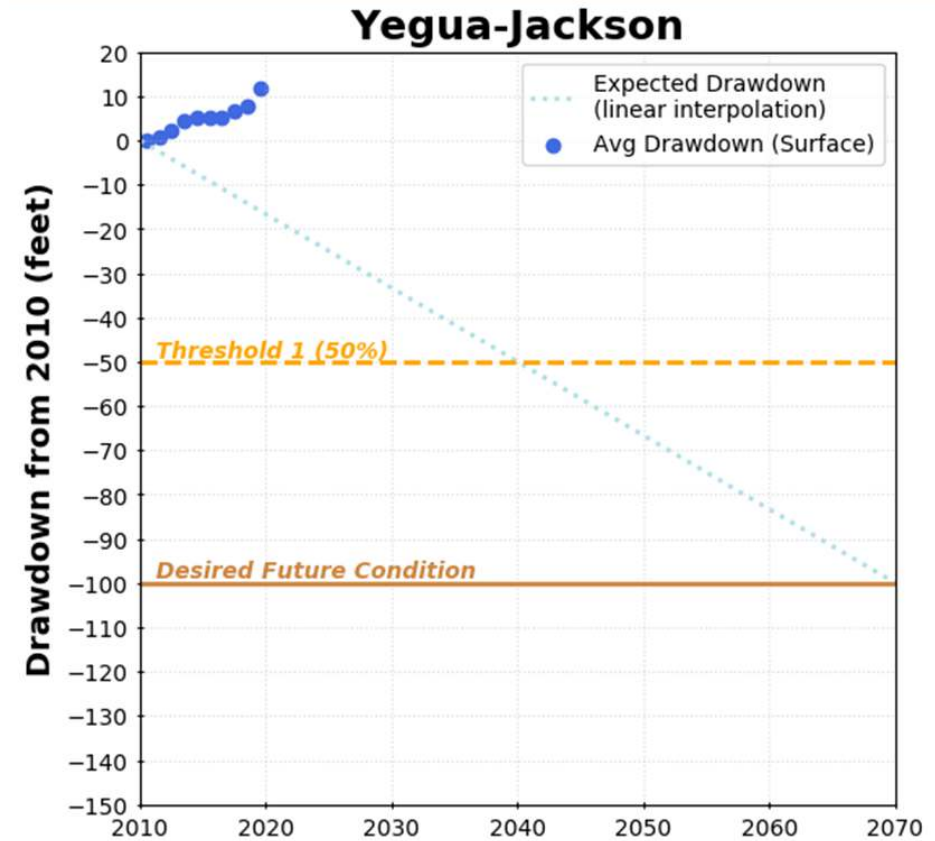
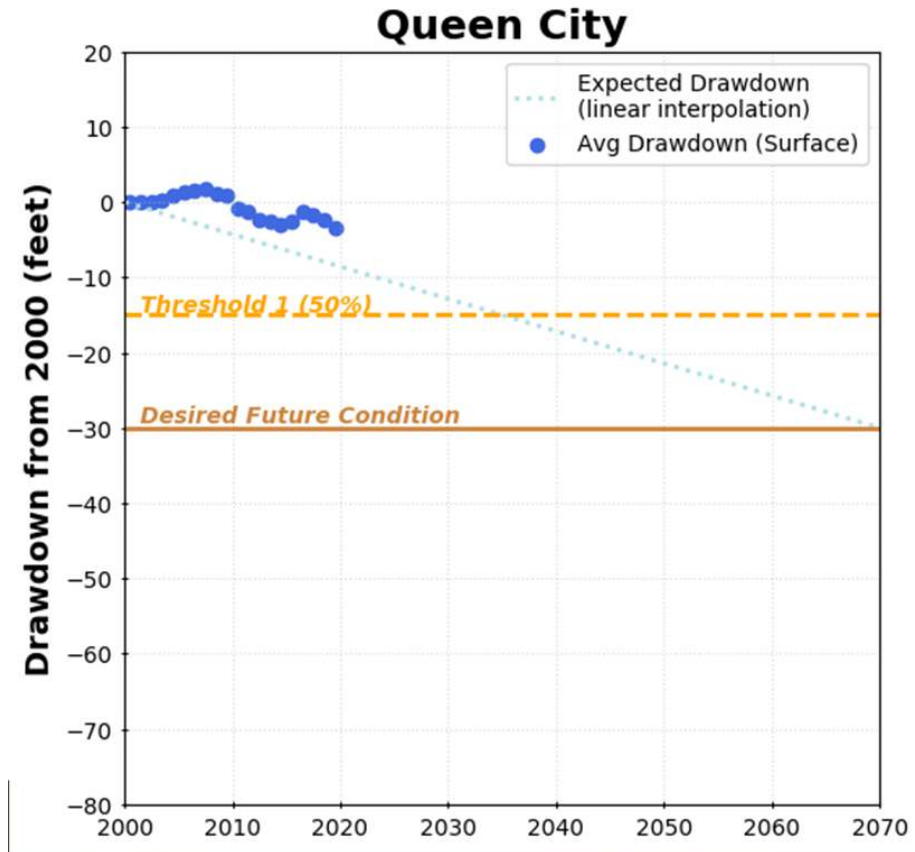


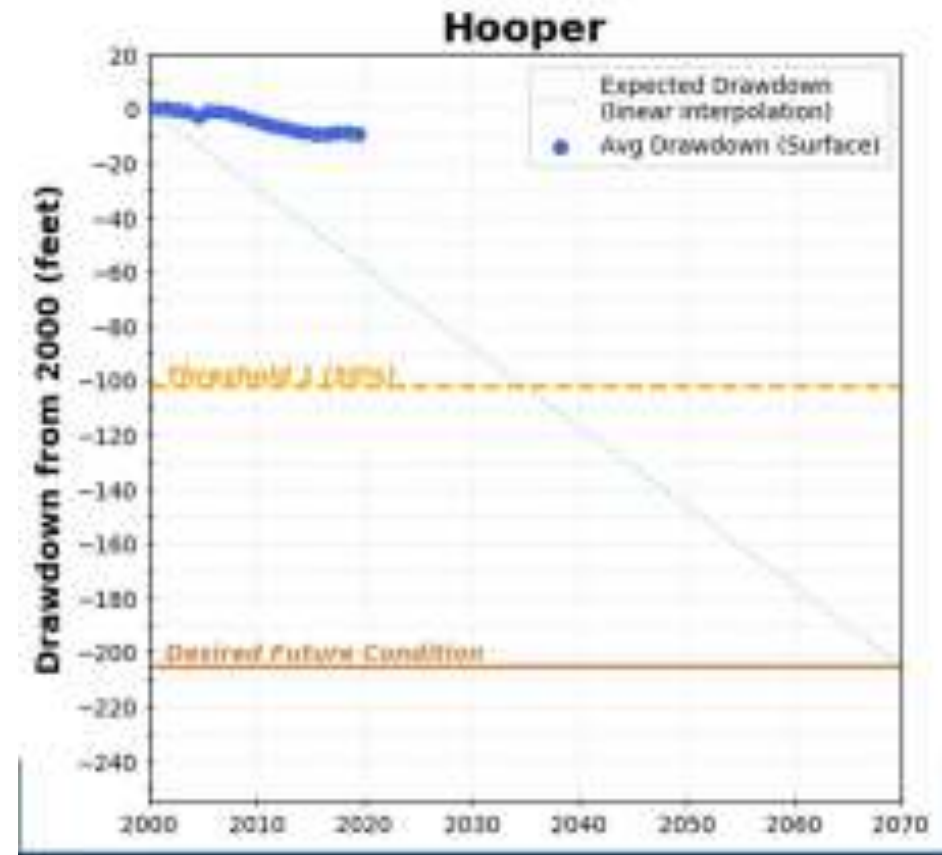
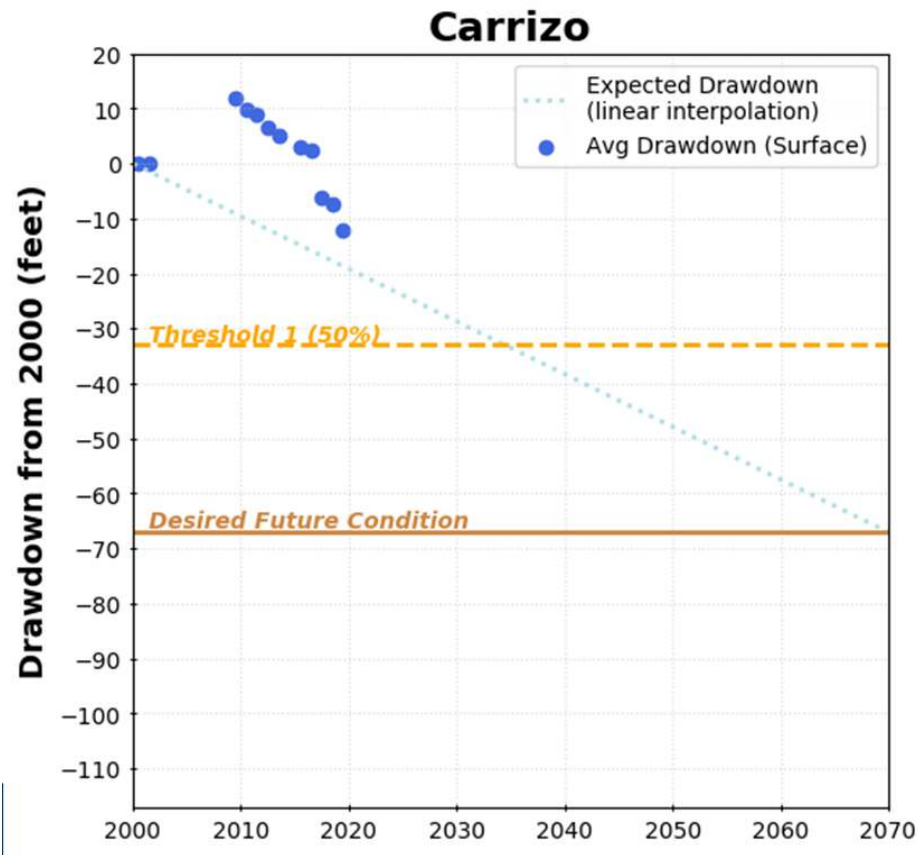
Groundwater Monitoring Update



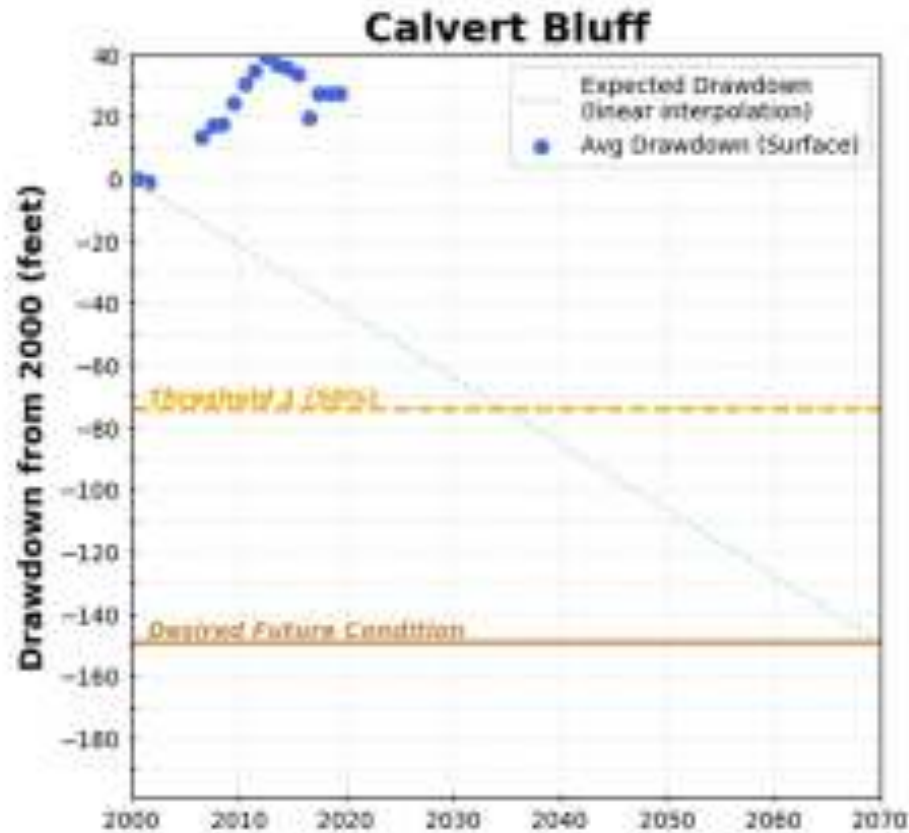
DFC Compliance



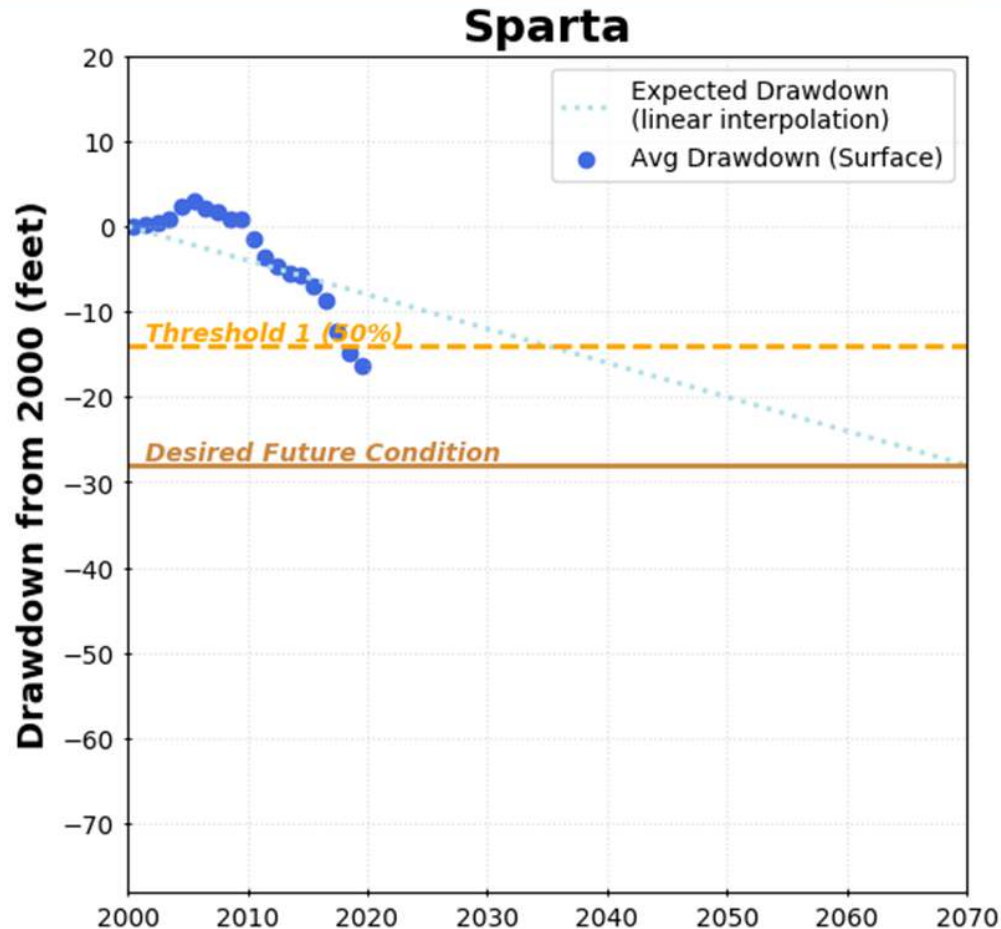
DFC Compliance



DFC Compliance

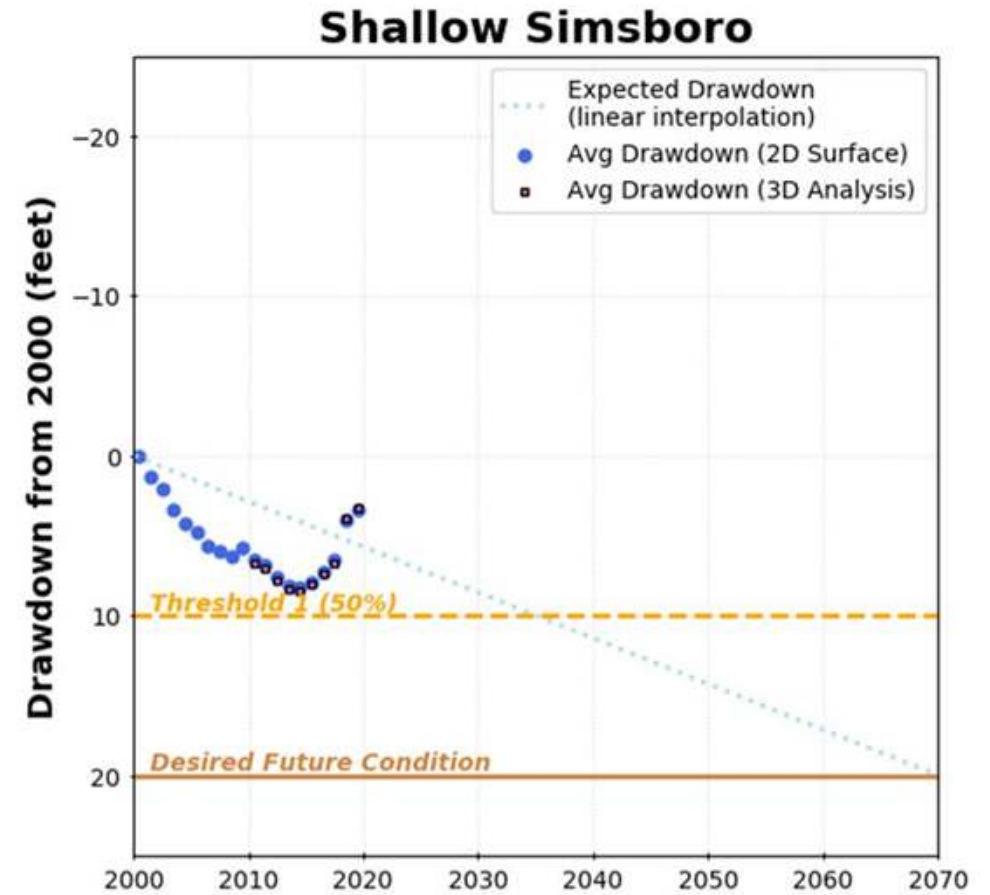
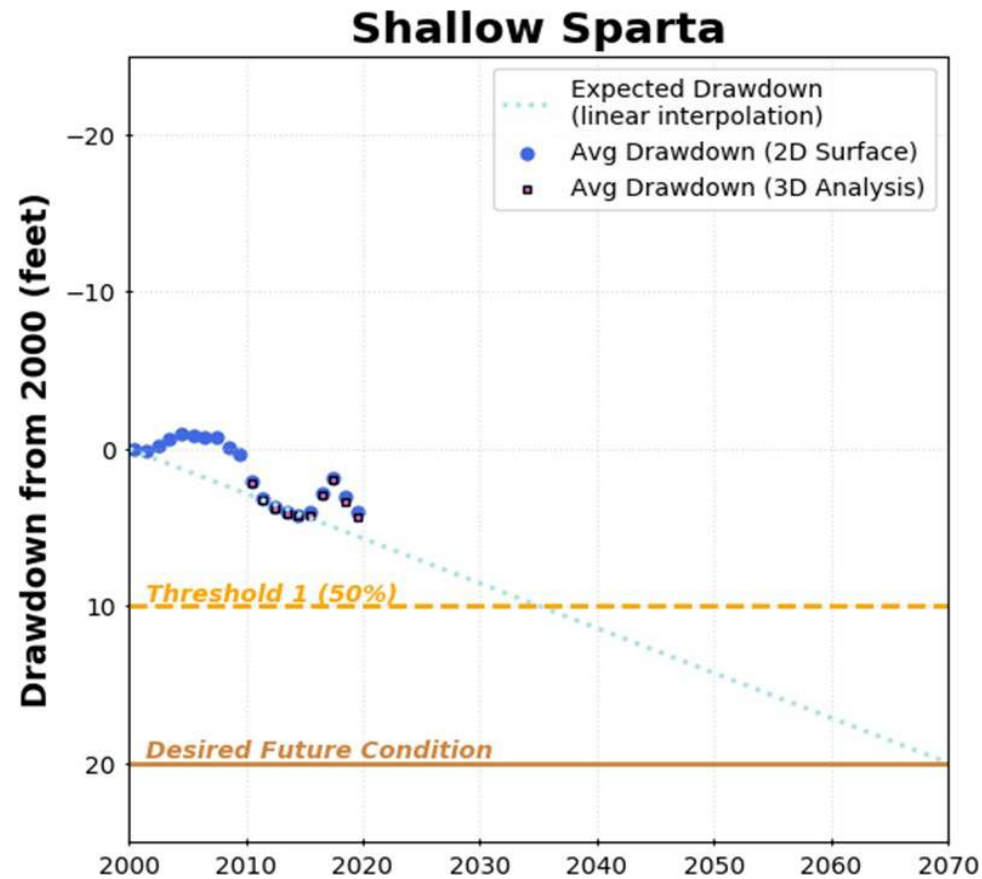


DFC Compliance

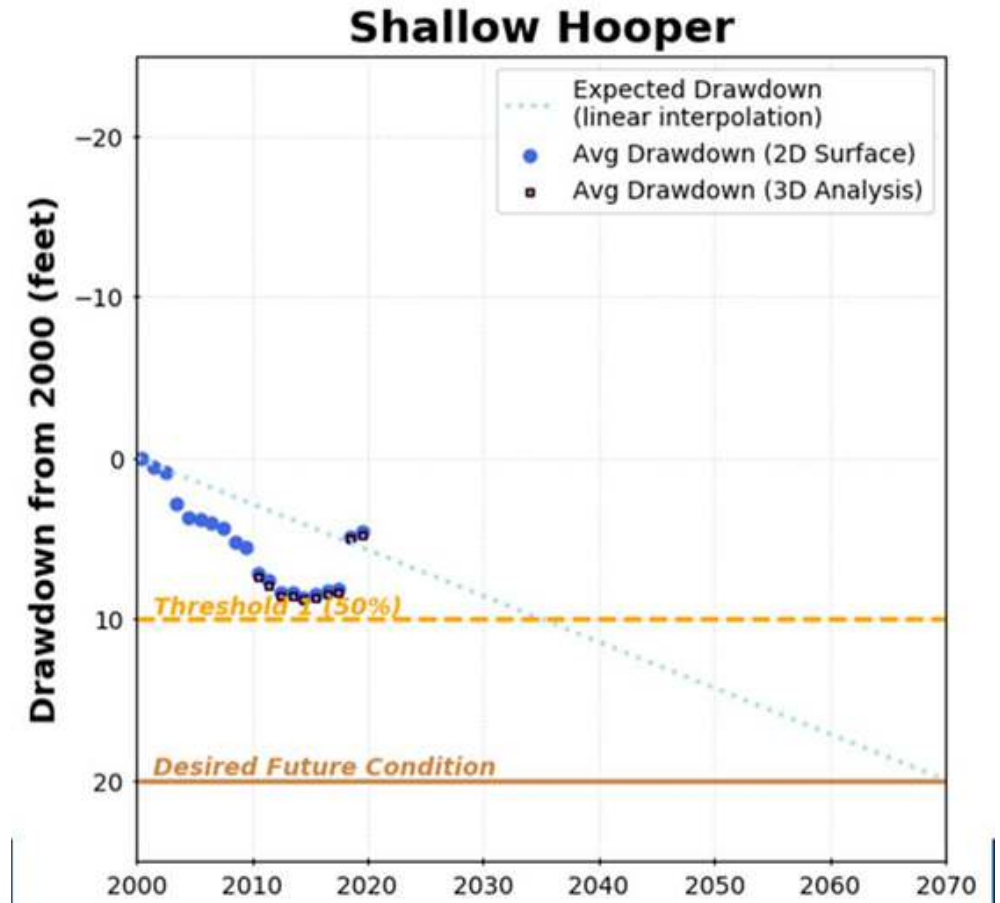
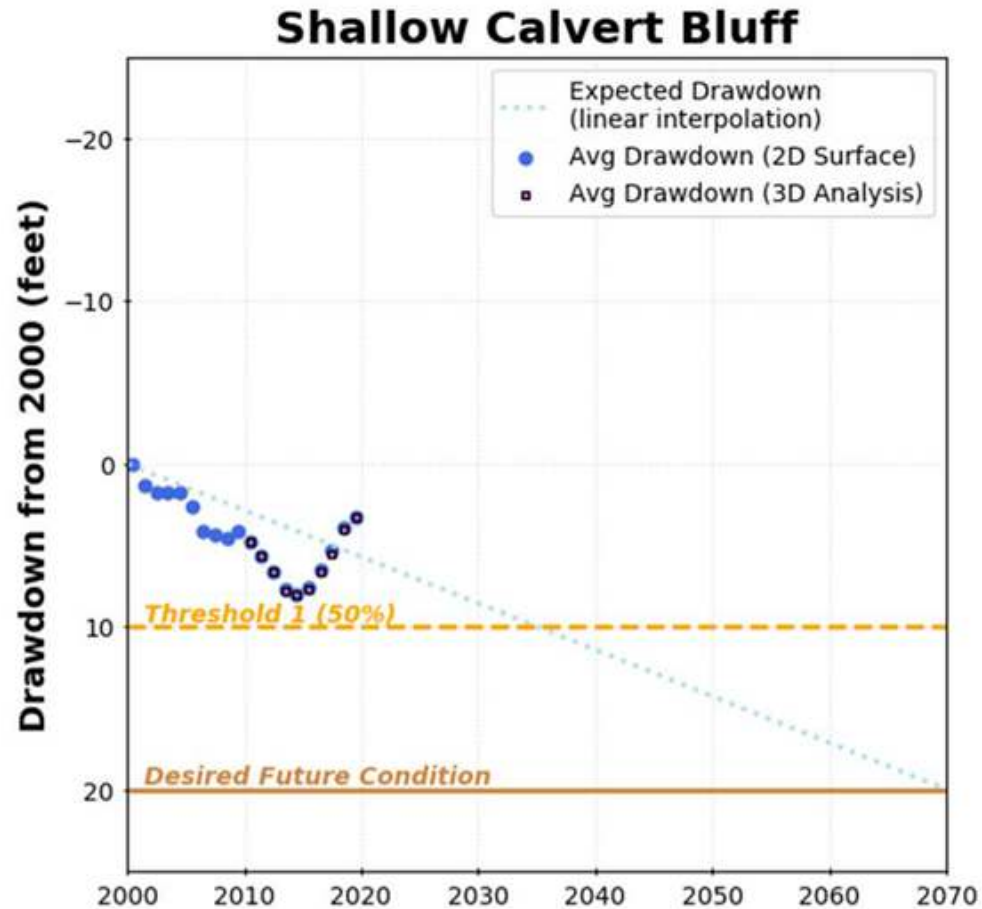


- Check how well model represents behavior in Sparta
- Determine amounts & locations of POSGCD Sparta pumping (*Royalty Pecan, Somerville, Snook, Tunis, Lyons*)
- Test sensitivity of model to Sparta pumping changes inside & outside POSGCD
- Report findings

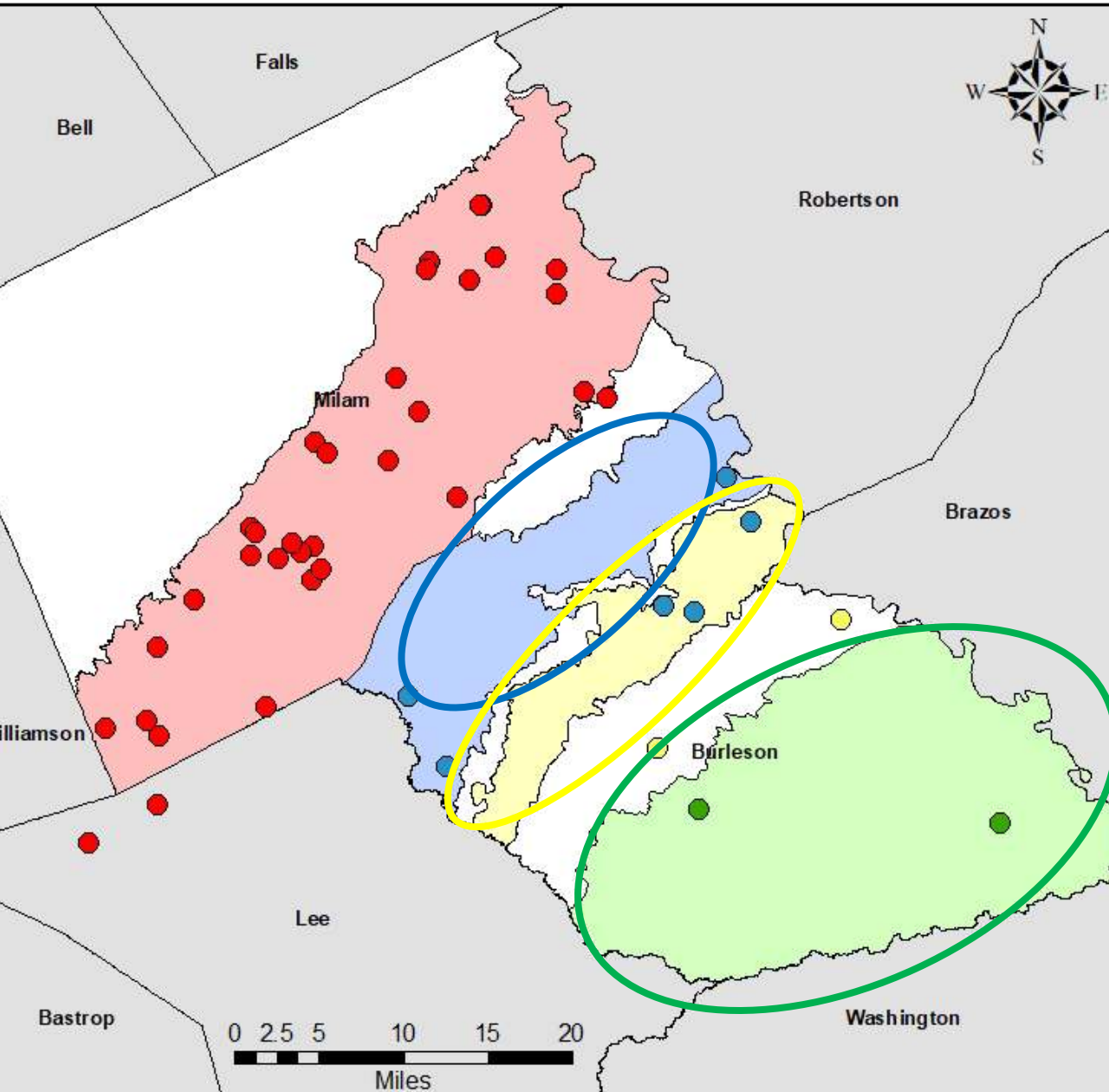
PDL Compliance



PDL Compliance



District Monitoring Wells - Shallow (<400) Management Zone



This map illustrates the wells in the District's Monitoring Network that are identified to be in the shallow management zone set for 400 feet. The District makes an effort to make management decisions that are supported through best available science. In an effort to improve this science, more wells are needed to increase the quantity and quality of data. While the Carrizo-Wilcox has been prioritized there is a strong need for some shift towards the minor aquifers in regards to number of shallow monitoring wells. This document is for DRAFT ONLY.

Legend

Monitor Wells <400

● Carrizo-Wilcox

● Queen City

● Sparta

● Yegua - Jackson

■ Carrizo-Wilcox Outcrop

■ Queen City Outcrop

■ Sparta Outcrop

■ Yegua-Jackson Outcrop



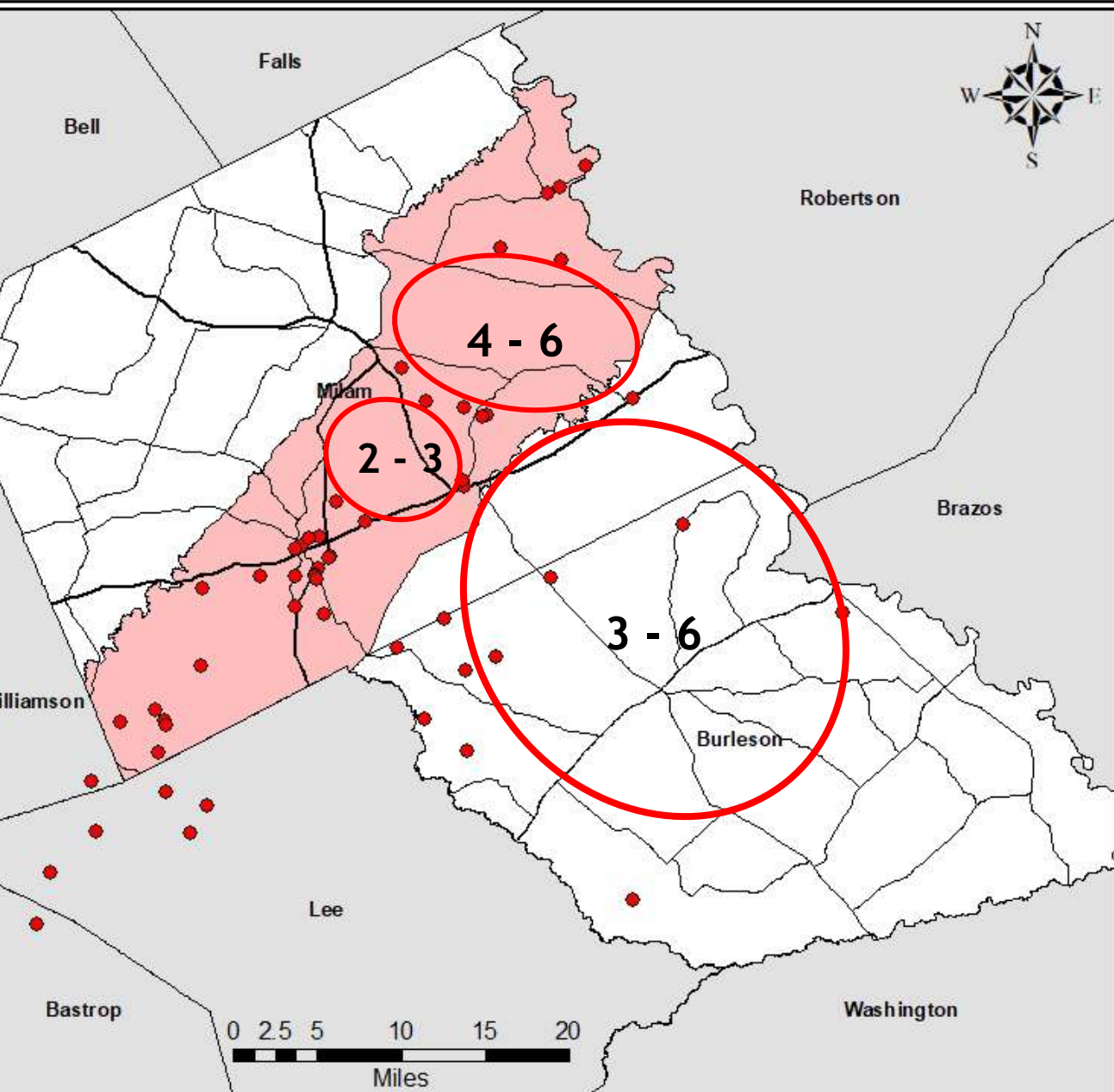
Shallow Monitoring Wells

The areas circled represent areas within the District where additional “shallow” wells (<400 ft) are needed to improve Protected Drawdown Limits (PDLs) and Modeling efforts.

Each Minor aquifer within the District, except Brazos Alluvium, are lacking sufficient shallow monitoring wells.

Efforts are also continuing in the Carrizo-Wilcox to locate shallower wells in order to compress the “Shallow” management zone down to closer represent the unconfined aquifer.

District Monitoring Wells - Simsboro Management Zone





This map illustrates the wells in the District's Monitoring Network that are identified to be in the Simsboro Management Zone. The District makes an effort to make management decisions that are supported through best available science. In an effort to improve this science, more wells are needed to increase the quantity and quality of data. While the Carrizo-Wilcox has been prioritized there is a strong need for some shift towards the minor aquifers in regards to number of shallow monitoring wells. This document is for DRAFT ONLY.



Legend

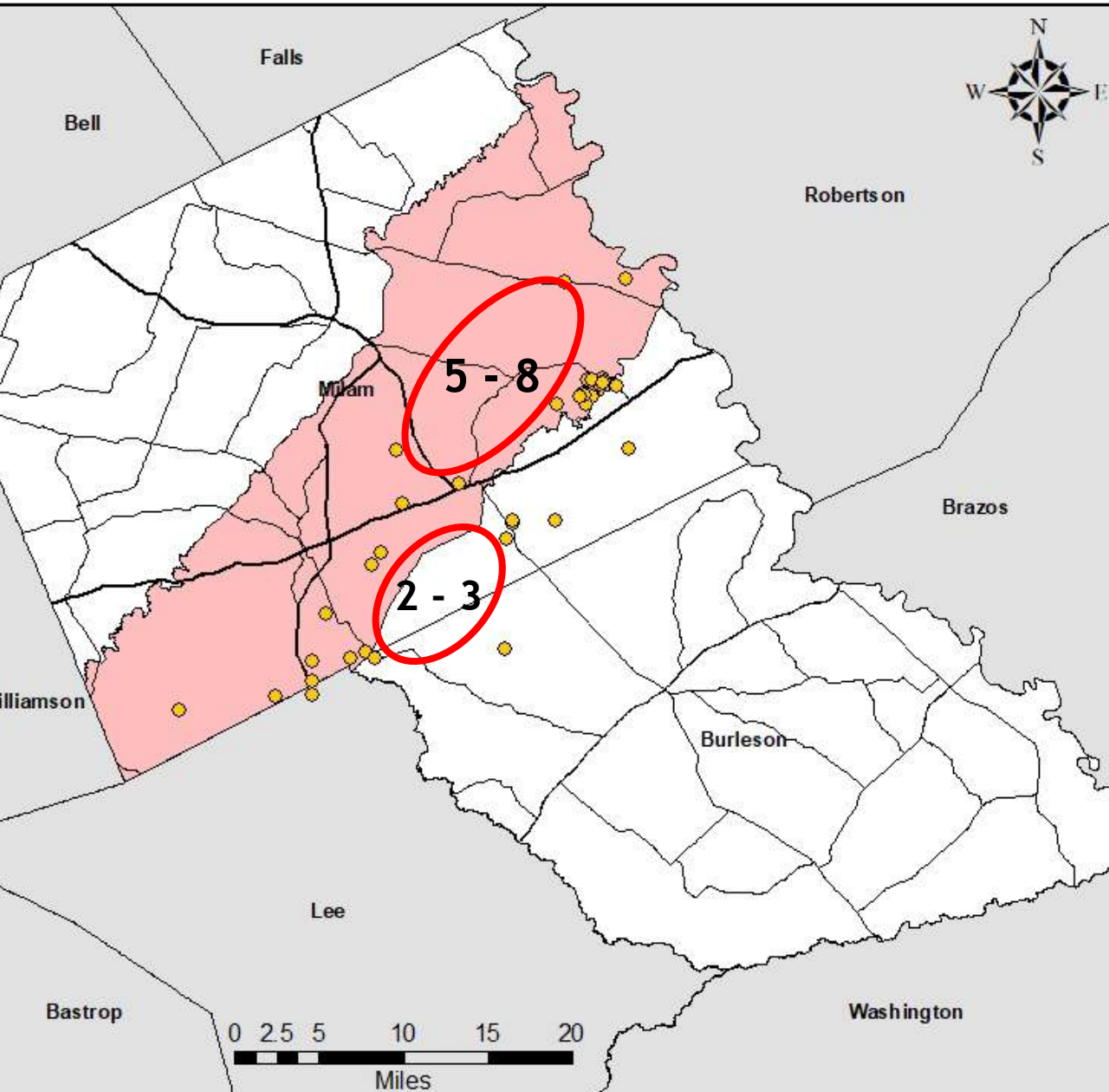
Aquifer

-  Simsboro
-  Carrizo-Wilcox Outcrop

Simsboro Management Zone

The “circled” areas indicate locations within the District that are need of additional monitoring wells within this particular formation.

District Monitoring Wells - Calvert Bluff Management Zone



This map illustrates the wells in the District's Monitoring Network that are identified to be in the Calvert Bluff Management Zone. The District makes an effort to make management decisions that are supported through best available science. In an effort to improve this science, more wells are needed to increase the quantity and quality of data. While the Carrizo-Wilcox has been prioritized there is a strong need for some shift towards the minor aquifers in regards to number of shallow monitoring wells. This document is for DRAFT ONLY.



Legend

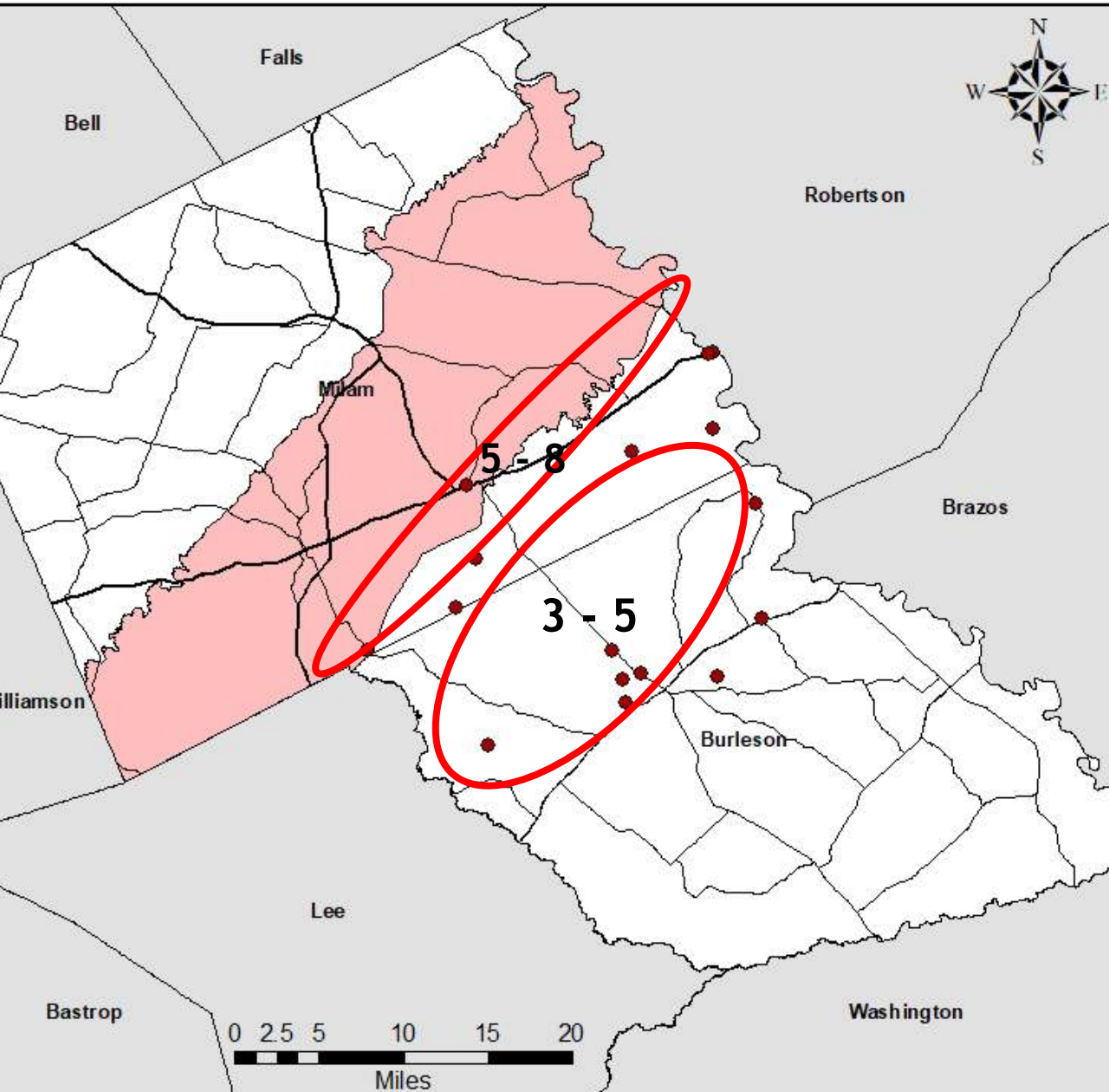
Aquifer

- Calvert Bluff
- Carrizo-Wilcox Outcrop

Calvert Bluff Management Zone

The “circled” areas indicate locations within the District that are need of additional monitoring wells within this particular formation.

District Monitoring Wells - Carrizo Management Zone



This map illustrates the wells in the District's Monitoring Network that are identified to be in the Carrizo Management Zone. The District makes an effort to make management decisions that are supported through best available science. In an effort to improve this science, more wells are needed to increase the quantity and quality of data. While the Carrizo-Wilcox has been prioritized there is a strong need for some shift towards the minor aquifers in regards to number of shallow monitoring wells. This document is for DRAFT ONLY.



Legend

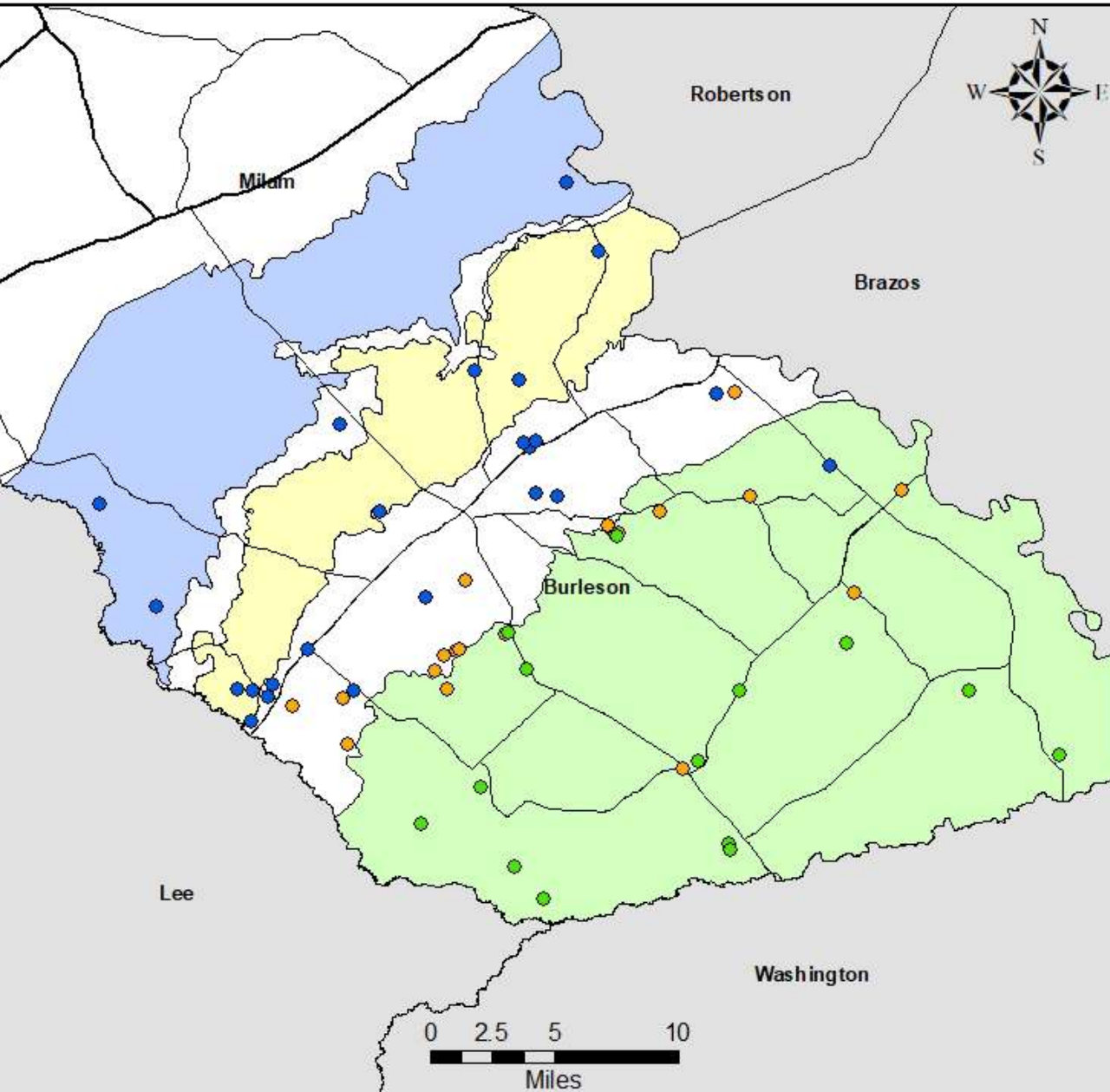
Aquifer

- Carrizo
- Carrizo-Wilcox Outcrop

Carrizo Management Zone

The “circled” areas indicate locations within the District that are need of additional monitoring wells within this particular formation.

District Monitoring Wells - Minor Aquifers



This map illustrates the wells in the District's Monitoring Network that are identified to be in the State's Minor Aquifers.

The District makes an effort to make management decisions that are supported through best available science. In an effort to improve this science, more wells are needed to increase the quantity and quality of data. While the Carrizo-Wilcox has been prioritized there is a strong need for some shift towards the minor aquifers in regards to number of shallow monitoring wells. This document is for DRAFT ONLY.



Legend

Aquifer

- Queen City
- Sparta
- Yegua - Jackson

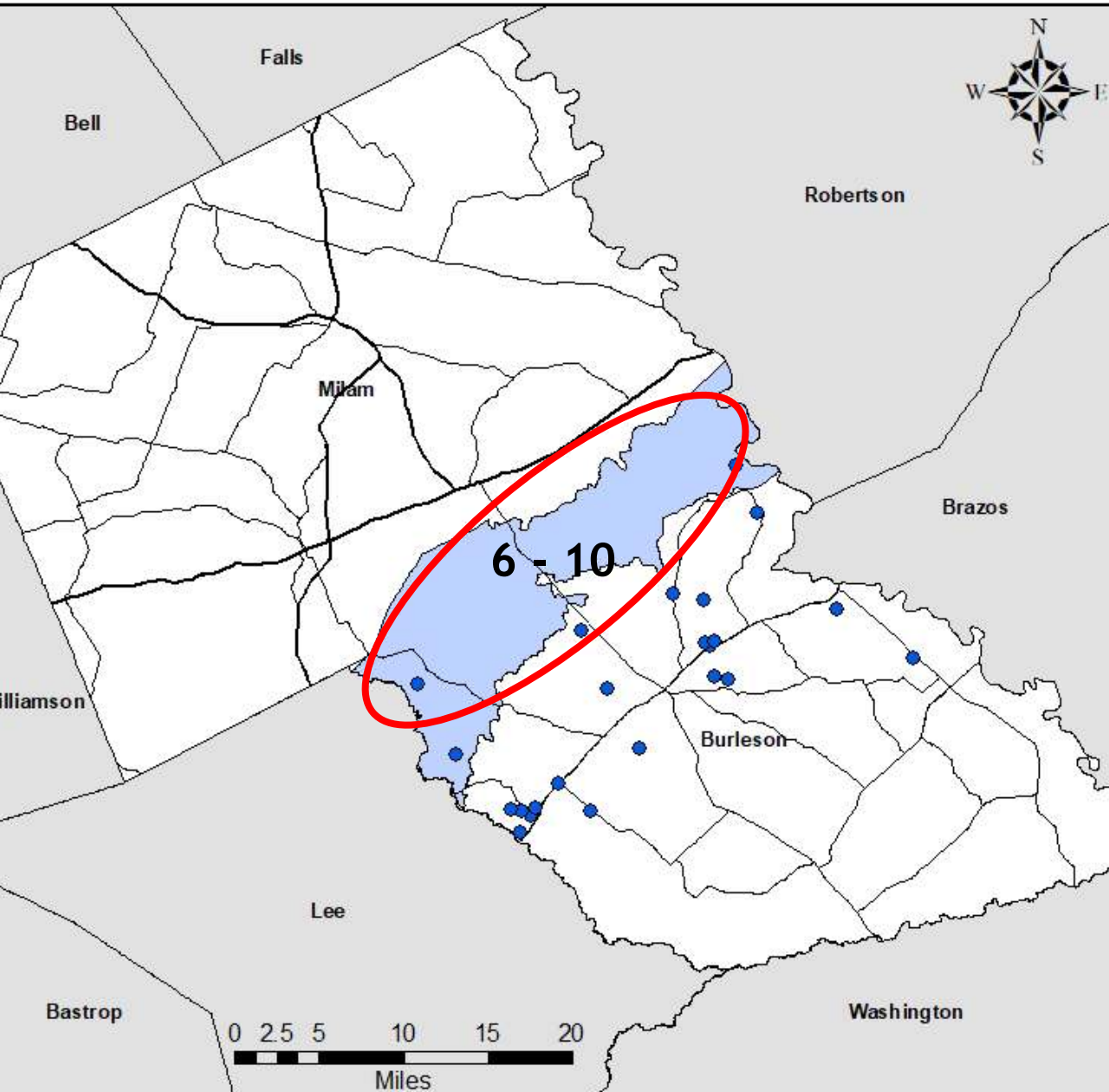
- Queen City Outcrop
- Sparta Outcrop
- Yegua-Jackson Outcrop

Minor Aquifers

This map depicts the distribution of monitoring wells in the Minor Aquifers within the District.

Illustrated is the difficulty of locating shallow wells within these formations due to well owner's priority of locating "drinkable" water when drilling.

District Monitoring Wells - Queen City Management Zone



This map illustrates the wells in the District's Monitoring Network that are identified to be in the Queen City Management Zone. The District makes an effort to make management decisions that are supported through best available science. In an effort to improve this science, more wells are needed to increase the quantity and quality of data. While the Carrizo-Wilcox has been prioritized there is a strong need for some shift towards the minor aquifers in regards to number of shallow monitoring wells. This document is for DRAFT ONLY.



Legend

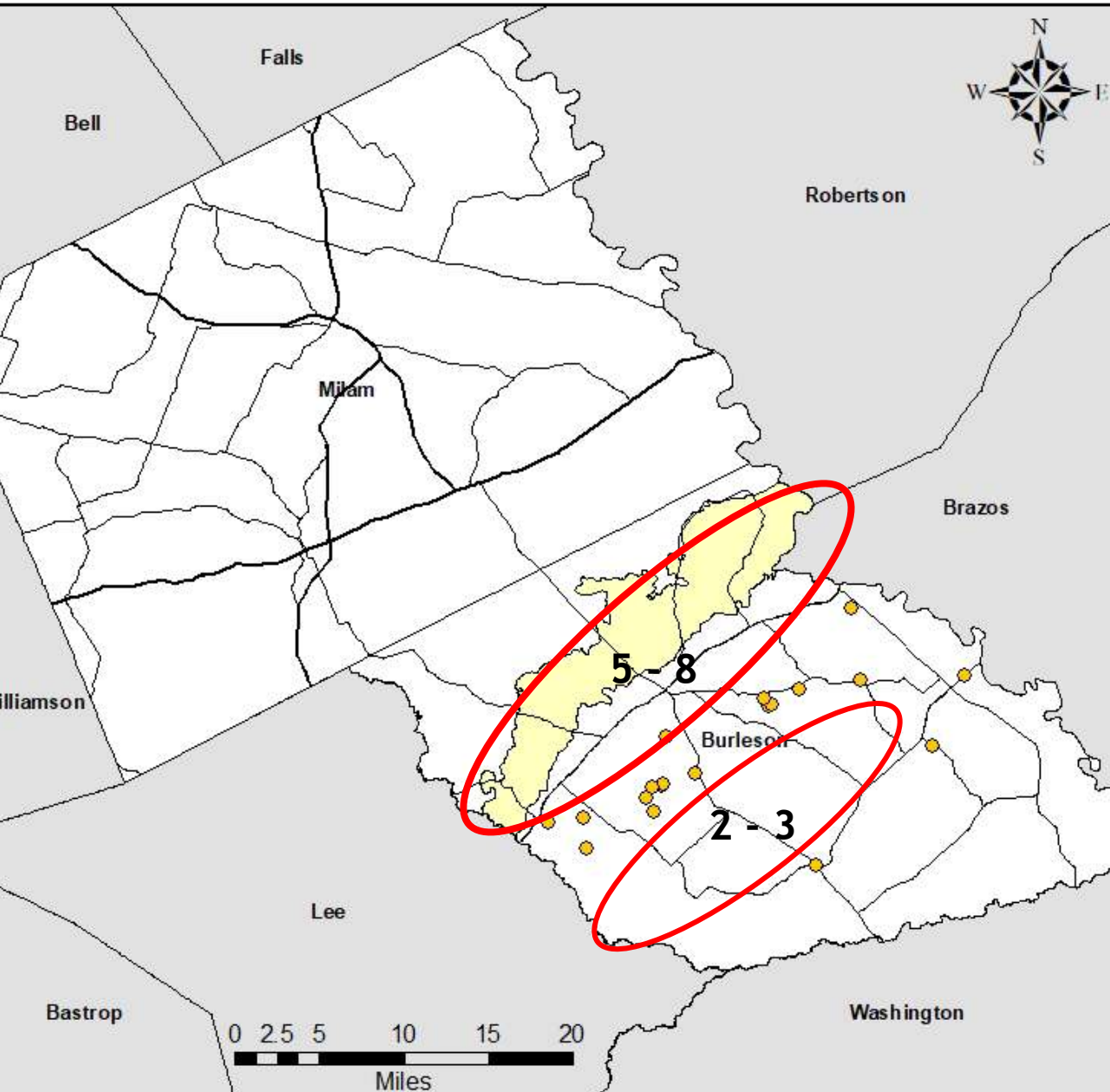
Aquifer

- Queen City
- Queen City Outcrop

Queen City Management Zone

The “circled” areas indicate locations within the District that are need of additional monitoring wells within this particular formation.

District Monitoring Wells - Sparta Management Zone



This map illustrates the wells in the District's Monitoring Network that are identified to be in the Sparta Management Zone.

The District makes an effort to make management decisions that are supported through best available science. In an effort to improve this science, more wells are needed to increase the quantity and quality of data. While the Carrizo-Wilcox has been prioritized there is a strong need for some shift towards the minor aquifers in regards to number of shallow monitoring wells. This document is for DRAFT ONLY.



Legend

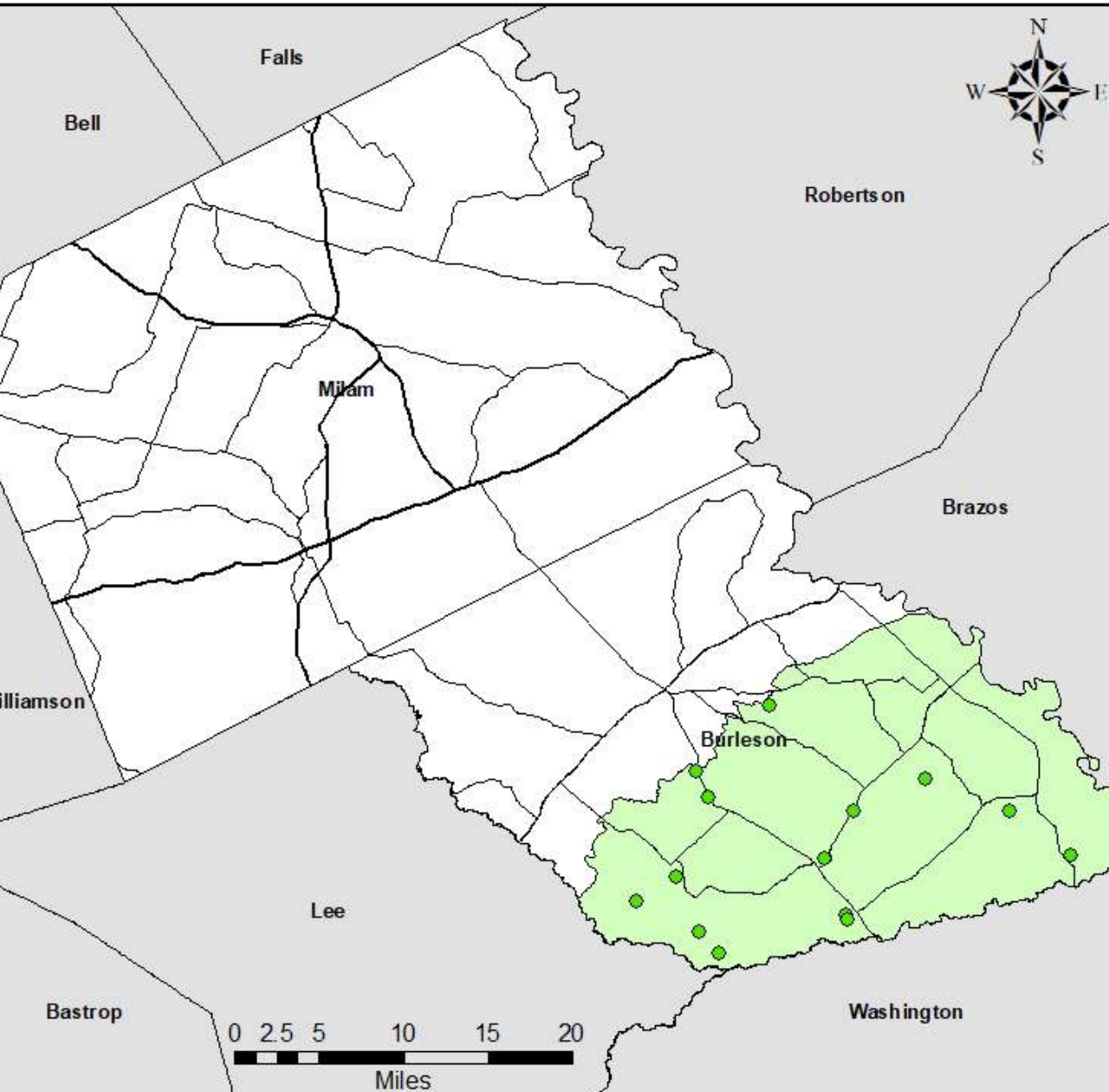
Aquifer

-  Sparta
-  Sparta Outcrop

Sparta Management Zone

The “circled” areas indicate locations within the District that are need of additional monitoring wells within this particular formation.

District Monitoring Wells - Yegua-Jackson Management Zone



This map illustrates the wells in the District's Monitoring Network that are identified to be in the Yegua-Jackson Management Zone.

The District makes an effort to make management decisions that are supported through best available science. In an effort to improve this science, more wells are needed to increase the quantity and quality of data. While the Carrizo-Wilcox has been prioritized there is a strong need for some shift towards the minor aquifers in regards to number of shallow monitoring wells. This document is for DRAFT ONLY.



Legend

Aquifer

● Yegua - Jackson

■ Yegua-Jackson Outcrop

Yegua-Jackson Management Zone

The priority for this management zone is to locate wells throughout the formation due to the inconsistent nature of the aquifer.