



**RIVERBEND RESOLUTION NO. 20170412-04**

**APPROVING A REGIONAL WATER INFRASTRUCTURE ALTERNATIVES  
“PRIORITY LIST” IN ASSOCIATION WITH THE REGIONAL WATER MASTER  
PLAN FOR FURTHER COST ESTIMATES AND PLANNING PURPOSES**

**WHEREAS**, Riverbend Water Resources District is a conservation and reclamation district created under and essential to accomplish the purposes of Section 59 Article XVI, Texas Constitution, existing pursuant to and having the powers set forth in Chapter 9601 of the Special District Local Laws Code of the State of Texas; and

**WHEREAS**, Riverbend Water Resources District authorized the negotiation and execution of an agreement with Susan Roth Consulting for the completion of a Regional Water Master Plan on May 11, 2016; and

**WHEREAS**, Susan Roth and Consulting and subcontractors have made substantial progress in the review of the region’s current water supply and infrastructure, as well as the region’s population and industrial projects and future water demands; and

**WHEREAS**, Riverbend Water Resources District reviewed draft of the key components on population and industrial projections, future water demands, and infrastructure financing necessary to achieve the region’s water management and protection goals over the next approximate 50 years on January 31, 2017 in a Town Hall Meeting with stakeholders and interested parties; and

**WHEREAS**, Riverbend Water Resources District also reviewed a number of possible infrastructure projects at the Town Hall Meeting on January 31, 2017; and

**WHEREAS**, Riverbend Water Resources District expects that substantial investment will need to be made in this arena over the next 50 years in order for the region to prosper and grow with the vigor and vitality necessary to keep up with growing demands; and

**WHEREAS**, Riverbend Water Resources District desires to plan appropriately for the infrastructure costs associated with current and future water and wastewater demands of the region and to provide the support necessary to its Member Entities for proper planning to occur simultaneously and seamlessly with the overall development of the Regional Water Master Plan;



**NOW, THEREFORE, BE IT RESOLVED** that the Board of Directors of the Riverbend Water Resources District hereby approves this "priority list" of Regional Water Infrastructure Alternatives for further cost estimates and planning purposes.

**PASSED and APPROVED this 12th day of April, 2017**

A handwritten signature in blue ink that reads "Marshall Wood".

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Marshall Wood, Vice President

ATTEST:

A handwritten signature in blue ink that appears to be "KM".

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Kelly Mitchell Secretary

Attachment: Regional Water Supply Alternatives Priority List

## Memorandum

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### **RWRD Regional Water Master Plan Study: Final Regional Water Infrastructure Alternatives for Further Evaluation**

**TO:** *Liz Fazio Hale, J.D., LL.M.*  
*RWRD Executive Director/CEO*

**FROM:** *Susan K. Roth, P.E.*

**DATE:** *March 31, 2017*

Per our discussion and as a follow-up to your request, the proposed list of final regional water infrastructure alternatives for further evaluation is summarized below. This proposed list is based on the results of the voting exercise with the project participants, conducted separately by email and during the working session at the town hall meeting on January 31, 2017 (reference attached voting sheet).

1. **Alternative IV: Construct New Intake Structure and Raw Water Pipeline at Lake Wright Patman** at two possible locations:
  - a) TexAmericas Center
  - b) New Boston Road Water Treatment Plant
2. **Alternative I , No. 3: Modify raw water delivery system (i.e. intake, pump station, raw water pipeline) at New Boston Road Water Treatment Plant** in order to increase rated capacity from 18 to 25 MGD and to utilize entire permitted capacity of water treatment plant
3. **Alternative IV, No. 2e & 2f: Construct New Water Treatment Plant at TexAmericas Center** – location to be determined; previous CH2M HILL study identified 6 potential sites and the following two ranked the highest as a result of the voting exercise:
  - a) Bowie County Parkway
  - b) Southwest Corner of the former Ammunition Plant
4. **Alternative III, No. 4 & 5: International Paper (IP) Water Treatment Plant – Cass County Water Supply**
  - a) Expand existing IP Water Treatment Plant
  - b) Construct New Water Treatment Plant in Cass County (expanded incrementally)

The Roth team will then evaluate and fully develop (i.e. infrastructure sizing, cost estimates – capital and O&M, etc.) these final infrastructure alternatives for connecting existing and future water customers into an overall regional water system within the study area.

**Riverbend Regional Water Facility Planning Study**  
**Second Project Meeting - Results of Working Session & Email Vote\***

PRELIMINARY REGIONAL WATER INFRASTRUCTURE AND ALTERNATIVES		NO. OF VOTES
<b>I. NEW BOSTON ROAD WATER TREATMENT PLANT</b>		
1	Decommission	0
2	Operate Water Treatment Plant As-Is	2
3	Utilize Full Water Treatment Plant Capacity	33
4	Expand Existing Water Treatment Plant	4
5	Build New Water Treatment Plant at New Boston Road Site	0
<b>II. MILLWOOD WATER TREATMENT PLANT</b>		
1	Decommission	0
2	Operate Water Treatment Plant As-Is	1
3	Utilize Full Water Treatment Plant Capacity	1
4	Expand Existing Water Treatment Plant	15
5	Build New Water Treatment Plant at Millwood Site	1
<b>III. INTERNATIONAL PAPER WATER TREATMENT PLANT</b>		
1	Decommission	0
2	Operate Water Treatment Plant As-Is	0
3	Utilize Full Water Treatment Plant Capacity	24
4	Expand Existing Water Treatment Plant	25
5	Build New Water Treatment Plant in Cass County	30
<b>IV. NEW WATER FACILITY**</b>		
1	Phased approach for constructing new Water Treatment Plant (WTP); provides system redundancy and increased reliability	2
2	Revisit Six Proposed Sites from CH2M Study:	
a	Site 1A - New Boston Road WTP	0
b	Site 1B - Jarvis Parkway Corridor	2
c	Site 2A - City of Wake Village (FM 2148)	0
d	Site 2B - Property Located North and West of Site 2A	0
e	Site 3 - TexAmericas Center (Bowie County Parkway)	20
f	Site 4 - TexAmericas Center (SW corner of former Ammunition Plant)	4
	<b>Total Votes for New Water Facility</b>	<b>28</b>

\* The top four alternatives that received the highest number of votes are highlighted in yellow.

\*\* All of the approaches listed for Alternative IV include constructing a new intake structure and raw water pipeline to TexAmericas Center in order to complete the new water facility.