

# Williamson County:

## *Leadership on Water Supply and Infrastructure*

### A Proposal for Regional Development to Provide:

- ✓ Roadmap – Used as a Template for Groundwater Development
- ✓ Drought-Proof and Growth-Flexible Supply
- ✓ Autonomy and Control for Communities
- ✓ Lowest Possible Cost – Superior to Alternatives
- ✓ Economic Vitality and Sustainability for Williamson County
- ✓ Not Remake of Brazos G:
  - ✓ ***Focuses on Regional Groundwater Supply Opportunity***

# Proposal

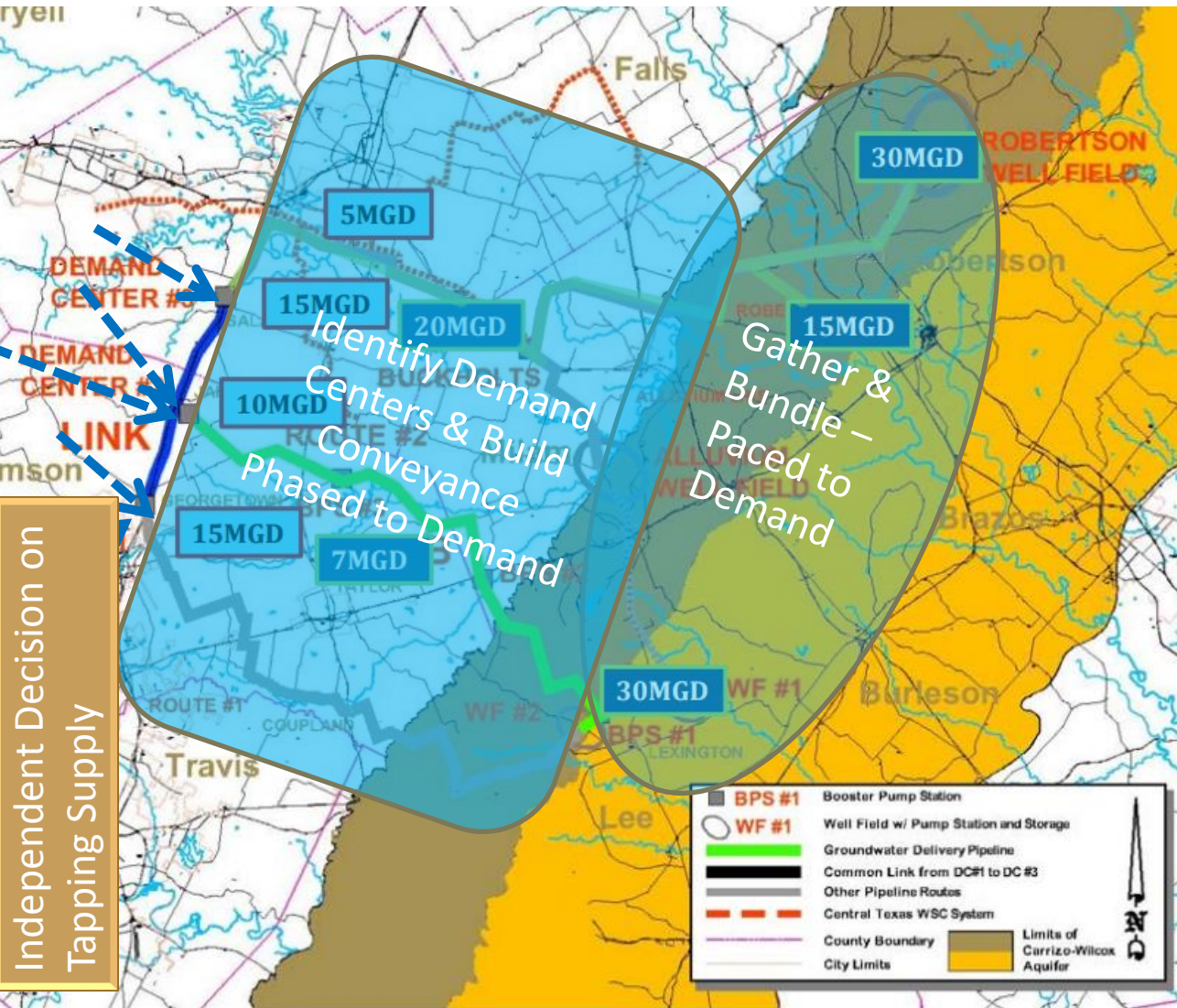
- A Supply, Conveyance and Storage project plan to be managed by Lone Star Regional Water Authority
- Republic Water to provide consulting services for plan development and implementation
- Strong, comprehensive interaction with individual water utilities

# Simple and Straight-forward

## *Workable Approach*

- “**Gather and Bundle**” – Republic will do the leg-work to bring supply strategies to Lone Star Regional Water Authority
- Convey to “**Demand Centers**”
- Communities Make **Independent Decisions** on Acquisition

# Gather, Bundle, Convey



## CONCEPTUAL WATER DEVELOPMENT

### PHASE I – 40.0 MGD Delivered

1. 20.0 MGD from Bell County Source
2. 7.0 MGD from Lone Star
3. 30.0 MGD from Carizzo-Wilcox

### PHASE II – 80.0 MGD Delivered

1. 20.0 MGD from Bell County WF
2. 7.0 MGD from Lone Star
3. 30.0 MGD from Carizzo-Wilcox
4. 45.0 MGD from Robertson WF

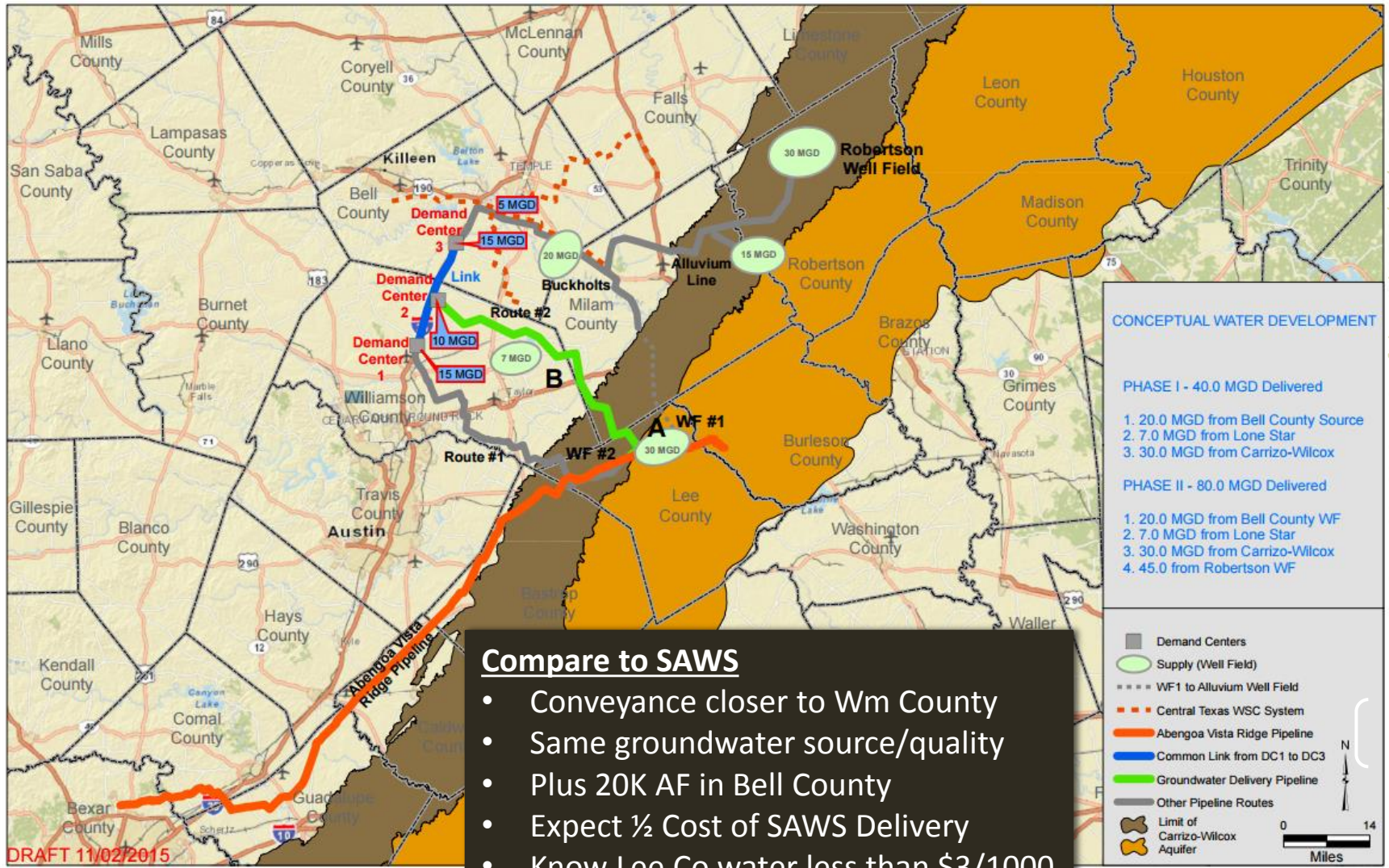
**SUPPLY**

**DEMAND**





# Simple and Straight-forward *Cost of Supply Considerations*



# Simple and Straight-forward

## *Considering the Benefits*

**Republic  
perfectly  
positioned to  
approach Four  
Star, EndOp, and  
Bell County  
suppliers of  
proven supplies**

- Target groundwater to provide:
  - Drought-proof supply (tapping into underground Lake Travis or Lake Georgetown)
  - Regional develop of supply/conveyance with *independent decision* on tapping that supply
  - Economic growth not hampered by lack or drought-impacted supplies
  - Regional but Williamson County-independent development through Lone Star Regional Water Authority

# Three Important Points

## *on What Groundwater will Support*

1. Groundwater development has immediate value to address current shortfalls during drought conditions (*can offset or delay expensive surface water development*)
2. 'Supply Insurance' a drought-proof supply developed on regional basis
3. Long-term supply to meet future demands

# Strategic Water Development Study

## *Proposed Study Scope – for Optimal/Integrated Solutions*

1. Identify drought-resistant water supply sources
2. Customer-defined demands: Confidential collaboration with Wm Co water users on needs (not TWDB directed!)
3. Staging of water supply development over time
4. Conveyance routing and cost analysis
5. Identify strategic location for supply delivery (supply nodes)
6. Teamwork to identify “Current Users” and “Reserve Users” (takers and reservers)
7. Current Users at <20 year needs; Reserve Users >20 years (a community can have both Current and Reserve amounts in the project)
8. On-going communication with County and communities



# Request

- County to support cost of the Strategic Water Development Study
- Study would be managed by the Lone Star Regional Water Authority
- Deliverables would include:
  - Specific and useful data – real and verified demand projections
  - Comparison and contrast of proposed projects
  - Financial analysis of the Regional benefits
  - A funding plan to deliver affordable water to member communities
- Anticipated study cost - \$50,000

# Summary

- Water supply source development and conveyance to strategic demand centers
- Provides for regional development of supply but preserves local autonomy and timing on its commitment and use
- Source is sustainable, drought-proof groundwater
- Level playing field for all Wm Co communities, regardless of size
- Provides 'group insurance' for having Wm Co supply available regardless of drought or growth demands
- Major boost to and messaging for economic viability of Wm Co