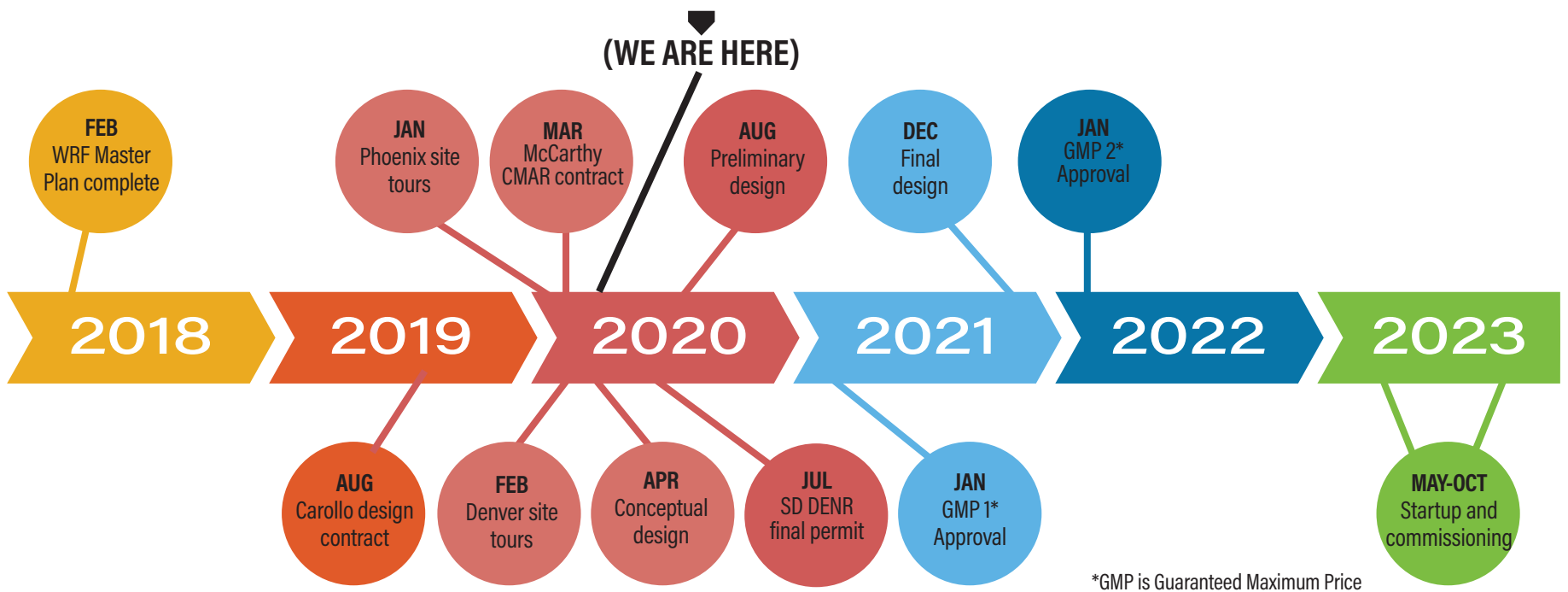


WATER RECLAMATION FACILITY Improvements and Expansion Project



BIOSOLIDS HANDLING PILOT PROJECT

Equipment

- 2018—Screw Press**
- 2019—Belt Filter Press**
- 2020—Centrifuge**



Trailer-mounted centrifuge



Hauling and application equipment

Summary

The current liquid land application has served the City well for almost 30 years, but increased biosolids production no longer allows this program to run efficiently. Therefore, Water Reclamation has implemented a pilot program for testing the following three biosolids dewatering and handling processes. These processes will assist in creating a more efficient biosolids processing and application program in the future.

Factors

- Biosolids are continually produced year-round, but liquid application for farm fields is limited to a few months each year.
- Liquid application requires five times the truck hauling as dewatered cake biosolids.

Result

1. Reduced FTEs necessary to operate the biosolids program.
2. Operate a more efficient biosolids land application program.
3. Decrease truck hauling loads to the field by removing water from biosolids (5-to-1 trucking ratio; liquid vs. dewatered cake process) reducing hauling costs.

Liquid Application
3 to 6 percent solids content
Number of Trips:



Cake Application
18 to 22 percent solids content
Number of Trips:



Significant transportation savings