

BELL COUNTY WCID 1 REPORT

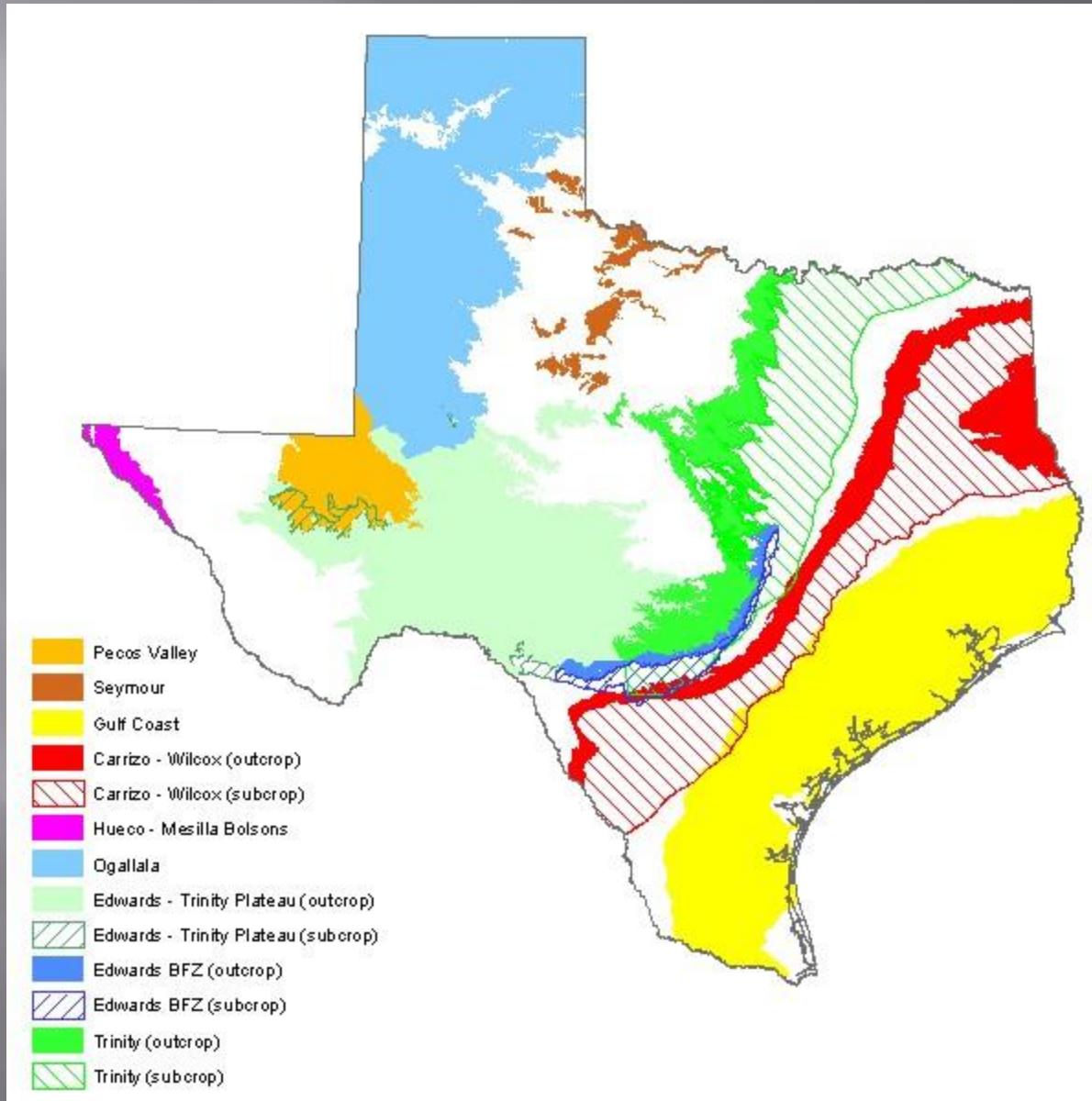
Killeen City Council
November 12, 2019

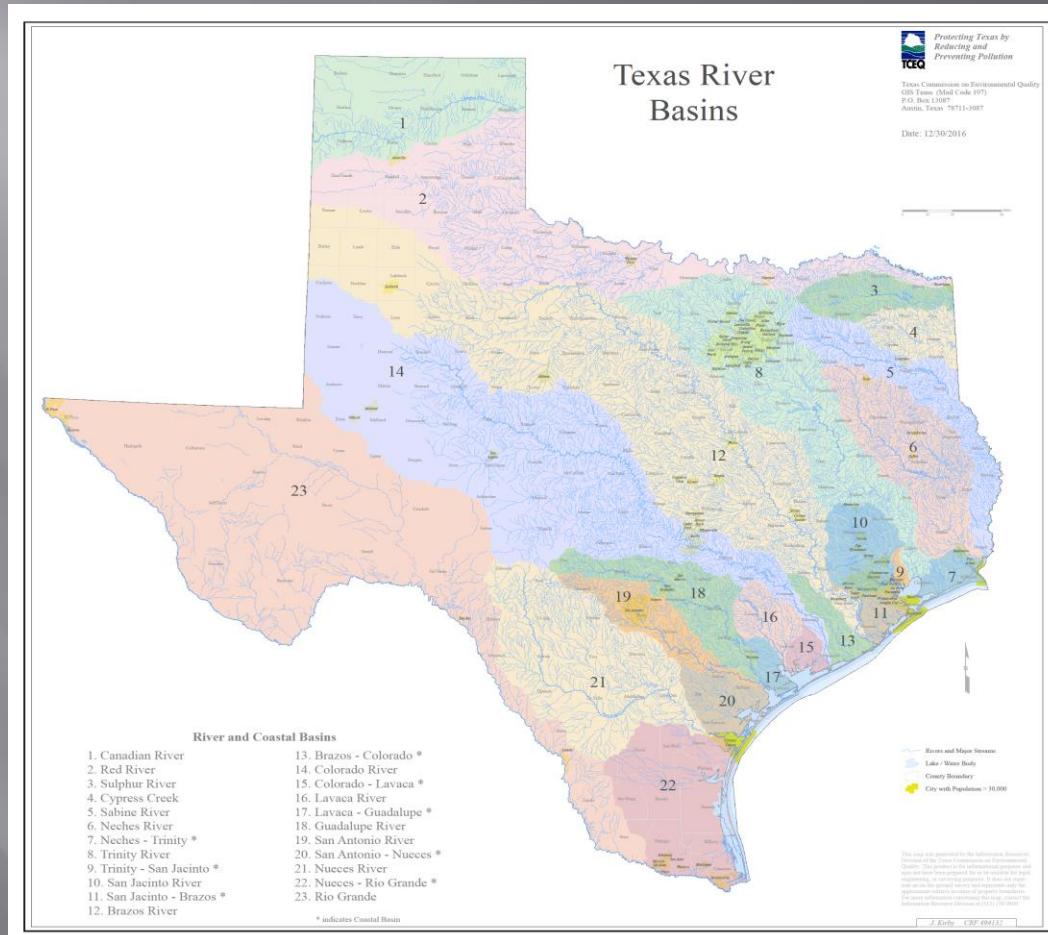
WCID 1 Outline

- Water Overview
 - Surface Water vs Groundwater
 - Surface Water in Texas
 - Killeen's enviable status
 - ASR
- Wastewater Overview
 - Capacity Projections
- Lake Stillhouse Project Summary
- District Boundary Changes

The Water Cycle







Brazos River Authority Water Supply Reservoirs



The
T E X A S
P I C T U R E

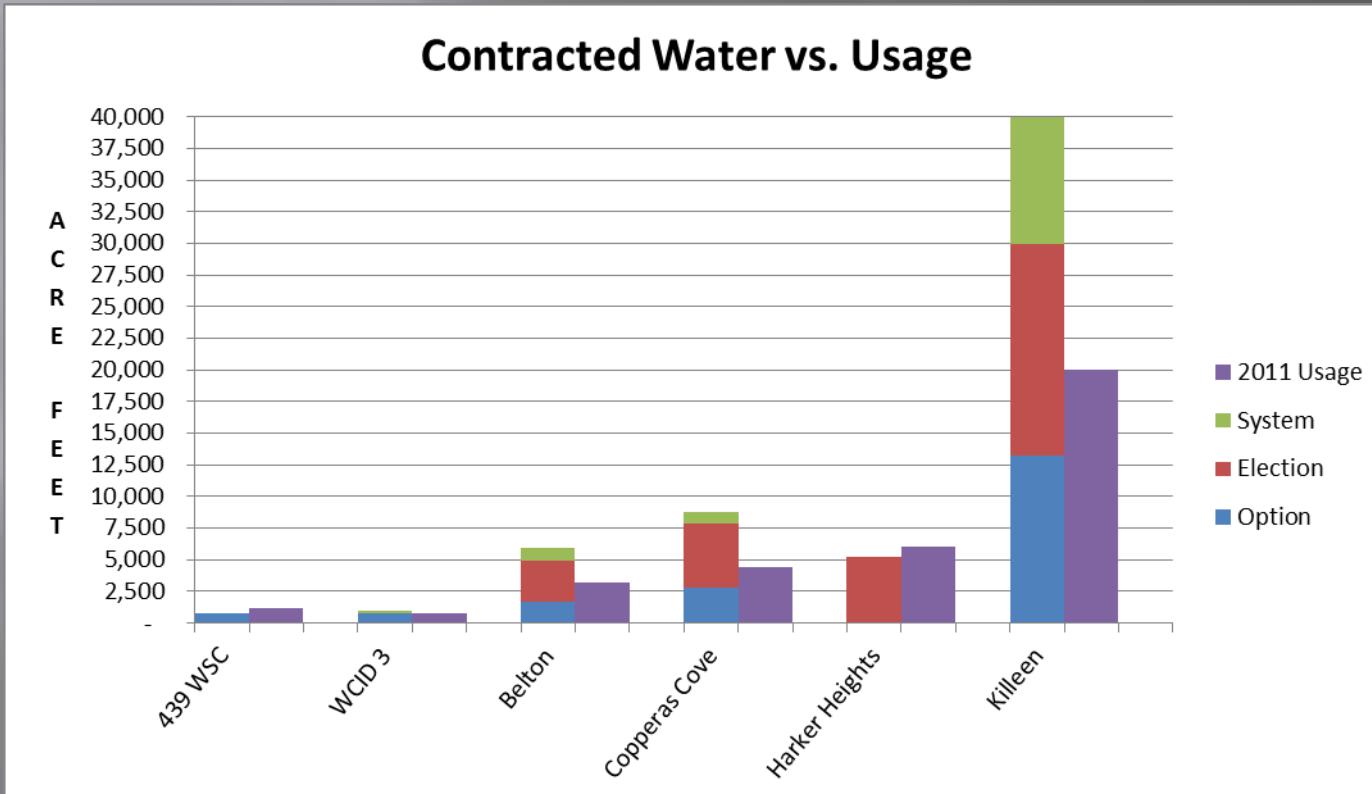


Capacity

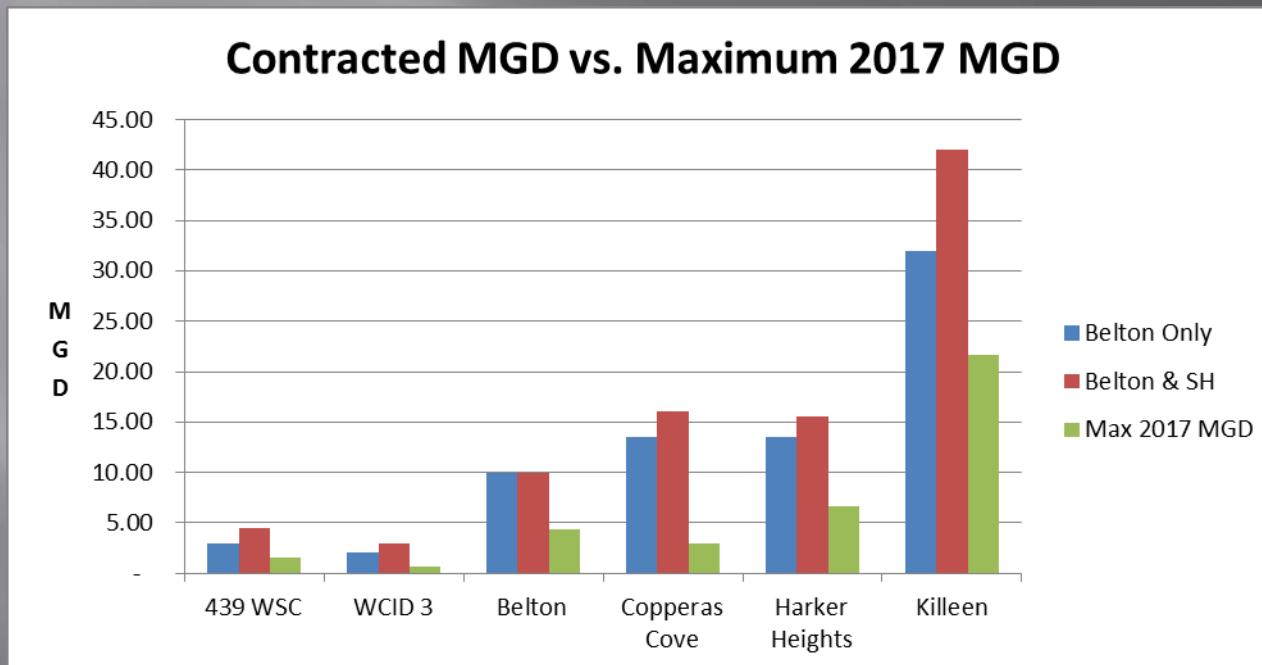
Water Rights Summary

Entity	Two Tier Water (Option/Election Use)	System Water	Other Water Rights	Total Water Rights
Killeen	29,964	10,000	-	39,964
Copperas Cove	7,824	1,000	-	8,824
Belton	4,966	1,000	2,500	8,466
Harker Heights	5,265	-	3,235	8,500
WCID #3	740	250	-	990
439	750	-	1,409	2,159
District	-	750	-	750
Totals	49,509	13,000	7,144	69,653

Capacity-Available and Used

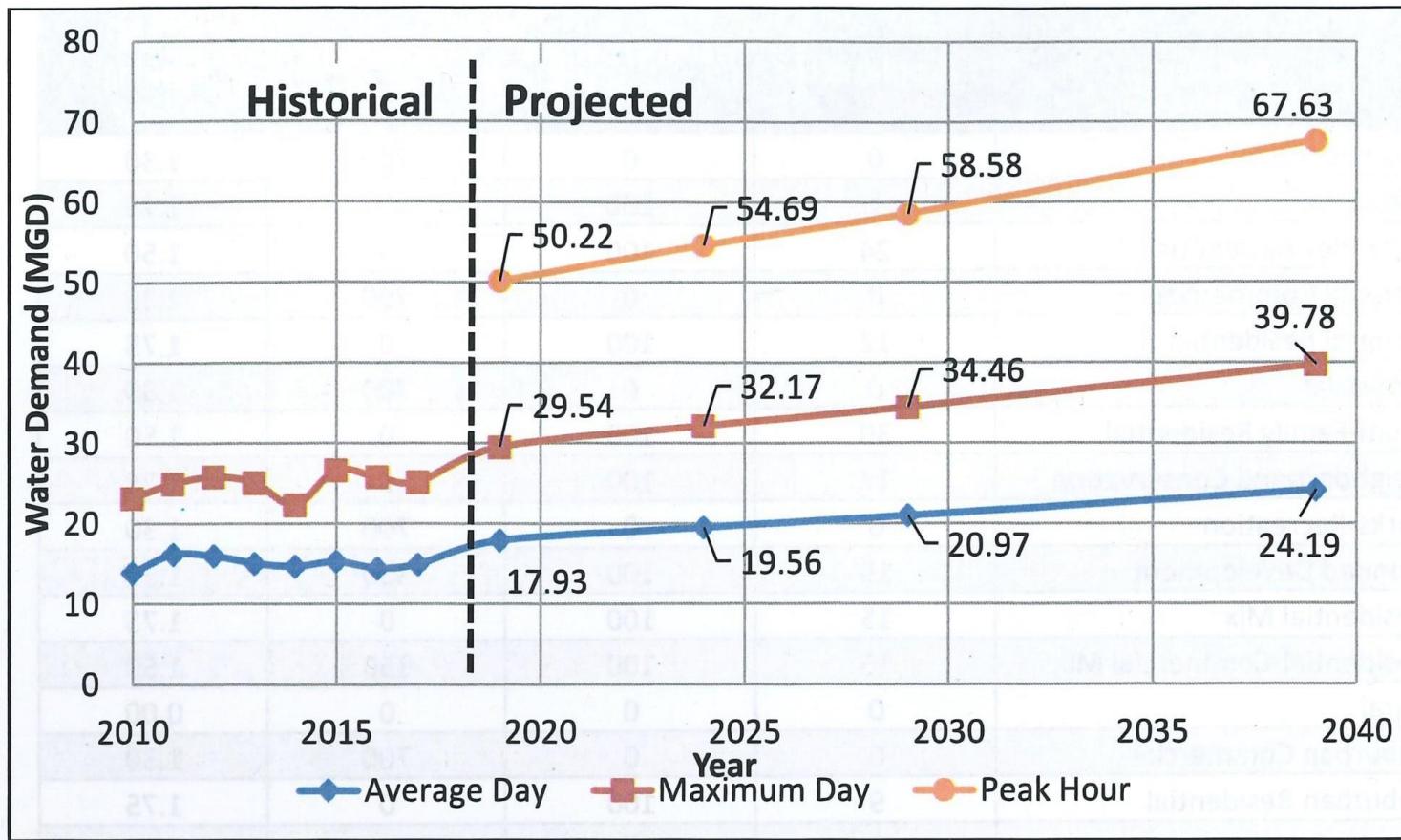


Capacity - Daily Usage



FROM DRAFT MASTER PLAN

Figure 3-1 Historical and Projected Water Demands



Surface Water Constraints

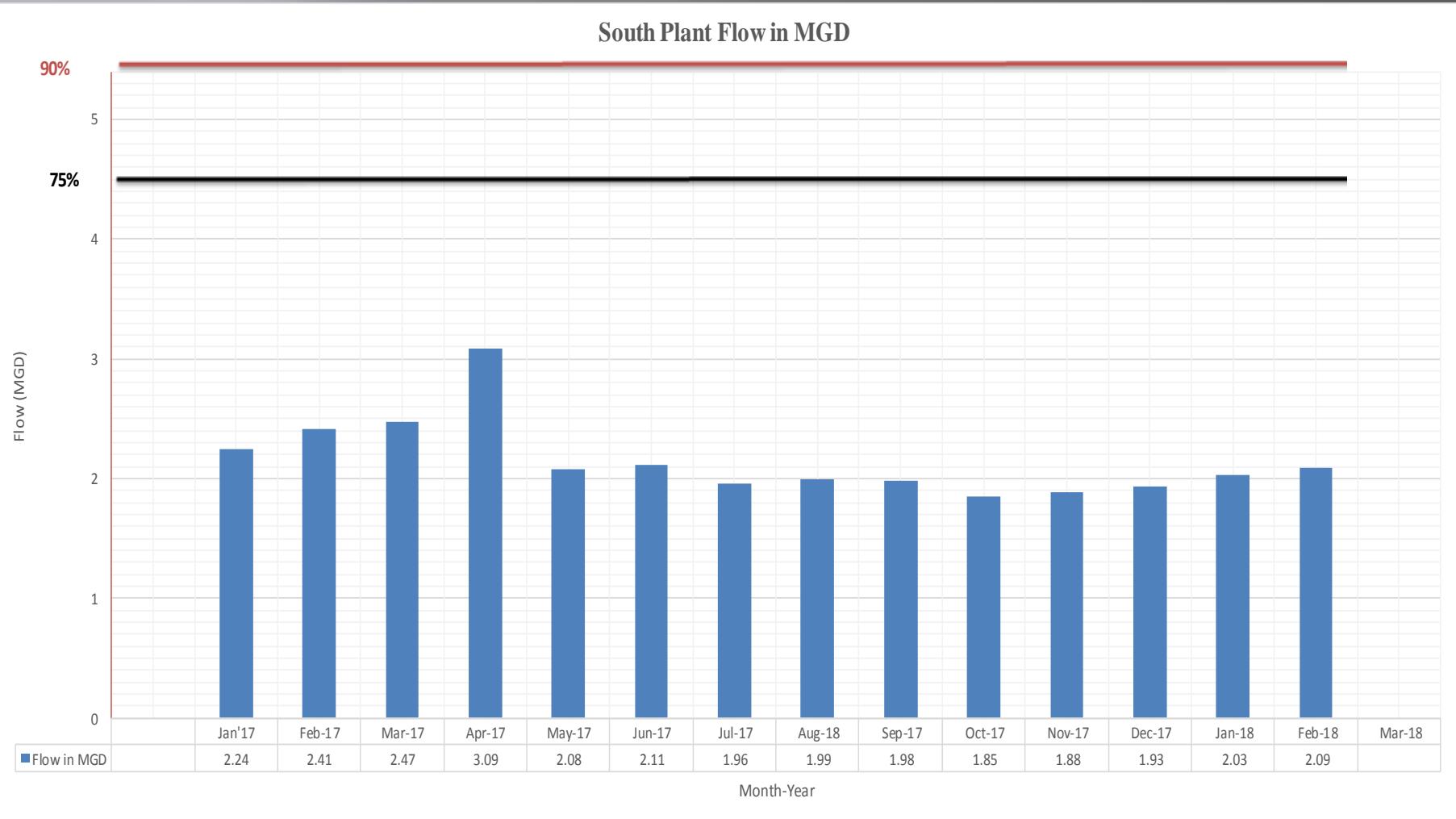
- Surface water is considered waters of the state and withdrawal is managed through the Water Rights system. If availability is limited, the water right that is senior, by date, has first priority for the water that's available.
- Unlike groundwater, surface water is subject to evaporation. During droughts, evaporation becomes a significant factor that diminishes supplies.

What is ASR

- ❑ ASR or Aquifer Storage and Recovery as the name implies involves storing water in an aquifer to be recovered/used at a later date. This is a proven technique that is not available or feasible in many places. Most areas of the Trinity for example, the aquifer sands are too tight to allow storage without imparting a great deal of energy. Also, the storage “room” is limited.

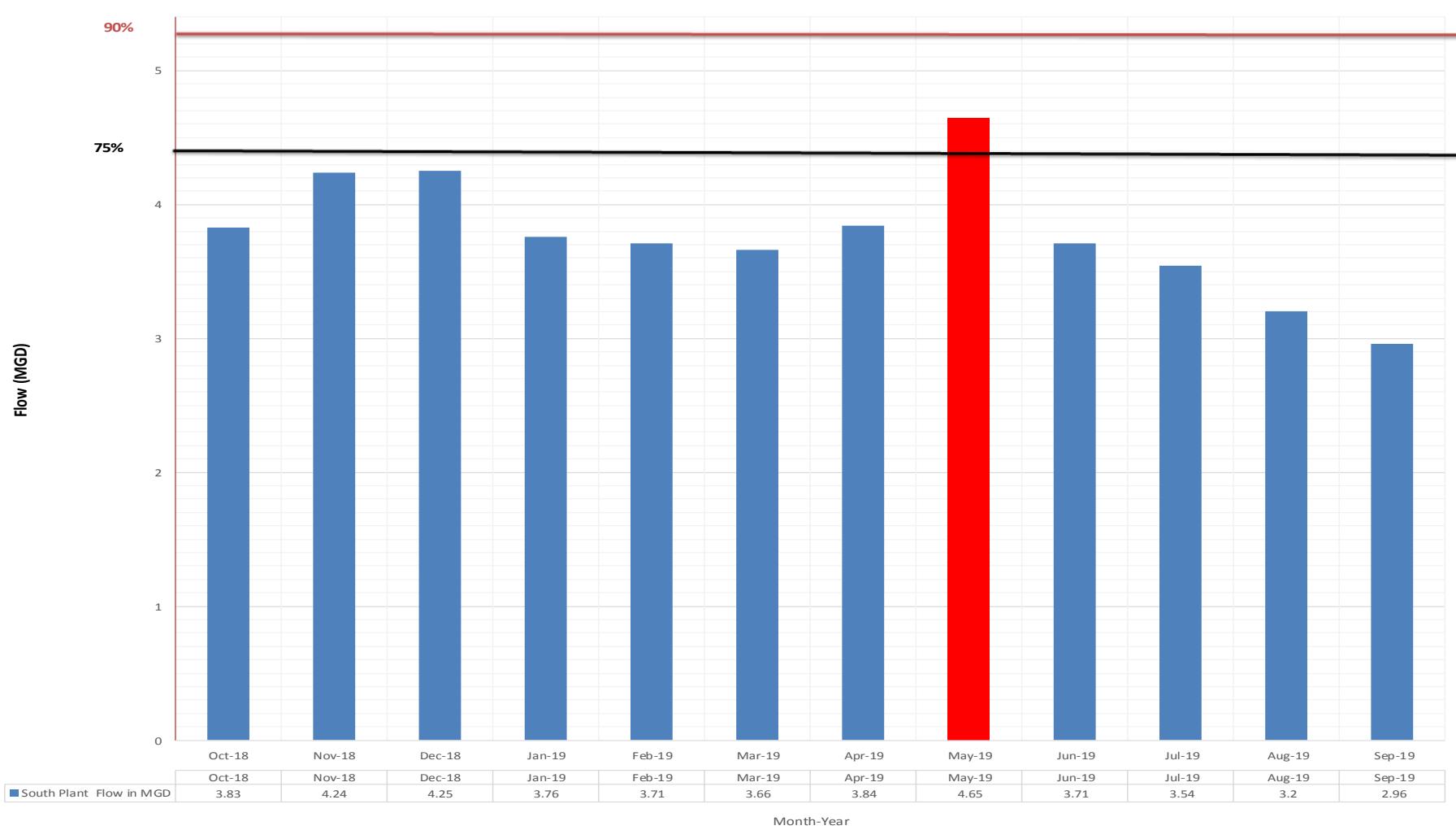
Wastewater Overview

Capacity Projections



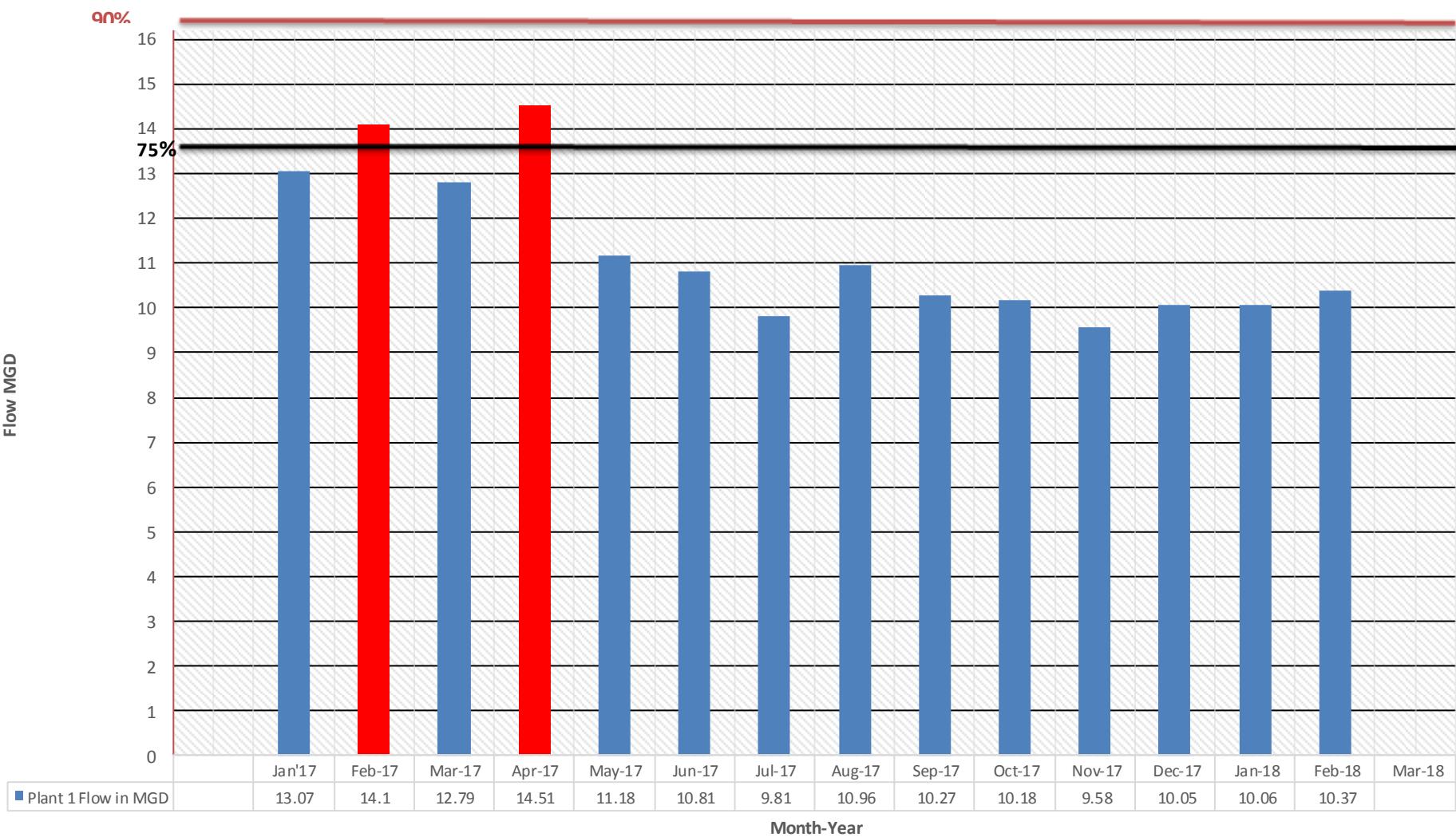
Historical Flows

South Plant Flow in MGD



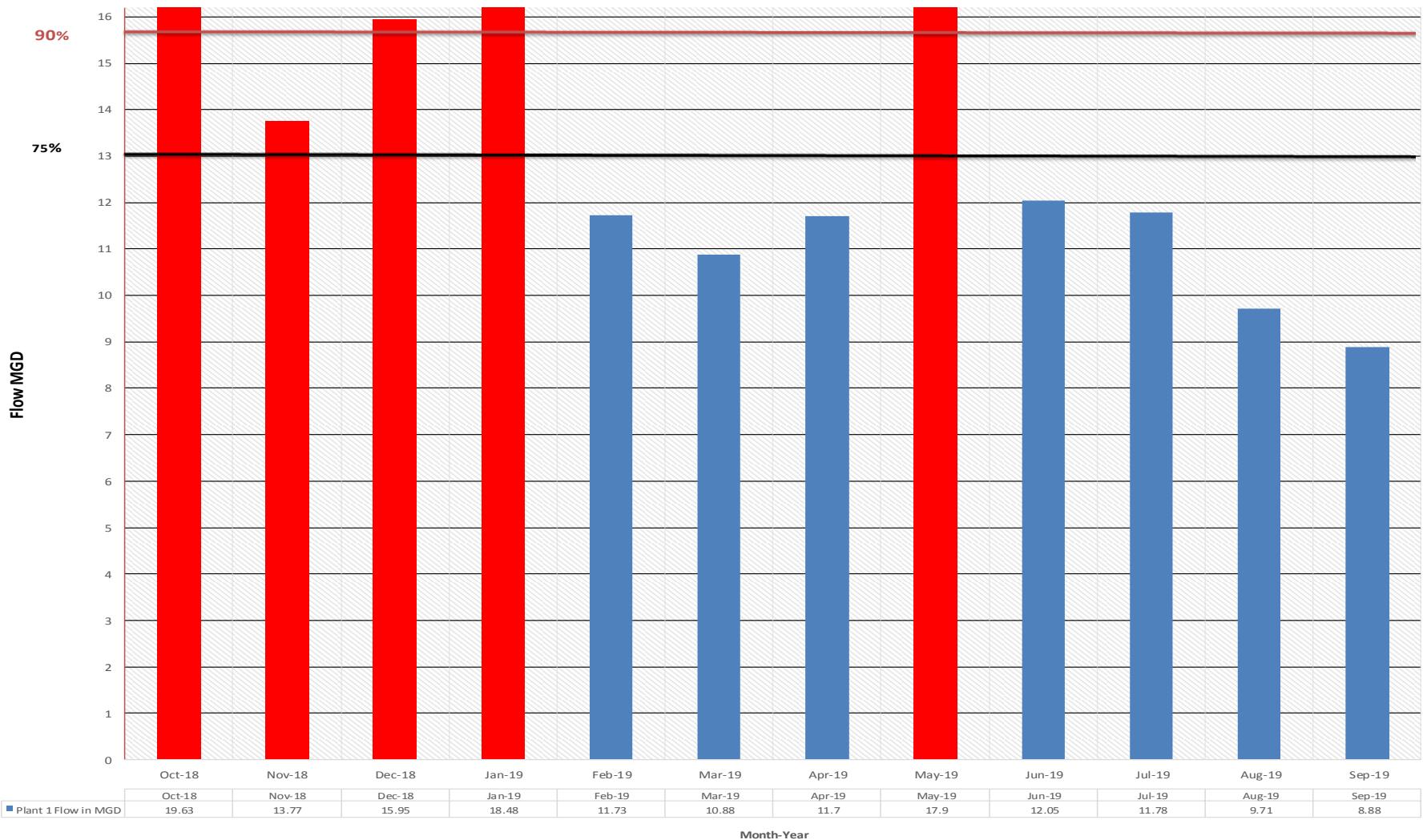
Capacity Projections

Plant 1 Flow in MGD



Historical Flows

Plant 1 Flow in MGD



Stillhouse Project Summary

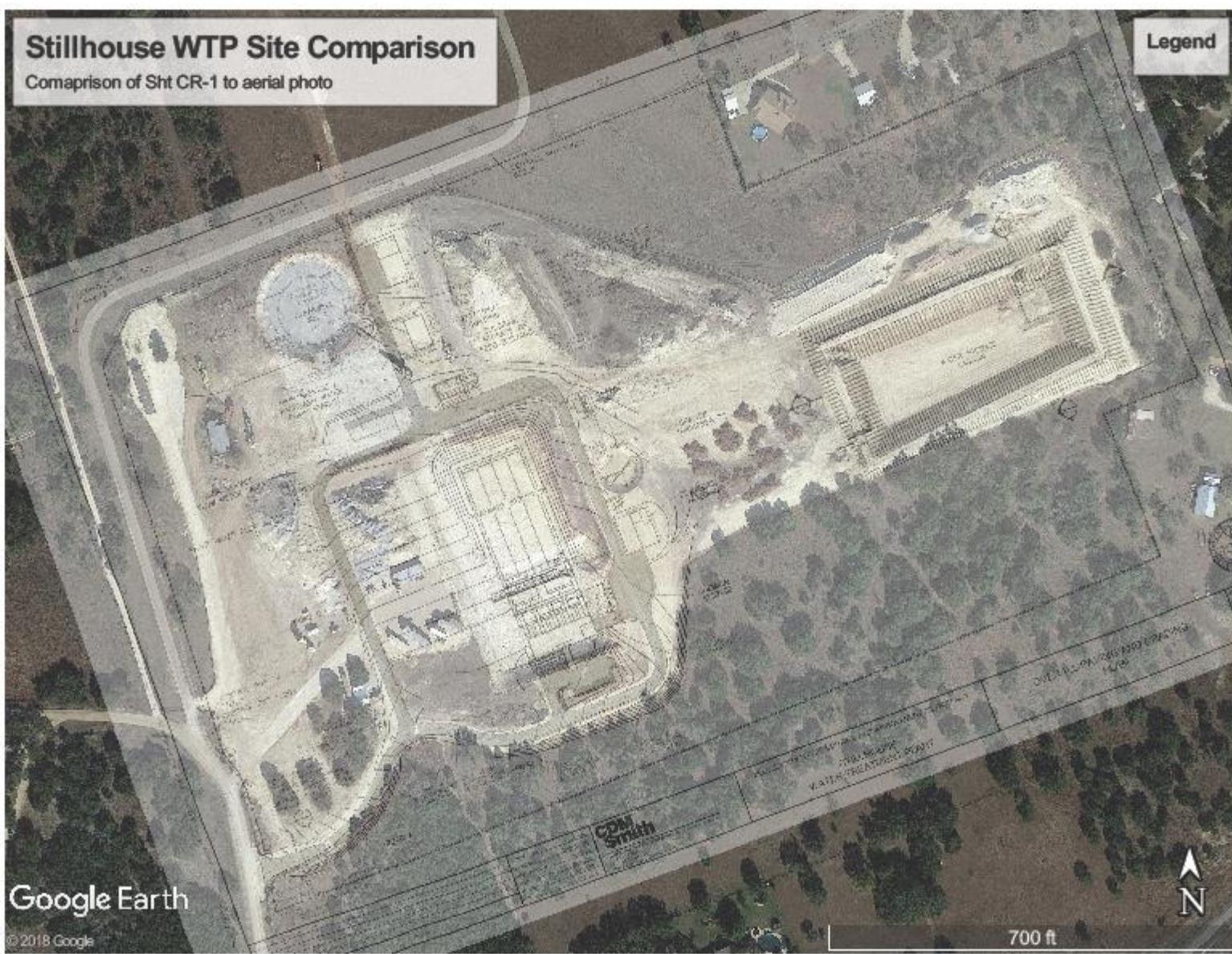


Imagery Date: 1/23/2018 31°01'12.05" N 97°35'18.29" W elev 0 ft eye alt 10.33 mi

Stillhouse WTP Site Comparison

Comparison of Sht CR-1 to aerial photo

Legend



Google Earth

© 2018 Google

SCHEDULE

Updated May 20, 2019

Legend



Water Pipelines

Diameter (in)



Water CCN

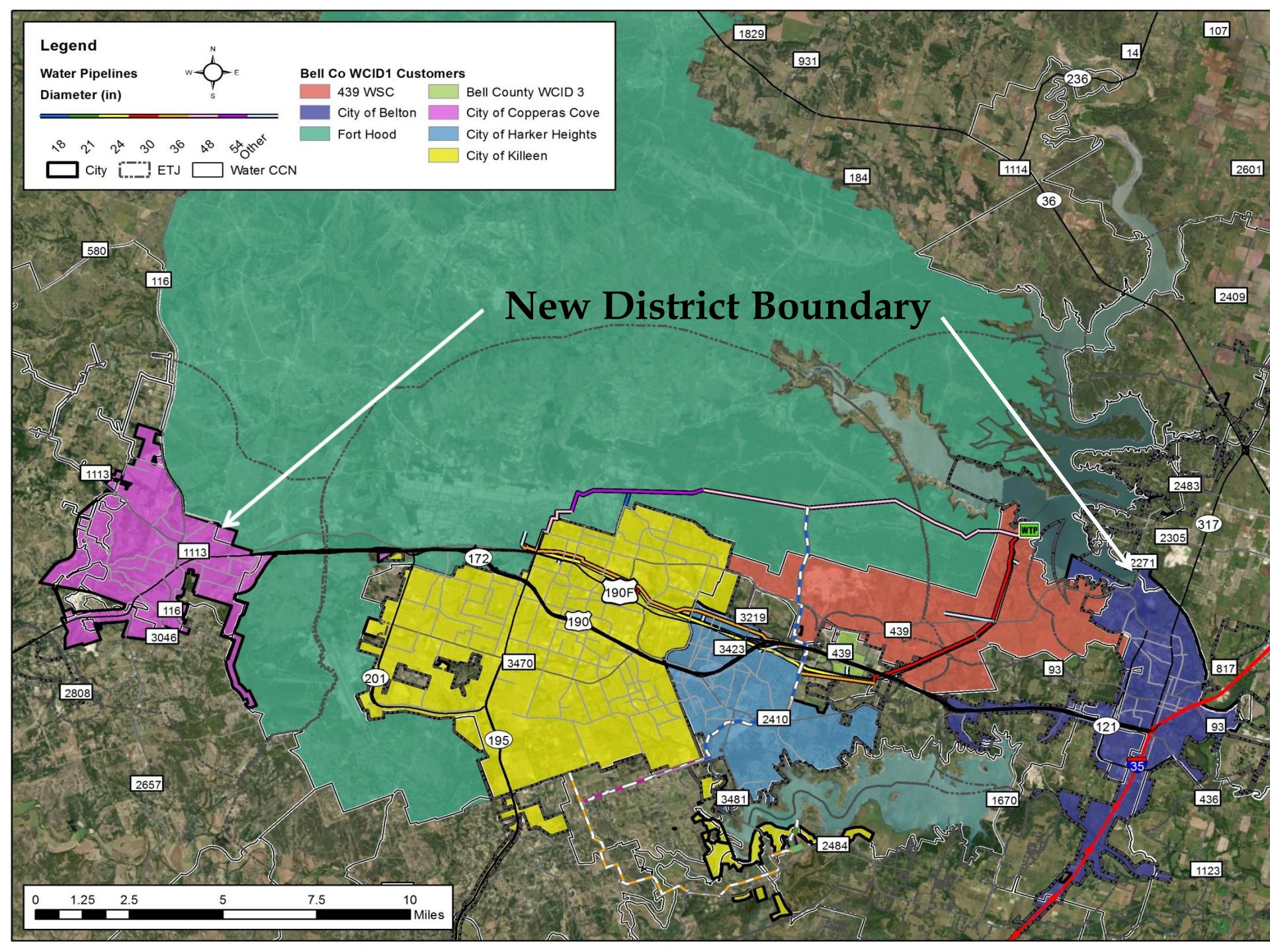
Bell Co WCID1 Customers

439 WSC

City of Belton
Fort Hood

-  Bell County WCID 3
-  City of Copperas Cove
-  City of Harker Heights
-  City of Killeen

New District Boundary



Questions?