

City of Waco North Brazos Wastewater Treatment Plant



Tuesday, January 16, 2024

Lisa Tyer

Water Utility Services

Site for a Wastewater Treatment Plant

Study of the China Spring Area sewer basin completed in 2019

- Growth is exceeding capacity
- Need to preserve capacity in the East Bank interceptor
 - Upsizing the interceptor along the Brazos River would be expensive & disruptive
- Reclaim water re-use feasibility favorable
- Determining a site for a wastewater treatment plant allows for proper planning
- Public Meeting was held at China Spring ISD Administration Building on September 5, 2019 to discuss the need for a future wastewater treatment plant

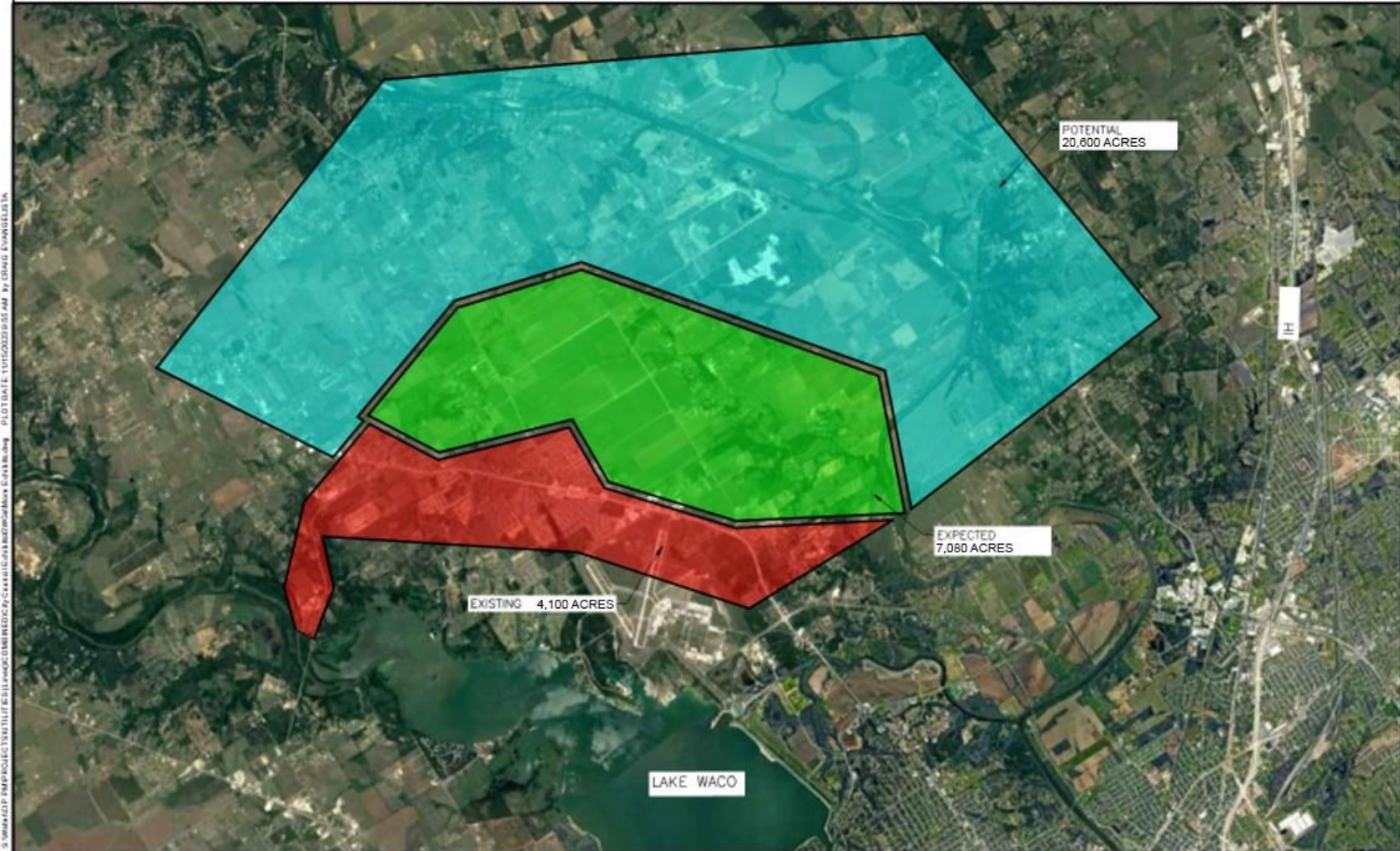
Began looking for location in 2020

CHINA SPRING SERVICE AREA



LEGEND

- EXISTING SERVICE AREA
APPROXIMATELY 4,100 ACRES
- EXPECTED FUTURE SERVICE AREA
APPROXIMATELY 7,080 ACRES
- POTENTIAL FUTURE SERVICE AREA
APPROXIMATELY 20,600 ACRES



S:\w\w\w\GIP_PMP\PROJECTS\UTILITIES\LAKE WACO\WATER UTILITY\GIS\CHINA SPRING\CHINA SPRING CHINA SPRING.dwg PLOT DATE: 11/15/2013 9:55 AM BY: 05410 EVANGELISTA

Site Considerations

Topography

Near a waterway

Size

Roadway Access

Electricity

Impact to surrounding properties

Prevailing winds

Screening or ability to screen

Permit implications

Process For Site Selection

Determined the optimal area for a wastewater plant

Reviewed properties currently for sale – none have met the requirements

Soft inquiries made on several properties in optimal area – 1 owner expressed interest

Evaluated TCEQ permit implications



- Property owners 1 mile from the effluent would have standing
 - Measured from discharge structure
 - 1 mile – from middle of Brazos River
 - Properties directly adjacent

BUSTER CHATHAM PROPERTY

0 5,000 10,000 Feet



Legend

-  Property Line
-  Waco City Limits




BUSTER CHATHAM PROPERTY

0 250 500 1,000 Feet



Legend




-  Property Line
-  Waco City Limits
- Flood Zones
 -  100 Year Zone
 -  500 Year Zone



NORTH BRAZOS RIVER PROPERTY

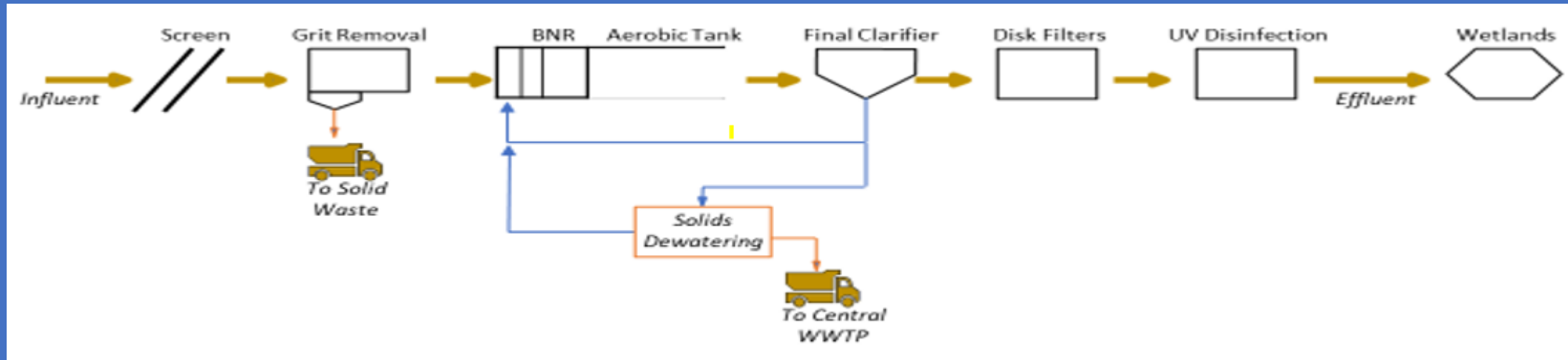
0 200 400 800 Feet



-  PROPERTY LINE
-  BULL HIDE FOOTPRINT
-  WACO CITY LIMITS



Treatment Process Planned for Buster Chatham Site.





FAQs

- Does City intend to Annex private property?
 - No. Only city owned property will be annexed. Private property can only be annexed voluntarily.
- How will the City control any odor?
 - The City will employ the latest technology for odor control.
- How will the City light the property?
 - The City will utilize down cast lighting to reduce light pollution and smart lighting to limit the total amount of lights.
- Is there a way to limit any noise?
 - The City will utilize the latest technology in sound reduction.

FAQs cont.

- How many trucks will there be daily?
 - Bull Hide Creek WWTP has two operators with pickups daily, and approximately 3 times a week, a haul truck will take solid waste to the Central WWTP. Occasionally supplies will be delivered.
 - We would expect a similar amount of traffic at the North Brazos Plant
- How will the City screen the plant from the public?
 - The City may place a berm around the plant.
 - The City may plant screening vegetation – bushes and trees along the fence line of the property.
 - The City may continue to lease (as we do at Bull Hide WWTP) property out for hay or other crop production.

Timeline

