

Q1W NEWSLETTER

Quincy 1Water

Integrating residential and industrial water management for sustainable water supplies in the Quincy Basin



Where Agriculture Meets Technology!

The City of Quincy is developing the regionally integrated Quincy 1Water (Q1W) Utility to optimize water supply for the City's two dominant economic clusters: food processing and cloud computing. By managing the Quincy Basin's overall water supplies holistically—including municipal and industrial wastewater, potable water supply, and reclaimed/reuse water—the City preserves limited potable water supplies for residential and other beneficial uses.



Questions or Comments

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Q1W Highlights

Key projects now underway are putting Quincy closer to achieving an integrated Q1W Utility. Refer to the back of this page to learn more about current project activities and milestones.

Percolation Expansion

A percolation cell will be added to the existing percolation cell system, located adjacent to the Municipal Water Reclamation Facility (MWRF), to accommodate increased flows during the non-growing season from the MWRF reclaimed water system and Industrial Reuse Water Treatment Plant (IRWTP) water system.

Municipal Water Reclamation Facility Capacity Upgrade

The City has been evaluating ways to increase the MWRF's capacity, as wastewater influent flow and load conditions approach the facility's rated capacity. Specific recommended modifications are still being evaluated.

Crop Production

A new pump station and pipeline will convey reclaimed water two miles north of Quincy for crop irrigation during the growing season. The City is currently working with farmers to determine the number of acres of potential crop production land. Previous studies have

identified 350 to 650 acres of available land for forage crop production currently without available water supply.

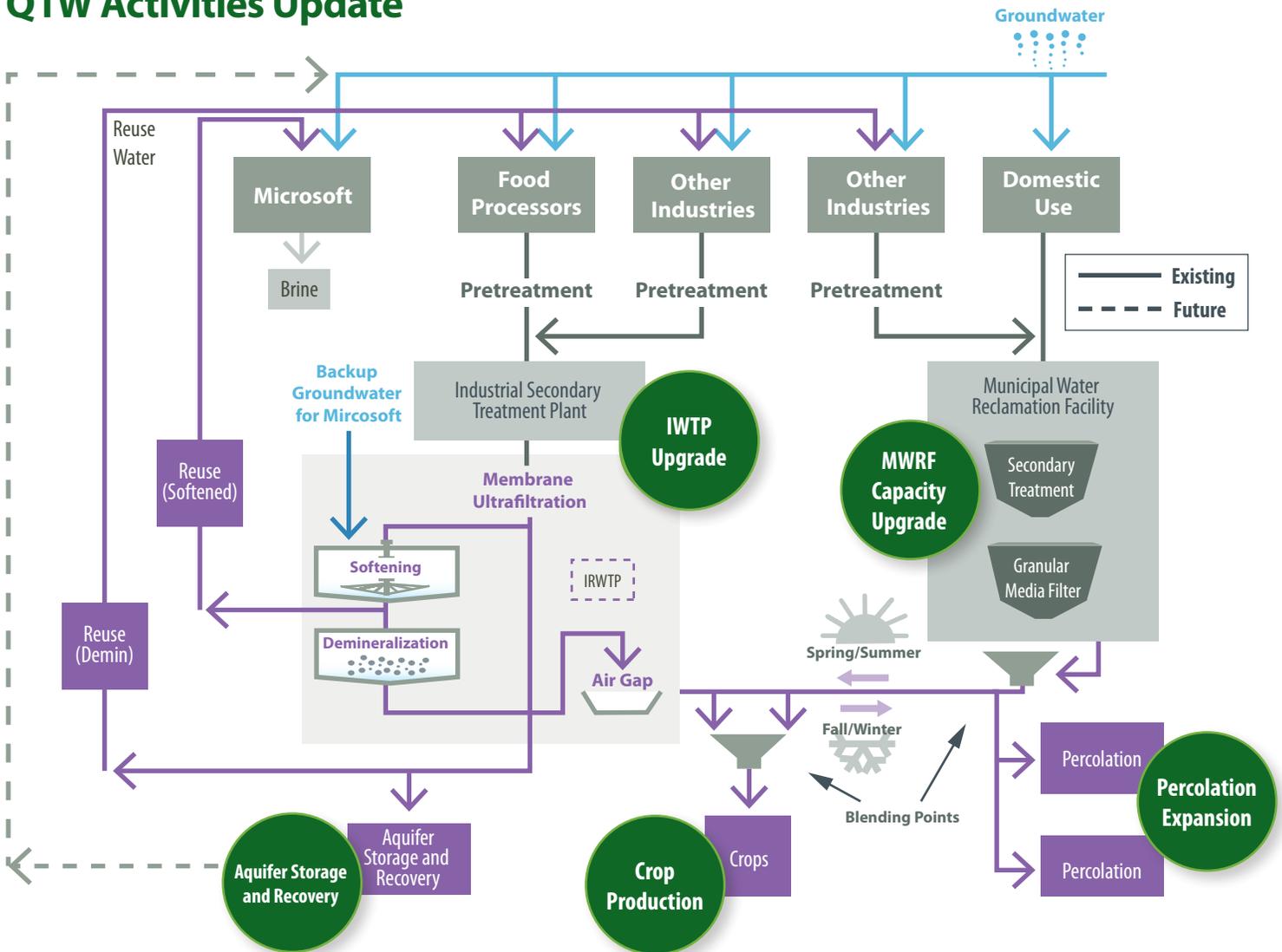
Industrial Reuse Water Treatment Plant Upgrade

Several components of the IRWTP currently exist, including an available abandoned clarifier, filter building, water softening building, and reverse osmosis building. Several plant components will be added or modified to treat secondary effluent from the Industrial Wastewater Treatment Plant (IWTP) to different end-user water quality needs. Once complete, the IRWTP and IWTP can selectively treat various quantities of the wastewater stream depending on the intended end use of the wastewater.

Aquifer Storage and Recovery

The City's Aquifer Storage and Recovery (ASR) program. This project was developed to provide a viable alternative for discharging excess treated water that may not otherwise be able to be applied to crop production, percolation or industrial reuse.

Q1W Activities Update



Percolation Expansion

- This project is on hold pending upcoming negotiations with USBR.

MWRF Capacity Upgrade

- A MWRF Capacity Upgrade Engineering Design Report will be developed; the schedule to submit this Report to Ecology is currently being revised.
- A Draft General Sewer Plan-Facility Plan Report is scheduled for submittal to Ecology October 2016.

Crop Production

- Coordination between the City and the Irrigation Company to develop a Water Supply Agreement is on-going. The Draft Agreement is scheduled for submittal to Ecology February 2016.
- The Draft Crop Production Engineering Report is scheduled for submittal to Ecology April 2016.

IRWTP Upgrade

- The treatment systems optimization study is scheduled for completion January 2016.
- Procuring ultrafiltration and reverse osmosis equipment is underway and scheduled for installation Winter 2016/2017.
- Designing the reuse pumping system is underway and scheduled for installation Winter 2016/2017.
- The Draft IRWTP Engineering Report is scheduled for submittal to Ecology May 2016.

Aquifer Storage and Recovery

- The Final Conceptual Hydrogeologic Model Report is scheduled for submittal to Ecology February 2016.
- The Draft Quality Assurance Project Plan is scheduled for submittal to Ecology March 2016.
- The Draft Modeling Work Plan is scheduled for submittal to Ecology April 2016.
- Field investigation and aquifer testing scheduled from May 2016 through December 2016.