

LIMPOPO COMMENTS

THEME 1-3 & 7

RV Weidemann (Private Sector)

Leadership - should start with an institution to manage the allocation of funds. (All funds directed to water)

Too many different strategies/plan. Contents

- "Groundwater master plan - HWA Eng. (Jimpepo)"
- Provincial gov strategies

NEEDS PRIVATE SECTOR.

4) GW resource protection. MONITORING DATA FROM MINES NOT AVAILABLE TO PUBLIC.

1) GW resource management TOOLS ON WEBSITE BASE FOR MUNICIPALITIES.

CW LEADERSHIP.

- BRING BACK GEOPHYDROLOGY DIVISION.
- POLLUTION
 - RESEARCH
 - POLICY
 - TRAINING PLATFORM.
 - MONITORING
 - CATCHMENT MANAGEMENT AGENCY
 - DATA BASE CENTRAL.
 - AUTHORIZATION. ARTIFICIAL RECHARGE
- WITHOUT THIS CW CAN NOT BE CONTROLLED EFFECTIVELY

WITH ALL ACTS, POLICIES, REGULATIONS IN PLACE, HOW ENSURE COMPLIANCE TO IT?

1. How do we get the WSA's to take groundwater seriously, as the political leadership changes every 5 years.

W du Toit: Groundwater

- Poor understanding of the sector
- funds required for groundwater development, GW is not about like drilling of a borehole
- We require regulations in NWA to enforce groundwater management as it is NON-EXPLICIT within MOST municipalities

Comments (Private Sector)

- Regulations of groundwater should be the same as for surface water. (metered, paid for and some of the funds that is retrieved from the water should be made as a salary for the operator to better monitor and take care of the borehole. Operations should start with the (Wolana, goshu, khy) Also the (Wolana, goshu, khy) should get some learning and skills on groundwater as well as the operator. - Start at ground level.

THEME 4, 6, 8 & 9

* GW data collected must be utilised and not just collected and stored with no purpose whatsoever and left.

* GW monitoring responsibility needs to be sorted out. Who is responsible for doing monitoring

* Accessibility of data + info to all stakeholders

USE EXISTING LAWS, MAKE SURE IT IS ENFORCED

PRIVATE OWNERS - NOT TO REGULATE/CONTROL BUT TO GET GW INFO - COMPULSORY TO GIVE INFO NOT VOLUNTARY

ADD WATER ACT:

Drill rigs can only be licensed or be "road worthy" if fitted with a tracking "Car-track, Tracked etc" system and a borehole number should be issued before drilling - linked to contracts/consultant name, tracking number etc & how responsible to give data/information back to system before he can get another number.

(Private sector)

- Municipalities get paid for work not done and funds are going to waste.
- Get proof of work done before getting paid and ask for reports of work being budget for.
- Contract appointments not done (Gibson)

Groundwater sources as back-ups for surface water. (Supply deals with groundwater also)

- Start at Micro-level before the rest.

- Drilling Contractors Must work under Consultants and should not be allowed to drill otherwise.

- Upgrade data base by Hydrocensus and available data.

- (Municipalities)
- 1) What is going to happen to already allocated and licensed water abstractions once a resource has been calculated?
 - 2) What is the possibility of regional water quality baselines? Different geology different trace elements.
 - 3) How are you going to regulate Section 21(c) water uses which is necessary for the safety of people.
 - 4) Is there going to be a time period in which WU holders will have to reapply for 21(c) e 21(j)? or are the water uses safe?

5) Several institutions are submitting monitoring reports including groundwater and surface monitoring results. Does the Department CW Department get these reports? Could help with quality classification.

DEPS Groundwater

USE AGRICULTURAL UNITS, PROVINCIAL AND LOCAL WATER NO WORK!!

- 1) ENFORCING NATIONAL WATER ACT
- 2) ENFORCING NATIONAL WATER ACT
- 3) ENFORCING NATIONAL WATER ACT
- 4) ENFORCING NATIONAL WATER ACT

4) NEEDS AGENCY

4) GROUNDWATER RESOURCE PROTECTION AND ASSESSMENT - ALL INFO MUST BE PUBLIC DOMAIN. IF PEOPLE KNOW THINGS WILL HAPPEN

- HAVE MONITORING DATA - MINES NEED TO TALK TO LOCAL GOVT - RESOURCES

- POLLUTION - MANAGEMENT AT MUNICIPAL LEVEL DO NOT TAKE RESPONSIBILITY FOR POLLUTION FROM SEWERAGE PLANTS

- DELTA'S FOR INSTANCE WHERE A NATURAL BENTHIC HEALTH IS PLANTED.

- MONITORING OF WL TO PLAN FOR OVERTIGHT

2 THEME 4, 6, 8 & 9

Private sector.

- All groundwater should be metered and paid for.
- No borehole should belong to a private owner or if it is private the water should still not be free.
- Make the database easier accessible.
- The rules for groundwater use should be the same as for surface water. It is also a natural resource that can get depleted by unauthorised and unmonitored users.
- Damands above ground has the same rules for demands being mined underground.

- An increase of school leavers
- GW resources planning + development requires a GW Champion at HO with the sole responsibility of focusing on GW. This Champion must take lead
- Focus should also be on developing GW resources as bulk system and not only at an point source of emergency source.
- Relevant GW info products should be developed and not just maps such as 1:50000 scale that is not really used

- Need for the implementation of licences and monitoring on the abstraction of ground water. WSA's to be on board

• Policies and laws to be strengthened

• Capacity building + pump operators and community leaders

Environmental Impact Assessment
Example: Civil + Building Contractors are obligated to apply for permit to abstract water from borehole, borewell pits.

Do rig drills have permits to drill into the scarce resources that is protected by both DWS (water act) and Environment?

Why undertake pollution assessment?
If polluted to late!

Integrated planning + development critical? Impacts of GW on SW

Make sure the "commuter", "operator" take ownership through O&M and monitoring their groundwater sources - Give incentives when all data is collected and reported.

Ensure a borehole "planned" is approved and registered before drilling - Register on line and get a "code" for approval "code" could be in form of borehole number

RU Weidemann (Private Sector)

Funding for development committed for water.

- Budget must be separated into
- # Surface water development
- # Ground water development

BSI: NICK WARD

THEME 5, 10 & 11

The university of Limpopo - Head of Dept for Community Water Development is James Carver (P&S)

He designed a Zaaiplaats Scheme for SDM (HEBO Plateau Schemes) which depends on aquifer named "Carbonatite". In essence academic institutions can undertake such studies

18/06/2018

RU Weidemann (Private)

Train people from young age and create awareness regarding the interaction between groundwater / surface water / sanitation / pollution.

Produce training documents, explaining the reasons for proper investigation into structures / geology etc and the correct "sizing" of boreholes with sufficient "penetration" etc. High yield low friction pumps, last longer etc.

Senior management of WSA's to understand the whole 'balance' of surface & groundwater sources

A problem for us in SDM

TRAINING @ LOCAL LEVEL

- From pump operators
- to technician
- and project managers

NETS PRIVATE

TECHNICAL MANAGERS SHOULD BE INVOLVED WITH FIELD VISITS WHEN CW PROJECT ARE IN PROGRESS - IN FIELD TRAINING

Consult with Exigo.

They've done research on 2 wellfields in Letaba region and a wellfield in Mesina

ANSWERS

- Local level Capacity Building / Training
- LIAISONING / INVOLVEMENT
- NO: participatory
- YES: INTRODUCING WATER / SANITATION ENVIRONMENT IN EDUCATION IN THE SCHOOL CURRICULUM
- YES: NEW FROM FEBRUARY 2018

THEME 12 (LOCAL ACTION)

- ✓ Train pump operators on sustainable borehole yield and abstraction
- ✓ Support for engagements with institutions of higher learning.
- ✓

Consideration

Most WAs of Local Govt has just had new councils

An awareness campaign to encapsulate them of importance of ground water resource in service delivery

W du Tot: GW Sector

- All the themes @ Basin level can basically be tested under local action theme. All these should be unpacked at local level.
- WAs could play a major role @ local level in management of the resource if funds are re-directed to them.

Use the Hydrogeological Reports submitted as part of the Water Use Licence Applications to give them information for their area and get the hydrogeologist who did the Reports to explain it to the local people. Then DWS don't need extra people for training.

Aquifer management

- Add detailed aquifer information to ensure each aquifer is managed according to its capacity
- Local government should use income to upgrade & maintain wet sources.
- Offer mine claim data to be their, this should be public domain although mines can keep minimal info

Q: get local business involved to manage village by village water supply system, o&m etc. through sponsors!!!
(Private) RVWiedeman

Private Sector.

Local Actions is mostly on ownership, responsibility and training.

If someone is trained, have responsibility and own something, they usually look after it.

→ Start the NCs at local level actions. Start with the actual work being done before other strategies