



## Questions to be answered

- What do I turn in? (and why?)
- Who do I turn it in to?
- When does it need to be in?
- What if I have questions?
- How do I know I filled it out correctly?

## What do I turn in?

- Water Audit Microsoft Excel file
  - Entire file
  - Completely filled in
- Keep additional documentation
  - To explain any irregular or unavailable data
  - EPD may request for clarification
- Contact name and info
  - If different from the name in the audit

## Why the electronic file?

- EPD will use a compiler tool to extract the audit results for posting on their website
  - The Stewardship Bill requires this information be made available to the public
- The software is electronic and the calculations are embedded in the software
- It is simple to attach the EXCEL Spreadsheet to an e-mail.
- Hint: use Save as on the EXCEL spreadsheet and save with file name containing the year.
  - For example Water Audit 2011.
  - This way you can return to the actual plank spreadsheet each year and you will have your historic submissions by year easy to find.

## Who do I turn it in to?

- EPD at the following email address:  
Lebone.moeti@dnr.state.ga.us
- You will receive a confirmation that the audit was received for your water system
- EPD will follow up if they have any questions or require clarification on your data
- There may be a web submission created in the future.

## When does it need to be in?

- As soon as possible after January 1, 2012
- March 1, 2012 (or 2013) is the deadline

## What if I have questions?

- Georgia Water Audit Manual
- Lebone Moeti, Georgia EPD
- Technical Small Group (names in manual)
- AWWA M36 Manual: Water Audits and Loss Control Programs
- GAWP

## Big Clues to Potential Errors

- Check to see if you have a validity score
  - Failure to complete audit fully will result in no calculated score
- An ILI of  $< 1$
- An ILI of  $> 8$
- Very High Validity Score coupled with Very Low ILI after first audit
- Prior to submitting it
  - Share completed Audit with any team members for a final data verification.
  - Also a good time to follow up with any data you are uncertain about.

## Master Meter

- Error adjustment can't be a negative number
  - Enter the value and select under-register (meter was slow)
  - Select over-register – if metered consumption was over read
- An error adjustment of 0 is very unlikely.
  - If your calibrations on your master meters show they were performing at 100% accuracy for reporting period keep this data and have it available for EPD.

## Billed Metered

- This is not the same as exported water. This is retail water.
  - Wholesale customers are recorded in water exported.
- Estimated bills
  - Estimated and adjusted bills occurring in same time period are considered billed meter if the account is metered.
  - Adjustments (reductions) to estimated consumption are apparent losses

## Classifying Consumption

- Unique to each utility
- Make sure you are not double counting use
  - For example Parks – for some it may be metered but not billed – don't count that also in unbilled unmetered.
  - Use the default on unbilled unmetered unless you have data
  - Don't spend time on this when you begin the process

## Water Losses

- Did you use the appropriate defaults?
  - Unauthorized consumption.
  - Very Few utilities track
  - Metering inaccuracies
  - If you don't have testing program use default provided or factory default.
  - Meters generally slow down not speed up!
- Estimated bills
  - If estimated consumption is increased the difference in estimated and adjusted consumption is now billed / metered water

## System Specifics

- Length of mains – make sure it is just your distribution system and not customer service lines
- Length of customer service line – did you follow the diagram – it is 0 for most systems in Georgia
- If you have an exceptionally low ILI – verify method of calculating system operating pressure

## Show Me the Money

- Total annual costs for operating water system
  - This should not be your total budget (water only)
  - Do consider percentage shared equipment, bond paybacks and wholesale water purchased
- Retail Water
  - The software says it should be total costs if billed based upon metered water use.
  - This will skew priority areas to be considered in a water loss reduction plan.

## Questions?

Kathy Nguyen

770-419-6244

[Kathy.nguyen@cobbcounty.org](mailto:Kathy.nguyen@cobbcounty.org)