

CITY OF GALT HISTORICAL AND PROJECTED FUTURE GROUNDWATER USAGE

April 2, 2025



AGENDA



- Background
- Summary of Historical Groundwater Usage
- Estimated Near Future Groundwater Usage
- West Versus East Groundwater Usage
- Future Presentation
- Questions

BACKGROUND



- Figure in handout
- Eight total wells
 - Four on-line
 - Three off-line
 - One standby
- Primary wells & location

SUMMARY OF HISTORICAL WATER USAGE



- Table in handout
- Data from well production
- Two noticeable data trends
- From 1999 to 2014, average usage of 5,344 AFY
- From 2015 to 2024, average usage of 4,443 AFY
- Change in consumption starting 2015

SUMMARY OF HISTORICAL WATER USAGE



- Flat rate billing through 2015
- All customers metered and charged based on usage
- State mandates on water conservation
- 2024 usage of 4,539 AFY
- Decrease of 27% compared to 2007 peak
- Per WY2024 report, approximately 120K AF was pumped basin-wide
- City usage is less than 4% of basin-wide usage

ESTIMATED NEAR FUTURE WATER USAGE



- Liberty Ranch
 - 356 acres
 - 1,142 single-family units
 - 250 high-density residential units
 - 44.4 acres of open space
 - 11.8 acres of parks
 - 8.9 acres of elementary school
 - 17.3 acres remainder

ESTIMATED NEAR FUTURE WATER USAGE



- Liberty Ranch ~2.2 AFY/acre
- Similar to agricultural-residential at 2.5 AFY/acre
- Slightly less than 2.9 AFY/acre for general agriculture

ESTIMATED NEAR FUTURE WATER USAGE



- Assumptions

- 400 new homes each year
- 3.2 persons per home
- 350 gpd/home
- Plus 10% for other – parks, schools, etc.

ESTIMATED NEAR FUTURE WATER USAGE



- More conservative than recent data
 - 200 new homes last year
 - Highest on record
 - 3.0 persons per home per CA DOF
 - 100 gpcd per customer metered data
- State mandated water efficient landscaping
- Annual increase of 173 AFY

WEST VERSUS EAST GROUNDWATER USAGE



- Request for sewer data for residents on east side
- Wells located throughout City
 - Historically ~1/3 west & 2/3 east
- Two Upcoming Well Projects
 - Industrial Deep Well – west side (2025)
 - Carillion Deep Well – east side (2026)
 - No system redundancy
 - Anticipate similar usage as historical

FUTURE PRESENTATION



- Analysis of which parcels are not on City water

QUESTIONS

