shall apply using form WRA 009 as set out in the Thirteenth Schedule and pay the required fee as specified in the Second Schedule.

#### 40. Compliance with other laws

The right of a permit holder shall, notwithstanding anything contained in his or her authorisation or permit, be subject to and conditional to his or her compliance with the provisions of the Act and any other applicable laws.

#### Part IV - SURFACE WATER

#### 41. Surface water allocation plan and guidelines

- (1) For purposes of the exercise of its water allocation functions under the Act, the Authority shall from time to time and in consultation with the Cabinet Secretary, formulate and make available surface water allocation plans and guidelines.
- (2) Without prejudice to sub regulation (1), for purposes of the allocation of surface water resources—
  - (a) "flood flow" means any flow that exceeds the Q80 flow value;
  - (b) "normal flow" means any flow that is less than the Q80 flow value;
  - (c) "Q80 flow value" means the flow value that is equalled or exceeded eighty percent of the time; and
  - (d) the Q80 flow value shall be derived from a naturalised flow duration curve, preferably derived from daily flows.

## 42. Declaring of a water course

- (1) The Authority may, after public consultation, declare a natural watercourse not to be a watercourse or a constructed channel to be a watercourse for the purposes of water resources management and regulation.
- (2) Where a body of water has changed into a new course, the Authority shall recognise the new course to be a watercourse and shall require the original course to be retained as a flood channel.

## 43. Boundary of properties defined by a watercourse

If, owing to any natural events or authorised or unauthorised works being constructed on a water body, a body of water which constitutes the boundary of two or more properties ceases to flow between or to separate such properties or has changed into a new course, the boundaries of such properties shall, unless readjusted by mutual agreement between the parties concerned, remain as before.

#### 44. Wetlands

- (1) Any portion of land in excess of one hectare which is naturally subject to seasonal or permanent flooding and has the ecological characteristics of a swamp or marsh shall be considered to be a wetland under these Regulations.
- (2) The Authority may by notice in the *Gazette* and for good cause, declare any portion of land which is less than one hectare as a wetland for purposes of water resources management and regulation.
- (3) The land owner or legally authorised representative of the landowner of the land on which a wetland is situated shall apply to the Authority for approval for any proposed or ongoing activities including drainage, discharge into the wetland or construction that would affect the wetland.
- (4) Whenever any proposal for the drainage and reclamation of a swamp involves the subsequent use by the applicant of all or any of the water conserved by the drainage or reclamation of such swamp, the applicant shall submit an application for a permit for the diversion, abstraction, storage or use of such water with a Hydrological Assessment Report, Hydrogeological Survey Report and Environment Impact Assessment Report and licence.
- (5) No works involving the drainage of a swamp shall deprive any lawful water user of reasonable access to water except by agreement or on payment of compensation, or on supplying water from other sources or by other means, and the applicant concerned shall submit to the Authority all plans and documents showing the proposals to provide such water user with access to water, and

any agreements to this effect, and he shall, if the proposals include any works for supplying such water user with water, submit an application for a permit.

#### 45. Land reclamation

- (1) The Authority may in accordance with this regulation, authorise the reclamation of land for infrastructure development over and upon the sea-bed, lake or river irrespective of the ownership of land bordering on any land borders of such sea-bed, lake or river.
- (2) Notification of the proposed land reclamation shall be published—
  - (a) in the Gazette by the Cabinet Secretary;
  - (b) on the Authority's website; and
  - (c) in two national newspapers of wide circulation in Kenya.
- (3) A notification under sub regulation (2) shall—
  - (a) describe the proposed land reclamation and give the approximate area to be occupied in connection therewith; and
  - (b) call upon all persons having objections to the reclamation or any claims of private right in respect thereof to submit to the Authority before the expiration of such period being not less than thirty days or as may be specified in such notification, such objections or claims in writing specifying the nature thereof and giving an estimate of any loss which it is alleged would be incurred by reason of the extinguishment of any private right.
- (4) Whenever claims or objections are submitted pursuant to sub regulation (3)(b) and the Authority considers it expedient so to do, it may establish a Panel to hold a public inquiry on such matters as set out in the terms of reference.
- (5) Such Panel shall keep or cause to be kept a record of any evidence taken at the public inquiry and shall transmit the same together with a report of its findings to the Authority.
- (6) The Authority may, after considering the proposed land reclamation together with all objections and claims submitted and, where a public inquiry has been held, the evidence taken by, and the report of the Panel holding the inquiry, authorise such land reclamation with or without modifications or refuse to authorise the land reclamation.
- (7) A notification of an authorisation together with a description of the proposed reclamation shall be published in the *Gazette*.
- (8) Upon the publication of the authorisation of a proposed reclamation, all public and private rights of navigation or fishing and rights ancillary thereto, all public and private rights of access or user, and all other public or private rights in, upon or over the sea-bed, lake or river occupied by the proposed reclamation or by the infrastructure development shall be extinguished and cease to exist.

#### 46. Requirement to obtain permit after land reclamation

- (1) Any person intending to or currently undertaking a water use activity in relation to a water resource on reclaimed land shall apply to the Authority for a water use permit.
- (2) Where the proposed water use is in relation to a lake or river, the application shall be accompanied by a letter of no objection of the Basin Water Resources Committee, the water resource users associations or local representative associations.
- (3) A permit holder is responsible for complying with these Regulations in relation to any activities on reclaimed land.

## 47. Allocation of water for irrigation

- (1) In allocating water for irrigation, the Authority shall—
  - (a) give priority to irrigation for subsistence purposes;
  - (b) be guided by crop water requirements in the area and the efficiency of water use;
  - (c) limit the permit holder to abstract, impound or divert only flood flow for purposes of irrigation; and
  - (d) require the applicant, to the extent practicable, to make provision for not less ninety days' storage of flood flow for use during the dry season unless the abstraction of water is to be from a regulated watercourse or river.
- (2) In considering aggregate water demand for subsistence irrigation, the Authority may declare by public notification for each catchment area or part thereof an upper limit for the allocation of water either in aggregate or for any one permit where the allocation is shared among more than one household.

#### 48. Hydro Power

- (1) Every permit to develop an amount of power less than the full hydro power potential of the site may be subject to special conditions if the Authority considers that the full power development of the site at a later date may be required.
- (2) If an existing permit holder is unable, or unwilling, to enlarge the works to develop the full hydropower potential of the site, and it is considered by the Authority, following consultation with the regulatory agency responsible for matters relating to electricity generation, to be in the public interest to do so, the Authority may cancel the authorization or permit and authorize the works to be carried out by another person provided that the incoming operator shall pay compensation to the person whose permit has been cancelled.
- (3) For the purpose of ascertaining the hydropower potential under any authorization or permit, the Authority shall have access to reports, plans and records of the permit holder and may request for any other information or data it may require.
- (4) A permit issued for hydropower purpose, shall at all times be subject to any law affecting the construction and operation of works for the supply of power.

#### 49. Works associated with fish movement for protection and control of fish

- (1) Where, in the opinion of the Authority, after consultation with the government department responsible for fisheries it is necessary for the free movement of fish upstream or downstream of any dam or weir on any body of water, the Authority may require a person applying for a permit or a permit holder to provide at his or her cost in such dam or weir a fish pass, fish ladder or other structure, approved by the Authority, to enable fish to move freely up or down such a body of water:
- (2) Notwithstanding anything contained in these Regulations, the Authority may, on the application of any person, authorize the construction or erection in a body of water of—
  - (a) works of a temporary nature which are designed solely for the purpose of improving the conditions of fish life or the facilities for fishing, in such body of water provided such works will not have the effect of raising the normal level of the body of water more than one metre;
  - (b) fish ladders or other means of ingress and egress for fish provided such works do not cause any obstruction in the flow of such body of water.
- (3) An application under this regulation shall be on Form WRA 001 as set out in the Thirteenth Schedule and shall be submitted to the Authority together with the comments of the department responsible for fisheries.

#### 50. Water resources data

- (1) The Authority shall put in place and maintain measures, arrangements and systems for data gathering, analysis and management including data collection centres, rain gauging stations, laboratories and similar systems.
- (2) On the basis of information gathered by or submitted to it, the Authority shall maintain a surface water database from which data shall be accessible during normal office hours by any person on the payment of the prescribed fees listed in the Second Schedule.

#### Part V - GROUNDWATER

## 51. Authorisation of groundwater development

- (1) A person intending to abstract ground water shall apply for approval of the activity by Authority in Form WRA 001 set out in the Thirteenth Schedule.
- (2) Upon receipt of an application under sub regulation (1), the Authority shall determine the category of the activity in the manner specified in regulation 6.
- (3) Where the Authority determines that the application made under this regulation is for an activity that falls under a Category A water use activity and the method of abstraction does not include motorised pumping, the Authority shall determine the application in accordance with the procedure specified for determining Category A applications.
- (4) Where any borehole or well is to be equipped with a motorised pump, the application shall be accompanied by a Hydrogeological Survey Report prepared in the form set out in the Fourth Schedule.
- (5) Where the Authority determines that the application under this regulation is for an activity that falls under Categories B, C, or D water use activity, the application shall be determined in accordance with the procedure specified for approval of Categories B, C and D applications.
- (6) Before any well or borehole is replaced, deepened or widened, the owner of the well or borehole, or his duly authorised representative, shall file with the Authority an application for authorisation to carry out such replacement, deepening or widening of an existing well or borehole, for any water use category.
- (7) Where, in the course of drilling, the owner of a well or borehole encounters down hole problems, the owner shall drill a replacement borehole on a site not more than fifteen metres from the previously approved site.
- (8) Before any well or borehole encountering down hole problems is moved to a new site in accordance with sub regulation (7), the owner of the borehole or well, or his or her duly authorised representative, shall seek the approval of the Authority to move to the new site.
- (9) For purposes of sub regulation (7), "down hole problems" means the collapse, loss of tools, or other associated drilling problems excluding a dry borehole,
- (10) A person who contravenes this regulation commits an offence and is liable on conviction to the penalty prescribed in these Regulations.

#### 52. Regulation of groundwater development

(1) Where any borehole or well is being constructed within five hundred metres of an existing borehole or well, the Authority may by notice require the person constructing the borehole or well to undertake tests, specified in the notice, on the existing well and to supply to the Authority the particulars of the results of such tests including the rate of pumping and rest levels of water.

- (2) Without prejudice to sub regulation (1), the Authority shall determine in the allocation plan for a given aquifer or part thereof, the spacing of boreholes or well to be equipped with motorized pump and in doing so shall be guided by—
  - (a) existing borehole or well spacing;
  - (b) individual aquifer characteristics, including water quality;
  - (c) existing aquifer use;
  - (d) existing bodies of surface water; and
  - (e) any other relevant considerations.
- (3) The allocation plan shall be available and accessible to the public, during normal working hours, on the Authority's website and from any of the Authority offices.

## 53. Borehole and well test pumping

- (1) A borehole and well that is to be equipped with a motorised pump shall be subjected to test pumping.
- (2) Test pumping shall comprise a continuous and constant rate pumping test of not less than twenty-four hours duration and recovery duration of not less than twenty hours, or as otherwise stipulated by the Authority.

## 54. Supervision of works

A borehole and well that is to be equipped with a motorised pump shall be constructed under the supervision of a qualified and licensed water sector professional.

#### 55. Borehole or well completion record

- (1) On the completion of construction of the borehole or well specified in regulation 53, the applicant shall, within twenty-eight days of completion of works, submit to the Authority, a borehole or well completion record in WRA Form 008A or 008B respectively set out in the Thirteenth Schedule, together with the completion certificate.
- (2) A person who contravenes sub regulation (1) commits an offence and is liable on conviction to the prescribed penalties.

## 56. Issue of permit or approval

- (1) Approval to abstract groundwater under Category A for a well, shall be issued by the Authority following the procedure stipulated in regulation 7.
- (2) Where the Authority determines that verification on site is necessary, the Authority shall undertake the verification within twenty-eight days upon payment by the applicant of the prescribed site verification fees.
- (3) An approval to abstract groundwater from a borehole, in Category A, shall not be issued until the Authority has analysed the data provided in the Borehole Completion Record Form WRA 008A.
- (4) A permit to abstract groundwater from boreholes, or wells intended to be equipped with motorised pumps in Categories B, C, or D as defined in the First Schedule shall not be issued until after the Authority has analysed the data provided in the Borehole or Well Completion Record Form WRA 008A or 008B, respectively.

#### 57. Groundwater conservation

- (1) Every borehole owner shall ensure that a wellhead protection area within a radius of ten meters is reserved where any activity including land use activities, are likely to negatively impact groundwater resources.
- (2) Where in its assessment the Authority determines that a proposed borehole is within a radius of ten meters of any activity likely to negatively impact the quality of groundwater resources, it shall not issue an authorization or permit for the drilling of the borehole or well.
- (3) Within twelve months of the coming into effect of these Regulations, all borehole water abstractors shall ensure that—
  - (a) boreholes are fitted with dipper tubes;
  - (b) water is not abstracted without passing through a meter; and
  - (c) the water meter is periodically inspected to ensure that it is not defective.

#### 58. Artificial ground water recharge

- (1) No person shall undertake construction works for the purposes of conducting the artificial groundwater recharge of an aquifer, whether or not in a groundwater conservation area, unless such a person has been duly authorised by the Authority.
- (2) An application for authorization under sub regulation (1) shall be accompanied by a technical report and a Hydrogeological Assessment Report prepared in the form set out in the Fourth Schedule—
  - (a) defining the aquifer parameters and the water quality evolution after recharge;
  - (b) specifying the impacts on the recharged water,
  - (c) specifying the contents of the injection and the proposed geotechnical mechanisms with analysis on its positive and

negative impacts on groundwater resources.

- (3) Any person applying for the necessary authorisation under sub regulation (1), shall give such particulars relative to his or her
  - application as the Authority may require and such authorisation may, after consideration of the application be granted upon such conditions as the Authority may deem necessary or refuse the application.
- (4) A person who contravenes this regulation commits an offence and is liable on conviction to the prescribed penalties under the Act.

#### 59. Groundwater data

The Authority may, from time to time and in carrying out its responsibilities in respect to groundwater resources protection and regulation, require any person or entity, permit holder or operator, to provide the Authority with abstraction, water levels, water quality or any other specified information within a reasonable time or on a regular basis as it may specify including the requirement to observe protection measures as shall be prescribed by the Authority.

#### 60. Groundwater allocation Guidelines

(1) The Authority shall from time to time formulate groundwater allocation guidelines on the basis of which it will exercise its groundwater allocation functions under this Part.

- (2) The groundwater allocation guidelines shall be accessible on the Authority's website and during normal office hours to any person.
- (3) The Authority may, on the payment of the prescribed fees listed in the Second Schedule, provide an extract of data from its records to any person.

## Part VI - WATER QUALITY MONITORING AND WASTE DISPOSAL

## 61. Control of water pollution

- (1) No person shall discharge or apply any poisonous, toxic, noxious or obstructing matter, radioactive waste or other pollutants or permit any person to dump or discharge such matter into a water resource unless the discharge of such poisonous, toxic, noxious or obstructing matter, radioactive waste or pollutant is authorised by the Authority and treated to permissible standards.
- (2) A person intending to discharge waste, effluent or other pollutant into a water resource shall apply to the Authority for waste disposal permit.
- (3) The category of waste disposal permit shall be determined on the basis of the effluent discharge load, the concentration of pollutants, the capacity of the receiving water body and the applicable resource quality objectives.
- (4) A person who discharges waste, effluents or other pollutants into a water resource at the commencement of these Regulations without a waste disposal permit issued by the Authority shall apply for a waste disposal permit within six months of the commencement of these Regulations.
- (5) The right of a permit holder to discharge waste shall be exercised in accordance with the conditions in the waste disposal permit and shall be limited to the quantity and quality of pollutants stipulated in the permit.
- (6) A waste disposal permit shall be subject the payment of the water user charges specified in the Second Schedule.
- (7) Any person who contravenes this regulation commits an offence and is liable on conviction to the penalties prescribed in the Act.

#### 62. Waste disposal control plan

- (1) A person in charge of an undertaking or establishment shall formulate and put in place and implement a waste disposal control plan approved by the Authority to prevent and or control the discharge into a water resource of waste, effluent or other pollutants from run-off or point and non-point sources in, on or adjoining the establishment or undertaking.
- (2) A waste disposal control plan shall be prepared by a licensed and registered water sector professional and be substantially in the form stipulated in the Fourth Schedule.
- (3) Any person who contravenes this regulation commits an offence and is liable on conviction to the penalties prescribed in the Act.

#### 63. Water quality requirements

In determining the water quality standards for a waste disposal permit, the Authority shall be guided by the following criteria—

- (a) the capacity of the receiving water resource to assimilate the effluent without violating the water resource quality objectives for that water resource;
- (b) the toxicity and persistence of the pollutant; and
- (c) any other criteria as determined from time to time by the Authority.

## 64. Liquid Waste Disposal Records

- A person who disposes liquid waste shall maintain monthly records of the liquid waste discharged in terms of quantity and quality in accordance with the Waste Disposal Control Plan approved by the Authority.
- (2) The waste disposal records shall be submitted to the Authority and verified by the Authority on a quarterly basis.
- (3) The waste disposal records shall be maintained and shall be available for inspection by the Authority.
- (4) Any person who falsifies information about the waste disposed into a water resource, in the records submitted to the Authority commits an offence and is liable, on conviction, to the penalties specified in the Act.
- (5) The falsification of information in the waste disposed into a water resource may be used by the Authority as a basis for the cancellation of the waste disposal permit.

## 65. Consideration of category waste disposal applications

- (1) The Authority shall consider an application for a waste disposal permit falling into Category A using the specified procedure for consideration of Category A applications.
- (2) The Authority shall process Category B, C and D applications for waste disposal permits using the procedures provided for consideration of applications for category B, C and D.
- (3) Where the Authority is satisfied that the waste discharge to a water resource meets the limits stipulated by the Authority, the Authority may issue an authorisation and append the necessary conditions including volume and waste discharge requirements.

#### 66. Issuance of waste disposal permits

- (1) Upon inspection and approval of the authorised waste discharge works, the Authority shall issue a waste disposal permit and shall append the necessary conditions including limits to and monitoring frequency for volume and quality of effluent discharge.
- (2) A water service provider shall provide effluent quality and quantity data to the Authority on a quarterly basis for the facilities supplied with water including those connected and discharging into a sewer line.

#### 67. Spillage

- (1) No person shall wilfully and deliberately allow any substance to spill out into any water resource or onto land where such spillage may contaminate a body of surface or groundwater.
- (2) In the event of accidental spillage where such spillage may contaminate a body of surface or groundwater, the person in charge of the spilt substance shall immediately, and in any case within twenty- four hours, inform the Authority of the accident, urgently take measures to prevent spread of the spillage and take remedial measures as may be required by the Authority to mitigate against likely adverse effects to water resources.
- (3) The Authority shall upon receiving information of a spillage, take measures to notify the public of the spillage and cause appropriate action to be taken to address likely adverse effects of the spillage on water resources.
- (4) The costs incurred by the Authority in regard to notifying the public and addressing the spillage shall be recovered from the person in charge of the spilt substance as a debt.

- (5) Any owner of a spilt substance who fails to inform the Authority immediately after spillage or fails to take immediate action to prevent spread of the spillage and its likely adverse effects to water resources commits an offence and is liable on conviction to the penalty specified under these Regulations or the Act.
- (6) The Authority shall undertake periodic assessment of pollution impacts to various water resources and as necessary issue precautionary public notices in line with the precautionary principles.
- (7) The Authority may require, in a format prescribed by the Authority, information and reports of the annual state of any infrastructure that may cause spillage or compromise a water resource.

## 68. Water quality monitoring

- (1) The Authority may inspect any premises and sample any sources of water pollution for water quality monitoring without the need to give prior notice of the inspection.
- (2) A person, who obstructs, constrains or prevents an inspector who has identified himself or herself from undertaking a pollution control inspection commits an offence and is liable, on conviction to the prescribed penalties under these Regulations.

## 69. Water quality, liquid waste disposal and effluent discharge data

- (1) The Authority shall maintain a water quality database that will include effluent discharge data.
- (2) The Authority's shall maintain data on it's website and at the Authority's offices during normal office hours and any person may obtain a copy of such data from the Authority on the payment of the fees specified in the Second Schedule.

## 70. Water quality sample procedure

- (1) In the event that an inspector intends to take a water quality sample for purposes of prosecution, the procedure stipulated in the Eleventh Schedule shall apply.
- (2) The Authority may, notwithstanding the procedures prescribed in the Eleventh Schedule, install automatic water quality monitoring and sampling equipment for any purpose.

## 71. Pollution control enforcement

The Authority may, with good cause, order any person or entity being the landholder or occupier or having charge over a piece of land to put in place adequate measures for the safe disposal of solid or other wastes including agricultural chemicals present on the land which may present a risk to the water resource quality.

## Part VII - WORKS

## 73. Inspection of works prior to, during and post construction

The Authority may undertake an inspection or series of inspections of the site associated with a proposed, ongoing, existing or abandoned water works.

## 74. Temporary works

- (1) Where it is necessary for purposes of a construction activity to divert, abstract, impound, obstruct, store or use water temporarily, an application shall be made to the Authority for a permit for temporary waterworks.
- (2) A permit for temporary waterworks shall authorise the diversion, abstraction, impoundment, obstruction, storage or use of water temporarily to such extent only as may be necessary for such

- construction, and at such times and in such manner as to interfere as little as possible with the works of other operators and cause as little damage as possible to property.
- (3) The holder of a temporary waterworks permit shall be liable for any interference or damage resulting from the temporary works.
- (4) All temporary works shall be removed by the temporary works permit holder within a period of three months, or such other period as the Authority may specify, from the date of completion of the works which made it necessary to acquire the temporary waterworks permit or from the date of expiry of the authorization, whichever is earlier:
  - Provided that any quarries, burrow-pits, excavations, cuttings, tunnels or other temporary works which cannot be economically rehabilitated or removed shall instead be rendered safe in the interest of the health and safety of person and property by fencing or such other measure as the Authority may consider necessary.
- (5) In the event that any temporary works are not removed, rehabilitated or rendered safe within the prescribed period, the Authority shall issue an order for the removal, rehabilitation or rendering safe of the works.
- (6) A person who fails to comply with an order issued by the Authority under this regulation commits an offence and is liable on conviction to the penalties prescribed in these Regulations or the Act.

#### 75. Abandoned Works

- (1) Despite, the abandonment or cancellation of an authorization or permit or any part thereof, the owner or permit holder, is liable for any damage resulting from any works constructed, operated or maintained by the permit holder, or for any defect or insufficiency in the works.
- (2) The Authority may, within six months of the cancellation or expiry of an authorization or permit, serve upon the permit holder or former permit holder whose authorization or permit has been cancelled or expired, an order for the disposal of all or any portion of the works previously used under the authorization or permit.
- (3) A person who fails to comply with the order on abandoned works commits an offence.

## Part VIII – CONDITIONS OF AUTHORISATION, PERMITS AND APPROVED WATER USES

#### 76. Compliance with the Environmental Management and Coordination Act

The Authority shall require an applicant as a condition to the grant of a water resource use permit to—

- (a) provide evidence of compliance with the provisions of the Environmental Management and Coordination Act (No. 8 of 1999) regarding integrated environmental assessments, and any other provisions as the Authority may deem necessary; and
- (b) if not already a member, join and maintain membership of a water resource users association.

## 77. Inspection

- (1) The Authority may place on any authorisation or permit, a schedule of inspection by an inspector which may be at specified intervals or at the completion of specified milestones during the construction of any works.
- (2) Any person who undertakes any activity that damages or hinders the proper functioning of the water resource monitoring network shall be given the opportunity of meeting the cost of repair, within a period of time determined by the Authority.

(3) Any person under sub regulation (2) who fails to make good the damage or cover the costs of repair, commits an offence and is liable on conviction to the penalties prescribed under these Regulations and the Act.

## 78. Controlling and measuring devices

- (1) Within two years of the coming into effect of these Regulations, every Category B, C or D water user, whether for water abstraction or effluent discharge, shall install an automated measuring meter or smart meter for the accurate measurement of water abstracted, obstructed or diverted and the effluent discharged.
- (2) A Category B, C or D water user shall inspect, or cause to be inspected, at such intervals as may be necessary, any automated measuring meter or "smart" meter prescribed in the permit in order to ensure that the quantity of water abstracted, diverted or stored, or effluent discharged is accurately measured.
- (3) A permit holder shall ensure that every adjustable device or controlling device, including any sluice gate, valve or other works, where such device or work is used to control the quantity of water diverted, abstracted or stored, or effluent discharged, has a means of locking it sufficiently to prevent any unauthorized person from interfering with such adjustable device or controlling device.
- (4) The keys of such locking device or works shall be immediately availed to an officer of the Authority when required provided that the locking device may be designed in such way that two people shall be required to operate it during opening and locking.
- (5) Any measuring device used for the purpose of measuring abstraction or effluent discharge shall be calibrated and such calibration results shall be made available to the Authority upon request.
- (6) The calibration of the flow measuring device may be verified by the Authority or an agent of the Authority.
- (7) In case of doubt over the accuracy of a flow measuring device the Authority may require the accuracy of the device to be verified and where required, the device shall be recalibrated at the cost of the permit holder.
- (8) A measuring device shall be automated and be in the form of a calibrated meter for piped or pumped systems and a calibrated weir or flume for open channel abstraction or discharge systems, or other appropriate device approved by the Authority.
- (9) The controlling device shall be located at the point where the water is abstracted or diverted or the liquid waste discharged or at a point approved by the Authority while a measuring device shall be located at a point approved by the Authority.
- (10) Where a water user fails or neglects to comply with any order given under this regulation, the Authority may take such steps as it may consider necessary to execute the order, and any expenses incurred in taking such steps shall be recoverable as a civil debt from the water user or person upon whom such order is made.
- (11) The automated meters and measuring devices installed under these Regulations shall be sealed by the Authority with an approved seal bearing the Authority's distinguishing brand or mark impressed thereon.
- (12) Where any seal affixed is broken without the approval of the Authority, the water user upon whose premises the seal was placed commits an offence and is liable on conviction to the penalties prescribed under the Act:
  - Provided that, where it can be proved that the offence was committed by some person other than the water user, that person shall be punishable as if he were the water user upon whose premises the breach occurred.

## 79. Limitation of flow or quantity

- (1) Notwithstanding the quantity of water granted by the permit, a permit holder shall not abstract or divert more water from a body or bodies of water than can, for the time being, be beneficially used by him or her in accordance with the terms of his or her permit.
- (2) Having due regard to the priority of the purpose for which the water is granted, a permit holder shall, on being so directed by the Authority—
  - (a) abstract, impound, or divert the quantity of water which may be necessary for his or her purpose at such times and in accordance with a schedule of abstraction that encompasses all other permit holders using the same body of water, or other body of water, as may, in the opinion of the Authority, secure the most equitable use of water; and
  - (b) discharge the quantity of water in accordance with a schedule of releases that encompasses all other permit holders using the same body of water, or other body of water, as may, in the opinion of the Authority, secure the most equitable use of water.

## 80. Collection and submission of abstraction, water quality and effluent discharge data

- (1) Each Category B, C or D permit holder is required to maintain a record of the daily abstraction or effluent discharge, in cubic metres per day, made by him or her.
- (2) The record shall state the permit number, date and volume of abstraction or discharge.
- (3) The records for abstraction or discharge for the preceding twenty-four months shall be available for inspection by the Authority.
- (4) The Authority may require an applicant for water use, or applicant for permit renewal to take water quality samples and cause the samples to be analysed at the permit holder's cost in a water quality laboratory approved by the Authority.
- (5) Where the water analysis results show that the water is not fit for human consumption, the water use permit shall be conditional on the requirement that appropriate treatment is undertaken and evidence provided to the Authority before the water may be used for human consumption.

#### 81. Airline

- (1) Every permit holder, shall install an airline in his or her boreholes, such that the measurement of water levels is possible by the Authority or any authorised person.
- (2) A permit holder who fails to install an airline commits an offence and is liable on conviction to the penalties prescribed under the Act and these Regulations.

## 82. Water resources inspector

- (1) The Authority may, in writing, authorize any person employed in the public service, or any servant, agent or contractor of such person, to perform any of the powers, duties or obligations vested in it by these Regulations.
- (2) The following persons shall perform the duties and have the powers of a water resources inspector \_\_\_\_
  - (a) any person appointed to a post that is equal to or more senior than that of a water resources officer or water rights officer in the Authority;
  - (b) persons other than officers of the Authority, appointed by the Authority by notice in the *Gazette*, as water resources inspectors, which persons may receive such payment in respect of their services as the Authority may determine;

(3) Every person appointed to perform the duties of a water resources inspector shall carry a document of identification and shall produce the document when required in the performance of his or her duties.

#### 83. Water resources data

- (1) The Authority shall, on the basis of data gathered by or submitted to it maintain a database for purposes of water resource management.
- (2) The database shall contain data on climate, surface water, groundwater, water quality, catchment conditions, abstractions, permits, water use and any other data relevant to the management of the water resources.
- (3) Any person requiring water resource data from the Authority shall apply for such data in writing and pay for the data according to the fees prescribed in the Second Schedule, except where the Authority is satisfied that the data is to be used for research or non-commercial purposes.
- (4) In responding to a request for data the Authority shall be guided by Article 35 of the Constitution of Kenya.
- (5) A person who sells any data obtained from the Authority or transfers such data to a third party commits an offence.
- (6) The Authority shall not be held liable for any errors or omissions in its data.
- (7) A person who uses the citation for a publication that derives data from the Authority shall submit to the Authority such citation with a brief summary of the publication within thirty days of the date of publication.

#### 84. Register of water bodies

- (1) To the extent practicable, the Authority shall maintain a register and map of all water bodies which shall contain the official name and class (if any) of each water body.
- (2) The official name of the Register shall be determined by the Authority after consultation with other government departments and other stakeholders.

## Part IX - WATER USE CHARGES

## 85. Water use charges

- (1) A person in possession of a valid water use permit or who is required to have a valid permit for water use, shall pay to the Authority water use charges on the basis of the water abstracted, diverted, obstructed or used including energy derived from a water resource at the appropriate rate as set out in the Second Schedule.
- (2) A person in possession of a valid water use permit or who is required to have a valid permit for water use shall pay in addition to the water use charge, a levy amounting to 5 percent of the monthly water use charge as a water conservation levy.
- (3) Water use charges payable to the Authority under sub regulation (1) shall be used by the Authority to meet the costs of discharging the regulatory functions pursuant to section 12 of the Act together with reasonable overhead and incidental costs incurred in exercising its mandate.
- (4) The monies collected by the Authority as a water conservation levy shall be segregated from the water use charges and reported on separately and, on the basis of agreements entered into between the Authority and county government entities and water resource users associations used to finance part of the costs of the implementation by water resources associations and county government entities of catchment or sub-catchment soil and water conservation plans.

- (5) Payment of water use charges and conservation levies shall be made to the Authority by the 15th day of every month for water used in the preceding calendar month.
- (6) With the approval of the Authority, payment of the water use charge and conservation levies may be remitted to the Authority in instalments exceeding monthly instalments.

## 86. Annual adjustment of water use charges

The Authority shall adjust the water use charges annually in order to give effect to indexation by reference to the officially published annual inflation index.

#### 87. Review of water use charges

The Authority may at any time, following public consultation, review and gazette new water use charges on the basis of—

- (a) a significant increase in the cost of regulating the water resources;
- (b) the desire that water use charges facilitate water resources demand management; and
- (c) any other criterion that the Authority may consider appropriate.

## 88. Automated measuring device

- (1) A permit holder or any person who is required to have a valid permit shall ensure that there is an automated measuring device for the assessment of the quantity of water used with respect to each permit.
- (2) The permit holder shall take readings from the measuring device and submit the readings to the Authority in the Form WRA 014 set out in the Thirteenth Schedule.
- (3) In the event that the permit holder does not submit readings of the quantity of water used, the Authority shall take readings of the quantity of water used provided that if the Authority reasonably believes that the meter readings are inaccurate, the Authority shall make a fair estimate of the quantity of water used.
- (4) In making the assessment, the Authority shall be guided by the allocation in the permit and by observations and evidence of water use activities.
- (5) In the event that the assessed quantity of water used, as determined by the Authority, is 25 percent more or less than the permitted allocation, taking into account seasonal variations, the Authority may re-evaluate and vary the permitted allocation.
- (6) Where the permit holder and the Authority cannot agree on the assessment of the quantity of water used, then the opinion of the Authority shall prevail and the permit holder shall pay the amount assessed by the Authority.
- (7) The permit holder may lodge a complaint under these Regulations notwithstanding having made the payment under sub regulation (6).
- (8) Without prejudice to the provisions of sub regulation (6), the Authority shall be at liberty to adopt alternative methods in assessment of water use charges including reference to crop production, resources extracted and similar methods.

#### 89. Time limitation on arrears

(1) Where the Authority discovers that a permit holder, or a person who is required to have a water permit, has not paid water use charges, the Authority may charge arrears.

(2) Where the Authority discovers that a permit holder has tampered with or has caused such meter to be tampered with and underdeclared his or her water use, the Authority shall be entitled to charge for the under declared water use in arrears.

## 90. Groundwater conservation charge

An additional 10 percent shall be added to the water use charges payable for any water use within a groundwater conservation area or protected area gazetted under the Act to cover for the cost of enhanced regulation required in such areas.

#### 91. Penalty for over - abstraction

In the event that the water abstracted exceeds the permitted amounts by over 5 percent, the excess shall be charged at a penalty rate of ten shillings per cubic metre.

## 92. Waiver of premium payable

- (1) A water user in possession of a valid permit who has installed and used water from its own flood water storage facilities shall be entitled to a waiver of the premium payable under applicable Regulations on use of water from a regulated watercourse.
- (2) The waiver shall only apply in the case of storage that equals or exceeds ninety days water demand otherwise the premium payable shall be calculated on a pro rata basis.

#### 93. Penalty for failure to use automated measuring device

If the assessment of the water used is not based on continuous measurement by means of an automated and appropriately sealed flow measuring device, a penalty of 10 per cent shall be charged on the full amount of water used.

## 94. Revenue collection agents

The Authority may appoint revenue collection agents and shall pay for the cost of the services rendered.

#### 95. Modes of payment

Water use charges shall be paid directly to the Authority or where applicable to a revenue collection agent.

#### 96. Interest for late payment

Late payment of water use charges shall attract a simple interest charge of 2 percent per month until the whole amount is paid in full.

#### 97. Failure to pay water use charges

- (1) Failure to pay the appropriate water use charges is a breach of the conditions of a permit and may be a basis for the revocation or suspension of the permit.
- (2) The Authority may within fourteen days, following notice given to the permit holder, suspend, initiate the cancellation process or vary in whole or in part the permit if the permit holder fails to pay in full the water use charges for any one payment period for a period of four months after the due date.
- (3) Any permit holder whose permit has been suspended, cancelled or varied due to non-payment may not apply for a lifting of the suspension or a new permit or amendment until the outstanding amount and any associated cost is paid in full.

- (4) Any application for a new permit or amendment of an existing permit shall not be considered if the permit holder has arrears.
- (5) A person who reconnects abstraction facilities without permission from the Authority, after the Authority disconnects or dismantles an intake or abstraction equipment or facility, due to non-payment of water use charges, commits an offence.

#### Part X – WATER RESOURCE USERS ASSOCIATIONS

#### 98. Registration and Operation of associations

- (1) A water resource user association shall register with the Authority by submitting Form WRA 017 in the Thirteenth Schedule.
- (2) For a water resource users association to qualify for registration by the Authority, it shall—
  - (a) be registered under the Societies Act (Cap. 108) as an Association:
    - Provided that prior to the registration, the association shall seek a letter of no objection from the Authority;
  - (b) have a constitution conducive to collaborative management of the water resources of a particular sub-catchment and which promotes public participation, conflict mitigation and resolution, gender main-streaming and environmental sustainability;
  - (c) have a delineated boundary map of its coverage area;
  - (d) submit minutes of the meeting of elections of its officials and a list of members.
- (3) The Authority shall respond in writing within thirty days of the receipt of the application for registration of a water resource users' association.
- (4) If after thirty days there are no objections or if any objections received have been satisfactorily addressed, the Authority shall issue the association with a certificate of registration in Form WRA 018 set out in the Thirteenth Schedule and enter its name in the Register of water resource users associations.
- (5) A Water resource user association's operations shall be guided by the following—
  - (a) it's Plans shall be facilitated by the Authority and any review sanctioned by the Authority;
  - it shall receive and utilize funds with approval from the Authority in related water resource management activities;
  - (c) it must adhere to its Constitution and shall not develop by laws that contradict the Constitution;
  - (d) it shall submit an annual report to the Authority and as when required;
  - (e) it shall make annual returns to the Registrar General and share the same information with the Authority; and
  - (f) it shall not engage in any political activity.
- (6) Without prejudice to sub regulation (5), the Authority shall develop standards, guidelines and manuals of water resource users associations that shall contain the following—
  - (a) training manuals for association;
  - (b) association's institutional framework;
  - (c) operations guidelines;
  - (d) financing framework;

- (e) reporting guidelines; and
- (f) guidelines on preparation of Sub Catchment Management Plans.
- (7) For a water resource users association to qualify to enter into a tripartite water resource management Memorandum of Understanding with the Authority and the respective county government, it shall—
  - (a) be registered under the Societies Act;
  - (b) have a constitution that promotes collaborative management of a water resource or resources, active membership open to all water users in the area and public participation, conflict mitigation and resolution, gender main-streaming and environmental sustainability;
  - (c) have a sub-catchment management plan developed in line with the basin area water resources management strategy in accordance with section 29 (3) of the Act;
  - (d) have a functioning and duly functioning management committee;
  - (e) have requisite technical, administrative and organizational capacity to perform the functions specified in the Memorandum of Understanding; and
  - (f) have a record of compliance with financial procedures and obligations, including the remittance of statutory deductions, income tax and other applicable taxes.
- (8) Where a water resource users' association traverses more than one County, the Memorandum of Understanding shall be between the Authority, the water resource users associations and all the counties traversed by the water resource users associations.
- (9) The conditions for entering into the Memorandum of Understanding shall be as provided under the requirements in sub regulation (7).
- (10) The Authority, county government and the water resource users associations shall before entering into a water resource management Memorandum of Understanding
  - (a) identify the sub-basin and water resource proposed to be subject of the agreement including on a map; and
  - (b) assess and agree on a proposed mechanism for collaborative management of the water resource.
- (11) The Authority shall maintain a Register of water resource users associations in the Form R001 set out in the Thirteenth Schedule.
- (12) The Authority shall publish on its website annually, details of—
  - (a) registered water resource users associations;
  - (b) water resource users associations under suspension;
  - (c) deregistered water resource users associations.
- (13) A person may make a written application to the Authority for certified copies of the information in sub regulation (12) upon payment of the prescribed costs.
- (14) Whenever the particular details of the water resource users' associations change in Form WRA 017 in the Thirteenth Schedule should be re-submitted to the Authority.
- (15) The Memorandum of Understanding shall identify modalities for administrative technical or financial support to the water resource users associations by the Authority and county government in respect of activities related to collaborative water resource management.
- (16) Without prejudice to financial support mechanisms referred to in sub regulation (12), the Authority shall equitably allocate financing to water resource users associations for conservation and management of water resources.

- (17) The Authority may with good cause suspend a water resource user association from its register of water resource users associations in the following circumstances—
  - (a) if the association fails to adhere to its own Constitution;
  - (b) if the association becomes deregistered under the Societies Act;
  - (c) if the association breaches any conditions under these Regulations or fails to honour the tripartite Memorandum of Understanding with the Authority and the county government; or
  - (d) any other justifiable cause which in the view of the Authority undermines the objectives of association.
- (18) Where the Authority intends to remove a water resource users associations from its Register of water resource users associations, it shall give the water resource user association thirty days' notice in writing to show cause why it should not be suspended and during this period, the associations shall be suspended.
- (19) During the period a water resource user association is suspended, it shall not be engaged in any activities related to any Memorandum of Understanding entered into with the Authority and county government, without the approval of the Authority.
- (20) The Authority may lift the suspension upon being satisfied that the water resource users' association has taken corrective measures on the issues that led to the suspension.
- (21) Failure to take corrective measures, within a specified time, the Authority shall remove the water resource user association from its register and the association shall cease to be engaged in any water resource management activity covered under any Memorandum entered into with the Authority and county government.
- (22) The registration of a water resource user association with the Authority does not confer any legal standing on the association, but serves only to affirm the entity considered by the Authority to be a water resource users associations for a particular water resource.
- (23) The officials of any water resource user association under suspension that violates the conditions of the suspension, or of any water resource user association that has been removed from the register that engages in water resources management activities covered in the Memorandum of Understanding entered into with the Authority commits an offence.

#### Part XI – BASIN WATER RESOURCES COMMITTEES

#### 99. Consideration of Category B, C and D applications

- (1) Following the establishment of the basin water resources committees, all Category C and D water use applications shall be submitted by the regional office of the Authority for consideration and advice before the Authority makes a decision on the application.
- (2) The Authority shall take into account the advice of the basin water resources committee in making its decision and where the decision differs from the advice in any material particulars the Authority shall before implementing provide to the members of the committee the reasons for departing from the advice of the committee.
- (3) Where an applicant for a water use permit appeals against the decision of the Authority the reasons for the decision of the Authority, the advice of the basin water resources committee and the explanation provided to the committee for departing from its advice will be disclosed to the Tribunal and to the appellant.

#### 100. Quorum of basin water resource committee

- (1) Notwithstanding the First Schedule of the Act, provisions of Basin Area Management Strategies developed under section 28 of the Act in respect to soil and water conservation for implementation by County Governments or the operations of a water resources users association in implementing sub-catchment management plans in the sub-basin is to be discussed, the committee shall only be quorate if at least one-third of the county governments participate in the meeting at which that item is to be discussed.
- (2) Sub regulation (1) shall not limit or in any way constrain the basin water resources committee in discussing and determining an application for a water use permit or its cancellation or suspension or the recommendation for the taking of other enforcement action by the Authority against a permit holder.

## 101. Regional offices

- (1) The regional office of the Authority shall facilitate the work and activities of the committee through the provision of technical, administrative, financial, logistical and other support.
- (2) The regional officer of the Authority in charge of the basin area shall provide secretariat services to the basin water resources committee.
- (3) The Authority shall make requests in accordance with the provisions of the Public Finance Management Act, 2012 for budgetary allocation to be utilized for the payment of salaries, allowances and other expenses of the basin water resources committees as determined under section 26 (7) of the Act.

#### 102. Publication of committee report

- (1) A basin water resources committee shall publish each year, a report of its activities for the government financial year.
- (2) A copy of the report shall be submitted by the Authority to each county government within the area of the basin and where appropriate the Authority shall convene a meeting of the county governments in the basin to discuss the report and identify priorities for action in the following year.

#### Part XII - PROTECTED AREAS AND GROUNDWATER CONSERVATION AREAS

#### 104. Identification of protected or designated groundwater conservation areas

- (1) Pursuant to sections 22 and 23 of the Act, the Authority may identify a catchment area, part of a catchment area or water resource to be identified as areas to be protected or designated as groundwater conservation areas if the Authority is satisfied that doing so is necessary for the protection of the water resource and its multiple uses.
- (2) In identifying a protected area or groundwater conservation area, the Authority shall be guided by the criteria shown in the Seventh Schedule and any other relevant considerations.
- (3) The Authority shall in conjunction with relevant institutions and stakeholders, describe the boundaries of the proposed protected area or ground water conservation area for gazettement.

#### 105. Management Regulations

The Authority shall, in conjunction with relevant institutions and stakeholders, establish
management regulations or plans that shall apply to each protected area or groundwater
conservation area.

- (2) The management regulations or plans shall contain the items listed in the Seventh Schedule.
- (3) A person who fails to comply with the gazetted management regulations or plans commits an offence.

#### 106. Public Consultation

The Authority shall undertake public consultation with respect to the establishment of areas to be protected or designated as groundwater conservation areas and the management regulations or plans that shall apply with respect to these areas.

#### Part XIII - THE RESERVE

#### 107. Composition of the Reserve

The Reserve in all instances shall comprise of one element related to the quantity of the resource and the respective probability associated with that quantity and a second element related to the quality of the resource.

#### 108. Reserve Quantity

- In all instances where water resource records are available, the Authority shall establish the Reserve.
- (2) The Reserve Quantity for—
  - (a) streams and rivers, shall not be less than the flow value that is exceeded ninety-five per cent of the time as measured by a naturalised flow duration curve at any point along the water course;
  - (b) lakes and naturally occurring stagnant waters, shall not be less than the water volume that is exceeded ninety-five per cent of the time as measured by a naturalised volume duration curve or, failing bathymetric data, a naturalised level duration curve;
  - (c) aquifers shall be the Annual Potential Recharge minus the Groundwater Potential as determined by the Authority; and
  - (d) aquifers whose recharge rate has not been determined by the Authority, for each point of abstraction shall be seventy-five per cent of the tested yield expressed in cubic metres per day as determined by test pumping analysis.
- (3) In all instances where water resource records are not available or where there are significant ambiguities, the Authority shall establish the Reserve and shall be guided by—
  - (a) ecological vulnerability;
  - (b) vulnerability of local populations dependant on that water resource;
  - (c) local observations with respect to the naturalised flows or water levels of minimum values observed during periods of prolonged droughts;
  - (d) in all instances where water flow is known to be normally perennial, then the Reserve Quantity shall be sufficient to ensure perennial flow;
  - (e) consultations with the water resources users associations if such exist.

#### 109. Information on and protection of the Reserve Quantity

(1) The Authority shall make the Reserve information on water resources accessible to the public.

- (2) Any person may make a verbal or written report or complaint to any office of the Authority within the relevant catchment or to the Chief Executive Officer if—
  - (a) he or she is unable to obtain sufficient water from the water resource for basic human needs as a result of the Reserve being violated;
  - (b) as a result of his or her observations, she or he considers that the ecology is threatened as a result of the Reserve being violated.
- (3) Each complaint or report registered with the Authority in regard to a violation of the reserve quantity or quality, shall be given a Complaint Number by the Authority which shall be used for purposes of monitoring the response to the complaint or report.
- (4) In any instance where a complaint or report has been registered with the Authority in regard to a violation of the Reserve Quantity or Quality, the Authority shall take measures within fortyeight hours to respond to the complaint or report including activities listed in the Eighth Schedule.
- (5) Within thirty days after each report of a Reserve violation, the Authority shall prepare a report detailing the nature of the reserve violation and the measures taken to restore the Reserve.
- (6) If the Authority considers that the Reserve Quantity or Quality is threatened, it shall cause to be placed in or near the water resource or in a public place frequented by the water users of a particular resource a legible signboard displaying the current condition of the resource and action required by the water users to safeguard the Reserve.

#### Part XIV - REGISTRATION OF WATER SECTOR PROFESSIONALS

#### 110. Categories of qualified water sector professionals

The categories of qualified water sector professionals shall be as shown in the Ninth Schedule.

#### 111. Licensing of qualified water sector professional or qualified

- (1) No person or entity shall carry out the work of a qualified water sector professional or qualified contractor under these Regulations unless that person has been licensed as a water sector professional by the Cabinet Secretary.
- (2) The Cabinet Secretary shall constitute and maintain a Technical Advisory Committee at all times to advise him on the registration, and all other matters regarding the conduct, of qualified water sector professionals and qualified contractors under these Regulations.
- (3) The Technical Advisory Committee shall comprise of not more than eight members excluding the Chairperson all of whom shall be appointed by the Cabinet Secretary.
- (4) Membership to the Technical Advisory Committee shall comprise of a representative from the Authority, Water Services Regulatory Board, National Water Harvesting and Storage Authority, representatives of regulatory bodies of relevant professions and representatives of professional associations.
- (5) The Cabinet Secretary shall develop administrative guidelines to govern the conduct of business of the Technical Advisory Committee and such guidelines may be revised from time to time as need arises.
- (6) No final decision on the application for licensing or conduct of a qualified contractor or qualified water sector professional under these Regulations shall be made except on the basis of a recommendation of the Technical Advisory Committee.
- (7) A final decision on the application for a licence or conduct of a qualified contractor or qualified water sector professional under these Regulations shall be communicated to the concerned party within fourteen days from the date of the decision.

(8) Any qualified contractor or qualified water sector professional aggrieved by the final decision of the Cabinet Secretary may appeal to the Water Tribunal.

#### 112. Qualification for application for licence

The following persons shall be entitled to apply for a qualified water sector professional licence—

- (a) a person who has graduated with a degree from any recognized university and who has had at least five years practical experience in a profession or discipline relevant to the management water resources or provision of water and sewerage services; and
- (b) a person who is registered member of the respective professional body where the relevant profession is governed by a professional body.

#### 113. Professionals holding non-Kenyan qualifications.

- (1) The Cabinet Secretary, may register and issue a licence to a professional holding non-Kenyan qualifications to practice as a qualified water sector professional or qualified contractor for the purpose of any specified task or in regard to a task which the person so applying for registration and licencing has been engaged to undertake under a contract with an entity established or operating under the laws of Kenya.
- (2) Every water sector professional or foreign contractor licenced under sub regulation (1) during and for the purposes of completing a task shall be deemed to be a qualified water sector professional or qualified contractor.
- (3) No water sector professional or contractor holding non- Kenyan qualifications shall be entitled to carry out works until he has been licenced by the Cabinet Secretary and has paid the prescribed fee.
- (4) Where a complaint is made in respect of a water sector professional or contractor holding non-Kenyan qualifications, the Cabinet Secretary may immediately suspend the licence of such water sector professional or contractor from performing any tasks in Kenya pending the making of a final determination.

#### 114. Application for a licence

Any individual who provides or is proposing to provide professional services related to water resources or the provision of water or sewerage services shall apply for a licence as a qualified water sector professional under the appropriate area of specialisation to the Cabinet Secretary in Form WRP 001 as prescribed in the Thirteenth Schedule.

#### 115. Professional interview

The Cabinet Secretary, after receiving an application for a qualified water sector professional licence, may require the attendance of the applicant before the Technical Advisory Committee, and the Committee may examine or question him or her on any matter relevant to the application.

#### 116. Qualified water sector professional licence

- (1) If, on the basis of the recommendations of the Technical Advisory Committee, the Cabinet Secretary is satisfied that the applicant is qualified to be licensed, the Cabinet Secretary shall issue a licence in Form WRP 002 in the Thirteenth Schedule for such period and on such conditions, as it may deem desirable.
- (2) A qualified water sector professional is required to pay an annual licence fee as set out in the Second Schedule.
- (3) Payments of the licence fees shall be made to the Cabinet Secretary no later than the end of the third month each year.

- (4) Failure to renew the licence fee is a breach of the conditions of the licence and shall result in the licence being suspended in which case the person may not practise as a qualified water sector professional.
- (5) A suspended licence may be reinstated after payment of all outstanding fees.
- (6) Failure to renew the licence for a consecutive period of three years shall result in the licence being revoked.

#### 117. Codes of Practice for qualified water sector professionals

- (1) The Cabinet Secretary shall in consultation with the relevant professional bodies develop and publish Codes of Practice to regulate the various professions.
- (2) All qualified water sector professionals shall comply with the applicable Codes of Practice.

#### 118. Register of qualified water sector professionals

- (1) The Cabinet Secretary shall keep a Register in accordance with the Thirteenth Schedule of all qualified water sector professional licences issued under these Regulations providing for different classes of approved water sector professionals.
- (2) The Cabinet Secretary shall, once in every year and not later than the 30th April, publish in the Gazette a list containing—
  - (a) the names and addresses of all licensed qualified water sector professionals; and
  - (b) the names and addresses of qualified water sector professionals deleted from the Register.
- (3) A qualified water sector professional shall inform the Cabinet Secretary in writing of any change in the particulars of his or her licence within twenty-eight days of such change.
- (4) A qualified water sector professional who fails to notify the Cabinet Secretary of any changes in the licence may face disciplinary action, including suspension of the licence.

#### 119. Complaints

- (1) A complaint may be made to the Cabinet Secretary against any person licensed as a qualified water sector professional under these Regulations if the professional—
  - (a) is incapable of carrying out the work of a qualified water resource professional;
  - (b) is unfit, on account of any reason, to practise as a qualified water resource professional;
  - (c) has failed to comply with or is in breach of the conditions of his or her licence or any provisions of the Act or of these Regulations; or
  - (d) is guilty of professional malpractice or negligence in the performance of his duties.
- (2) The Cabinet Secretary shall refer all complaints received against water sector professionals to the Technical Advisory Committee which shall hold an inquiry within thirty days of the complaint being lodged, and if after such inquiry the Technical Advisory Committee is satisfied that the complaint is justified, the Committee shall provisionally suspend the licence of the professional and immediately thereafter submit its findings to the Cabinet Secretary with a recommendation of the appropriate action.
- (3) A water sector professional found culpable of professional misconduct shall be subject to the cancellation or suspension of his or her licence, the removal of his name from the register and notification of the suspension or cancellation of the licence in the Gazette and websites of the relevant regulatory authorities.

- (4) Pending the decision of the Cabinet Secretary on the recommendation of the Technical Advisory Committee, the water sector professional shall, on the basis of the provisional suspension of the licence, cease to undertake any professional assignments in the water sector.
- (5) The person against whom a complaint has been made shall be entitled to appear and be heard at such inquiry, before his or her case is determined.
- (6) Any person whose licence has been suspended or cancelled or whose name has been deleted from the register of qualified water sector professional under sub regulation (3) may, within thirty days of the date of notification of such cancellation and deletion, appeal to the Water Tribunal.

#### 120. Validity of certificates, documents or plans

- (1) No certificate, document or plan required by the Act or these Regulations to be signed by a qualified water sector professional shall be valid unless it is signed by a person whose name is in the register referred to in these Regulations and who is not at the time of signing under a suspension.
- (2) Despite sub regulation (1), an officer of the Ministry, if he or she is so authorized to sign by the Cabinet Secretary, shall be deemed to be a person whose name is in the said register.

#### 121. Misrepresentation as licensed qualified water sector professional

Any person who wilfully and falsely takes or uses any name, title or addition implying that he or she is a qualified water sector professional licensed under these Regulations commits an offence and is liable on conviction to the penalties prescribed under section 147 of the Act.

#### Part XV - LICENSING OF CONTRACTORS

#### 122. Categories of qualified contractors

The categories of qualified contractors shall be as shown in the Ninth Schedule.

#### 123. Criteria for qualified contractors

- The Cabinet Secretary shall develop detailed criteria for different categories of qualified contractors.
- (2) The detailed criteria, which shall be provided to any person upon request, shall be based on the following—
  - (a) plant and equipment;
  - (b) qualifications and experience of professional staff;
  - (c) past experience and performance;
  - (d) any other criteria that the Authority considers to be relevant.

#### 124. Application to register as qualified contractor

- (1) Any individual, corporate entity, non-governmental or charitable organisation, or public body that constructs or is proposing to construct, modify, rehabilitate or service water works shall apply for registration under the appropriate category as a qualified contractor to the Cabinet Secretary, in the Form WRC 001 in the Thirteenth Schedule.
- (2) No contractor shall be licensed or continue to hold a valid licence as a qualified contractor unless he in possession of a valid certificate issued by the National Construction Authority for the category of works he proposes to undertake.

#### 125. Oualified contractor licence

- (1) The Cabinet Secretary shall verify the details of the application by visiting the premises and reviewing the state of the equipment and the experience and qualifications of the applicant and his, her or its staff.
- (2) If the Cabinet Secretary is satisfied, on the basis of recommendations of the National Construction Authority, Regulatory Board or Storage Authority as appropriate, that the applicant is qualified to be licensed, the Cabinet Secretary shall issue a licence in the Form WRC 002 in the Thirteenth Schedule for such period and on such conditions as he or she may deem suitable.
- (3) A qualified contractor shall pay the annual licence fee set out in the Second Schedule and payments shall be made to the Cabinet Secretary no later than the end of the third month in each calendar year.
- (4) A qualified contactor who fails to to renew the licence fee is in breach of the conditions of the licence and the Cabinet Secretary may suspend the licence.
- (5) A suspended licence may be reinstated after payment of all outstanding fees.
- (6) Failure to renew the licence for a consecutive period of three years shall result in the licence being revoked.

#### 126. Verification of necessary and valid authorisations

- A contractor engaged to undertake any works shall verify that all necessary and valid authorisations
  have been obtained by the client in regard to the proposed works prior to commencement of the
  works.
- (2) Commencement of works by the contractor without having verified the availability of the required authorisations may be used as a basis by the Cabinet Secretary to take disciplinary action, which may include the de-registration of the contractor.

#### 127. Code of Practice for qualified contractors

- (1) The Cabinet Secretary shall in consultation with the relevant professional bodies develop and publish a Code of Practice to regulate contractors.
- (2) All qualified contractors shall comply with the Code of Practice.

#### 128. Complaints

- (1) A complaint may be made to the Cabinet Secretary against any person licensed as a qualified contractor under these Regulations if such contractor—
  - (a) is incapable of carrying out the work of a qualified contractor;
  - (b) becomes unfit, through any reason, to practise as a qualified contractor;
  - (c) fails to comply with the conditions of his or her licence or any provisions of the Act, or of these Regulations; or
  - (d) is guilty of malpractice or negligence.
- (2) The Cabinet Secretary shall hold an inquiry within thirty days of the complaint being lodged and if after such inquiry the Cabinet Secretary is satisfied that the complaint has been justified, the Cabinet Secretary shall take disciplinary action which may include suspension or cancellation of the licence of the contractor and if the licence is cancelled the name of the contractor shall be deleted from the register of qualified contractors.

- (3) The contractor against whom a complaint has been made shall be entitled to appear and be heard at such inquiry, before the case is determined.
- (4) A contractor whose licence has been suspended or cancelled and whose name has been deleted from the register of qualified contractors under sub regulation (2) may, within thirty days of the date of notification of such suspension or cancellation and deletion, appeal to the Water Tribunal.

#### 129. Register of qualified contractors

- (1) The Cabinet Secretary shall keep a register as set out in the Thirteenth Schedule of licences for qualified contractors issued under these Regulations.
- (2) The Cabinet Secretary shall, once in every year and not later than the 30th April, publish in the *Gazette* a list containing—
  - (a) the names and addresses of all licensed qualified contractors; and
  - (b) the names and addresses of qualified contractors deleted from the Register.
- (3) A qualified contractor shall inform the Cabinet Secretary in writing of any change in the particulars of his or her licence within twenty-eight days of such change.
- (4) A qualified contractor who fails to notify the Cabinet Secretary of any changes in the licence may face disciplinary action, including suspension of the licence.

#### 130. Misrepresentation as qualified contractor

Any individual, corporate entity, non-governmental or charitable organisation, or public body who wilfully and falsely takes or uses any name, title or addition implying that he, she or it is a qualified contractor licensed under these Regulations commits an offence.

#### Part XVI - MISCELLANEOUS

#### 131. Recognized water quality laboratories

A water quality laboratory which is registered, accredited or gazetted by the National Environment Management Authority shall be recognised by the Authority.

#### 132. Orders

- (1) The Authority may issue an Order to any person to desist from any activity, or for the carrying out of corrective measures to improve compliance to these Regulations or conditions for better water resource quality and or catchment conditions.
- (2) The Order shall be in Form WRA 015 in the Thirteenth Schedule and shall specify what measures are required to be taken, the period of time for compliance with the Order and any other conditions pertaining to compliance with the Order.
- (3) A person who has been served with an Order by the Authority and fails to comply within the stated period of time shall be considered to be in breach of these Regulations and guilty of an offence punishable under these Regulations.
- (4) Failure to comply with an Order by the Authority may be a reason for suspension, cancellation or variation of a permit in addition to any other prescribed penalties.
- (5) Any person who objects to any part of an Order served on him or her by the Authority shall respond in writing to the Authority within fourteen days, giving justification for the basis of his or her objection.

- (6) In the event of an objection to an Order, the Authority shall, within seven days of receiving the objection, notify the person served with the Order of changes to the conditions of the Order, if any.
- (7) In the event that an Order is not complied with within the timeframe stated on the Order, the Authority may take any appropriate measures to prevent the activity mentioned in the Order including the confiscation of equipment, plant or works, and any costs incurred by the Authority in effecting these measures is a cost recoverable from the recipient of the Order.
- (8) If the complainant is dissatisfied, he or she may follow the complaints mechanism as specified in these Regulations.
- (9) In the event that the Authority determines that an activity may cause deterioration of the resource quality, the Authority shall take immediate corrective measures as an emergency without reference to the person who caused it, and any costs incurred by the Authority in effecting these measures may be recovered from the person responsible.

#### 133. Emergency Order

- (1) In the event of unusual climatic, accidental or hydrological events, the Cabinet Secretary may impose by public notification an Emergency Order in the interests of maintaining the Reserve and domestic water supplies.
- (2) The Emergency Order shall comprise of the details listed in the Twelfth Schedule.
- (3) An Emergency Order will be lifted or varied by public notification.
- (4) Any person who fails to comply with an Emergency Order commits an offence.

#### 134. Complaints mechanism

- (1) A person with a complaint related to any matter under these Regulations shall submit his or her complaint to the relevant department of the Authority by providing the particulars set out in the Tenth Schedule.
- (2) The Authority shall reply to the complainant, copied to all other relevant parties, within twentyone days of receiving the complaint stating what action is being taken, the position of the Authority on the matter and any recommendation to the complainant.
- (3) If the complainant is dissatisfied with the decision made in sub regulation (2), he or she may forward the matter to the Chief Executive Officer of the Authority.
- (4) The Chief Executive Officer shall reply to the complainant, copied to all other relevant parties, within twenty-one days of receiving the complaint stating the final decision of the Authority including whether the Chief Executive Officer upholds or annuls the decision as the case may be, and give reasons for his decision, and any recommendation to the complainant.
- (5) If the complainant is dissatisfied with the final decision of the Authority, he or she may appeal this decision at the Water Tribunal.
- (6) Each complaint shall be given a complaint number by the Authority which shall be used for purposes of monitoring any remedial action taken and the response to the complainant.

#### 135. Penalties

- (1) Penalties for offences committed under these Regulations are as set out in the Fifth Schedule.
- (2) A person who commits an offence under these Regulations shall, if no other penalty is prescribed in respect of the offence, be liable to the penalty prescribed under section 147 of the Act.

# 136. Revocation of LN No 171 of 2007

The Water Resources Management Rules, 2007, are hereby revoked.

# FIRST SCHEDULE [r. 4, 5, 6, 13(1), 56(4)] WATER USE ACTIVITIES AND PERMIT DETAILS

# Part 1 - WATER USE ACTIVITIES THAT REQUIRE APPROVAL BY AUTHORITY:

Item	Water Use Activity
1.	Temporary abstraction for construction
2.	Diversion of water from a water course;
3.	Abstraction from surface water;
4.	Diversion of a water course
5.	Abstraction from groundwater, either by a borehole or a shallow well;
6.	Groundwater recharge augmentation;
7.	Water storage in dams and pans;
8.	Liquid waste including the effluent discharged, disposed or emitted into the environment likely to adversely
	impact on a water resource;
9.	Swamp, marsh or wetland drainage;
10.	Obstruction of water;
11.	In-streamworks;
12.	Mixing of waters from different water resources;
13.	Hydropower generation;
14.	Exploiting and using sea water for salt production;

15.	Dredging of the bed of a watercourse, lake, territorial sea or other water bodies;
16.	Construction of boundary walls adjoining a water body, retaining walls, dykes and similar structures;
17.	Dumping of debris or waste materials into a water resource;
18.	Reclamation of land either on account of the recession of a water body or the seabed or for other reason;
19.	Non-consumptive utilisation involving recreational activities including training exercises if routinely carried out by a group of persons either formally or informally organised;
20.	The extraction of salt or other non-living natural resources from the waters of the territorial sea or other water bodies;
21.	The extraction of geothermal resources;
22.	Drilling, tunnelling, the use of explosives, excavation, quarrying and other extractive activities into or in close proximity to a water resource;
23.	Sand harvesting.

# Part 2 – ACTIVITIES FOR WHICH APPLICATION FOR VARIATION OF PERMIT SHALL BE MADE:

Item	Activity
(a)	Modifications at the point of diversion or abstraction;
(b)	Varying the water use;
(c)	Changing the point of use;
(d)	Mixing water covered under different permits;
(e)	Replacement, deepening, widening or any other modification to an existing borehole, shallow well or any water works requiring approval by the Authority;
(f)	Abandonment of an existing waterworks that would normally require approval by the Authority;
(g)	Artificial recharge of groundwater;

(h) Any other type of water use activity that may, from time to time, be determined by the Authority

#### Part 3 - CATEGORY OF WATER RESOURCE USE ACTIVITIES:

CATEGORY	DESCRIPTION
A	Water use activity deemed by virtue of its scale to have a low risk of impacting the water resource. Applications in this category will be determined by Regional Office.
В	Water use activity deemed by virtue of its scale to have the potential to make a significant impact on the water resource. Permit applications in this category will be determined by Regional Office following consultation with the WRUA or equivalent local representative association whose objective is natural resources management and conflict resolution.
С	Water use activity deemed by virtue of its scale to have a significant impact on the water resource. Permit applications in this category will be determined by regional offices on the basis of advice of the basin water resource committee and following consultation with the concerned WRUAs local representative association(s) whose objective is natural resources management and conflict resolution.
D	Water use activity which involves either two different catchment areas, or is of a large scale or complexity and which is deemed by virtue of its scale to have a large impact on the water resource.  Permit applications in this category will be determined by the Authority headquarters on the basis of the advice of the concerned basin water resource committees.

# SECOND SCHEDULE [(r. 10(2), 13(1)(c),14(1)(d), 26(2), 27(2), 31(1), 34(1), 36(1)(b), 37(2), 39(3), 50(2),60(3), 61(6), 69(2), 82(3), 84(1)]

# FEES AND WATER USE CHARGES

#### Part A - FEES

#### 1. GENERAL FEES

Relevant Form (if applicable)	Description of Activity	Relevant Regulation(s)	Fees Kshs
WRA 001	Application for Water Permit	15(1), 15(5), 16(1), 51(3), 53(1), 53(2)	See Second Schedule, Part 2

Relevant Form (if applicable)	Description of Activity	Relevant Regulation(s)	Fees Kshs
WRA 002	Application for Easement	12	4000
WRA 003	Comments by WRUA on Application for Water  Permit	19	Nil
WRA 004	Authorisation to Construct Works	25	Nil
WRA 005	Application for Extension of Time of Authorisation	27	4000
WRA 006	Issuance of Extension of Authorisation to Construct Works	29	2000
WRA 007	Inspection	89	
WRA 008A or B	Completion Certificate	58	None
WRA 009	Water Permit	29	See second schedule, Part 2
WRA 010	Renewal of Permit	38	See second schedule, Part 2
WRA 011	Variation of Permit	36	4000
WRA 012	Transfer of Permit	35	4000
WRA 013	Search of Water Permit	-	2000
WRA 014	Assessment of Water Use and Charges	100	None
WRA 015	WRA Order	150	None

Relevant Form (if applicable)	Description of Activity	Relevant Regulation(s)	Fees Kshs
WRA 016	Authority to Enter Land	12	4000
WRA 017	WRUA Registration	116	None
WRA 018	Certificate of Registration of WRUA	116	None
WRA 019	Supplement to Water Permit/ Authorisation	13	6000
WRP 001	Application for Qualified Water Sector Professional	132	6000
WRP 002	Licence as Qualified Water Sector Professional	134	6000
WRC 001	Application for registration as Qualified Contractor	142	10000
WRC 002	Licence as Qualified Contractor	143	10000
	Annual Licence Fee for Qualified Water Sector Professional	134	4000
	Annual Licence Fee for Qualified Contractor	143	4000
	For re-issue of or alteration to Authorizations, Permits, and Licences	-	4000

# 2. FEES FOR ASSESSMENT AND ISSUANCE OF WATER USE PERMITS BY CATEGORY

Applications	Assessment of Application (Kshs)	Issue of Initial Permit (Kshs)	Assessment for renewal and/or variation of Permit
		(for 5 years)	

Water Use Category A	2,000	1,000	1,000
Water Use Category B	20,000	25,000	45,000
Water Use Category C	40,000	50,000	90,000
Water Use Category D	80,000	100,000	180,000

#### NOTE:

- a) Application fees in respect of Ground Water Permits shall be accompanied with payment for physical chemical analysis.
- b) For permits issued for less than 1 year, the cost of the permit will be charged on a pro ratabasis.
- c) The fees for Assessment for renewal and/or variation of Permit is inclusive f issuance of the Permit(renewal).
- 3. FEES FOR DATA, INVESTIGATIONS, LABORATORY ANALYSIS AND RELATED SERVICES

Item	Туре	Unit	Rate (Kshs)
Groundwater Data	Basic data (WSL, WRL, Yield, Depth) up to a maximum of 10 boreholes	Per request	5,000
	Borehole or Well Completion Record (Form 008A or 008B) including test pumping and water quality data	Per borehole	5,000
Hydro- meteorological Data	Rainfall (daily, monthly, or annual)	Per station record	5,000
	Climatic parameter	Per station record	5,000
	Water level and rating equations	Per station record	5,000
	discharge	Per station record	5,000

Item	Туре	Unit	Rate (Kshs)
	lake/ reservoir level	Per station record	5,000
	sediment load	Per station record	5,000
Water Apportionment	Copy of Authorisation or Permit	Per copy	1,000
Water Quality Data	All parameters (up to a Maximum of 20 data sets)	Per request	5,000
INVESTIGATIONS			
Groundwater	Hydrogeological Assessment or surveys including borehole siting	Per site	40,000/- plus staff days based on contracted consultancy day rate and AA rates for mileage exclusive of lab analysis costs
Surface water	Hydrological Assessment or surveys	Per request	Ditto
WQ & pollution Control	Water Quality Assessment or surveys	Per request	Ditto
Surface water	Flow measurement	Per site	20,000/- plus staff days based on contracted consultancy day rate and AA rates for mileage
Thematic maps & reports	blue prints	Per copy	2,000
	coloured prints	Per A1 copy Per A0 copy	5,000 5,000

Item	Туре	Unit	Rate
			(Kshs)
	coloured prints	Per A4	1,000
	-	сору	1,000
		Per	
		АЗ сору	
	Digital Maps	Per Theme	20,000
	Reports	Per page	50
Equipment Hire		Per day	As per prevailing schedule of rates issued by WRA from time to time
Copy of Register of WRUAs		Per region	5000
Copy of Register of Water Bodies		Per region	5,000
Copy of Register of Authorisations or Permits		Per 100 or	5,000
		thereof	
Copy of Register of Qualified Water Sector Professionals or Qualified Contractors		Per copy	5,000
Recommendations by WRUA on Application for Permit	Permit	Per Permit	2,000
Note			
Recommendation by WRUA does not confer or imply a Permit for water abstraction by the Applicant			
Certified Copy of Register of WRUAs		Per Sub region	1,000

Item	Туре	Unit	Rate (Kshs)
WRUA Development Cycle			4,000

# Part B - WATER USE CHARGES

# RATES FOR WATER USE CHARGES FOR PERMIT CATEGORIES A, B, C AND D

Type of Water Use	Criteria	Rate
Domestic, Public, Livestock	Domestic, public, and livestock purposes	5 Kes/m <sup>3</sup>
Hydropower Generation	Amount of energy generated First 1 MW	No charge
	Over 1 MW	2 Kes per kWh
Irrigation	First 300 m <sup>3</sup> /day	5 Kes/m <sup>3</sup>
	Over 300 m <sup>3</sup> /day	6 Kes/m <sup>3</sup>
Fish Farming	Amount supplied	1 Kes/m³
Commercial / Industrial	First 300 m <sup>3</sup> /day	5 Kes/ m <sup>3</sup>
	Over 300 m <sup>3</sup> /day	6 Kes/ m <sup>3</sup>
Effluent Discharge		As per the Amendments.
Salt Extraction		
Desalination		
Suspended Buildings on Lakes And Ocean		

Permit For Temporary Diversion of Rivers/Sea/Water Courses During Construction of Bridges		
Permit For Dredging and Training of Rivers/Water Courses For Construction of Roads		
Lab Analysis Charges		
Change of Use (WR Infrastructure)		
Searches	WRUAs Wetlands Dams Swamp List of Professionals	
Data Sets	WR Maps	
Registration of Professionals	Registration Renewal	5,000 5,000
Registration of Contractors		1,000

#### NOTE:

- A) All water use under category A, B, C and D attract water use charges.
- B) Water use charges apply to water abstracted, diverted, stored, and or used for hydropower generation.

Part C - LABORATORY WATER QUALITY TESTING CHARGES

PARAMETER	CHARGES (Kshs)	Individual Parameters	CHARGES (Kshs)
Physical Chemical Analysis	5000	22.Total Hardness	600
Biological Analysis	3500	23. Sulphides	350
Partial Effluent Analysis	5000	24 Dissolved Oxygen	300
Full Effluent Analysis	8000	25. Temperature	200

Individual Parameters		26. Salinity	300
1. рН	200	27. Chemical Oxygen Demand	1000
2. Colour	200	28. Biochemical Oxygen Demand	1000
3. Turbidity	300	29. Chlorine Demand	1000
4. Conductivity	300	30. 4 Hr. Permaganate Value	500
5. Magnesium	400	31. Oil & Grease	1000
6. Total Alkalinity	350	32. Total Suspended Solids	500
7. Free Carbon Dioxide	200	33. Pesticides (each)	8000*
8. Orthophosphate	500	34. Detergents	2000
9. Total Phosphorus	700	35. Residue Chlorine	300
10. Chloride	300	36. Total Nitrogen	1000
11. Iron	700	37. Phenols	500*
12. Nitrate	500	38. Heavy metals (each)	1000
13. Nitrite	500	39. Coliforms & <i>E.Coli</i>	3500
14. Total Dissolved solids	300	40. Legionella	5000
15. Sulphate	400	41. Jar Test	5000
16. Fluoride	400	42. Water Treatment Chemical Analysis	5000
17.Calcium	400	43. Arsenic	1000

18. Manganese	700	44. Water quality Data for all parameters (up to Max. 20 datasets)
19. Potassium	350	
20.Sodium	350	
21. Ammonia	500	

# THIRD SCHEDULE [r. 14(1)(c)] REGULATION OF DAMS

Table 1: Classification of Storage Dams

Class of Dam	Maximum Depth of Water at NWL (m)	Impoundment at	Catchment Area (km²)
SD1	0 – 4.99	< 100,000	< 100
SD2	5.00 - 14.99	100,000 to 1,000,000	100 to 1,000
SD3	> 15.00	> 1,000,000	> 1,000

NWL = Normal Water Level

Table 2: Risk Factors of Storage Dams and other waterworks

Classification	Population at Risk	Incremental Consequences of Failure		
	Riok	Loss of Life	Environmental and cultural values	Infrastructure, economics and other property

SD 1 (Low	Temporary/	Minimal	Limited presence of:	Low economic losses
Risk)	Permanent	numbers	a) important fisheries	affecting
			b) important wildlife habitats	limited infrastructure and residential buildings,
			c)rare or endangered species, or	public transportation or services or commercial facilities; alternatively
			d) unique landscapes	limited destruction or damage to locations used occasionally
			e) sites of cultural significance and additionally	and irregularly for temporary purposes.
			Restoration	
			or compensation in kind for losses and damage is possible.	
SD 2	Permanent	Significant	Significant presence:	Moderate economic
(Medium		numbers	(a) critical fisheries;	losses affecting important
Risk)			(b) critical wildlife habitats;	infrastructure, public transportation or services or commercial facilities, or
			(c) rare or endangered species, or	moderate destruction or severe damage to residential areas.
			(d) unique landscapes	areas.
			(e) sites of cultural significance and additionally	
			Restoration or compensation in kind for losses and damage difficult.	

SD 3 (High Risk)	Permanent	Large	Presence of:  (a) critical fisheries;  (b) critical wildlife habitats;  (c) rare or endangered species, or  (d) unique landscapes  (e) sites of cultural significance and additionally Restoration or compensation in kind for losses and damages is impossible or impracticable.	High economic losses affecting critical infrastructure, public transportation or services or commercial facilities, or significant destruction or damage to residential areas.
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Table 3: Minimum Return Period for Spillway Design

Class of Dam	Minimum Period for Design of Spillway
SD1	1 in 50 years
SD2	1 in 100 years
SD3	1 in 500 years

Table 4: Dam Safety Inspection Schedule

Class of Dam	Frequency of inspection	Inspection by
SD1	Once in 5 years	Panel II C1, Panel II C2, Panel II C
SD2	Once in 3 years	Panel II C2, Panel II C1
SD3	Once every 2 years	Panel I C2

# FOURTH SCHEDULE [r. 16(1), 51(4), 58(2), 62(2)] CONTENT AND FORMAT OF TECHNICAL REPORTS

The following are guidelines for Technical Reports and compilers are expected to exercise their professional judgement in including other appropriate items in the Technical Report.

#### FORMAT OF REPORTS

All reports shall be submitted to the Authority in the following format:

Item	Format
1.	One original paper hardcopy of all documents, duly signed, and adequately bound together;
2.	Two paper copies of all documents;
3.	A digital Portable Domain Format (PDF) format of the document and drawings submitted on a Compact Disk or any other appropriate electronic medium.

#### FORMAT OF DRAWINGS

gained.

All technical drawings submitted to the Authority shall comply with the following format:

Item	Format
1.	One original paper hardcopy of all drawings, duly signed, and adequately bound together;
2.	Two paper copies of all drawings;
3.	A digital DXF (Digital Exchange Format) format of the technical drawings submitted on a Compact Disk (CD) or other electronic medium as appropriate;

Every plan shall be signed and dated by the person making it, and, if it is made by any person other than the applicant to whom it relates, the application or his or her lawfully authorized agents hall also approve, sign and date it.

Every plan prepared by a qualified professional shall have endorsed thereon a certificate in the following form:-

		t it correctly represents the places, lands, area	
Qualified P	rofessional(s)		
All reduced levels or elevations sl	nown on any plan, or set of	f plans, longitudinal sections cross sections of	E
any work or works shall be to the	same datum, and reference	e shall be made on at least one sheet of any se	et of
plans, longitudinal sections or cr	oss sections indicating the	datum used, and also the positions of all ben-	ch
marks, which shall be properly lo	cated and described on the	e general map(and which benchmarks one sha	.11
be in the immediate vicinity of th	e point of diversion, abstra	action or storage), from which the datum may	be be

The location of the datum shall be described by the Grid Reference in UTM Coordinates based on the Arc 1960 datum. The elevation shall be referenced to mean sealevel. The nature of the datum shall be adequately described.

#### FORMAT OF MAPS AND DRAWINGS

All technical drawings and maps submitted to the Authority shall comply with the following format:

Item	Format
1.	A digital Tagged Image File Format (TIFF) format of the maps submitted on a CD, or other appropriate media

#### SITE ASSESSMENT REPORT

A Site Assessment Report shall substantially provide the following details:

Item	Details
1.	Name and details of Applicant;
2.	Description of Proposed Activity
3	Confirmation of Site details;
4	Relevant hydrological features;
5	Relevant catchment features;
6	Recommendations

#### TECHNICAL REPORTS

The following technical reports shall substantially provide the details required

DAM DESIGN REPORT (FOR CLASS SD1, SD2 AND SD3 DAMS)

Item	Contents
1.	Details of location

2.	Details of hydrological assessment
3.	Details of design flood and return period
4.	Details of embankment
5.	Details of reservoir
6.	Details of draw-off and compensation works
7.	Details of spillway(s)
8.	Details of ancillary structures
9.	Details of construction materials
10.	Details of construction schedule
11.	Details of operational regulations
12.	Procedures to notify and protect downstream inhabitants, infrastructure and environments
13.	Schedule of inspection and maintenance
14.	Assessment of impacts and risks

# TECHNICAL DESIGN REPORT

Item	Detail
1	Name and details of Applicant;
2.	Description of Proposed Activity;
3.	Analysis of Demand;
4.	Details of Hydrological Assessment
5	Details of Structures to be built;
6.	Details of Equipment to be installed;

i	]
7.	Details of Controlling Device;
8.	Details of Measuring Device;
9.	Details of operating procedures;
10	Details of safety devices

## PROGRESS REPORT

Item	Detail
1.	Name and details of applicant;
2.	Description of proposed Activity;
3.	Details of Authorisation including the time frame;
4.	Cause of delay;
5.	Revised timeframe for completion;

#### DAM INSPECTION REPORT

Item	Contents
1.	Current condition of dam with respect to approved design and "as-constructed" condition
1.	ourrent condition of dam with respect to approved design and as constructed condition
2.	Any action required to restore the function a land structural integrity of the dam to the required state
3.	Any changes with regard to the risk of or impact in the event of dam failure
4.	Review appropriateness of the action plan in event of dam failure

# DAM DAMAGE OR FAILURE REPORT

Item	Contents
1.	Details of location

2.	Date and time of dam failure or damage	
3.	Preceding climate	
	Preceding hydrology	
5.	Cause of dam failure or damage	
6.	Steps taken to notify downstream inhabitants	
7.	Nature and extent of damage caused to the dam or caused by the dam failure	

# HYDROLOGICAL ASSESSMENT REPORT

Item	Details			
1.	Name and details of Applicant;			
2.	Location and Description of Proposed Activity;			
3	Details of Climate;			
4	Details of river or water body (name, nearest Regular Gauging Station, Sub-catchment);			
5	Details of catchment (area, slopes, soils);			
6	Details of vegetation and land use;			
7	Details of Registered and Non registered Abstraction on the resource ;			
8	Details of all other permits related to this application;			
9	Hydrological characteristics and analysis (annual, monthly, extreme events, flow duration or probability of events occurring);			
10	Hydrochemistry;			
11	Analysis of the Reserve;			
12	Assessment of availability of flow;			

13	Impact of proposed activity on flow regime, water quality, other abstractors;
14	Recommendations on Proposed Activity;

## HYDROGEOLOGICAL SURVEY REPORT

Item	Detail			
1.	Name and details of applicant			
2	Location and description of proposed Activity			
3	Details of climate			
4	Details of geology and hydrogeology			
5	Details of neighbouring boreholes, and neighbouring proposed valid authorizations, including location, distance from proposed borehole or boreholes, number and construction details, age, current status and use, current abstraction and use.			
6	Description and details (including raw and processed data) of prospecting methods adopted, e.g. remote sensing, geophysics, geological and or hydrogeological cross sections Hydro- geological characteristics and analysis, to include but not necessarily be limited to, the following:			
Aquifer transmissivity;				
	Borehole specific capacities;			
	Storage coefficient and or specific yield;			
	Hydraulic conductivity;			
	Groundwater flux;			
	Estimated mean annual recharge, and sensitivity to external factors.			
7	Assessment of water quality and potential infringement of National standards			
8	Assessment of availability of groundwater;			
9	Analysis of the reserve			
10	Impact of proposed activity on aquifer, water quality, other abstractors, including likelihood of coalescing cones of depression and implications for other groundwater users in any potentially impacted areas.			

11	Recommendations for borehole development, to include but not limited to, the following:			
	Locations of recommended borehole(s) expressed as a coordinate(s) and indicate do n a sketch map Recommendations regarding borehole or well density and minimum spacing in the project area			
	Recommended depth and maximum diameter			
	Recommended construction characteristics, e.g. wire-wound screen, grouting depth			
	Anticipated yield			
12	Any other relevant information (e.g. need to monitor neighbouring boreholes during tests)			

## WASTE DISPOSAL CONTROL PLAN

Item	Detail			
1.	Name and details of applicant			
2.	Quantity and quality of in flow water and waste			
3.	Type and source of waste			
4.	Design of waste treatment plant			
5.	Location and description (frequency, quantity, quality and nature) of effluent			
6.	Description of treatment and operations, if any			
7.	Hydrology, hydrogeology and hydrochemistry of receiving water body			
8.	Impacts on receiving water body in terms of quantity and quality			
9.	Proposed water quality requirements for the permit and the timeframe for achieving compliance			
10.	Monitoring programme, (measuring device, controlling device, sampling, records, reporting procedures)			
11.	Emergency plan for accidental discharges and their risks.			

# WATER QUALITY AND POLLUTION CONTROL ASSESSMENT REPORT

|--|

1.	Name and details of applicant:		
2.	Location and description of activity or proposed activity;		
3.	Details of river or water body (name, nearest Regular Gauging Station, Sub- catchment);		
4.	Details of flow regime and hydrochemistry;		
5.	Nature and characteristics of waste disposed;		
6.	Impact of waste upon water resource and other water users;		
7.	Other sources of pollution in the project area:		
8.	Conclusions and recommendations.		

## SOIL AND WATER CONSERVATION PLAN

Detail	
Existing soil and water conservation structures and practises;	
Potential sources of sediment and other pollutants to the water course;	
Slope of land;	
Land use;	
Condition of the riparian land;	
Proposed measures and targets for improved soil and water conservation;	
Targets and timeframe for adoption and implementation of proposed soil and water conservation structures and practices;	
Schedule of inspection of the Soil and Water Conservation Plan;	
Site sketch showing:-  Demarcation of boundaries of land covered under the Soil and Water Conservation Plan;  Identification of significant features.	

# BASIN AREA WATER RESOURCES MANAGEMENT STRATEGY

Item	Detail			
1	A description of the institutional framework for water resource management detailing institutional roles and responsibilities;			
2.	A strategy for the conservation of the catchment areas;			
3	A water resource development strategy capturing the need for improved water resource reliability and availability to meet current and future demands and to address poverty alleviation targets;			
4	A stakeholder participation strategy that will include mechanisms for encouraging the formation and establishment of Water Resource Users Associations and strengthening them once established;			
5	A communication strategy that will capture the communication needs and mechanisms for the catchment;			
6	A water resource monitoring strategy that will capture the resource monitoring network and flow prediction targets;			
7	A compliance strategy that will detail the time frame, approaches and requirements to bring water users into compliance with water management regulations;			
8	A water demand management strategy that will capture approaches and targets for improving water allocation and use efficiencies;			
9	A water allocation plan detailing:  A description of the class of resources and their resource quality objectives;  An analysis of current and future water demands;  Allocation of the resource to the Reserve and to different types of uses;  Measures to be taken to ensure that water use approvals remain true to the allocations;  Measures to be taken when resource availability is limited;  A compliance plan; An enforcement plan; Mechanisms for reviewing the allocation plan from time to time as the need arises.			

# FIFTH SCHEDULE [r. 133]

# PENALTIES FOR SPECIFIED OFFENCES

Relevant Regulations	Offence	Minimum Penalty	Maximum Penalty
150	Failure to comply with an Order	Ksh 20,000/- or 6 months imprisonment and compliance with the order at his or her cost	Penalty prescribed in section 147 of the Act.
89(3)	Damage to Water Resources monitoring network	Ksh 20,000/- or 6 months imprisonment and repair damage at his or her cost	Penalty prescribed in section 147 of the Act and repair damage at his or her cost
8(2)	Failure to Apply for Water Use Permit	Ksh20,000/- or 6 months imprisonment	Penalty prescribed in section 147 of the Act.
36(6)	Failure to apply for Variation of Permit	Ksh 20,000/- or 6 months imprisonment	Penalty prescribed in section 147 of the Act.
86(3)	Failure to Follow Notification Procedure with respect Dam releases	Ksh 20,000/- or 6 months imprisonment	Penalty prescribed in section 147 of the Act.
87(2)	Failure to submit dam damage or failure report	Ksh 20,000/- or 6 months imprisonment	Penalty prescribed in section 147 of the Act.
57(2)	Failure to submit a Borehole or Well Completion Record	Ksh 20,000/-or 6 months imprisonment	Penalty prescribed in section 147 of the Act.
60(4)	Failure to apply for approval to undertake artificial groundwater recharge	Ksh20,000/-or 6 months imprisonment	Penalty prescribed in section 147 of the Act.
63(7)	Unapproved Effluent Discharge	Ksh 20,000/- or 6 months imprisonment	Penalty prescribed in section 147 of the Act.

69(5)	Failure to Inform with Respect to spillage	Ksh 20,000/- or 2 months imprisonment	Penalty prescribed in section 147 of the Act.
70(2)	Obstructing a Water Resources Inspector	Ksh 20,000/-or 6 months imprisonment	Penalty prescribed in section 147 of the Act.
75(6) 76(3)	Failure to remove or make safe Temporary or Abandoned Works	Ksh 20,000/- or 6 months imprisonment	Penalty prescribed in section 147 of the Act.
115(9)	Failure to comply with Soil and Water Conservation Plan	Ksh 20,000/-or 6 months imprisonment	Penalty prescribed in section 147 of the Act.
123(3)	Failure to comply with Management Regulations for Protected Area or Groundwater Conservation Area	Ksh 20,000/- or 6 months imprisonment	Penalty prescribed in section 147 of the Act.
139,148	Misrepresentation as Qualified Water Sector Professional or Qualified Contractor	Ksh 20,000/- or 6 months imprisonment	Penalty prescribed in section 147 of the Act.
151(4)	Failure to Comply with an Emergency Order	Ksh 20,000/- or 6 months imprisonment	Penalty prescribed in section 147 of the Act.

### SIXTH SCHEDULE [r. 64]

#### **GUIDELINE STANDARDS FOR WASTE DISPOSAL**

# Part 1 – GUIDELINES FOR DISCHARGE OF WASTE INTO SURFACE WATER RESOURCES

PARAMETER	MAX ALLOWABLE (LIMITS)
Arsenic as Ag (mg/l)	0.1
Biochemical Oxygen Demand (BOD 5 Days at 20 °C) (mg/l	30
Cadmium as Cd (mg/l)	10

Chemical Oxygen Demand (COD) (mg/l)	100
Chromium as Cr (mg/l)	Less than 001
Lead as Pb (mg/l)	Less than 001
Oil and grease (mg/ml)	0.05
pH (pH scale)	5.0-9.0
Phenols total (mg/l)	0.05
Sulphide as S (mg/l)	2.0
Total Suspended Solids (mg/l)	30
Temperature (in degrees Celsius) based on ambient temperature	± 5
Cyanides as CN (mg/l)	Less than 0.2
Nickel as Ni (mg/l)	Less than 2.0
Detergents (ABS) (mg/l)	Less than 5.0
Mercury as Hg (mg/l)	Less than 0.01
Total Phosphorus as P (mg/l)	2
Total Nitrogen as N (mg/l)	10
Total pesticide residues (µg/l)	0.05

#### Remarks

The Authority may issue industry-specific Guidelines for waste disposal based on the water quality objectives, the Reserve water quality and dry weather stream flow for individual water courses or bodies.

# Part 2 – GUIDELINES FOR DISCHARGE OF WASTE ONTO LAND (WITH IMPACTS ON GROUNDWATER

PARAMETER	MAXIMUM
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рН	5.5 – 9.0
Boron (mg/l)	2.0
BOD (mg/l)	500
Chloride	600
(mg/l)	
Total Dissolved Solids (mg/l)	2100
Oil and grease (mg/l)	30
Sulphates (mg/l)	1000
Sodium (as percentage of total cation concentration)	60

# SEVENTH SCHEDULE [r. 110, 111, 112, 113, 114, 115] CATCHMENT PROTECTION AND CONSERVATION AREAS

#### 1. THE CRITERIA FOR REQUIRING A SOIL AND WATER CONSERVATION PLAN ARE:

Item	Criterion
(a)	Existing condition of the catchment area and the risk of riverbank erosion, sources of direct runoff into the water course and sediment sources within the catchment areas;
(b)	Slope of the land;
(c)	Land use and land management practices and the risk of soil erosion and destruction from excessive direct runoff;
(d)	Presence or otherwise of soil and water conservation structures;
(e)	Potential water resource pollution arising from the land use;
(f)	Any other criteria that the Authority considers to be significant.

2. THE CRITERIA FOR IDENTIFYING A PROTECTED AREA OR GROUNDWATER CONSERVATION AREA ARE:

Item	Criterion
(a)	Catchment characteristics;
(b)	The vulnerability of the water resource;
(c)	The water resource quality objectives and the current status of the water resource;
(d)	The class of the water resource;
(e)	Water demands, present and projected, on the water resources;
(f)	Land uses and their potential impact on the water resources;
(g)	Any other criterion that the Authority considers relevant;

# 3. CONTENTS OF MANAGEMENT REGULATIONS OR PLANS RELATED TO A PROTECTED AREA OR GROUNDWATER CONSERVATION AREA MAY INCLUDE:

Item	Contents
(a)	Procedures to be applied for the management of the protected area or groundwater conservation area;
(b)	Prohibited activities;
(c)	Any measures required to be undertaken for water resource conservation and protection;
(d)	The timeframe for implementation of required measures;
(e)	Any other conditions that the Authority may consider relevant.

### EIGHTH SCHEDULE [r. 107]

# MEASURES THAT THE AUTHORITY MAY TAKE IN RELATION TO A REPORT ON VIOLATION OF THE RESERVE INCLUDE:

Item	Measures
(a)	Investigating the cause of the reserve violation;

(b)	Advise the Cabinet Secretary that an emergency situation exists and there serve is being violated by virtue of natural and or anthropogenic events;
(c)	Enforcing any conditions on any approvals, authorisations or permits that may rectify the situation;
(d)	Temporarily suspending or varying permits;
(e)	Hydrographic and abstraction surveys;
(f)	Establishing or revising a water allocation plan or a effluent discharge control plan;
(g)	Informing the public on the condition of the reserve and any actions that are needed to restore the reserve;
(h)	Any other measures considered appropriate by the Authority.

#### NINTH SCHEDULE [r. 108, 120]

#### QUALIFIED WATER SECTOR PROFESSIONALS AND QUALIFIED CONTRACTORS

#### CATEGORIES OF QUALIFIED WATER SECTOR PROFESSIONALS

Panel I - Water Engineer	
A	Water Supply Works (exceeding 1,000 m <sup>3</sup> /day)
В	Effluent Treatment Works (exceeding 1,000 m <sup>3</sup> /day)
С	Dams 1.Class SD1 and SD2 Dams 2.Class SD1, SD2 and SD3 Dams
D	Irrigation Works (exceeding 7,500 m³/day)

Panel II - Water Engineer	
A	Water Supply Works (less than 1,000 m <sup>3</sup> /day)

В	Effluent Treatment Works (less than 1,000 m <sup>3</sup> /day)
С	Class SD1 Dams
D	Irrigation Works (less than 7,500 m <sup>3</sup> /day)

Pan	Panel III		
A	Hydrologists		
В	Hydrogeologists		
С	Hydrometeorologists		
D	Chemists		
Е	Biologists		
F	Ecologists		
G	Geophysicists		
Н	Other relevant category recognised by the Technical Advisory Committee		

#### CATEGORIES OF QUALIFIED CONTRACTORS

Category 1	
A	Water Supply Works (exceeding 1,000 m <sup>3</sup> /day)
В	Effluent Treatment Works (exceeding 1,000 m <sup>3</sup> /day)
С	Dams for Class SD3 Dams
D	Irrigation Works (exceeding 7,500 m³/day)

E	Borehole Drilling (Eligible to drill boreholes);
	Class 1: Able to drill less than depth of 150 metres
	Class 2: Able to drill in excess of 150 metres

Category 2	
A	Water Supply Works (less than 1,000 m <sup>3</sup> /day)
В	Effluent Treatment Works (less than 1,000 m³/day)
С	Dams for Class SD1 and SD2 Dams
D	Irrigation Works (less than 7,500 m³/day)
Е	Borehole Servicing (Eligible to service or rehabilitate boreholes.

#### DESIGN AND SUPERVISION OF DAM

Class of Dam	Category of Qualified Water Sector Professional
SD1	Panel II C, Panel I C1& Panel I C2
SD2	Panel I C1 & Panel I C2
SD3	Panel I C2

#### CATEGORY OF DAM CONTRACTOR

Class of Dam	Category of Dam Contractor
SD1	C1, C2
SD2	C1, C2
SD3	C1

### TENTH SCHEDULE [r. 132]

#### **COMPLAINTS**

#### INFORMATION TO BE GIVEN BY COMPLAINANT UNDER THESE REGULATIONS

Item	Information
(a)	Name of Complainant
(b)	Contact address, telephone number, email address (if any) of Complainant
(c)	Nature and location of the problem
(d)	Date that problem occurred
(e)	Name and, if available, the contact details of all parties to the dispute or complaint
(f)	Any other relevant details
(g)	Signature of the Complainant

### ELEVENTH SCHEDULE [r. 70]

#### WATER QUALITY SAMPLING PROCEDURES

## PROCEDURES TO BE FOLLOWED WHERE WATER QUALITY SAMPLE IS TAKEN FOR PROSECUTION PURPOSES

Item	Procedure	
(a)	The presence of the alleged polluter at the place and time of sampling;	
(b)	Where the intended analysis is to determine compliance with physical and chemical parameters, then a sample shall be taken and divided into three portions, each contained in an appropriate capacity container and preserved according to standard practice;	
(c)	Where the intended analysis is to determine compliance with microbiological parameters, then a sample shall be taken and divided into three portions, each contained in a sterile glass bottle;	
(d) All three portions will be sealed in the presence of the alleged polluter who is required to acknowledgement that he has witnessed the sampling;		

	(e)	One portion will be provided to the alleged polluter who may obtain his or her own independent analysis from a gazetted laboratory of his or her choice;	
	(f)	One portion shall be sent by the Authority to a gazetted laboratory for analysis;	
		One portion shall be retained by the Authority for future reference provided that the storage of the sample is safe enough and the period of storage does not result in the deterioration of the sample.	

# TWELFTH SCHEDULE [r. 131(2)]

#### **EMERGENCY ORDERS**

Contents of an Emergency Order include;

Item	Contents
(a)	That an emergency exists;
(b)	Start date of the Emergency Order;
(c)	The factors that have caused the emergency
(d)	What area or water resource(s) are affected;
(e)	What action or activities are restricted or prohibited;
(f)	What action or activities will be undertaken;
(g)	Conditions that need to be fulfilled for the Emergency Order to be lifted.

THIRTEENTH SCHEDULE [r. 10(2), 10(4), 11(2), 13(1)(b), 14(1)(a), 17(3), 23(1), 25(1)(b), 26(1), 27(1), 27(5), 33, 34(1), 36(1)(a), 39(3), 49(3), 51(1), 55(1), 87(2), 97(1), 97(4), 112, 114(1), 116(1), 122(1), 127(1), 130(2)]

#### **FORMS AND REGISTERS**

Form Number	Description	Relevant Regulation
WRA	Application for Water Permit	15, 16, 51, 52
WRA	Effluent Discharge Permit	

Form Number	Description	Relevant Regulation
WRA	Application for Easement	12
WRA	Comments by WRUA on Application for	19
WRA	Authorisation to Construct Works	24
WRA	Application for Extension of Time of	26
WRA	Completion Certificate	28
WRA 007	Inspection Report	28, 37, 65, 67, 69, 73,
WRA 008 A or	Borehole or Well Completion Record	57
WRA	Water Permit	28
WRA	Renewal of Permit	30
WRA	Variation of Permit	35
WRA	Transfer of Permit	34
WRA 013	Search for Water Permit	-
WRA	Assessment of Water Use and Charges	87
WRA	WRA Order	137
WRA	Authority to Enter Land	12
WRA	WRUA Registration	103
WRA	Certificate of Registration of WRUA	103
WRA	Supplement to Authorisation/Supplementary	13
WRP 001	Application for registration as Qualified Water Sector Professional	119

Form Number	Description	Relevant Regulation
WRP 002	Licence for Qualified Water Sector	121
WRC 001	Application for registration as for Qualified	129
WRC 002	Licence for Qualified Contractor	130

#### Official Registers

Register number	Official Registers	Relevant Regulation(s)
R 001	Register of WRUAs	103
R 002	Register of Water Bodies	84
R 003	Register of	27
R 004	Register of Approved Water Users, Uses and	38
R 005	Register of Qualified Water Sector	123
R 006	Register of Qualified	134

The Chief Executive Officer, Water Resources Authority, P.O. Box 45250 – 00100 NAIROBI

	Grid Reference for	Form:	WRA 013
١	Works		
9	(UTM Arc 1960)		
,	Easting:	Catchment:_	
	Northing:	WRA ID:_	
	Zone:	File No:_	

Water Resources Authority

#### APPLICATION FOR WATER PERMIT

(To be submitted in triplicate) (Regulation 15, 16, 51, 52)

Type of Water Use	Surface Water			Groundwater		Effluent Discharge	Swamp Drainage	
	Diversion	Abstraction	n In- stream Works	Storage	Shallow well	Borehole		
Tick Box								
Attach Form	1B	1B	1B	1C	1D	1D	1E	1F

PARTICULARS OF APPLICANT	DETAILS	
1. Full name of applicant(s) (In Block L		
2. Category of Applicant - Individual, G Society], Company, Institution		
3. ID Number of Applicant (Individual) Incorporation or Registration for Group		
4. PIN Number (where available)		
Physical Address where water is to be u	Contact Address of Applicant	
5. L.R Number(s)		10. Box Number
6. Village(s)/Ward(s)		11.Town
7. Sub-location(s)		12. Post Code
8. Location(s)		13. Telephone Contact (Landline)
9. Division(s)		14. Telephone Contact (Mobile)
10. District(s)		15. Email Contact

#### WATER RESOURCE DETAILS

16. Name of Body of Water or Aquifer where water is to be diverted, abstracted or stored	
17. Is the point of abstraction or storage in a Protected Area or a Groundwater Conservation Area? (yes/no)	
18. Sub-catchment Number	
19. Class of Water Resource	
20. Name of Body of Water or Aquifer where effluent is to be discharged	
21. Sub-catchment Number (Effluent)	
22. Class of Water Resource (Effluent)	
23. Category of Application (Class of Permit)	
MIXING WATERS	
24. State the authorization(s) and permits already issued in respect of the water use on the land described in No. 4. (If NIL, state "Nil", if YES, list authorisation or permit numbers).	

Note: Shaded Areas to be filled in by WRA Officials

LAND	
25. Does applicant own all the land related to the permit application? Yes/No	
26. If No, have easement(s) been attached (Yes = 1, No = 0)	
27. Does application involve land located within or adjacent to a riparian, protected or groundwater conservation area? Yes/No	
28. Is proposed activity permitted within the riparian area, protected or groundwater conservation area? Yes/No	
OWNERSHIP OF WORKS	

29. Will the applicant own all the works related to the permit application?	
30. If No, have agreement(s) been obtained from owner(s) of all works and these agreements are adequate and are attached (Yes/No)	
SUPPLEMENT TO PERMIT/AUTHORISATION	
31. Is application made under section 21 of WRA Regulations? Yes/No	
32. Provide Permit Number for Main Permit	

#### QUANTITY WATER REQUIRED

33. Brief Description of Project Water	t and Intended	l Use for					
Type of Water Use		ter Surface Water (m³/day)					
	(m <sup>3</sup> /day)	River - Normal Condition	River - Flood Condition	River- Regulated Flows	Lake		
34. Public							
35. Domestic							
36. Livestock							
37. Subsistence Irrigation							
38. Commercial Irrigation							
39. Industry/Commercial							
40. Hydropower							
41. Others							
42. Sub-total							
43. Quantity Returned							

44. Water Used (row 41- row 42)									
45. Effluent Discharge									
PERIOD OF CONSTRUCTION									
46. State the estimated period o	46. State the estimated period of construction of the works (months)								
47. State the period for which the years)	e permit is re	equired (year– n	naximum 5						
DESCRIPTION OF WATER USE DO	OMESTIC								
Population to be served (numbe	r of people)								
Basic Human Needs (m³/day)									
Domestic Water Demand (m <sup>3</sup> /da									
LIVESTOCK									
Type of Livestock	Number of	Animals							
Number of Grade Cattle									
Number of Local Cattle or donk	eys								
Number of goats & sheep									
Number of camels									
Other									
PUBLIC PURPOSE									
Supply Area (km2)									

Population	
to be served	

#### SUBSISTENCE IRRIGATION –Water for Household Food Security

Number of connections	
Area per connection (ha)	
Total Irrigated Area (ha)	
Expected Rate of Water Use m <sup>3</sup> /ha/day	
Total Expected Water Requirements (m <sup>3</sup> /day)	

#### COMMERCIAL IRRIGATION

Type of Crop (hectares)	Type of Production System (Outdoor, GH, hydroponics)	Type of Irrigation Technology (overhead, micro-sprinkler, drip)	Expected Rate of Water Use m³/ha/day	Total Expected Water Requirements (m³/day)
TOTAL				

#### INDUSTRIAL

Number of Persons Employed	
Type of Industry (tick whichever is appropriate)	
Food Processing	Pulping (Coffee, sisal, sugar,)
Horticultural Packaging	Tea
Chemical Manufacturing	Bottling

Tanning		Others (state type)	
Water Requirements			
Water required for Plant/P	rocessing (m <sup>3</sup> /day)		
Water required for Sanitati	ion Facilities (m³/day)		
Water required for other p	urposes (m³/day)		
Total Water Requirements	(m <sup>3</sup> /day)		
POWER			
		<del>,</del>	

Maximum static head (m)	
Expected Power Generated (KVa-hr) at Maximum Static Head	

Fishponds (volume – m³)	
-------------------------	--

#### OTHER USES

#### FEES SUBMITTED

Category A, B, C or D Application	Fees for Examination of Application
AMOUNT PAID	
Receipt Number	

ATTACHMENTS	Attached (Yes/No)	Comments/Remarks
Form 1B		
Form 1C		
Form 1D		

Form 1E	
Form 1F	
Copy of Identification Documents	
Copy of Land Documents	
Copy of Agreements on Land Use	
Copy of Agreements on Use of Water Works	
Relevant Maps	
Copy of EIA Licence	
Site Assessment Report	
Technical Reports	
Hydrological Assessment Report	
Hydrogeological Survey Report	
Technical Design Report	
Dam Design Report	
Effluent Discharge Control Plan	
Soil and Water Conservation Plan	
Copy of Receipt for Payment	
WRUA Comment Form	

I agree to supply any further information which may be required by the Water Resources Authority.

SIGNATURE

Signature of Applicant or duly Authorised Agent	
Name	
Date of Application	

#### SIGNATURE OF WRA OFFICIAL RECEIVING APPLICATION

Signature of WRA Official	
Name	
Position	
Date Application Received	

#### OFFICIAL SECTION

(To be filled in by WRA officials)

	Tick	Date	Officer
Submission			
WRUA advice received			
Recommended Rejected Conditional Recommendation			
BWRC advice received			
Recommended Rejected Conditional Recommendation			
WRA National Office (Category D)			

	Recommended Rejected Conditional Recommendation			
W	RA Regional Office			
	Recommended Rejected			
Αι	uthorisation			
	Issue of Authorisation Validity Period (months) Expiry Extension of Validity Period (months) Revised Expiry Date Inspection of Final Completion			
Date of Issue of Permit				
Date of Expiry of Permit				
		L	L	I

#### SURFACE WATER - ABSTRACTION, DIVERSION, IN-STREAM AND CONVEYANCE WORKS

Grid Reference for Works (UTM ,	
based on ARC1960 Datum, Zone 36/37)	
Easting	
Northing	
Altitude (m above sea level)	
Map Sheet	

Details of Site Datum	
Grid Reference for Datum (UTM ,	
based on ARC1960 Datum, Zone 36/37)	
Easting	
Northing	
Altitude (m above sea level)	
Map Sheet	
Description of Datum	
Weir (1) or Collection Chamber (2)	
Dimensions	
Width/diameter (m)	
Length (m)	
Height (m)	
Materials	
Compensation Flow Capacity (m <sup>3</sup> /day)	
Pump	
Type of Pump	
Type of driving machine	
Power source of driving machine	
(diesel, electric, wind, water)	
Maximum Power rating (KVa)	
Expected operating head (m)	

Delivery Rate at expected operating head (m <sup>3</sup> /hr)	
Expected operating hours (hrs)	
Canal	
Length (m)	
Top width (m)	
Bottom width	
Lined or unlined	
Lining material	
Gradient (m/100m or %)	
Maximum velocity (m/s)	
Maximum Capacity (m <sup>3</sup> /day)	
Pipeline	
Internal diameter of delivery pipe	
Material	
Length (m)	
Maximum Capacity (m <sup>3</sup> /day)	
Any other relevant details	

STORAGE DAMS

Name of dam	
Class of Dam (SD1, SD2 or SD3)	
Grid Reference for Dam (UTM , based on ARC1960 Datum, Zone 36/37)	
Easting	
Northing	
Altitude (m above sea level)	
Map Sheet	
Details of Site Datum	
Grid Reference for Datum (UTM , based on ARC1960 Datum, Zone 36/37)	
Easting	
Northing	
Altitude (m above sea level)	
Map Sheet	
Description of Datum	
Spillway	
Catchment Area (km2)	
Design Flood (m <sup>3</sup> /s)	
Return Period for Spillway Design (1 inyears)	
Material of outflow channel	

Dimensions at control	
Width (m)	
Length (m)	
Height (m)	
Embankment	
Material (earth, concrete, masonry, others)	
Dimensions	
Width at Crest (m)	
Length at Crest (m)	
Upstream slope (1 to)	
Downstream slope (1 to)	
Maximum Depth of Water (Measured from bed to normal water level) (m)	
Maximum Height of Embankment (m)	
Gross Freeboard (m)	
Net Freeboard (m)	
Impoundment	
Estimated Area at Normal Water Level (m <sup>2</sup> )	
Estimated Impounded Volume (m <sup>3</sup> )	
Other Details	
Maximum Drawoff Capacity (m <sup>3</sup> /day)	

Maximum Compensation Flow capacity (m³/day)
---

#### GROUNDWATER - WELLS/BOREHOLES

	,	
Grid Reference for Abstraction Point (UTM, based on ARC1960 Datum, Zone 36/37)		
Easting		
Northing		
Altitude (m above sea level)		
Map Sheet		
Is the well or borehole within a distance of 100m of a body of surface water?		
List all Wells/Boreholes within 1000 m of proposed site	L.R. Number	Distance (m)
Expected Yield (m³/hr)		
Intended Depth of excavation or drilling (m)		
Intended Diameter of excavation or drilling (mm)		
Expected Type of draw off works (tick as appropriate)		
Handpump - Type		
Wind-pump - Type		

Electric pump	
Direct drive	
Windlass	

#### EFFLUENT DISCHARGE

Grid Reference for Effluent Discharge Point (UTM, based on ARC1960 Datum, Zone 36/37)	
Easting	
Northing	
Altitude (m above sea level)	
Map Sheet	
Source of water supply	
Source of Effluent(domestic, institutions, industrial, agricultural, urban)	
Mode of discharge (pipe, canal,)	
Maximum Daily Effluent discharge (m <sup>3</sup> /day)	
Details of Treatment System	
Chemical	
Settling	
Anaerobic digesters	
Oxidation or aerated ponds	
Natural or constructed Wetland	

Other (specify)	
Retention time (days)	
Nature of Pollutants (Chemical, biological, Physical)	

#### EFFLUENT QUALITY

Parameter	Units	Value
BOD (5 days at 20C)	mg/1	
COD	mg/1	
Total Dissolved Solids	mg/1	
рН	pH scale	
Temperature	°C	
Total Coliforms	Counts/100ml	
Turbidity or colour	NTU/Hazen	
Ammonia -NH <sub>3</sub>	mg/l	
Ammonium-NH <sub>4</sub>	mg/l	
Nitrite – NO <sub>2</sub>	mg/l	
Nitrate-NO <sub>2</sub>	mg/l	
Total Phosphorous	mg/l	
Total Nitrogen	mg/l	
Total suspended solids	mg/l	
Metals	mg/l	

Non metal toxics (sulphides, cyanides, fluorides)	mg/l	
Pesticide residues	μg/l	
Phenols	mg/l	
Oils and grease	mg/l	
Others		

#### SWAMP DRAINAGE

Name of swamp	
Size of swamp to be drained (ha)	
Purpose of swamp drainage (agricultural, residential, recreational, public health, industrial, abstraction)	
Means of swamp drainage (tick as appropriate)	
Channelling or canalisation of flows	
Diversion of inflow	
Expected % of inflow waters to be diverted	
Construction of drainage canals or drainage pipes	
Expected reduction in water level in swamp (m)	

Note: Form WRA 001B is required to be filled if swamp drainage is planned in conjunction with water abstraction or diversion

The Chief Executive Officer, Water Resources Authority, P.O. Box 45250 – 00100 NAIROBI

RESOU	Grid Reference for	Form:	WRA 013
	Works		
(a)	(UTM Arc 1960)		
156	Easting:	Catchment:_	
POTHORITE	Northing:	WRA ID:_	
	Zone:	File No:_	

Water Resources Authority

#### APPLICATION FOR EASEMENT

(To be submitted in triplicate) (Regulation 12)

PARTICULARS OF APPLICANT	DETAILS
11. Full name of applicant(s) (In Block Letters)	
12. Category of Applicant - Individual, Group [Association, Society], Company, Institution	
13. ID Number of Applicant (Individual) or Certificate of Incorporation or Registration for Groups or Companies	
14. PIN Number (where available)	
Physical Address where water is to be used	Contact Address of Applicant
15. L/R Number(s)	10. Box Number
16. Village(s)/Ward(s)	11. Town
17. Sub-location(s)	12. Post Code
18. Location(s)	13. Telephone Contact (Landline)
19. Division(s)	14. Telephone Contact (Mobile)

20. Dis	strict	c(s)		15. Email Contact	
property	 / ion v	vith the water f	[description	th the passage of water from the [Description and name of body of water] across of property] and in respect of an easement of the control of the control of water] are assement of storage in connection with water	f work in t the point
		-	[boo		
pı	rope	• •	[Descrip	agent lawfully authorized by the landholder] tion of property and L.R. (Nos) of farms (if any)	
2. T	he a	pplicant bases l	his claim for the easement o	n the following grounds <sup>1</sup>	
••					
			lan[s] marked		
W	hich	[an] easement	[s] is [are] now required and	ocality of the proposed works and the land or the area[s] within the lines shown in red on to ment[s] now applied for is [are] required.	
4.	(a)	The following required <sup>2</sup>	is a description of the work	[s] in respect of which [an] easement[s] is [are	e] now
	(b)	The maximum		veyed or dealt with by the aqueduct is cubic meters per day.	
	(c)	approximate a	area which will be submerge	eservoir are shown on the plan marked and the blue line thereon shows the dat high flood level of the reservoir, and the starea over which easement is claimed.	
	(d)	The easement	of aqueduct is required for	a period of	
		informatio	on on which the claim is bas	ation, or permit which applicant holds and all ed. Show that the claim is made in good faith or would not be economically feasible.	
			brief description, with dime h the easement is claimed.	nsions, of the proposed aqueduct and state tl	ne area of the lai
5.	(a)	_	is a description of the work	[s] in respect of which [an] easement[s] of wor	rk is [are]
	(b)	The quantity a		ired from the land referred to in paragraph (a works are as follows:—	a) above for

	(c)	The easement of work is required for a period of
6.	(a)	The following is a description of the work[s] in respect of which [an] easement [s] of storage is [are] $\operatorname{required}^4$
	(b)	The positions of the dam and the storage reservoir are shown on the plan marked
		And the blue line thereon shows the approximate area that will be submerged at high flood level of the reservoir, and the red line shown on the said plan shows the limit of area over which easement is claimed.
	(c)	The quantity and nature of materials required from the land for the purpose of constructing the proposed works referred to in paragraph (a) above are as follows:  —
		<sup>3</sup> Here give brief description, with dimensions, of the proposed weir or other work and state the area of land over which the easement is claimed.
		<sup>4</sup> Here give brief description, with dimensions, of proposed storage works and state the area of land over which the easement is claimed.
	(d)	The easement of storage is required for a period of
7.		e schedule attached to this form is set forth the names of the landholders, mortgages and lessees of operty over which the easement is claimed.
8.	not le	ordance with section 28 of the Act , notice with full particulars of the proposed works was given ss than two months before the date of this application given to all the landholders, mortgages and so named in the said schedule with the result shown in the attached Schedule:
9.	I have	e served a copy of this claim on all the landholders, mortgages and lessees mentioned in the attached lule.
	of thi	ose herewith Bankers Cheque No of Ksh centsfor an examination s application. I understand that the fee does not cover the preparation of the necessary deed in the of my application being successful.
	Signa	ture
		AFFIDAVIT
I	oi	f do solemnly and sincerely declare as follows:—
I have	read t	he foregoing and the particulars and things set out therein are true and accurate.
	e this d	leclaration conscientiously believing the same to be true, and according to the oaths and Statutory Act.
Sworr	at	
This .	•••••	day of20

Before me,
Magistrate or Commissioner for Oaths.)

#### NOTES

- 1. The applicant shall fill in the blank spaces in this form with the required information, and, where alternative expressions are given, he shall strike out those, which do not apply.
- 2. The area of land over which the easement is claimed must include the area of land, if any, occupied by the works, flooded as a result of the works, required for purposes of inspection and maintenance of the works, required for the excavation or collection of material for the works, required for the deposit of spoil or material derived from the works or required for a road or roads to obtain access to the works.
- The plans submitted must show clearly any works, irrigated and / or cultivated areas, roads, buildings and / or any other features which will be affected if the easement applied for is granted, and the area of swamp or land to be reclaimed.

#### SCHEDULE OF LANDHOLDERS, MORGAGEES AND LESSEES

Attached to the application of
For easement of dated 20
(Use additional sheets if required)

Reference Number of Property (consecu tively on plan)	L.R. No. of prop erty or No. of mining location or property	Name of person on whom notice has been served	State whether land- holder, mort- gagee or sublessee	Postal address of land- holder, mort- gagee or sub- lessee	Area of easement required (area in acres)	Amount of compensation tendered to landholder, mortgagee or sublessee	Purpose for which easement is required	to the	Signature  of land- holder, mortgagee or sub- lessee	Date of signa- ture

The Chief Executive Officer, Water Resources Authority, P.O. Box 45250 – 00100 NAIROBI		Works (UTM Arc 1960) Easting:		Form: WRA		_
	Wa	ter Resources	Authority			
COM	MENTS BY WRUA	A ON APPLIC	ATION FOR W	VATER PER	MIT	
(To be submitted in triplicate	e)			(Regula	ition 19)	
NAME OF WRUA						
PARTICULARS OF PERMIT	APPLICANT					
1. Full name of applicant(s) (In Block Letters)		I	WRA ID Numb pplicant	per of		
3. Box Number		4.	Town			
5. Telephone Contact (Landline)			Telephone Co Iobile)	ntact		
7. Email Contact						
WATER RESOURCE DETAILS						
Name of Body of Water or A		er is to be				

Type of Water Use	Surface Water				Groundwater		Effluent Discharge	Swamp Drainage
	Diversion	Abstraction	n In- stream Works	Storage	Shallow well	Borehole		
Tick Box								

WRUA COMMENTS	ANSWER / COMMENTS
1. Application was discussed by WRUA on (date)	
2. Is proposed application for water use likely to severely impact dry season flows?	
3. Is proposed application for water use likely to severely impact water quality?	
4. Is proposed application for water use likely to put public at risk?	
5. Is proposed application likely to increase the risk of water use conflicts?	
6. Is proposed application for water use considered beneficial to the public?	
7. Is there an alternative water source for the applicant that should be considered? (provide details)	
8. WRUA Conclusion (Objection, No objection, or Conditional No-Objection, or unable to make a conclusion due to lack of information)	
9. Reasons for Objection or Conditions for No-Objection	

#### SIGNATURE BY TWO WRUA OFFICIALS

Name of WRUA Official	
Position	

	of WRUA Offi	Cidi							
Date of Sig	gnature								
Officer, Vater Re Authority	, 45250 – 00	To the second se	HORITY	(UTI Eastin Northin	Wor M Ar ng:_ ng:_	rc 1960)	_ Catchi	Form: WRA 013  Catchment: WRA ID: File No:	
	AUT	HORIZATIO		Resourc		·	HE USE OF	WATER	
ear Sir/Ma	dam;								
have the ho								nl to construct th	e propose
have the ho	onour to inforn					for a V			e propose
have the ho orks based Authorizat Type of Water	onour to inforn on your applic					for a V			Swamp Drainag
have the hoverhas based  Authorizat  Type of	onour to inforn on your applic	cation dated .	· Water		Date	for a V	Vater Permit	Effluent Discharge	Swamp
have the ho orks based Authorizat Type of Water	onour to inform	Surface	· Water n In- stream		Date	d Grou	Vater Permit	Effluent Discharge	Swamp
Authorizat Type of Water Use	onour to inform	Surface Abstraction	· Water n In- stream		Date	d Grou	Vater Permit	Effluent Discharge	Swamp

4. ID Number of Applicant (Individual Incorporation or Registration for			
5. PIN Number (where available)			
Physical Address where water is t	o be used	Contact Address of Applicant	
6. L/R Number(s)		7. Box Number	
8. Village(s)/Ward(s)		9. Town	
10. Sub-location(s)		11. Post Code	
12. Location(s)		13. Telephone Contact (Landline)	
14. Division(s)		15. Telephone Contact (Mobile)	
16. District(s)		17. Email Contact	

#### WATER RESOURCE DETAILS

18. Name of Body of Water or Aquifer where water is to be diverted, abstracted or stored	
19. Is the point of abstraction or storage in a Protected Area or a Groundwater Conservation Area? (yes/no)	
20. Sub-catchment Number	
21. Class of Water Resource	
22. Name of Body of Water or Aquifer where effluent is to be discharged	
23. Sub-catchment Number (Effluent)	
24. Class of Water Resource (Effluent)	
25. Category of Application (Class of Permit)	

		Supplement to Permit/Authorisation
--	--	------------------------------------

26. Are there any supplem section 21 of WRA Regula						
27. Supplement No.						
28. Brief Description of Project and Intended Use for Water						
Type of Water Use	Groundw	Groundwat <b>g</b> urface Water (m³/day)				
	(m <sup>3</sup> / day)	River - Normal Condition	River - Flood Condition	River- Regulated Flow	Lake	
29. Public						
30. Domestic						
31. Livestock						
32. Subsistence Irrigation						
33. Commercial Irrigation						
34. Industry/ Commercial						
35. Hydro-power						
36. Others						
37. Sub-total						
38. Quantity Returned						
39. Water Abstracted (row 34-row 35)						
40. Effluent Discharge						

Having filed the necessary application, maps and plans, and having complied with the provisions of the Water Act 2016, and the Regulations there under relating to the applications for Water Permits \*is/are hereby authorized to construct, subject to the acquisition of the necessary rights of way or easements therefore, if any, the works shown by the said applications, maps and plans in accordance with provisions of the Water Act 2016, the Regulations there under, and the following conditions:—

- 2. (a) Any person who erects or constructs temporary works shall be entitled to divert, abstract, impound, obstruct, store or use water to such extent only as may be necessary for the construction or erection of the works, and whenever it shall be necessary to divert, abstract or impound water during the erection or construction of the works authorized, such diversion, abstraction, obstruction, impounding, or use of water shall be made at such time and in such manner that the works of other operators are interfered with as little as possible and that no damage will be caused to property of another landholder. Provided that if any damage is caused it shall, failing agreement between the parties concerned, be settled by arbitration under the Arbitration Act.
  - (b) Unless empowered thereto by the Water Resources Authority in writing, all temporary works shall be removed within a period of three months from the date of completion of the works authorized or from the date of determination of the authorization (whichever be the earlier) and where any temporary works exist, such as quarries, burrow-pits, excavations, cuttings, tunnels or things of a like nature which cannot be economically removed, efficient precautions to the satisfaction of the Water Resources Management Authority shall be taken, by the person named in the authorization, to render and to maintain all such temporary works safe in the interest of life and property.

The Water Resources Authority reserves the right to inspect the works authorized by this authorization, and attention is drawn to section 90 of the Act.

3. Any changes between the original proposed design and final as-constructed arrangement has been documented and such documentation submitted to the Authority.

\*Delete words not required

3. CONDITIONS OF AUTHORISATION	DETAILS
Measuring device	
Controlling device	
Water Quality Report	
Evidence of EMCA Compliance	
Soil and Water Conservation Plan	
Compensation Flow (m <sup>3</sup> /day)	
Inspection Milestones	

I	I
1	
2	
3	
4	
Notification Requirements	
1	
2	
3	
4	
Storage	
Airline	
Test pumping	
Other Technical Details	
Effluent Discharge Requirements	

- 4. This Authorization will be automatically cancelled, when the authorized period expires, without any further reference to you unless extension of time limit is applied for prior to date of expiry.
- 5. The following details/documents/fees are required to complete your application before a Permit may be issued:
  - (a) Form WRA 008 must be returned dully signed when works have been installed.
  - (b)
  - (c)

Water

Use

(d)					
SIGNATURE Yours faithful	lv.				
Tours raitinui					
Signature of	WRA Officer				
Name of Off	îcer				
Position					
Date of Sign	ature				
ne Chief Execu fficer,		Grid Reference Works		WRA 013	3
ater Resources uthority,		(UTM Arc 196) Easting:	0) Catchment:		_
O. Box 45250 AIROBI	-00100 THORITE	_	WRA ID:		
AIROBI		Zone:	File No:		-
		Water Resources Au	thority		
AI	PPLICATION FOR EXTENSI	ON OF TIME FOR AUT	HORISATION TO CONST	RUCT WORK	S
		(To be submitted in tr	iplicate)		
	, being the h ime in order to complete th		No, do hereby app	oly for an	
I confirm that	all other particulars of the	Authorisation remain	the same.		
The need to e	xtend the period of time ha	as been caused by (state	e cause)		
Type of	Surface Water		Groundwater	Effluent	Swamp

Drainage

Discharge

	Diversion	Abstraction	n In- stream Works	Storage	Shallow well	Borehole	
Tick Box							

PARTICULARS OF PERMIT APPLICANT		DETAILS	
1. Full name of applicant(s) (In Block Letters)		2.	
3. Category of Applicant - Individual, Group [Association, Society], Company, Institution			
4. ID Number of Applicant of Incorporation or Registr Companies			
5. PIN Number (where avai	lable)		
Physical Address where wa	ter is to be used	Contact Address of Applicant	
6. L/R Number(s)		7. Box Number	
8. Village(s)/Ward(s)		9. Town	
10. Sub-location(s)		11. Post Code	
12. Location(s)		13. Telephone Contact (Landline)	
14. Division(s)		15. Telephone Contact (Mobile)	
16. District(s)		17. Email Contact	

|--|

1	
19. Is the point of abstraction or storage in a Protected	
Area or a Groundwater Conservation Area? (yes/no)	
20. Sub-catchment Number	
21. Class of Water Resource	
22. Name of Body of Water or Aquifer where effluent is to be discharged	
23. Sub-catchment Number (Effluent)	
24. Class of Water Resource (Effluent)	
25. Status of Water Resource (Effluent)	
26. Category of Application (Class of Permit)	
FEES SUBMITTED	
Category A, B, C or D Class Application	Amount (KES)
Category A, D, C of D Glass Application	Amount (RES)
Application Fees for Extension of Time of Authorisation	Alliount (RES)
	Alliount (RES)
Application Fees for Extension of Time of Authorisation	Alliount (RES)
Application Fees for Extension of Time of Authorisation	Alliount (RE3)
Application Fees for Extension of Time of Authorisation  Receipt Number	Alliount (RE3)
Application Fees for Extension of Time of Authorisation  Receipt Number  Time Period for Construction	Alliount (RE3)
Application Fees for Extension of Time of Authorisation  Receipt Number  Time Period for Construction  Initial Authorisation Issued on (date)	Alliount (RE3)
Application Fees for Extension of Time of Authorisation  Receipt Number  Time Period for Construction  Initial Authorisation Issued on (date)  Authorisation Expiry Date	Alliount (RE3)
Application Fees for Extension of Time of Authorisation  Receipt Number  Time Period for Construction  Initial Authorisation Issued on (date)  Authorisation Expiry Date  Proposed Revised Authorisation Expiry Date	Alliount (KE3)
Application Fees for Extension of Time of Authorisation  Receipt Number  Time Period for Construction  Initial Authorisation Issued on (date)  Authorisation Expiry Date  Proposed Revised Authorisation Expiry Date  Number of Times that Period of Authorisation	Alliount (RE3)

Name	
Date of Application	

# SIGNATURE OF WRA OFFICIAL RECEIVING APPLICATION FOR EXTENSION OF TIME OF AUTHORISATION

Signature of WRA Official	
Name	
Position	
Date Application for Renewal Received	

## OFFICIAL SECTION

(To be filled in by WRA officials)

WRA Action	Decision	Date	Comment/Reference
Time Extension Accepted			
Rejected			
Conditional Acceptance			

Authorisation		
Valid until		
(date)		

The Chief Executive Officer, Water Resources Authority, P.O. Box 45250 – 00100 NAIROBI

RESON	Grid Reference for	Form:	WRA 013
18	Works		
	(UTM Arc 1960)		
£ /	Easting:	Catchment:_	
HORITA	Northing:	WRA ID:_	
	Zone:	File No:_	

Water Resources Authority

#### EXTENSION OF TIME LIMIT FOR AN AUTHORISATION

The period within which the works authorized by Authorization N	To P	, dated	, issued	to
Shall be completed is hereby extended, subject to the conditions e and to the under mentioned conditions, to the (date)	ndorsed on th :	e above mentio	oned authoriz	zation

Type of Water	Surface Wa	Surface Water (			Groundwater		Effluent Discharge	Swamp Drainage
SSC	Diversion	Abstraction	n In- stream Works	Storage	Shallow well	Borehole		
Tick Box								

PARTICULARS OF APPLICANT	DETAILS
1. Full name of applicant(s) (In Block Letters)	2.
3. Category of Applicant - Individual, Group [Association, Society], Company, Institution	

4. ID Number of Applicant (Individual) or Certificate of Incorporation or Registration for Groups or Companies	
5. PIN Number (where available)	
Physical Address where water is to be used	Contact Address of Applicant
6. L/R Number(s)	7. Box Number
8. Village(s)/Ward(s)	9. Town
10. Sub-location(s)	11. Post Code
12. Location(s)	13. Telephone Contact (Landline)
14. Division(s)	15. Telephone Contact (Mobile)
16. District(s)	17. Email Contact

18. Name of Body of Water or Aquifer where water is to be diverted, abstracted or stored	
19. Is the point of abstraction or storage in a Protected Area or a Groundwater Conservation Area? (yes/no)	
20. Sub-catchment Number	
21. Class of Water Resource	
22. Name of Body of Water or Aquifer where effluent is to be discharged	
23. Sub-catchment Number (Effluent)	
24. Class of Water Resource (Effluent)	

Use

	I			ı		
	25. Catego	ry of Application (Class of Pe	ermit)			
1.	This Extension SIGNATURE		bject to the special co	nditions shown below:		
	Signature	of WRA Officer				
	Name of Officer					
	Position of Officer					
	Date of Sig	gnature				
Office Wate Auth P.O.	Chief Exector, er Resource tority, Box 45250	es P	Water Resources Au	0) Catchment: WRA ID: File No:		-
			INSPECTION REI	PORT		
	Type of Water	Surface Water		Groundwater	Effluent Discharge	Swamp Drainage

	Diversion	Abstraction	n In- stream Works	Storage	Shallow well	Borehole	
Tick Box							

PARTICULARS OF OWNER OF WORKS OR LAND		DETAILS		
INSPECTED				
1. Full name of applicant(s) (In Block	Letters)	2.		
3. Category of Applicant - Individual, [Association, Society], Company, Insti				
4. ID Number of Applicant (Individual) or Certificate of Incorporation or Registration for Groups or Companies				
5. PIN Number (where available)				
Physical Address where water is to be	used	Contact Address Owner of Works or Land		
		Inspected		
6. L/R Number(s)		7. Box Number		
8. Village(s)/Ward(s)		9. Town		
10. Sub-location(s)		11. Post Code		
12. Location(s)		13. Telephone Contact		
		(Landline)		
14. Division(s)		15. Telephone Contact		
		(Mobile)		
16. District(s)		17. Email Contact		

18. Name of Body of Water or Aquifer where water is to be diverted, abstracted or stored	
19. Is the point of abstraction or storage in a Protected Area or a Groundwater Conservation Area? (yes/no)	
20. Sub-catchment Number	
21. Class of Water Resource	
22. Name of Body of Water or Aquifer where effluent is to be discharged	
23. Sub-catchment Number (Effluent)	
24. Class of Water Resource (Effluent)	
25. Category of Application (Class of Permit)	

# QUANTITY WATER AUTHORISED/PERMITTED

26. Description of Project and Intended Use for Water					
Type of Water Use	Groundwater	Surface Water (m	a <sup>3</sup> /day)		
	(m <sup>3</sup> /day)	River - Normal Condition	River - Flood Condition	River – Regulated Flow	Lake
27. Public					
28. Domestic					
29. Livestock					
30. Minor Irrigation					

1	I .		I .	I .	I .
31. General Irrigation					
32. Industry/ Commercial					
33. Power					
34. Others					
35. Sub-total					
36. Quantity Returned					
37. Water Abstracted					
(row 42-row 44)					
38. Effluent Discharge					
				Υ	
Remarks regardin	ng status,				
condition, compl	iance of works				
with authorisatio	n or permit				
conditions					
Recommended A	ction to be taken by	Owner of Works			
Recommended Ad	ction to be taken by				
SIGNATURE OF WI	RA OFFICIAL				
Signature of WRA	A Official				
Name					
Position					

Date Inspection Undertaken	

The Chief Executive Officer, Water Resources Authority, P.O. Box 45250 – 00100 NAIROBI

> Tick Box

RESOUR	Grid Reference for	Form:	WRA 013
	Works (UTM Arc 1960)		
SEE	Easting:	Catchment:_	
PUTHORITY	Northing:	WRA ID:_	
	Zone:	File No:_	

Water Resources Authority

#### **COMPLETION CERTIFICATE**

(To be submitted in triplicate)

I,(name) ......, being the holder of Authorisation to Construct
Works No. ...., do hereby state that the proposed Works have been constructed
in accordance with the conditions contained in the Authorisation. Any changes between the original proposed

design and fi Authority.	nal as-constri	ucted arrange	ment has bee	n documente	d and such do	ocumentation	submitted to	the
Type of Water	Surface Water			Groundwater		Effluent Discharge	Swamp Drainage	
Use	Diversion	Abstraction	n In- stream Works	Storage	Shallow well	Borehole		

PARTICULARS OF APPLICANT	DETAILS	
1. Full name of applicant(s) (In Block		
Letters)		

2. Category of Applicant - Individual, Group [Association, Society], Company, Institution			
3. ID Number of Applicant (Individual) or Certificate of Incorporation or Registration for Groups or Companies			
4. PIN Number (where avai	lable)		
Physical Address where water is to be used (see sketch)		Contact Address of Applica	nt
5. L/R Number(s)		6. Box Number	
7. Village(s)/Ward(s)		8. Town	
9. Sub-location(s)		10. Post Code	
11. Location(s)		12. Telephone Contact (Landline)	
13. Division(s)		14. Telephone Contact (Mobile)	
15. District(s)		16. Email Contact	

17. Name of Body of Water or Aquifer where water is to be diverted, abstracted or stored	
18. Is the point of abstraction or storage in a Protected Area or a Groundwater Conservation Area? (yes/no)	
19. Sub-catchment Number	
20. Class of Water Resource	
21. Name of Body of Water or Aquifer where effluent is to be discharged	
22. Sub-catchment Number (Effluent)	

23. Class	s of Water Resource (Effluent)	
24. Cate	gory of Application (Class of Permit)	

# QUANTITY WATER REQUIRED

25. Brief Description of Project and Intended Use for Water					
Type of Water Use	Groundwater	ater Surface Water (m³/day)			
	(m <sup>3</sup> /day)	River - Normal Condition	River - Flood Condition	River – Regulated Flow	Lake
26. Public					
27. Domestic					
28. Livestock					
29. Subsistence Irrigation					
30. Commercial Irrigation					
31. Industry/ Commercial					
32. Hydropower					
33. Others					
34. Sub-total					
35. Quantity Returned					

36. Water Abstracted (row 33-row 34)				
37. Effluent Discharge				
SIGNATURE				
Signature of App	licant or duly Autho	orised Agent		
Name				
Date of Applicati	on			
SIGNATURE OF W	RA OFFICIAL RECE	IVING COMPLETIO	ON CERTIFICATE	
Signature of WRA	A Official			
Name				
Position				
Date Application	Received			

The Chief Executive Officer, Water Resources Authority, P.O. Box 45250 – 00100 NAIROBI

Grid Reference for	Form:	WRA 013
Works		
(UTM Arc 1960)		
Easting:	_ Catchment:_	
Northing:	_ WRA ID:_	
Zone:	File No:	

Water Resources Authority

#### BOREHOLE COMPLETION RECORD

# (To be submitted in triplicate)

Borehole No	
Borehole Name	
Formation	

PARTICULARS OF APPLICANT			DETAILS		
1. Full name of applic	1. Full name of applicant(s) (In Block Letters)				
2. Category of Applic	ant - Individual, Group	)			
[Association, Society]	], Company, Institution	ı			
3. ID Number of Appl	licant (Individual) or C	ertificate			
of Incorporation or R	egistration for Groups	or Companies			
Physical Address who	ere water is to be used		Contact Address of Applicant		
4. L/R Number(s)			5. Box		
			Number		
6. Village(s)/ Ward(s)			7. Town		
8. Sub-location(s)			9. Post Code		
10. Location(s)			11. Telephone		
			Contact (Landline)		
12. Division(s)			13. Telephone Contact		
			(Mobile)		
14. District(s)			15. Email Contact		
PARTICULARS OF CO	PARTICULARS OF CONTRACTOR				
16. Box Number			Licence Number		

17. Town	Gazetted On	
18. Post Code	Drilling	
	Supervisor	
19. Telephone Contact (Landline)	Type and Make of Drill Rig	
20. Telephone Contact		
(Mobile)		
21. Email Contact		
INTENDED USE OF WATER		
Public W.S.; Irrigation.; Industries.;		
Domestic.; Stock, other		
PARTICULARS OF BOREHOLE		
Type of Borehole: - Drilled; Driven; Bored;		
Jetted; Other		

Borehole Construction 3)	a (also <i>see</i> sketch page	
Drilling started (date)	Drilling completed (date)	All work completed (date)
Total  Depth: Reported (m)	Measured (m)	Final (back- filled)  Depth (m)
Hole Diameter (mm)	From (m)	To (m)

Hol Dia (mı	meter		From (m)			To (m)	
Hol Dia (mı	meter		From (m)			To (m)	
Hol Dia (mı	meter		From (m)			To (m)	
Per	manent Casing						
Pla	in						
Тур	oe	Diam (mm)		Length (m)	From (m)		To (m)
Тур	pe	Diam (mm)		Length (m)	From (m)		To (m)
Тур	pe	Diam (mm)		Length (m)	From (m)		To (m)
Slo	tted or Perforated:						
	e I Description of enings						
Тур	pe	Diam (mm)		Length (m)	From (m)		To (m)
Тур	pe	Diam (mm)		Length (m)	From (m)		To (m)
Scr	een:						

Type and	Make											
Diameter (mm)			Len				set from (m)			To (m)	)	
Gravel Pa	ck											
Size of grains (mm)						ndness d, fair, )			Volume in annu (m3)			
					From	n (m)			To (m)			
Open Hole												
Diam (mm)				Fr (n	om ı)			To (m	)			
Aquifer								_				
1st Water (m)	Struck	at				Water Res	st Level					
2nd Water at (m)	r Struck					Water Res	st Level					
Main Aquifer St (m)	ruck at					Water Res	st Level					
Water bearing material		,		Fr (m	om ı)			To (m	)			

Other					
Aquifers, Remarks, etc					
(also see log on page3)					
Yield: SWL (m)	PWL (m below surface)			Discharge (litres per	minute)
After pumping (hours)		Recovered (minutes)	l to SWL in		
Expected production discharge (litres per hour)		With pump set	at (m below	r surface)	
Pumping  Test Record in Summar below ground surface)	ry (Detailed test recor	rds on attac	hed sheets)	: (all depth measureme	ents to be in metres
			Test No. 1		Test No. 2
Date of Test (day, month, ye	ar)				
Depth of Borehole at ti	me of test (m)				
Water Entry (perforations or	screen setting at time	e of test)	From (m)		From (m)
			To (m)		To (m)
Static Water (SWL) bef	ore test (m)				
Type of Pump (Bailler)	used				
Depth of Pump intake	(m)				
Discharge (in litres per	minute)				

Pumping Water Level (	WL m)					
After pumping continu	ously for (ho	urs)				
Time of Recovery to Or	ginal SWL (1	minutes)				
Rate of Recovery-WL a	er 5 minute	s (m)				
Rate of Recovery-WL a	er 20 minut	es (m)				
Rate of Recovery-WL a	ter 60 minut	res (m)				
Rate of Recovery-WL a	ter 180 minu	ites (m)				
(Additional pumping tests to be mentioned in REMARKS and included with file). Government representative witnessing the test						
Quality of Water	Quality of Water					
Sample (Yes/ No)		Collected at (hour)		On (date	e)	
Sediment		Taste		Odour		
Colour		Temperature (0c)		Spec. Conduc (Dmho/		
ļ.		J	I	ļ		Į.
Remarks: (drilling difficulties, gravel-pack details, all pertinent information about the drilling and completion of the hole)						
Drilling Supervisor			Drilling Contractor			
Signature			Signature			
Name		Name				

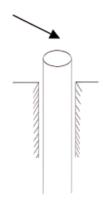
Date	Date	

Borehole No .....

1. Driller's Log.

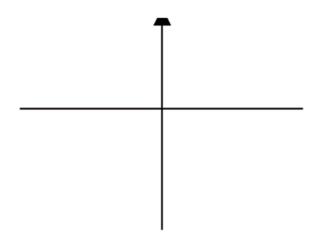
12	Sketch	of Ron	ehole	Construction:
12.	SKELLII	וטם וע	enore	CONSTITUCTION.

	1	D.:III:	December
From	То	Drilling	Description
(m.)	(m.)	Rate	of Formation
		(m./hr.)	Penetrated
		Total depth	
		(Sketch to	include: - depth
		and changes	of hole
		diameter;	casing
		positions,	manner of
		casing (of	different diam.)
		connections,	and casing
		connection	to screen;
		depths	of screens or
		slotted	casing lengths;
		how casing	is closed at
		bottom;	formation caving
		zones; and	and any other



Remarks or additional information on Driller's log, or on sketch of Borehole:	

13. *Location Sketch*: (To be sketched by the driller on the site, showing roads, tracks and prominent land marks, with road distances t nearest town or trading centre and to water source).



For	<u>Official</u>	<u>Use</u>	On:	ly

Entered on Schedule (Yes/No) Water Sample Received (Yes/No)
Drilling Samples Received(Yes/No) Chemical Analysis Received (Yes/No)
Drilling Samples Filed (Yes/No) Geologist's Log Available(Yes/No
Location Plotted on Maps (Yes/No)
Hydro geological Report No of (Date)
Geophysical Curve Noof(Date)
Borehole Data entered and checked by (Name) Signature
Permit details
Permit Number
Authorised water use(s)
Pump intake depth m bgl Maximum authorised abstraction rate $m^3/hr$

All Borehole Completion Records duly completed should be sent to the appropriate WRA Regional Office.

\_\_\_\_\_

The Chief Executive Officer, Water Resources Authority, P.O. Box 45250 – 00100 NAIROBI

RESOL	Grid Reference for	Form:	WRA 013
E	Works		
	(UTM Arc 1960)		
55E 1	Easting:	Catchment:	
THORITA	Northing:	WRA ID:_	
	Zone:	File No:	

Water Resources Authority

## WELL COMPLETION RECORD

(To be submitted in triplicate) (Regulation 76,77)

Well Authorisation No			
Well Name			
Geological formation			
PARTICULARS OF APPLIC	DETAILS		
21. Full name of applicant	(s) (In Block Letters)		
22. Category of Applicant	- Individual, Group		
[Association, Society], Con	npany, Institution		
23. ID Number of Applican or Registration for Groups	t (Individual) or Certificate of Incorporation or Companies		
Physical Address where wa	ter is to be used (see sketch)	Contact Address of Applicar	nt
24. L.R Number(s)		10. Box Number	
25. Village(s)/ Ward(s)		11.Town	
26. Sub-location(s)		12. Post Code	
27. Location(s)	13. Telephone Contact (Landline)		

Well Diameter (mm)

Well Diameter (mm)

28. Division(s)					Telephone Contact bile)		
29. District(s)				15. 1	15. Email Contact		
PARTICULARS OF CONTRA	CTOR (IF A	PPLICABLE)					
16. Box Number				22. 1	Email Contact		
17. Town				23. 1	23. Licence Number		
18. Post Code				24. 0	24. Gazetted on		
19. Telephone Contact (Landline)					Drilling ervisor		
20. Telephone Contact (Mob	oile)						
INTENDED USE OF WATER							
Public; Irrigation; Industry;	Domestic;	Livestock; other					
PARTICULARS OF WELL							
Type of Well: Hand-dug; Ma	chine-dug;	Other					
Well Construction (also see I	Figure 1)						
			Y		T	T	
Construction started (date)		Construction completed (date)			All works completed (date)		
Total Depth: Reported (m)		Measured (m)			Final (back- filled) Depth (m)		
Well Diameter (mm)	]	From (m)			To (m)		

From (m)

From (m)

To (m)

To (m)

Hole Di	amete	er (mn	1)		From (m) To (m)										
Perman	ent Li	ning v	where r	elevant (if	well is	not li	ined, state "unli	ned" ir	the b	ox bel	ow)				
Plain															
Туре			Diam	ı (mm)			Length (m)		Fron	n		To (n		n)	
Туре			Diam	ı (mm)			Length (m)		From (m)			To (n		n)	
Type			Diam	ı (mm)			Length (m)		Fron	n			To (r	n)	
Screens	or eq	uivale	nt whe	re relevant	(if we	ell is n	ot lined, state "ı	unlined	l" in tl	he box	belov	v)			
Size/ De	escript	tion of	f Openi	ings											
Туре			Diam	ı (mm)	Length (m)		Length (m)		From (m)			To (n		n)	
Туре			Diam	ı (mm)			Length (m)		From (m)			To (m)		n)	
Gravel I	Pack				l										J
Size of grains (mm)							ndness (good, poor)				annul	serted ar spa			
From (n	n)					To (1	m)								
Open H	Open Hole														
Diam (mm) From (m)						To (r	n)								
Aquifer															
Water Struck at (m)  Water Rest Level (m)															

Water bearing material		From (m)	To (m)	
Other Aquifer etc. (also see l 4), technical i (specific capa transmissivity	og on page nformation city,			

Pumping Test Record in Summary (detailed test records on attached sheets): (all depth measurements to be in metres below ground surface)						
Information to be provided	Test No. 1	Test No. 2				
Date of test (day, month, year)						
Depth of well at time of test						
Water Entry (aquifer zone)	From:	From:				
	То:	To:				
Static water level (SWL) before test						
Type of pump or bailer used						
Depth of pump intake						
Discharge (in m <sup>3</sup> /hr)						
Distance from well to point of discharge of water pumped						
Pumping water level (PWL) at end of test						
After pumping continuously for (hours)						
Time of recovery to start SWL (minutes)						
Rate of recovery – WL after 5 minutes						
Rate of recovery – WL after 20 minutes						

Rate of recovery	– WL after	60 min	utes				
Rate of recovery	– WL after	180 mi	nutes				
Full test data an	d curves to	be appe	nded to this fo	rm			
				below and included in th	ne file). Au	ıthority	
Quality of Water		,					
Sample (Yes/ No)				Collected at (hour)		On (date)	
Sediment			Taste			Odour	
Colour	Colour			Temperature (°C)		Electrical Conductivity (DS/cm)	
Full chemical an	d bacteriol	ogical d	ata to be apper	nded to this form	·		
Remarks: (Construction di any pertinent in the construction of the well)	formation	about					
					·		
Drilling Superviso	or			Drilling Contracto	r		
Signature				Signature			
Name				Name			
Date				Date			
Vell Number							
Vell Name							

From (m)	To (m)	Description of Formation Penetrated	From (m)	To (m)	Description of Formation Penetrated

***************************************	• • • • • • • • • • • • • • • • • • • •
Remarks or additional information on Driller's log, or c	on sketth of well.

Figure 1 Sketch of Well Construction:

(Sketch to include: details of well headworks and sanitary protection; depths and changes of hole diameter; lining positions, type and diameter of lining and related information if applicable; location of aquifer (and screens if applicable); if casing closed at bottom, show how; formation caving zones; and any other pertinent information).

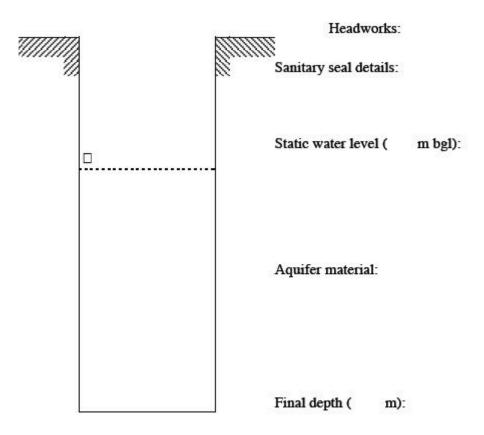
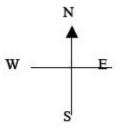


Figure 2 Location Sketch:

(To be sketched by the constructor or applicant on-site, showing latrines, septic tanks or sewerage network and distances; roads, tracks and prominent land marks; road distances to nearest town or trading centre and to nearest alternative water source).



#### For Official Use Only: complete as applicable

Hydrogeolog	gical report No	of	. ( <i>Date</i> ) by	(Nar	ne)			
Geophysical	Curve No	of( <i>Date</i> ) by	у	(Name)				
Well data en	Well data entered and checked by (Name) Signature							
Permit detai	ls							
Permit Num	ber	Authorised abstra	ction	m <sup>3</sup> /d				
Authorised v	water use(s)							
Pump intake	depth	m bgl Maximum autl	horised abstrac	ction rate N	1 <sup>3</sup> /hr			
				_				
All Well Com	npletion Records	duly completed sho	uld be sent to	the appropriat	e WRA Re	gional Office.		
The Chief	Executive	RESO	Grid Refe	rence for	Fo	orm: WR	A 013	
Officer,			Wor					
Water Res Authority,		3	(UTM A	rc 1960)	Catchm	ent:		
	, 45250 – 0010	ONTHORITY	_			ID:		
NAIROBI	[					No:		
		Wate	r Resources Au	thority				
		•	WATER PERM	IT				
D	.1 .1	. 1. 1 .1		.1 717 . 75				
By virtue of tunto (name)		sted in us by the Wat ereinafter called the						
	nission to use wa	ter in accordance wi ulations thereunder,	th the details	contained here	ein, subjec	t to the provis	ions of the	
attached her		ulations thereunder,	and the condi	tions ionowing	gnerearte	i and endorsed	i nereon and	
Permit No.	P		Perm	iit Expiry Date				
m c	Courte TAT		,	C 1		T.C.C.	G	
Type of Water	Surface Water			Groundwate	Γ	Effluent	Swamp	
Use						Discharge	Drainage	

	Diversion	Abstraction	n In- stream Works	Storage	Shallow well	Borehole	
Tick Box							

PARTICULARS OF PERMIT	HOLDER	DETAILS	
1. Full name of applicant(s	) (In Block Letters)		
2. Category of Applicant - [Association, Society], Com			
3. ID Number of Applicant of Incorporation or Registr Companies			
4. PIN Number (where avai	lable)		
Physical Address where wa	ter is to be used	Contact Address of Applica	ınt
5. L/R Number(s)		6. Box Number	
7. Village(s)/Ward(s)		8. Town	
9. Sub-location(s)		10. Post Code	
11. Location(s)		12. Telephone Contact (Landline)	
13. Division(s)		14. Telephone Contact (Mobile)	
15. District(s)		16. Email Contact	

|--|

18. Is the point of abstraction or storage in a Protected							
Area or a Grou	Area or a Groundwater Conservation Area? (yes/no)						
19. Sub-catchr	19. Sub-catchment Number						
20. Class of Water Resource							
21. Name of Body of Water or Aquifer where effluent is to be discharged							
22. Sub-catchr	22. Sub-catchment Number (Effluent)						
23. Class of Water Resource (Effluent)							
24. Category of Application (Class of Permit)							
		'				,	
SUPPLEMENT TO PERMITS							
25. Does permit include Supplements approved under section 21 of WRA Regulations (yes/no)							
26. List							
Reference Nun	nber for each						
Supplement							
Brief							
Description of Project							
and Intended							
Use for Water							
Type of	Groundwater	Surface Water	(m³/day)				
Water Use	(m <sup>3</sup> /day)						
		River - Normal	River - Flood Condition	River – Regulated	Lake		
		Condition			Flow		
1. Public							
	I	I.		J	J.	l .	

2. Domestic			
3. Livestock			
4. Subsistence Irrigation			
5. Commercial Irrigation			
6. Industry/ Commercial			
7. Hydropower			
8. Others			
9. Sub-total			
10. Quantity Returned			
11. Water Abstracted			
(row 9-row 11)			
12. Effluent Discharge			
13. Basic Human Needs			

CONDITONS OF PERMIT	DETAILS
Availability of Resource	When the resource availability drops into the
	Reserve, the permit holder is only entitled to Basic
	Human Needs

Water Quality Report	
Payment of Water Use Charges	
Inspections	
1	
2	
3	
4	
Other Technical Details	
Effluent Discharge Requirements	
Meter ID Numbers Related to this permit	
1.	
2.	
3.	

SURFACE WATER - ABSTRACTION, DIVERSION, IN-STREAM AND CONVEYANCE WORKS

Grid Reference for Works (UTM ,	
based on ARC1960 Datum, Zone 36/37)	

Easting	
Northing	
Altitude (m above sea level)	
Map Sheet	
Weir (1) or Collection Chamber (2)	
Dimensions	
Width/diameter (m)	
Length (m)	
Height (m)	
Materials	
Compensation Flow Capacity (m <sup>3</sup> /day)	
Pump	
Type of Pump	
Type of driving machine	
Powersource of driving machine (diesel, electric, wind, water)	
Maximum Power rating (KVa)	
Expected operating head (m)	
Delivery Rate at expected operating head (m <sup>3</sup> /hr)	
Expected operating hours (hrs)	
Canal	

Length (m)	
Top width (m)	
Bottom width (m)	
Lined or unlined	
Lining material	
Gradient (m/100m or %)	
Maximum velocity (m/s)	
Maximum Capacity (m <sup>3</sup> /day)	
Pipeline	
Internal diameter of delivery pipe (mm)	
Maximum Capacity (m <sup>3</sup> /day)	

## GROUND WATER

Grid Reference for Works (UTM , based on ARC1960 Datum, Zone 36/37)	
Easting	
Northing	
Altitude (m above sea level)	
Map Sheet	
W.R.M.A. number of well/ borehole	
Total depth of well/ borehole	

|--|

## STORAGE DAM

Name of dam	
Class of Dam (A, B or C)	
Grid Reference for Dam (UTM , based on ARC1960 Datum, Zone 36/37)	
based off Arcc1700 Datum, Zone 30/31)	
Easting	
Northing	
Altitude (m above sea level)	
Map Sheet	
Spillway	
Dimensions at control	
Width (m)	
Length (m)	
Height (m)	
Embankment	
Material (earth, concrete, masonry, others)	
Dimensions	
Width at Crest (m)	
Length at Crest (m)	
Upstream slope (1 to)	

Downstream slope (1 to)	
Maximum Depth of Water (Measured from bed to normal water level) (m)	
Maximum Height of Embankment (m)	
Gross Freeboard (m)	
Net Freeboard (m)	
Impoundment	
Estimated Impounded Volume (m3)	
Other Details	
Maximum Drawoff Capacity	
(m <sup>3</sup> /day)	
Maximum Compensation Flow capacity	
(m <sup>3</sup> /day)	
SWAMP DRAINAGE	
Name of swamp	
Size of swamp to be drained (ha)	
Purpose of swamp drainage (agricultural, residential, recreational, public health, industrial, abstraction)	
Means of swamp drainage (tick as appropriate)	
Channelling or canalisation of flows	
Diversion of inflow	
Expected % of inflow waters to be diverted	

Construction of drainage canals or drainage pipes	
Expected reduction in water level in swamp (m)	
EFFLUENT DISCHARGE	
Grid Reference for Effluent Discharge Point (UTM, based on ARC1960 Datum, Zone 36/37)	
Easting	
Northing	
Altitude (m above sea level)	
Map Sheet	
Source of water supply	
Source of Effluent(domestic, institutions, industrial, agricultural, urban)	
Mode of discharge (pipe, canal,)	
Maximum Daily Effluent discharge (m³/day)	
Details of Treatment System	
Chemical	
Settling	
Anaerobic digesters	
Oxidation or aerated ponds	
Natural or constructed Wetland	
Other (specify)	

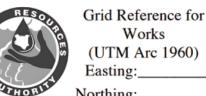
Retention time (days)	
Nature of Pollutants (Chemical, biological, physical)	

# EFFLUENT QUALITY

Parameter	Units	Guideline Value	Parameter	Units	Guideline Value
BOD (5 days at 20C	mg/		Total Phosphorous	mg/l	
COD	mg/1		Total Nitrogen	mg/l	
Total Dissolved Solids	mg/1		Total suspended solids	mg/l	
рН	pH s c a l e		Metals	mg/l	
Temperature	° C		Non metal toxics(sulphides, cyanides, fluorides)	mg/l	
Total Coliforms	Counts/100ml		Pesticide residues	μg/l	
Turbidity or colour	NTU/Hazen		Phenols	mg/l	
Ammonia - NH3	mg/l		Oils and grease	mg/l	
Ammonium- NH4	mg/l		Others		
Nitrite – NO2	mg/l				
Nitrate-NO3	mg/l				

SIGNATURE							
Yours faithfully,							
Signature of WRA	\ Officer						
Name of Officer							
Position of Office	r						
Date of Signature							

The Chief Executive Officer, Water Resources Authority, P.O. Box 45250 – 00100 NAIROBI



Grid Reference for Form: WRA 013
Works
(UTM Arc 1960)

Easting: Catchment: WRA ID:

Zone:\_\_\_\_\_

File No:\_\_\_\_\_

Water Resources Authority

#### APPLICATION FOR RENEWAL OF WATER PERMIT

#### (To be submitted in triplicate)

I, the undersigned hereby apply for renewal of the Permit No. .....

*I, certify that the works have been maintained and the water used in accordance with the provisions of the permit referred to above.* 

Type of Water Use	Surface Water			Groundwater		Effluent Discharge	Swamp Drainage	
	Diversion	Abstraction	n In- stream Works	Storage	Shallow well	Borehole		
Tick Box								
Attach Form	1B	1B	1B	1C	1D	1D	1E	1F

PARTICULARS OF APPLICANT	DETAILS
1. Full name of applicant(s) (In Block Letters)	2.
3. Category of Applicant - Individual, Group [Association, Society], Company, Institution	
4. ID Number of Applicant (Individual) or Certificate of Incorporation or Registration for Groups or Companies	
5. PIN Number (where available)	
Physical Address where water is to be used	Contact Address of Applicant
6. L/R Number(s)	7. Box Number
8. Village(s)/Ward(s)	9. Town
10. Sub-County(s)	11. Post Code

12. County(s)	13. Telephone Contact (Landline)	
	14. Telephone Contact (Mobile)	
	15. Email Contact	

## WATER RESOURCE DETAILS

16. Name of Body of Water or Aquifer where water is to be diverted, abstracted or stored	
17. Is the point of abstraction or storage in a Protected Area or a Groundwater Conservation Area? (yes/no)	
18. Sub-catchment Number	
19. Class of Water Resource	
20. Name of Body of Water or Aquifer where effluent is to be discharged	
21. Sub-catchment Number (Effluent)	
22. Class of Water Resource (Effluent)	
23. Category of Application (Class of Permit)	

Note: Shaded Areas to be filled in by WRA Officials

# QUANTITY WATER REQUIRED

24. Description of Project and Intended Use for Water					
Type of Water Use	Groundwater (m³/day)	Surface Wate  River - Normal  Condition	r (m <sup>3</sup> /day)  River - Flood  Condition	River – Regulated Flow	Lake

25. Public			
26. Domestic			
27. Livestock			
28. Subsistence Irrigation			
29. Commercial Irrigation			
30. Industry/Commercial			
31. Hydropower			
32. Others			
33. Sub-total			
34. Quantity Returned			
35. Water Abstracted			
(row 42-row 44)			
36. Effluent Discharge			

# FEES SUBMITTED

Category A, B, C or D Class Permit	Amount (KES)
Permit Fees	
AMOUNT PAID	
Receipt Number	

# SIGNATURE

Signature of Applicant or duly Authorised Agent	
Name	

Date of Application						
SIGNATURE OF WRA OFFIC	CIAL RECEIVING PE	RMIT REI	NEWAL APPLICATI	ON		
Signature of WRA Official						
Name						
Position						
Date Application for Rene	wal Received					
OFFICIAL SECTION (To be t	filled in by WRA offic	cials)				
WRA Action	Decision		Date		Comme	ent/Reference
Recommended						
Rejected						
Conditional Recommendation						
Permit Renewed until (date)						
The Chief Executive Officer, Water Resources Authority, P.O. Box 45250 – 0010 NAIROBI	RESOUPE B	Grid (UT Easti North	Reference for Works M Arc 1960) ing:	_ Catch	A ID:_	

# Water Resources Authority

## APPLICATION FOR VARIATION OF WATER PERMIT

(To be submitted in triplicate)

	ly for a variati			•••••	•••••	, the holde	er of Permi	it N	0	, do
	vary the perr			tate ca	use)					
Which iter	n(s) of the are changing?	Original	Value		New	Value		С	omments	
					ļ.					
Type of Water	Surface Wa	ter				Groundwa	ter		Effluent Discharge	Swamp Drainage
Use	Diversion	Abstraction	n In- stream Works	Stora	age	Shallow well	Borehol	e		
Tick Box										
				ļ	1		l	'		
PARTICUI	LARS OF PERM	MIT HOLDER			DETA	AILS				
1. Full naı	ne of applicar	nt(s) (In Bloc	k Letters)							
	ry of Applican on, Society], (									

3. ID Number of Applicant of Incorporation or Registr Companies			
4. PIN Number (where avai	lable)		
Physical Address where wa	ter is to be used	Contact Address of Applica	int
5. L/R Number(s)		6. Box Number	
7. Village(s)/Ward(s)		8. Town	
9. Sub-County(s)		10. Post Code	
11. County(s)		12. Telephone Contact (Landline)	
		13. Telephone Contact (Mobile)	
		14. Email Contact	

## WATER RESOURCE DETAILS

15. Name of Body of Water or Aquifer where water is to be diverted, abstracted or stored	
16. Is the point of abstraction or storage in a Protected Area or a Groundwater Conservation Area? (yes/no)	
17. Sub-catchment Number	
18. Class of Water Resource	
19. Name of Body of Water or Aquifer where effluent is to be discharged	
20. Sub-catchment Number (Effluent)	
21. Class of Water Resource (Effluent)	

Rejected

22. Category of Application	n (Class of			
Permit)				
FEES SUBMITTED				
Category A, B, C or D Class	s Permit		Amount	t (KES)
Application Fees for Variat	ion			
Receipt Number				
SIGNATURE				
Signature of Applicant or d	luly Authorised Agent			
Name				
Date of Application	Date of Application			
SIGNATURE OF WRA OFFICIAL RECEIVING APPLICATION TO VARY PERMIT				
Signature of WRA Official				
Name				
Position				
Date Application for Variat	cion Received			
OFFICIAL SECTION  (To be filled in by WRA officia	ls)			
WRA Action	Decision	Date		Comment/Reference
Variation Accepted				

Conditional Acceptance		
Permit Valid until (date)		

The Chief Executive Officer, Water Resources Authority, P.O. Box 45250 – 00100 NAIROBI

SOUR	Grid Reference for	Form:	WRA 013
TE.	Works		
	(UTM Arc 1960)		
	Easting:	Catchment:_	
RIGI	Northing:	WRA ID:_	
	Zone:	File No:_	

Water Resources Authority

#### APPLICATION FOR TRANSFER OF WATER PERMIT

 $(To\ be\ submitted\ in\ triplicate)$ 

I, (name)	, ,	•
I confirm that all other particulars of the Permit remain th		
The need to transfer the permit has been caused by (state	cause)	

Type of Water Use	Surface Wa	ter			Groundwat	er	Effluent Discharge	Swamp Drainage
	Diversion	Abstraction	n In- stream Works	Storage	Shallow well	Borehole		
Tick Box								

PARTICULARS OF <u>CURRENT</u> PERMIT HOLDER		DETAILS	
1. Full name of applicant(s) (In Block Letters)			
2. Category of Applicant - Individual, Group [Association, Society], Company, Institution			
3. ID Number of Applicant of Incorporation or Registr Companies			
4. PIN Number (where avai	ilable)		
Physical Address where wa	ter is to be used	Contact Address of Applica	nnt
5. L/R Number(s)		6. Box Number	
7. Village(s)/Ward(s)		8. Town	
9. Sub-County(s)		10. Post Code	
11. County(s)		12. Telephone Contact (Landline)	
13. Division(s)		14. Telephone Contact (Mobile)	
15. District(s)		16. Email Contact	

PARTICULARS OF <u>PROPOSED</u> PERMIT HOLDER	DETAILS
17. Full name of applicant(s) (In Block Letters)	
18. Category of Applicant - Individual, Group [Association, Society], Company, Institution	

19. ID Number of Applicant (Individual) or Certificate of Incorporation or Registration for Groups or Companies	
Physical Address where water is to be used	Contact Address of Applicant
20. L/R Number(s)	21. Box Number
22. Village(s)/Ward(s)	23. Town
24. Sub-County(s)	25. Post Code
26. County(s)	27. Telephone Contact (Landline)
	28. Telephone Contact (Mobile)
	29. Email Contact

## WATER RESOURCE DETAILS

30. Name of Body of Water or Aquifer where water is to be diverted, abstracted or stored	
31. Is the point of abstraction or storage in a Protected Area or a Groundwater Conservation Area? (yes/no)	
32. Sub-catchment Number	
33. Class of Water Resource	
34. Name of Body of Water or Aquifer where effluent is to be discharged	
35. Sub-catchment Number (Effluent)	
36. Class of Water Resource (Effluent)	
37. Category of Application (Class of Permit)	

# FEES SUBMITTED

Category A, B, C or D Class Permit	Amount (KES)
Application Fees for Transfer of Permit	
Receipt Number	

## SIGNATURE

Signature of Applicant or duly Authorised Agent	
Name	
Date of Application	

## SIGNATURE OF WRA OFFICIAL RECEIVING PERMIT TRANSFER APPLICATION

Signature of WRA Official	
Name	
Position	
Date Application for Renewal Received	

# OFFICIAL SECTION

(To be filled in by WRA officials)

WRA Action	Decision	Date	Comment/Reference
Transfer Accepted			
Rejected			
Conditional Acceptance			
Permit Valid until (date)			

#### APPLICATION FOR SEARCH OF WATER PERMIT

I. (name)	, request the Water Resources Authority to provide me with
a copy of the Water Permit in respect of the person or parc	
possible):	

PARTICULARS OF PERMIT HOLDER		DETAILS		
Full name of Permit Holder(s) (In  Block Letters)				
2. Category of Permit Holder - Individual, Group [Association, Society], Company, Institution				
3. Permit Number				
Physical Address where water is being used		Contact Address of Permit Holder		
4. L/R Number(s)		5. Box Number		
6. Village(s)/Ward(s)		7. Town		
8. Sub-location(s)		9. Post Code		
10. Location(s)		11. Telephone Contact (Landline)		
12. Division(s)		13. Telephone Contact (Mobile)		
14. District(s)		15. Email Contact		

# WATER RESOURCE DETAILS

16. Name of Body of Water or Aquifer where water is diverted, abstracted or stored	
17. Sub-catchment Number	
18. Name of Body of Water or Aquifer where effluent is discharged	

Date of Application

19. Sub-catchment Number (Effluent)	
FEES SUBMITTED	
	Amount (KES)
Search Fees	
Receipt Number	
SIGNATURE	
Signature of Applicant or duly Authorised Agent	
Name	

# ASSESSMENT OF WATER USE AND CHARGES

# (To be submitted in triplicate)

PARTICULARS OF APPLICANT	DETAILS		
1. Full name of applicant(s) (In Block Letters)			
2. PIN Number (where available)			
Physical Address where water is to be used	Contact Address		
3. L/R Number(s)	4. Box Number		
5. Village(s)/Ward(s)	6. Town		
7. Sub-location(s)	8. Post Code		
9. Location(s)	10. Telephone Contact (Landline)		

11. Division(s)	12. Telephone Contact (Mobile)	
13. District(s)	14. Email Contact	

## WATER RESOURCE DETAILS

15. Name of Body of Water or Aquifer where water is to be diverted, abstracted or stored	
16. Is the point of abstraction or storage in a Protected Area or a Groundwater Conservation Area? (yes/no)	
17. Sub-catchment Number	
18. Class of Water Resource	
19. Status of Water Resource	
20. Name of Body of Water or Aquifer where effluent is to be discharged	
21. Sub-catchment Number (Effluent)	
22. Class of Water Resource (Effluent)	
23. Status of Water Resource (Effluent)	
24. Category of Application (Category B, C or D)	

## QUANTITY WATER USED

BASED ON MEASUREMENTS	
25. Meter Number	
26. Current Date of Assessment of Water Used	
27. Date of Last Assessment	
28. Current Meter Reading (m3)	

29. Last Meter Reading (m3)	
30. Total Consumption (m3)	
BASED ON ESTIMATE	
31. Estimate of water used (m3) between current & last assessment	
32. Show calculations/justification for estimate of water used	

CA	CALCULATION OF WATER USE CHARGES AND CURRENT STATEMENT					
		Units	Quantity	Rates Kshs	Charges Kshs	Instructions
a	b	С	d	e	f	g
1	Total Consumption	m3				
2	Number of Days in Accounting Period	Days				
3	DOMESTIC/PUBLIC/LIVESTOCK WATER USE					
4	Amount Allocated on Permit	m <sup>3</sup> / day				
5	Total amount allocated for accounting period	m3				Col. d (Row 4 x row 2)
6	Total amount lawfully used	m3		0.5	+	Not to exceed col d row 5
7	IRRIGATION WATER USE					
8	Amount Allocated on Permit	m <sup>3</sup> / day				
9	Total amount allocated for accounting period	m3				Col. d (Row 8 x row 2)

10	Total amount lawfully used	m³/ day			Not to exceed col. d row 9
11	Volume of water charged at lower rate	m3	0.5	+	Max. vol.= col. d row 2 x 300
12	Volume of water charged at higher rate	m3	0.75	+	Col. d Row 10 – row 11
13	INDUSTRIAL/COMMERCIAL WATER USE				
14	Amount Allocated on Permit	m <sup>3</sup> / day			
15	Total amount allocated for accounting period	m3			Col. d (Row 14 x row 2)
16	Total amount lawfully used	m3			Not to exceed col. d row
17	Volume of water charged at lower rate	m3	0.5	+	Max. vol.= col. d row 2 x 300
18	Volume of water charged at higher rate	m3	0.75	+	Col. d Row 10 – row 11
19	FISH FARMING WATER USE				
20	Amount Allocated on Permit	m <sup>3</sup> / day			
21	Total amount allocated for accounting period	m3			Col. d (Row 20 x row 2)
22	Total amount lawfully used	m3	0.05	+	Not to exceed col. d row 21
23	HYDROPOWER				
24	Total amount hydropower generated	Kw.hr			
25	Total amount hydropower charged	Kw.hr	0.05	+	If (Row 24 – 1) >1, then Row 24 – 1

Sub-Total Water Use Charges						
27 EXTRAS	26	Sub-Total Water Use Charges			+	Sum Col f Rows
28 Water Resource Conservation charge for abstraction or effluent within a GWCA or protected area  29 Penalty for lack of flow measuring device  20 Incentive for flood water conservation  30 Incentive for flood water conservation  31 Penalty for Over abstraction  32 Total water used  33 Total water lawfully used  34 Total water used in excess of permit  35 TOTAL WATER USE CHARGES THIS PERIOD  36 PRIOD  37 STATEMENT  38 Previous balance  39 Payments within last period  40 Outstanding balance  41 Interest Charges  42 TOTAL AMOUNT DUE						6, 11, 12, 17, 18, 22, 25
28 Water Resource Conservation charge for abstraction or effluent within a GWCA or protected area  29 Penalty for lack of flow measuring device  30 Incentive for flood water conservation  31 Penalty for Over abstraction  32 Total water used  33 Total water lawfully used  34 Total water used in excess of permit  35 TOTAL WATER USE CHARGES THIS PERIOD  36 PRIOD  37 STATEMENT  38 Previous balance  39 Payments within last period  40 Outstanding balance  41 Interest Charges  42 TOTAL AMOUNT DUE	27	EXTRAS				
abstraction or effluent within a GWCA or protected area  29 Penalty for lack of flow measuring device  30 Incentive for flood water conservation  31 Penalty for Over abstraction  32 Total water used  33 Total water lawfully used  34 Total water used in excess of permit  35 TOTAL WATER USE CHARGES THIS PERIOD  36 STATEMENT  37 STATEMENT  38 Previous balance  39 Payments within last period  40 Outstanding balance  41 Interest Charges  42 TOTAL AMOUNT DUE  40 SUM COL f Rows 26 x 0.1  41 Col. f Rows 26 x 0.1  42 TOTAL AMOUNT DUE  40 OLI STATEMENT  40 COL. f Rows 35, 40, 40, 40 x 0.02 x 3 months						
protected area	28			0.0	5 +	Col. f Row 26 x 0.05
30   Incentive for flood water conservation   0.1   -						
30   Incentive for flood water conservation   0.1   -	20	Donalty for lask of flow manusing device		0.1		Cal f Pay 26 v 0.1
31 Penalty for Over abstraction       x 0.1 (note negative sign)         32 Total water used       m3       Col. d Row 1         33 Total water lawfully used       m3       Sum Col. d Rows 6, 10, 16, 22         34 Total water used in excess of permit       m3       1.0       + Col. d (Row 32 - row 33)         35 TOTAL WATER USE CHARGES THIS PERIOD       + Sum Col. f Rows 26,28,29, 30, 34         36       STATEMENT       - Col. d (Row 38 - row 39)         38 Previous balance       + Col. f (Row 38 - row 39)         40 Outstanding balance       + Col. f (Row 40 x 0.02 x 3 months         42 TOTAL AMOUNT DUE       Sum Col. f Rows 35, 40,	29	Penalty for fack of flow measuring device		0.1	+	Col. 1 Row 26 x 0.1
Sign   Sign	30	Incentive for flood water conservation		0.1	-	Col. f Row 26
31   Penalty for Over abstraction						
32       Total water used       m3       Col. d Row 1         33       Total water lawfully used       m3       Sum Col. d Rows 6, 10, 16, 22         34       Total water used in excess of permit       m3       1.0       + Col. d (Row 32 - row 33)         35       TOTAL WATER USE CHARGES THIS PERIOD       + Sum Col. f Rows 26,28,29, 30, 34         36       TOTAL WATER USE CHARGES THIS PERIOD       + Col. f Row 38 - row 39         38       Previous balance       + Col. f (Row 38 - row 39)         40       Outstanding balance       + Col. f Row 40 x 0.02 x 3 months         42       TOTAL AMOUNT DUE       Sum Col. f Rows 35, 40,						sign)
33   Total water lawfully used   m3   Sum Col. d Rows 6, 10, 16, 22     34   Total water used in excess of permit   m3   1.0   + Col. d (Row 32 - row 33)     35   TOTAL WATER USE CHARGES THIS PERIOD   + Sum Col. f Rows 26,28,29, 30, 34     36                                 38   Previous balance   +               40   Outstanding balance   + Col. f (Row 38 - row 39)     41   Interest Charges   + Col. f Row 40 x 0.02 x 3 months     42   TOTAL AMOUNT DUE   Sum Col. f Rows 35, 40,	31	Penalty for Over abstraction				
33   Total water lawfully used   m3     Sum Col. d Rows 6, 10, 16, 22     34   Total water used in excess of permit   m3   1.0   +   Col. d (Row 32 - row 33)     35   TOTAL WATER USE CHARGES THIS PERIOD   +   Sum Col. f Rows 26,28,29, 30, 34     36	73	Total water used	m7			Col. d Pow 1
34 Total water used in excess of permit       m3       1.0       +       Col. d (Row 32 - row 33)         35 TOTAL WATER USE CHARGES THIS PERIOD       +       Sum Col. f Rows 26,28,29, 30, 34         36       -       -         37 STATEMENT       +       -         38 Previous balance       +       -         40 Outstanding balance       +       Col. f (Row 38 - row 39)         41 Interest Charges       +       Col. f Row 40 x 0.02 x 3 months         42 TOTAL AMOUNT DUE       Sum Col. f Rows 35, 40,	34	Total water useu	1113			Col. d Row 1
34 Total water used in excess of permit       m3       1.0       +       Col. d (Row 32 - row 33)         35 TOTAL WATER USE CHARGES THIS PERIOD       +       Sum Col. f Rows 26,28,29, 30, 34         36       -       -         37 STATEMENT       +       -         38 Previous balance       +       -         40 Outstanding balance       +       Col. f (Row 38 - row 39)         41 Interest Charges       +       Col. f Row 40 x 0.02 x 3 months         42 TOTAL AMOUNT DUE       Sum Col. f Rows 35, 40,	33	Total water lawfully used	m3			
+ Sum Col. f Rows 26,28,29, 30, 34						16, 22
PERIOD       26,28,29, 30, 34         36       26,28,29, 30, 34         37 STATEMENT       40 Previous balance       +	34	Total water used in excess of permit	m3	1.0	+	Col. d (Row 32 – row 33)
PERIOD       26,28,29, 30, 34         36       26,28,29, 30, 34         37 STATEMENT       40 Previous balance       +						0.0165
37 STATEMENT  38 Previous balance  +  39 Payments within last period  40 Outstanding balance  + Col. f (Row 38 - row 39)  41 Interest Charges  + Col. f Row 40 x 0.02 x 3 months  42 TOTAL AMOUNT DUE  Sum Col. f Rows 35, 40,	35				+	
37 STATEMENT  38 Previous balance  +  39 Payments within last period  40 Outstanding balance  + Col. f (Row 38 - row 39)  41 Interest Charges  + Col. f Row 40 x 0.02 x 3 months  42 TOTAL AMOUNT DUE  Sum Col. f Rows 35, 40,						
38 Previous balance +  39 Payments within last period -  40 Outstanding balance + Col. f (Row 38 - row 39) 41 Interest Charges + Col. f Row 40 x 0.02 x 3 months 42 TOTAL AMOUNT DUE Sum Col. f Rows 35, 40,	36					
39 Payments within last period -  40 Outstanding balance + Col. f (Row 38 - row 39) 41 Interest Charges + Col. f Row 40 x 0.02 x 3 months  42 TOTAL AMOUNT DUE Sum Col. f Rows 35, 40,	37	STATEMENT				
39 Payments within last period -  40 Outstanding balance + Col. f (Row 38 - row 39) 41 Interest Charges + Col. f Row 40 x 0.02 x 3 months  42 TOTAL AMOUNT DUE Sum Col. f Rows 35, 40,						
40 Outstanding balance + Col. f (Row 38 - row 39) 41 Interest Charges + Col. f Row 40 x 0.02 x 3 months 42 TOTAL AMOUNT DUE Sum Col. f Rows 35, 40,	38	Previous balance			+	
40 Outstanding balance + Col. f (Row 38 - row 39) 41 Interest Charges + Col. f Row 40 x 0.02 x 3 months 42 TOTAL AMOUNT DUE Sum Col. f Rows 35, 40,	39	Payments within last period			-	
41 Interest Charges + Col. f Row 40 x 0.02 x 3 months  42 TOTAL AMOUNT DUE Sum Col. f Rows 35, 40,						
months  42 TOTAL AMOUNT DUE  Sum Col. f Rows 35, 40,	40	Outstanding balance			+	Col. f (Row 38 - row 39)
42 TOTAL AMOUNT DUE Sum Col. f Rows 35, 40,	41	Interest Charges			+	Col. f Row 40 x 0.02 x 3
		-				months
	42	TOTAL AMOUNT DUE				Sum Col. f Rows 35, 40

I certify that the information presented in this form provides an accurate estimate of the quantity of water used and the water use charges due.

Name	
Signature	
Date	

(The Water Act (Cap. 372)

ORDER

PARTICULARS OF PERSON ISSUED WITH ORDER			
1. Full name of receiving Order (In Block Letters)			
Physical Address where water is to be used	Contact Address		
2. L/R Number(s)	3. Box Number		
4. Village(s)/Ward(s)	5. Town		
6. Sub-location(s)	7. Post Code		
8. Location(s)	9. Telephone Contact (Landline)		
10. Division(s)	11. Telephone Contact (Mobile)		
12. District(s)	13. Email Contact		

# WATER RESOURCE DETAILS

14.	Name of Body of Water or Aquifer related to Order

You are hereby required to undertake the following action by the deadline stated below:

Action Required	
Deadline	

You are required to notify the Authority when you have complied with this Order.

Issued by:

Signature of Officer	
Name of Officer	
Position of Officer	
Date of Signature	

Reference: Regulation 1378 of WRM Regulations

(To be submitted in triplicate)

APPLICATION FOR AUTHORITY TO ENTER INTO AND UPON LANDS OF OTHER LANDHOLDERS FOR THE PURPOSE OF INVESTIGATION AND SURVEYING IN CONNECTION WITH A PROPOSED APPLICATION FOR A PERMIT OR EASEMENT

PARTICULARS OF APPLICANT	DETAILS	
1. Full name of applicant(s) (In Block Letters)		
2. PIN Number (where available)		
Physical Address where water is to be used	Contact Address	
3. L/R Number(s)	4. Box Number	
5. Village(s)/Ward(s)	6. Town	
7. Sub-location(s)	8. Post Code	
9. Location(s)	10. Telephone Contact (Landline)	

11. Division(s)	12. Telephone Contact (Mobile)	
13. District(s)	14. Email Contact	

# DETAILS FOR WHICH ENTRY IS REQUIRED

15. Name of Body of Water or Aquifer where water is to be diverted, abstracted or stored	16.
17. State as specifically as you can the proposed purposes for which you wish to use the water	
18. Give a general description of the proposed project referring where necessary to the Cadastral map which you are required to submit herewith:	
19. State the time in months which you estimate it will take to make the necessary survey and investigations	
20. State when you propose to start the above investigation (give date)	

# PERSONS LIKELY TO BE AFFECTED (Attach extra sheet if required)

Description of land (Give L R (No.)	Name of Owner	Postal address and Tel of the owner or of his duly authorized agent
1.		
2.		
3.		
4.		
5.		
6.		

Contact Office or Person

7.				
APPLICATION FEE				
Application Fee (KES)				
Receipt Number				
SIGNATURE				
Signature of Applicant or duly Author	orised Agent			
Date of Signature				
ATTACHEMENTS	Attached (Yes	/No)	Comments/Remarks	
Copy of Identification Documents				
Copy of Land Documents (Land Registrar)				
Relevant Maps				
Copy of Receipt for Payment				
APPLICATION FOR RE		BY WATER RESOU	JRCE USER ASSOCIATION	
PARTICULARS OF WRUA APPLICANT		DETAILS		
1. Full name of applicant(s) (In Block Letters)				
2. Registration Number				
3. Date of Registration				
Physical Address:			Contact Address	

4. L/R Number(s)	5. Box Number	
6. Village(s)/Ward(s)	7. Town	
8. Sub-County(ies)	9. Post Code	
10. County(ies)	11. Telephone Contact (Landline)	
12. Telephone Contact (Mobile)	13. Email Contact	
12. Telephone Contact (Mobile) 13. Email Contact  WATER RESOURCE DETAILS		

14. Name of Body of Water or Aquifer for which WRUA is applying	
15. Sub-catchment Number	
16. Class of Water Resource	
17. Status of Water Resource	

# DETAILS OF OFFICIALS

Chairman (Name):	Date Elected	
Secretary (Name):	Date Elected	
Treasurer (Name):	Date Elected	

## SIGNATURE BY TWO WRUA OFFICIALS

Name of WRUA Official	
Position	

Signature of WRUA Official			
Date of Signature			
INFORMATION ATTACHED			
Copy of Constitution			
Copy of Bylaws			
Minutes of election of officials			
Officer, Water Resources Authority, P.O. Box 45250 – 00100	Grid Reference for Works (UTM Arc 1960) Easting: Northing:		
NAIROBI	Zone:	File No:	

#### CERTIFICATE OF REGISTRATION

## FOR WATER RESOURCE USER ASSOCIATION

Dear Sir/Madam;

I have the honour to inform you that the Water Resources Authority has registered the Water Resources Users Association.

Name

PARTICULARS OF WRUA APPLI	ICANT	DETAILS			
1. Full name of WRUA (In Block	Letters)				
2. Registration Number					
3. Date of Registration					
Physical Address: Contact Office or Person			Contact	Address	
4. L/R Number(s)			5. Box N	umber	
6. Village(s)/Ward(s)			7. Town		
8. Sub-County(s)			9. Post C	9. Post Code	
10. County(s)				11. Telephone Contact (Landline)	
12.			13. Telephone Contact (Mobile)		
14.			15. Emai	il Contact	
WATER RESOURCE DETAILS					
16. Name of Body of Water or A	quifer for which	WRUA is applyi	ng		
17. Sub-catchment Number					
18. Class of Water Resource					
SIGNATURE OF WRA OFFICIAL					
Signature of WRA Official					

SUPPLEMENT No. \_\_\_\_\_\_\_ to be attached to

dated \_\_\_\_\_\_ issued to and declared to form part thereof as

\*Authorisation, Permit No.

Tick Box

Position			
Date of Registration			
The Chief Executive Officer, Water Resources	Grid Reference for Works (UTM Arc 1960)	Form:	WRA 013
Authority,	Easting:	Catchment:	
P.O. Box 45250 – 00100	Northing:	_ WRA ID:	
NAIROBI	Zone:	File No:	

Water Resources Authority

## SUPPLEMENT TO WATER PERMIT/AUTHORISATION

if written or DETAILS OF	-	eon (* <i>delete a</i> VT	s appropriate	е).				
Type of Water Use	Surface Wa	ter			Groundwat	er	Effluent Discharge	Swamp Drainage
USE	Diversion	Abstraction	n In- stream Works	Storage	Shallow well	Borehole		

PARTICULARS OF PERSON TO WHICH SUPPLEMENT APPLIES	DETAILS
1. Full name (In Block Letters)	
2. Category of Person - Individual, Group [Association, Society], Company, Institution	
3. ID Number (Individual) or Certificate of Incorporation or Registration for Groups or Companies	
4. PIN Number (where available)	
Physical Address where water is to be used	Contact Address
5. L/R Number(s)	6. Box Number
7. Village(s)/Ward(s)	8. Town
9. Sub-County(s)	10. Post Code
11. County(s)	12. Telephone Contact (Landline)
	13. Telephone Contact (Mobile)
	14. Email Contact

Brief Description of Intended Use of Water Covered under Supplement				
Type of Water Use	Groundwater (m <sup>3</sup> /day)	Surface Water  River - Normal  Condition	(m³/day)  River - Flood  Condition	Lake
17. Public				
18. Domestic				

19. Livestock						
20. Subsistence Irrigation						
21. Commercial Irrigation						
22. Industry/Commercial						
23. Hydropower						
24. Others						
25. Sub-total						
26. Quantity Returned						
27. Water Abstracted (row 9- row 11)						
28. Effluent Discharge						
29. Basic Human Needs						
ADDITIONAL DETAILS RELEVANT TO THE SUPPLEMENT						
Meter ID Numbers Related to this supplement		,				
1.						
2.						
3.						

SIGNATURE

Yours faithfully,

Signature of WRA Officer	
Name of Officer	
Position of Officer	
Date of Signature	

The Chief Executive Officer, Water Resources Authority, P.O. Box 45250 – 00100 NAIROBI

RESOURCE	Grid Reference for Works (UTM Arc 1960)	Form:	WRA 013
EE !	Easting:	Catchment:	
HORIT	Northing:	WRA ID:_	
	Zone:	File No:_	

The Water Act (Cap. 372)

## APPLICATION FOR REGISTRATION AS A QUALIFIED WATER SECTOR PROFESSIONAL

(To be submitted in triplicate)

Category being applied for (tick as appropriate):

Panel I	Panel II	Panel III
A. Water Supply (>1000m <sup>3</sup> /day)	A. Water Supply (<1000m³/day)	Hydrologist
B. Effluent Treatment Works	B. Effluent Treatment Works	Hydrogeologist

C2. Class SD2 Dams	C1. Class SD1	Dams	Hydrometeorologis	st	
C3. Class SD3 Dams			Chemist		
D. Irrigation (> 7,500 m <sup>3</sup> /da	D. Irrigation (	(< 7,500 m <sup>3</sup> /day)	Biologist		
			Ecologist		
			Geologist		
Name (Gumana Gunt)					
Name (Surname first)					
1. Box Number					
2. Town					
3. Post Code					
4. Telephone Contact (Land	dline)				
5. Telephone Contact (Mob	pile)				
6. Email Contact					
7. Age (years)					
8. PIN Number					
Provide Details of Profession	Provide Details of Professional Training (Attach Certified copies of Certificates)				
Institution	Course	Dates	Level Attai	ned	

Signature of Applicant

Date of Signature

Provide Details of Employment (Attach Letters from Employment)			lates)		
Employer		Position Held		Dates	
Provide Details of Profession	nal Qualif	ications (Attach Cer	rtified copies of Cer	tificates)	
Institution		Level		Dates	
Provide Details of Three Pro	fessional	Referees			
Name	Postal A	Address	Tel Contact		Email Address
Testimonials				The nur	nber attached is.
(You should submit not mo				•••••	
cover as far as possible you	ır training	and experience			
SIGNATURE					

The Chief Executive Officer, Water Resources Authority, P.O. Box 45250 – 00100 NAIROBI

SE RESOUR	Grid Reference for Works	Form:	WRA 013
	(UTM Arc 1960) Easting:	Catchment:_	
THORITA	Northing:	WRA ID:_	
	Zone:	File No:_	

Water Resources Authority

(The Water Act (Cap. 372))

#### LICENCE AS A QUALIFIED WATER SECTOR PROFESSIONAL

#### Dear Sir/Madam;

I have the honour to inform you that the Ministry of Water and Irrigation has given you a licence as a Qualified Water Sector Professional in the following categories.

DETAILS OF QUALIFIED WATER SECTOR PROFESSIONAL

Name (Surname first)		
1. Box Number	2. Telephone Cont	tact (Landline)
3. Town	4. Telephone Cont	tact (Mobile)
5. Post Code	6. Email Contact	
7. PIN Number		

#### DETAILS OF LICENCE

Panel I	Panel II	Panel III
A. Water Supply (>1000m <sup>3</sup> /day)	A. Water Supply (<1000m <sup>3</sup> /day)	Hydrologist

B. Effluent Treatment Works	B. Effluent Treatment Works	Hydrogeologist
C2. Class SD2 Dams	C1. Class SD1 Dams	Hydrometeorologist
C3. Class SD3 Dams		Chemist
D. Irrigation (> 7,500 m <sup>3</sup> /day)	D. Irrigation (< 7,500 m <sup>3</sup> /day)	Biologist
		Ecologist
		Geologist
Conditions of Licence:		

The Chief Executive Officer, Water Resources Authority, P.O. Box 45250 – 00100 NAIROBI

Grid Reference for	Form:	WRA 013
Works		
(UTM Arc 1960)		
Easting:	_ Catchment:_	
Northing:	WRA ID:_	
Zone:	File No:_	

#### Water Resources Authority

(The Water Act (Cap. 372))

# APPLICATION FOR REGISTRATION AS A QUALIFIED CONTRACTOR

(To be submitted in triplicate)

Category being applied for (tick as appropriate):

Category I	Category II
A. Water Supply (>1000m <sup>3</sup> /day)	A. Water Supply (<1000m³/day)
B. Effluent Treatment (>1000m³/day)	B. Effluent Treatment (<1000m³/day)
C2. Class SD2 Dams	C1. Class SD1 Dams
C3. Class SD3 Dams	
D. Irrigation (> 7,500 m <sup>3</sup> /day)	D. Irrigation (< 7,500 m <sup>3</sup> /day)
E1. Borehole Drilling – Class 1 (< 150 m)	E. Borehole Servicing
E2. Borehole Drilling – Class 2 (> 150 m)	

Name of Contractor (Attach Certified Copy of Registration Document)	
(return derimed dopy of registration bocument)	
1. Box Number	
2. Town	
3. Post Code	
4. Telephone Contact (Landline)	

5. Telephone Contact (Mobile)	
6. Email Contact	
7. Year Established	
8. Physical Address of Head Office	

#### Provide Details of Professional Staff

Name	Professional Qualifications	Years of Experience	Position in Organisation

# Provide Details of Equipment

Type of Equipment	Number of Units

# Provide Details of Projects Completed in Last 5 Years

Type of Project	Name	Client	Contract Value (KES)	Date of Completion

Provide Details of Three Professional Referees

Name	Postal Address	Tel Contact		Email A	ddress
Testimonials			The nur	nber atta	ched is.
(You should submit not mo	ore than six testimonia	als to	•••••	•••••	
cover as far as possible you	ır training and experie	nce			
SIGNATURE					
Signature of Applicant					
Date of Signature					
The Chief Executive Officer, Water Resources	HESOUTO B	Grid Reference for Works (UTM Arc 1960)		Form:	WRA 013
Authority, P.O. Box 45250 – 0010 NAIROBI	THE S	Easting: Northing: Zone:	WR	A ID:_	

Water Resources Authority

The Water Act (Cap. 372)

LICENCE AS A QUALIFIED CONTRACTOR

Dear Sir/Madam;

I have the honour to inform you that the Water Resources Authority has given you a licence as a Qualified Contractorin the following category:

# DETAILS OF QUALIFIED CONTRACTOR

Name of Company	
1. Box Number	2. Telephone Contact (Landline)
3. Town	4. Telephone Contact (Mobile)
5. Post Code	6. Email Contact
7. PIN Number	

#### DETAILS OF LICENCE

Category I	Category II
A. Water Supply (>1000m <sup>3</sup> /day)	A. Water Supply (<1000m <sup>3</sup> /day)
B. Effluent Treatment (>1000m³/day)	B. Effluent Treatment (<1000m³/day)
C2. Class SD2 Dams	C1. Class SD1 Dams
C3. Class SD3 Dams	
D. Irrigation (> 7,500 m <sup>3</sup> /day)	D. Irrigation (< 7,500 m <sup>3</sup> /day)
E1. Borehole Drilling – Class 1 (<150 m)	E. Borehole Servicing
E2. Borehole Drilling – Class 2 (>150 m)	

Conditions of Licence:
1
2
Yours Faithfully
SIGNATURE OF WRA OFFICIAL

Resource (River, Lake, Dam, etc.)

Effluent Discharge Receiving Water Resource's Quantity Threshold-WRA

Signature of WRA Official				
Name				
Position				
Date				
	Works (UTM Arc 1960) Easting:	Catchi WR	ment: A ID:	
PE	RMIT CLASS			
	ND EFFLUENT DISCHARGE DESCF	RIPTION		
Name and Location of Facility				
Activity of Facility				
WRA's Facility Classification (FC1or FC2	(,,,,)			
Effluent Discharge Receiving Water				

Effluent Discharge Receiving Water Resource's Quantity Threshold-WRA	
WRA's Effluent Discharge Points (EDPs)	
Grid Reference for Effluent Discharge Point	
Easting	
Northing	
Altitude (m above sea level)	
Map Sheet	
Mode of discharge (pipe, canal,)	
Daily Effluent discharge (m³/day)	
Basis: description of how the average waste water flow has been determined	
Hours of discharge: Number of days per week & hours per day's	
List of process raw materials utilised and wastes generated on site	
Details of Treatment System	
Chemical	
Settling	
Anaerobic digesters	
Oxidation or aerated ponds	
Natural or constructed Wetland	
Other (specify)	
Retention time (days)	
Nature of Pollutants (Chemical, Biological, Physical)	

A list of the potential impacts on the environment and the proposed mitigation methods to be used	
Details of any emergency / spillage control arrangements	
State if there any seasonal, or other variations (including any arising from plant malfunction) in volumes of effluent to be discharged	

Attach a sketch plan showing fencing and drainage, storage area for liquid, sludge, solid waste awaiting treatment and residue awaiting removal for disposal elsewhere

# EFFLUENT DISCHARGE QUALITY

Compulsory Parameter	Units	Value
Companion y 1 an annocon		, and
BOD (5 days at 20 <sup>o</sup> C	mg/1	
COD	mg/1	
Electrical Conductivity (EC)	μS/cm	
Total Dissolved Solids (TDS)	mg/1	
рН	pH scale	
Temperature	°C	
Feacal coliforms	Counts / 100ml	
Total Coliforms	Counts / 100ml	
Flow rate	m <sup>3</sup> /day	
Colour	Hazen Units	
Total Suspended Solids (TSS)	mg/1	
Chemical Parameters		
Sulphate (SO <sub>4</sub> )	mg/l	
Sulphides, (S <sup>2-</sup> )	mg/l	

Phenols	mg/l
Prienois	mg/l
Fluorides (F)	mg/l
Chlorides (Cl)	mg/l
Free CO2	mg/l
Ammonium-NH4	mg/l
Nitrite – NO <sub>2</sub>	mg/l
Nitrate-NO <sub>3</sub>	mg/l
Total Phosphorous (P)	mg/l
Total Nitrogen (N)	mg/l
Potassium (K)	mg/l
PCBs	mg/l
Total Petroleum Hydrocarbons (TPH)	mg/l
Oils and grease	mg/l
Surfactants	mg/l
Heavy Metals (Cd, Cu, Pb, Zn, Al, Se, As, Sn, Mn, Co, Fe,)	mg/l
Pesticide residues	μg/l
WRA's Accruing Quality Points (AQPs)	

# EFFLUENT DISCHARGE CLASSIFICATION AND CHARGES

WRA's Pollution Loading Points (EDP × AQP=PLP)	
WRA's Class of Permit	

Effluent Discharge Charge (cents/m3)	