



Minutes for Workshop of the Hays Trinity Groundwater Conservation District

Date: Friday, September 7, 2012
Time: 10:00 am
Place: Church of Christ
Location: 470 Old Hwy 290, Dripping Springs, TX. 78620

Workshop: A Time Frame for Developing Alternative Water Sources for Western Hays County

10:00 am: Workshop Opens

Board Members in Attendance: Joan Jernigan-District 5 Director, Ed Pope-District 4 Director, Jimmy Skipton-Board President and Mark Key-Secretary/Treasurer

Board Absent: Greg Nesbitt-Vice President

Staff Present: Rick Broun-General Manager, Tressy Gumbert-Administrative Assistant, & Al Broun-District Geologist, P.G. 4845

Welcoming of Guests & Speakers: Joan Jernigan

Speaker Introductions: Rick Broun

Speakers:

Chris Clary: Watershed Project Coordinator, River Systems Institute, Presents "Water Conservation – A Watershed Approach"

- Recreation, economies and personal costs are cases for water conservation
- The population in central Texas is expected to double by 2040
- Dependency of groundwater
- Watershed protection planning and goals
- Best management practices
- Municipal water conservation strategies
- Grey water use
- Landscaping techniques
- Places to get more information about water conservation and watershed protection plans

Dr. Sanjeev Kalaswad: Rainwater Harvesting Coordinator, Texas Water Development Board, Presents "Rainwater Harvesting in Texas".

- What is rainwater harvesting
- State financial incentives for rainwater harvesting
- State measures to promote rainwater harvesting
- State regulations for rainwater harvesting
- TWDB efforts to promote rainwater harvesting
- Texas Rain Catcher Award
- Research projects
- Rainwater harvesting system components
- Examples of rainwater harvesting systems
- Potential difficulties with harvesting rainwater
- Advantages of harvesting rainwater

Dr. Robert Mace: Deputy Executive Administrator, Texas Water Development Board, Presents "Is There a Future for Water in Hays County?"

- Data, planning and financing are three major components in moving forward
- Major Municipal Reservoir Systems Storage map
- Historic and projected population growth
- Regional water planning groups
- Water management strategies and costs

11:30 Break for lunch

12:10 Reconvene

September 7, 2012 Workshop continued

Al Broun: District Geologist P.G., Hays Trinity Groundwater Conservation District, Presents "Lower Trinity Project – A search for an alternate aquifer in western Hays County – Woodcreek Lower Trinity Test Well"

- HTGCD has two project areas, north and south, that focus on the Lower Trinity Aquifer
- 2011 groundwater production equaled about 6000 acre feet within the HTGCD
- The Trinity Aquifer is divided into three hydrologic zones, Upper, Middle and Lower. With the Middle Trinity Aquifer being the primary groundwater producer
- Problems with production from Lower Trinity Aquifer include cost, water quality, low flow rates and poor aquifer properties
- The Middle Trinity appears to be dewatered in northern area of the District
- Woodcreek Lower Trinity Test Well summary and conclusions

Kirk Holland: General Manager, Barton Springs Edwards Aquifer Conservation District, Presents "Alternative groundwater supplies for northwestern Hays County"

- Firm-yield water is scarce
- Surface water availability in area is essentially fully subscribed
- The aquifer characteristics control water availability in area
- Providing additional and alternative water supplies will require the region to make unprecedented trade-off decisions and risks
- Probably requirements of additional groundwater supplies
- Preserving and conserving what we already have
- Emphasizing smaller-scale in lieu of larger-scale supply systems
- Promoting new technologies for area
- Using under-utilized and marginal quality aquifers in innovative ways
- Instituting effective, sustainable, groundwater management strategies

David Venhuizen: Principal of David Venhuizen, P.E., Presents "It's all water and it's all good"

- Once through use vs. whole water use
- Categories of "New Water"
- Tom Hegemier's estimate of water savings from "small" actions
- Rainwater harvesting is more efficient. It reduces upfront costs, it reduces fiscal risk, it is under the users control, more sustainable, uses less energy and roof harvested rainwater is better water
- The high performance biofiltration/drip irrigation system concept

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1:00 pm: Questions

1:10 pm: Workshop Adjourn

Approved:  Date: _____, 2012
Jimmy Skipton, President

Approved: _____ Date: _____, 2012
Mark Key, Secretary Treasurer V.P.
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