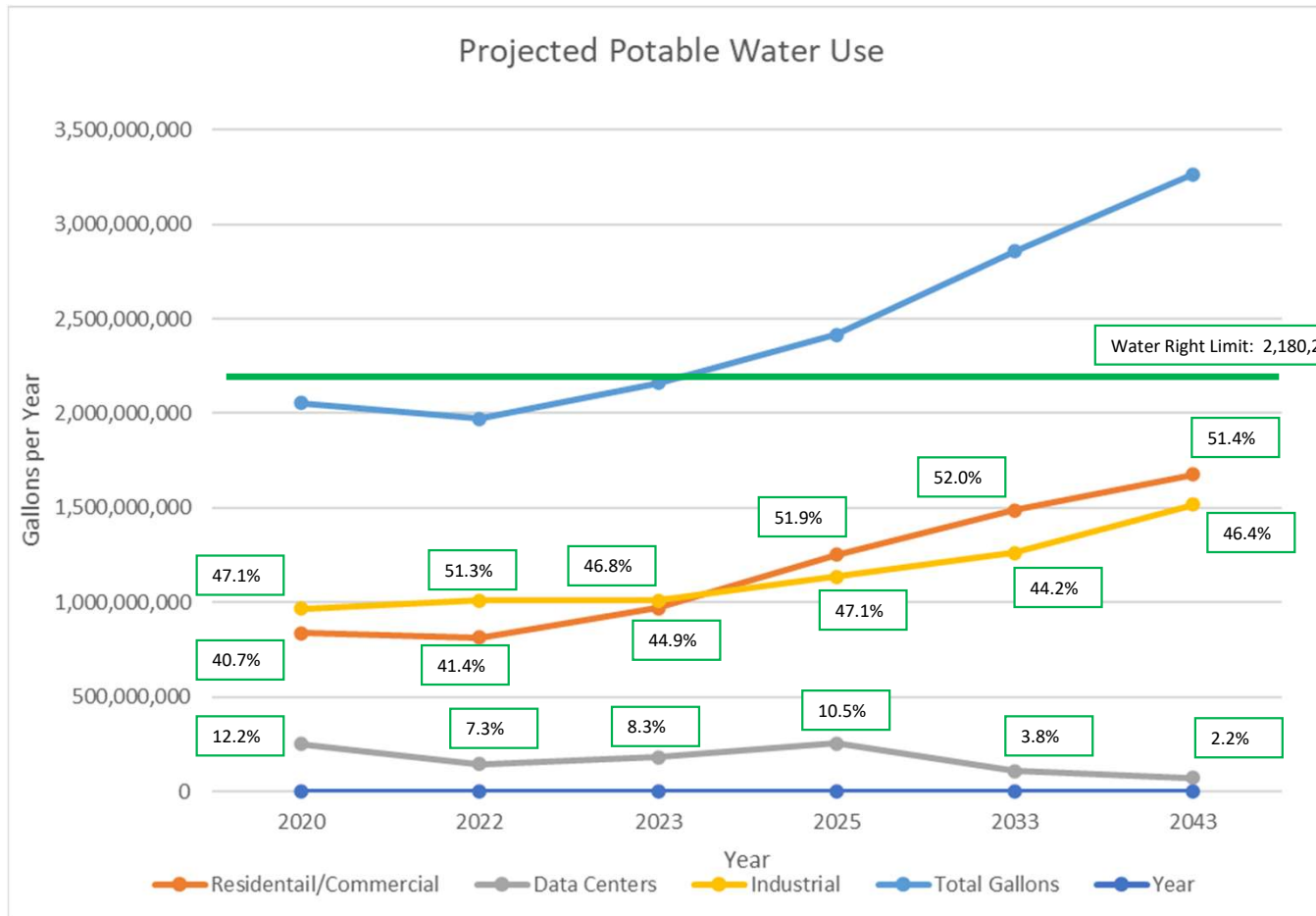


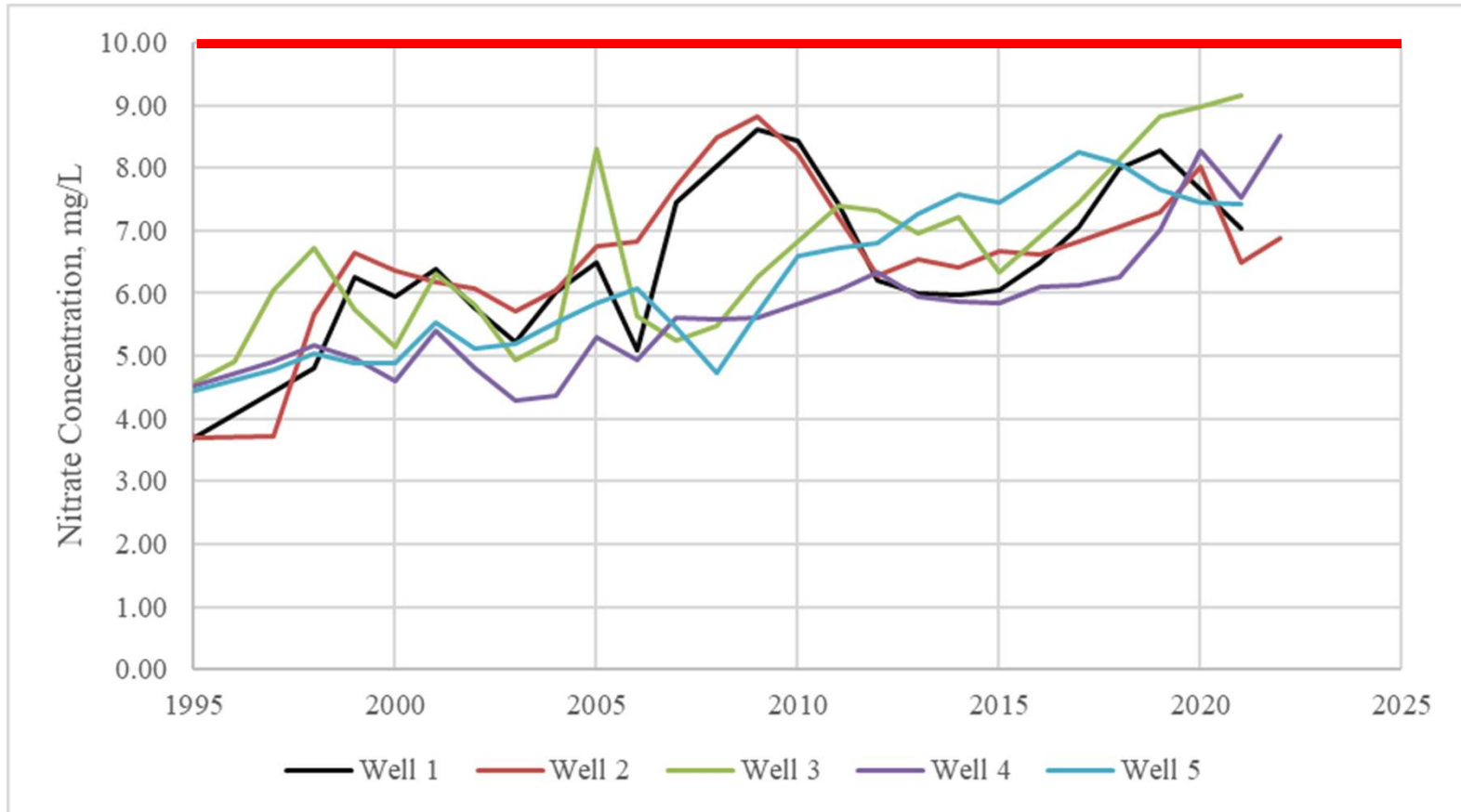
Water Systems in Quincy

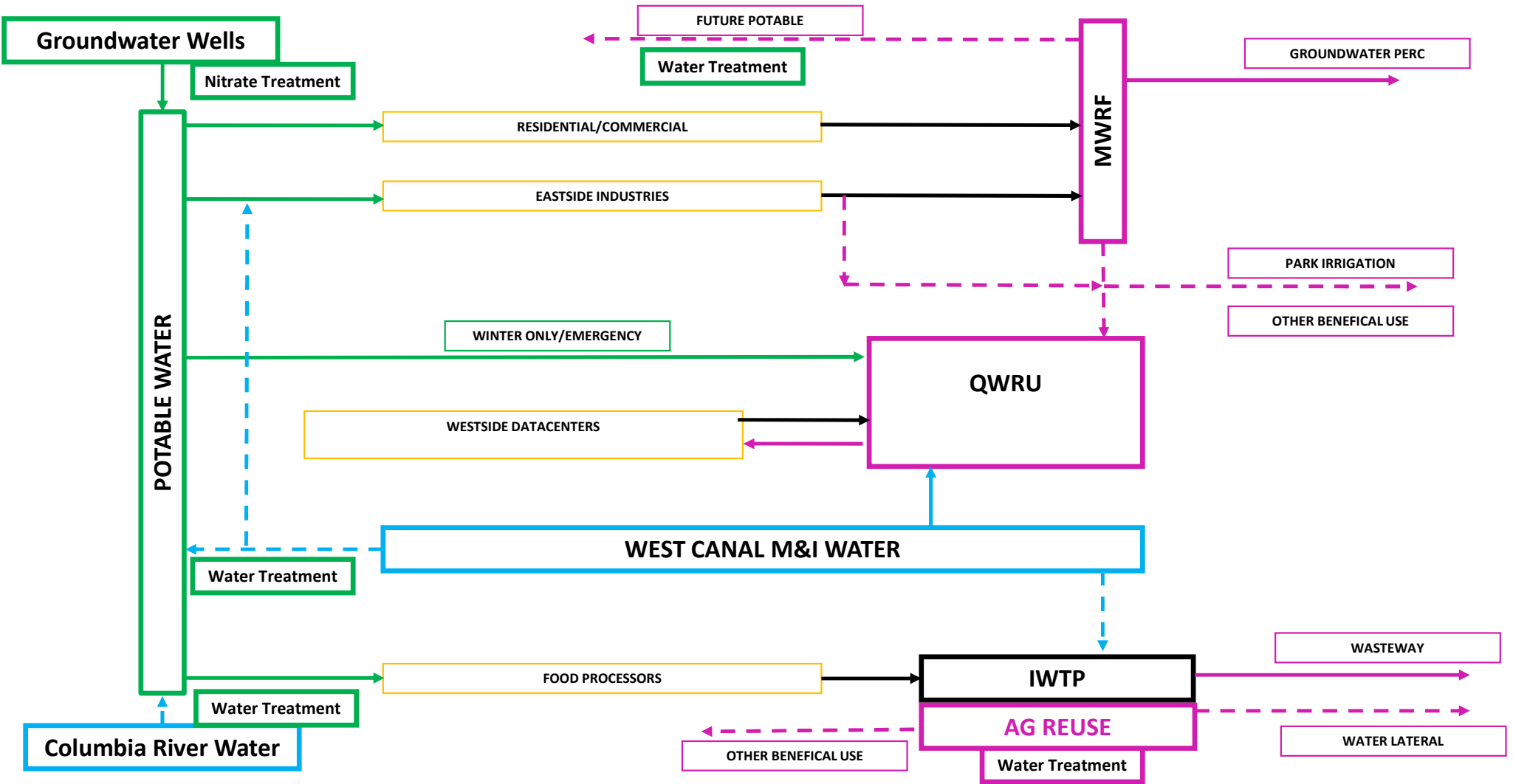
- **Potable Water Supply:** 5 groundwater wells provide all potable water to service industrial, commercial & residential needs including the food processors.
- **Municipal Wastewater Treatment System:** Treats the sanitary wastewater from industrial, commercial & residential sources. Called MWRF
- **Industrial Wastewater Treatment System:** Treats the wastewater from the major food processing plants in Quincy (IUG). Called IWTP
- **Quincy Water Reuse Utility:** Captures cooling water from the datacenters and treats that water for reuse by the datacenters. Called QWRU

Potable Water Demand Continues to Increase



Groundwater Nitrate Levels





How Would Quincy Use Alternate Surface Water Source

- Surface Water Source Supplements Existing Groundwater
 - Increasing Supply of Surface Water from 2025 to 2050: Staged Increase up to 6,000 Ac-Ft (1,955,108,571 gallons/year)
- Blend surface water with existing groundwater for overall better potable water quality
 - Reduces level of Nitrates in potable water
 - Reduces Hardness of potable water
 - Reduces Silica in potable water
- Utilize ASR (Aquifer Storage & Recovery) for Peak Demands
 - Store Blended Water (emphasis on M&I Water during “shoulder season”)
 - Retrieve Blended Water
 - ASR might not be needed with some water source(s)

Reuse/Reclamation/Conservation

➤ Municipal Water Reclamation Facility (MWRF):

- Already Permitted a Class A Water
- Permit Allows Class A Water for Lawn/Park Irrigation
- Permit Amendment Required for QWRU Make-up Water
- Underground Piping “Purple Pipe” Allows Lauzier Park and QWRU Make-up Now
- Future underground piping (Purple Pipe) to parks in the east side of City
- New UV Disinfection System Allows the Use of Reclaimed Water (plus chlorination)

➤ Public Awareness & Workshops

- For Reclaimed Water Use (from MWRF)
- For Overall Water Conservation
- Support of Ecology & DOH
- Support of Grant County Conservation District

➤ Industrial Support

- Water Conservation
- Alternative Discharge of East Side Datacenters: Non-Contact Cooling Water Return to Beneficial Uses

Stakeholders

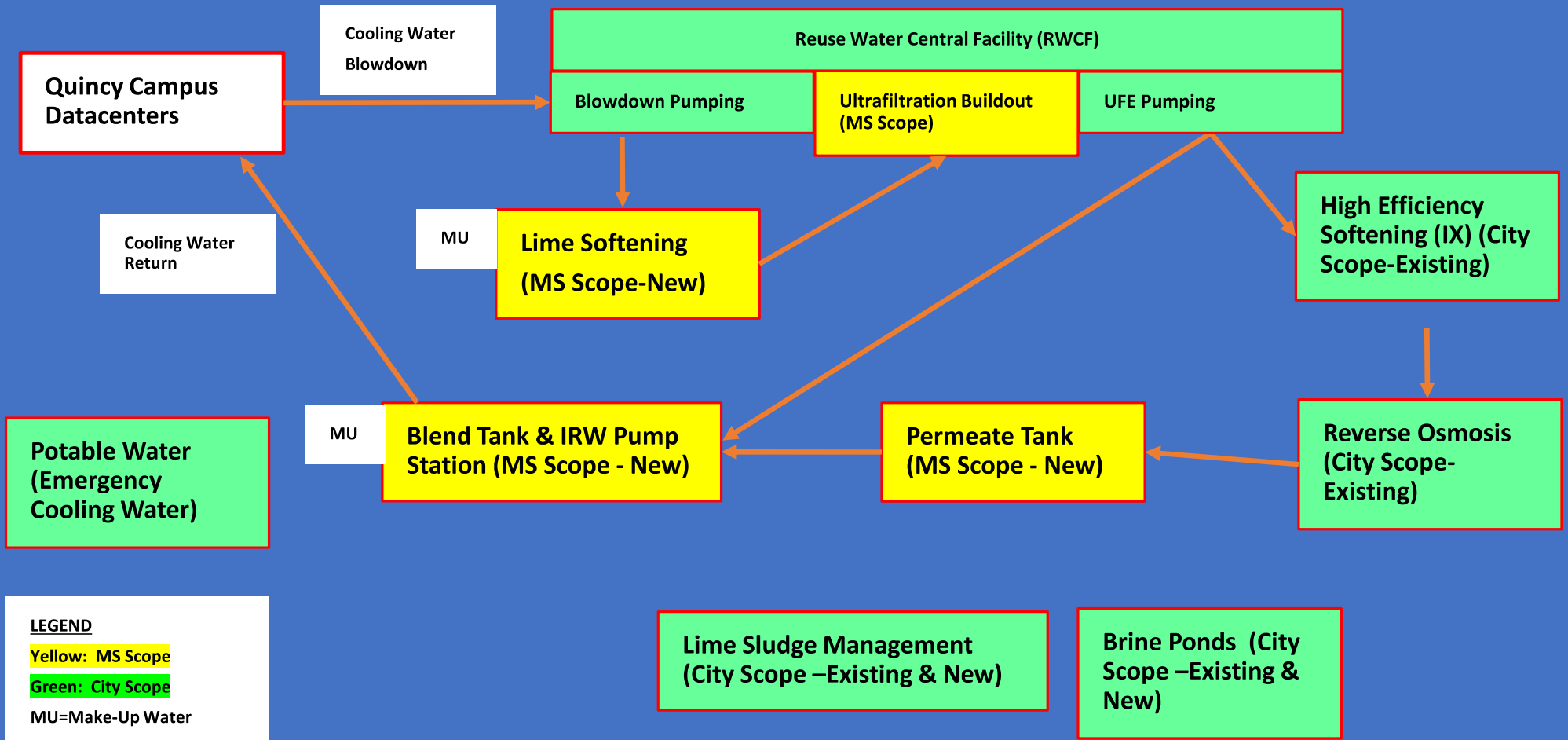
- Agency Coordination:
 - US Bureau of Reclamation (USBR)
 - Quincy-Columbia Basin Irrigation District (QCBID)
 - Department of Health (DOH)
 - Department of Ecology (Ecology)

- Public Awareness & Workshops
 - Support of Ecology & DOH
 - Support of Grant County Conservation District

- Industrial Support
 - Conservation Efforts

- City of Quincy Internal Alignment

Quincy Water Reuse Projects/Block Flow



Quincy Water Reuse Project Sites

