



Gateway Reservoir/Booster Site Treatment Expansion

June 10, 2017 Council Meeting



Project Needs

- While development has been slow for several years, water demands are steadily increasing, especially during peak summer months.
- Increased water supplies are needed to ensure system reliability.
- Well 8A can operate at **3,000 gpm (4.3 MGD)** but is restricted to **2,000 gpm (2.88 MGD)** due to treatment capacity of the Gateway Reservoir/Booster site.



Gateway
Reservoir/Booster

Well 8A

Costco

MCDOWELL RD

101

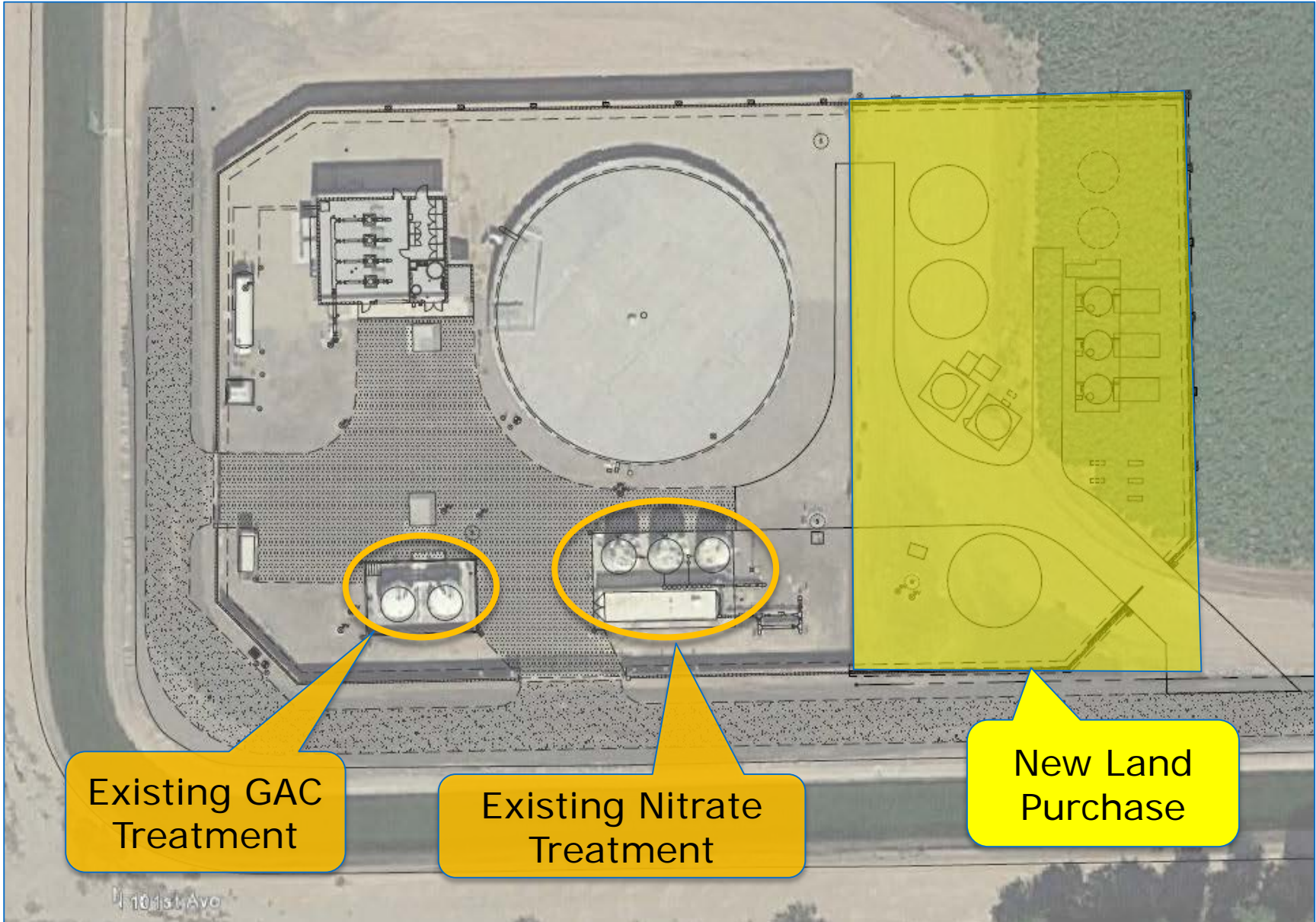
Well 24

10



Project Summary

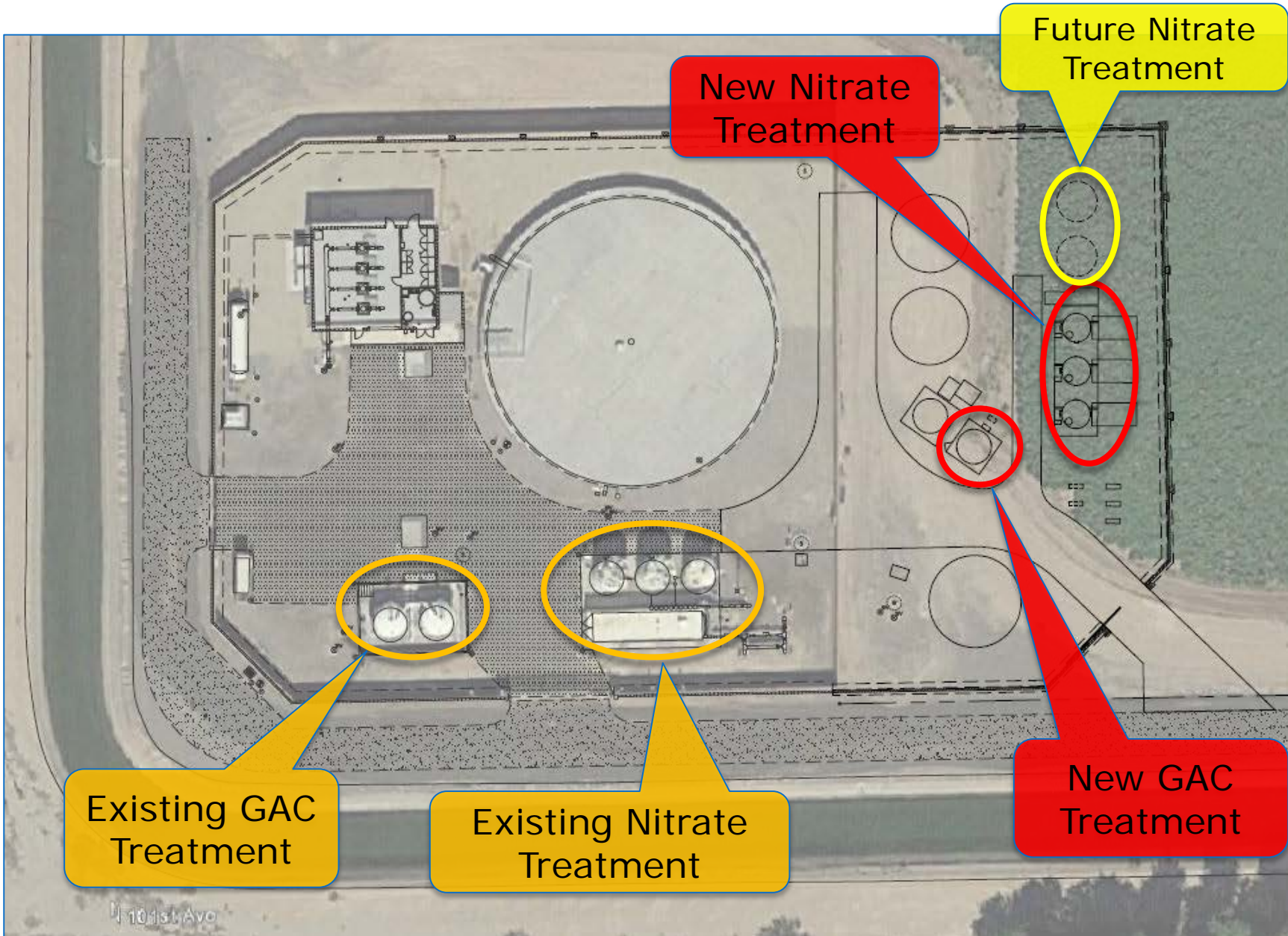
- Provide full stream treatment for Well 8A to allow staff to increase the city's water supplies.
 - ✓ Add a new GAC treatment system to supplement the existing Gateway system.
 - ✓ Add a new nitrate treatment system to the supplement the existing Gateway system.
- Allows Well 24 water to continue to bypass the treatment process and be blended.



Existing GAC Treatment

Existing Nitrate Treatment

New Land Purchase



Project Schedule

- **Treatment Design– NCS Eng.**
 - Award of Design scope: February 2016
 - Design completed: February 2017
- **Construction Mngt. – NCS Eng.**
 - Award of CM Scope: March 2017
- **Additional Land Purchase**
 - Approved by Council: April 2017
- **Construction - Garney**
 - Award of Construction Contract: Tonight
 - Construction Complete: Summer 2018

Project Funding

Item	Cost
Land Purchase	\$97,523
Engineering (NCS)	\$498,408
Construction Mngt. (NCS)	\$265,480
Construction Cost (Garney)	\$4,611,000
Subtotal Project Costs	\$5,442,411
Original Capital Funding	\$3,600,000
<i>Funding Shortage</i>	<i>\$1,842,411</i>

Project Funding

- Staff proposing to shift \$1.9 Million in funding due to increased project costs.
 - Avoiding impacts to existing rate models
 - Avoids a complete loss of the Gateway site if existing Nitrate system fails.
- Funds coming from Water System Line and Replacement and Expansion CIP.
 - Shifted funds will not impact staff's ability to complete necessary improvements.



Recommendation

Staff is requesting that City Council approve a construction contract with Garney Companies Inc. to expand the water treatment process at the Gateway Reservoir Booster site in the amount of \$4,611,000.

