

# MAG 208 Water Quality Management Plan Amendment



## Liberty Utilities Palm Valley and Sarival Water Reclamation Facilities Service Area Expansion 2014



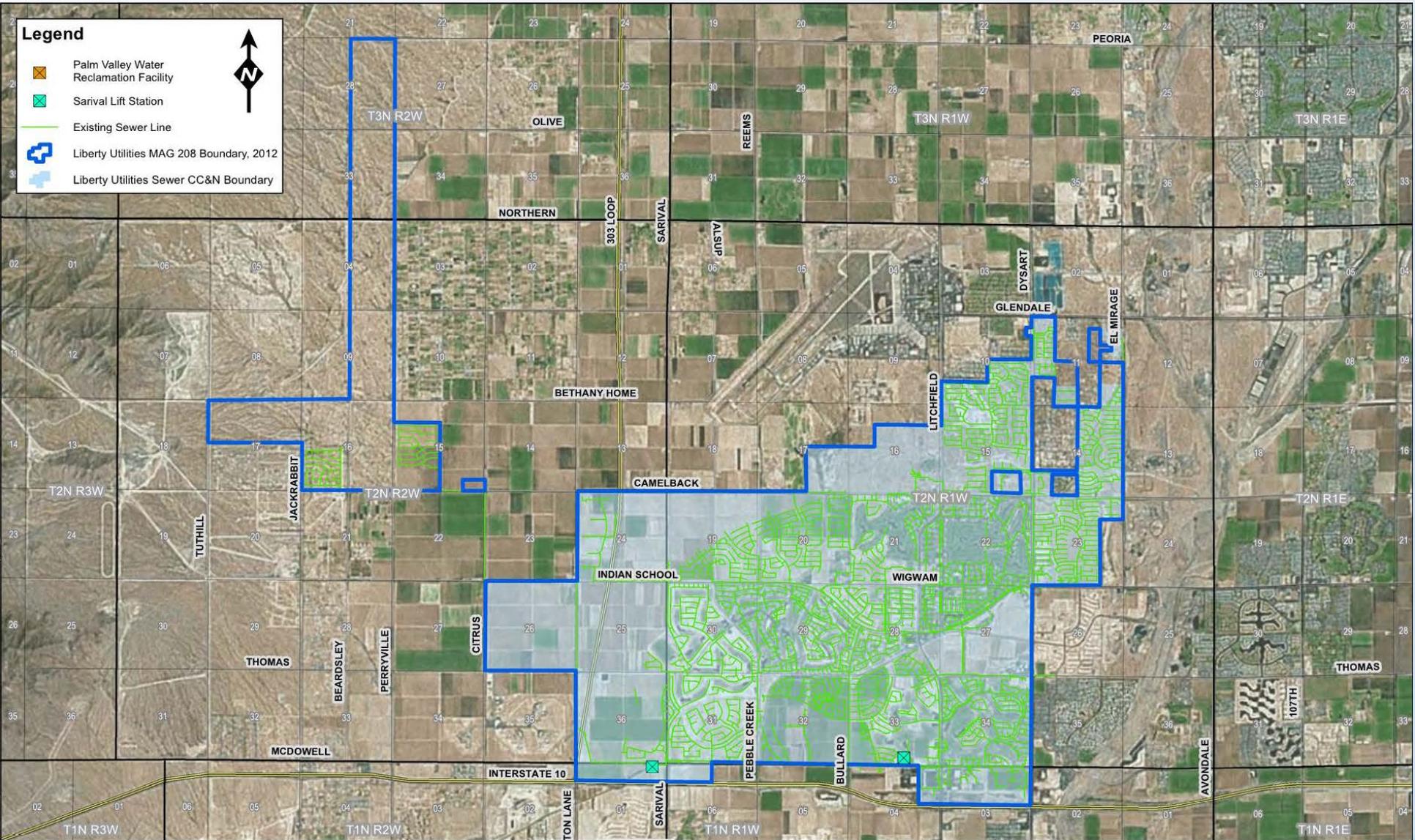
# Amendment Sponsors:

- City of Glendale  
(The 208 Amendment is located entirely within the City of Glendale planning boundary)
- Maricopa County

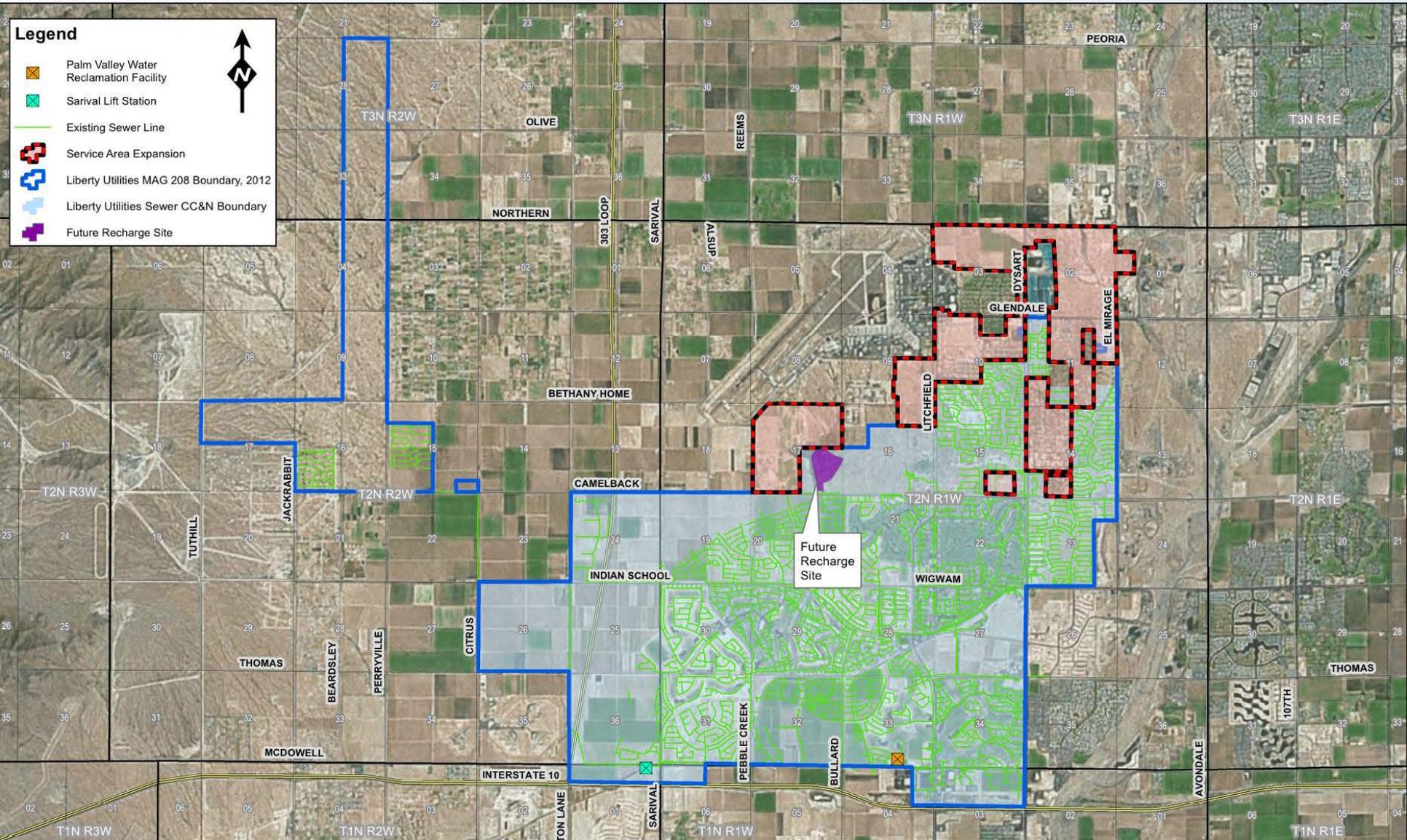
# Amendment Purpose:

- Developers in the land areas immediately north of the current Liberty Utilities service area boundary have asked Liberty Utilities to serve their developments.
- Provide a way for lands currently served by septic systems to be connected to wastewater collection systems in the future.

# Current Service Area - Liberty Utilities

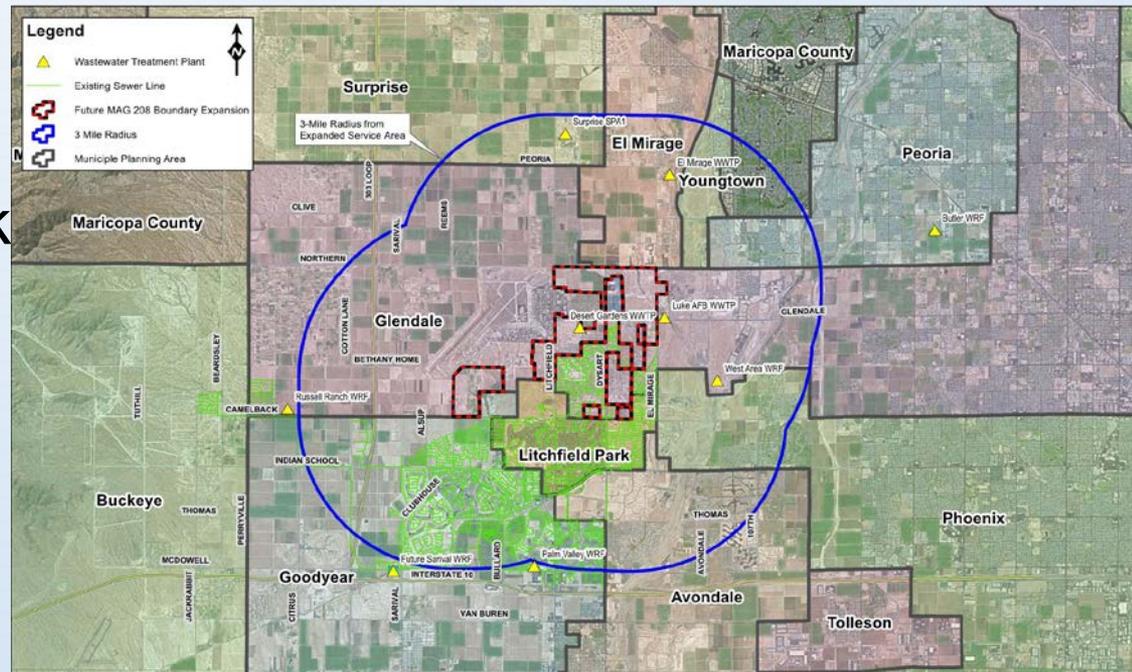


# Service Area Expansion – Liberty Utilities



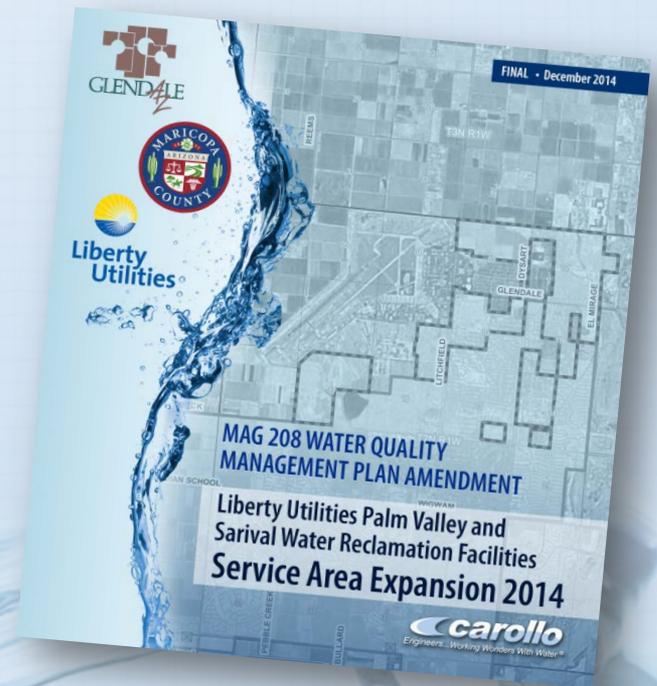
# Letters of No Objection:

- City of Avondale
- City of El Mirage
- City of Goodyear
- City of Litchfield Park
- City of Peoria
- City of Phoenix
- City of Surprise
- Town of Youngtown
- Luke Air Force Base

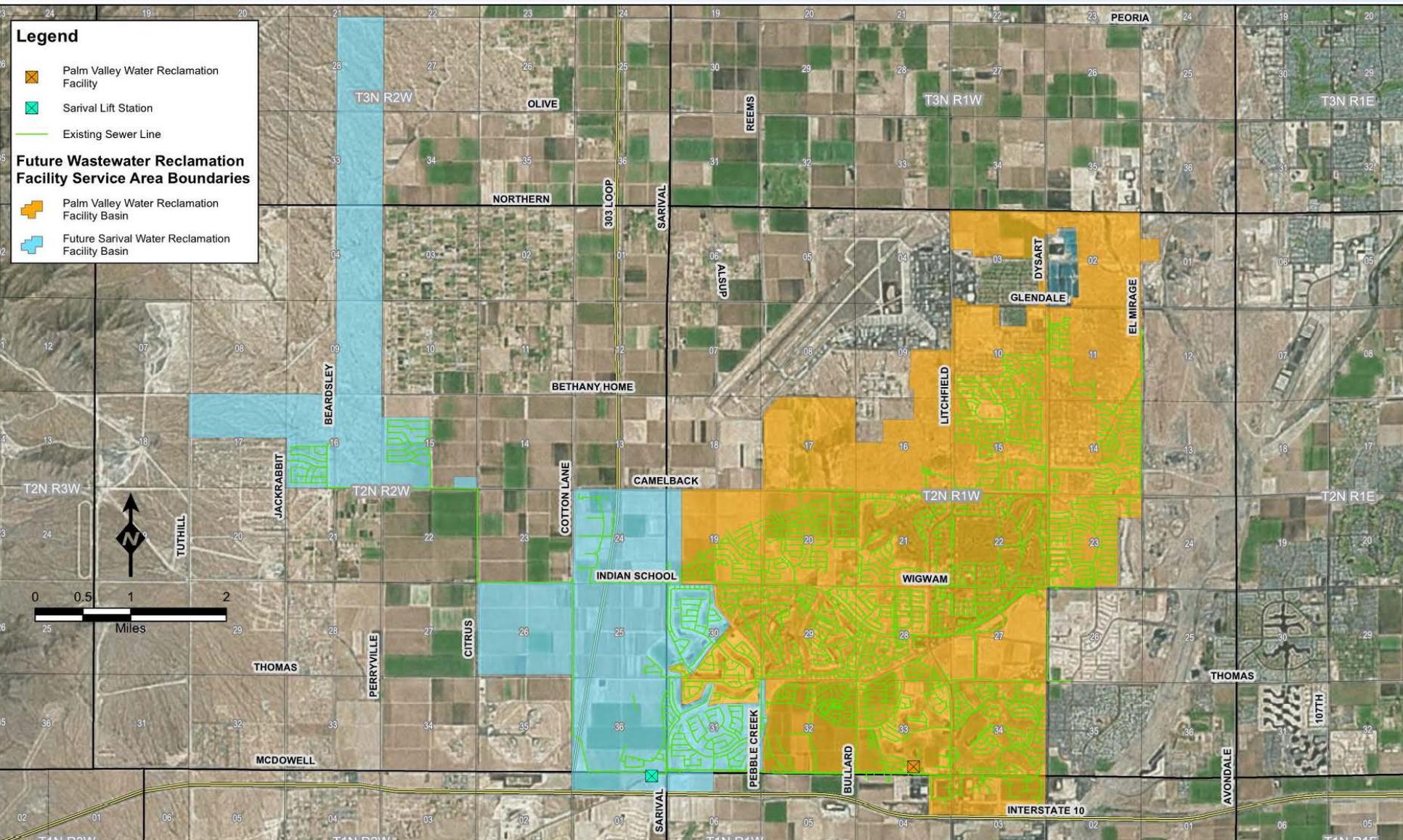


# Section 208 Clean Water Act Checklist has been completed.

## See Appendix D



# Service Areas of the Palm Valley and Sarival Water Reclamation Plants



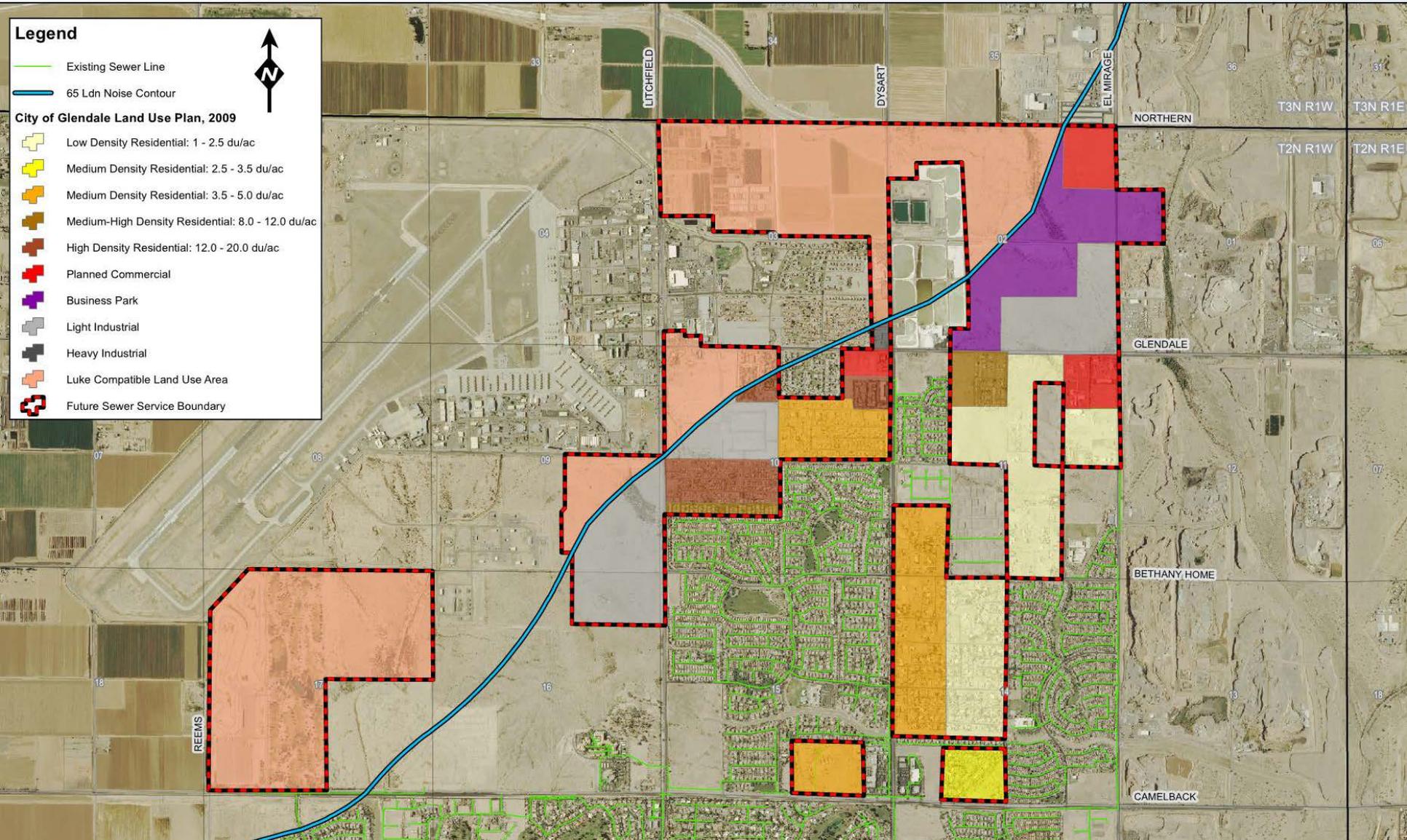
# This Amendment Does Not Require Any Change in the Previously Approved Capacity of the Palm Valley and Sarival Water Reclamation Plants

## WWTP Reserve Capacity

| MAG 208 Amendment Year | Total Approved Capacity, MGD | Approved Amendment Load, MGD | Total Wastewater Load, MGD | Reserve Capacity, MGD | % Reserve Capacity |
|------------------------|------------------------------|------------------------------|----------------------------|-----------------------|--------------------|
| 2002                   | 16.4                         | -                            | 10.17                      | 6.23                  | 38%                |
| 2006                   | 16.4                         | 3.00                         | 13.17                      | 3.23                  | 20%                |
| 2012                   | 16.4                         | 0.10                         | 13.27                      | 3.13                  | 19%                |
| 2014 (Proposed)        | 16.4                         | 1.97                         | 15.24                      | 1.16                  | 7%                 |

The approved buildout capacity for the Palm Valley and Sarival Water Reclamation Plants is  
**8.2 mgd each.**

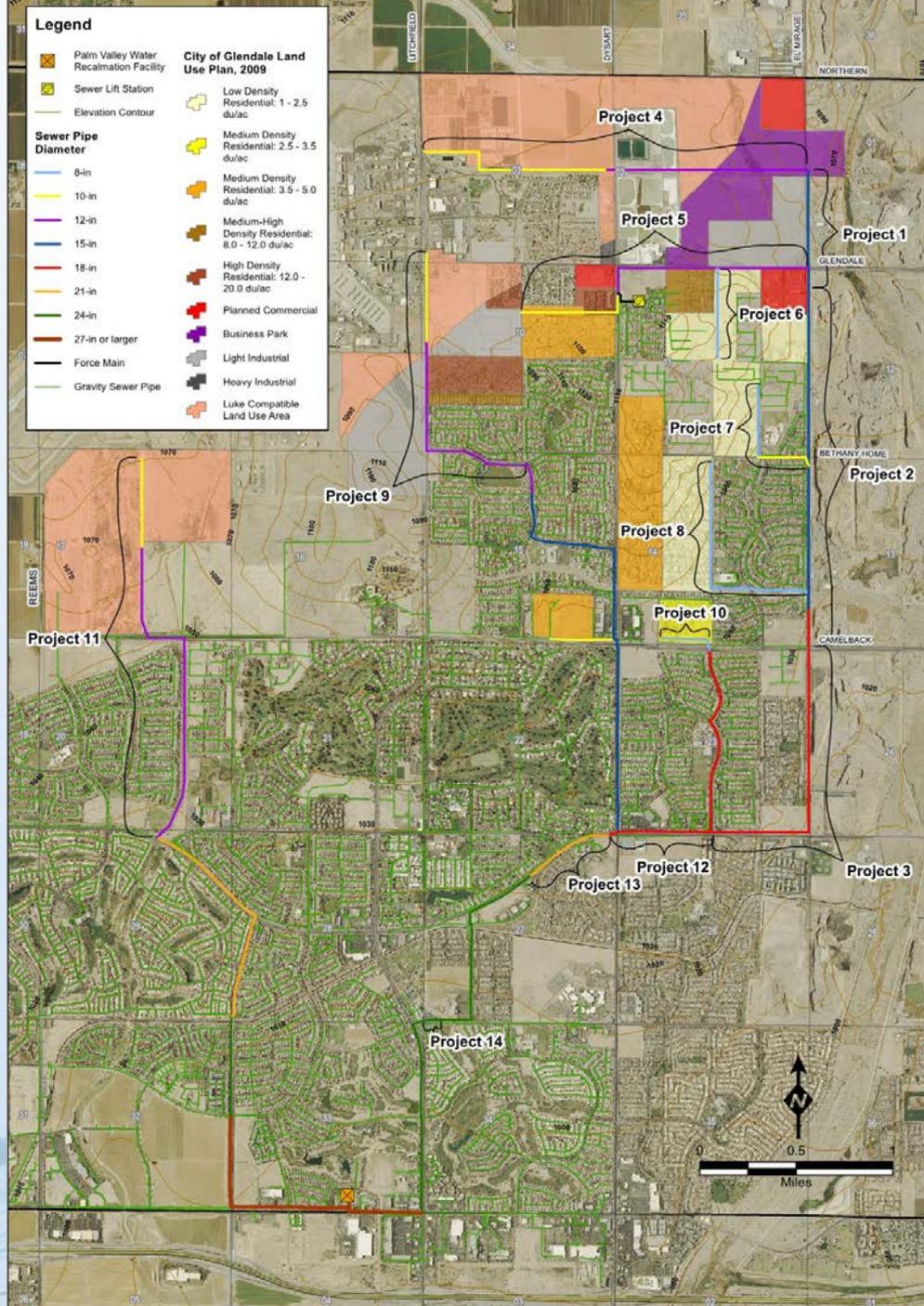
# City of Glendale Land Use Classifications for Land Areas in this 208 Amendment



# Anticipated Wastewater Flows for Existing and Future Development in the Liberty Service Area

| Expansion Area Land Use Type                      | Area, ac     | DU/ac | Population (People/DU = 2.65) | Unit Load, gpcd or gpad | Average Daily Flow, gpd | Average Daily Flow, MGD | Peak Hour Flow, MGD |
|---|--------------|-------|-------------------------------|-------------------------|-------------------------|-------------------------|---------------------|
| Low Density Residential: 1 - 2.5 du/ac            | 323          | 1.5   | 685                           | 100                     | 68,530                  | 0.07                    | 0.21                |
| Medium Density Residential: 2.5 - 3.5 du/ac       | 41           | 3     | 311                           | 100                     | 31,095                  | 0.03                    | 0.09                |
| Medium Density Residential: 3.5 - 5.0 du/ac       | 279          | 4     | 1,509                         | 100                     | 150,921                 | 0.15                    | 0.45                |
| Medium-High Density Residential: 8.0 - 12.0 du/ac | 59           | 10    | 1,225                         | 100                     | 122,482                 | 0.12                    | 0.37                |
| High Density Residential: 12.0 - 20.0 du/ac       | 90           | 16    | 3,744                         | 100                     | 374,365                 | 0.37                    | 1.12                |
| Planned Commercial                                | 95           | -     | -                             | 500                     | 47,557                  | 0.05                    | 0.14                |
| Business Park                                     | 192          | -     | -                             | 800                     | 153,877                 | 0.15                    | 0.46                |
| Light Industrial                                  | 320          | -     | -                             | 800                     | 255,746                 | 0.26                    | 0.77                |
| Heavy Industrial                                  | 6            | -     | -                             | 800                     | 4,938                   | 0.00                    | 0.01                |
| Luke Compatible Land Use Area                     | 1,076        | -     | -                             | 700                     | 752,883                 | 0.75                    | 2.26                |
| <b>Total</b>                                      | <b>2,480</b> |       | <b>7,474</b>                  |                         | <b>1,962,395</b>        | <b>1.96</b>             | <b>5.89</b>         |

# Capital Improvement Projects to Provide Wastewater Flow to the Service Area Expansion.



# Conditions:

- The land areas included in the proposed amendment are outside of the Luke AFB flight path and will not pose any risk to Luke Air Force Base flight operations
- Officials at Luke AFB request the opportunity to review development plans to ensure that there is no negative impact to Luke AFB. Liberty Utilities will comply with this request.
- The Desert Gardens apartment complex has the option to connect to the Liberty Utilities collection system upon payment of connection fees.
- The expansion will not affect any existing facilities and certificated areas.

# Questions?

