

# **Integrated Water Management: Sustainable and Regenerative Water and Sanitation**

**Paula Kehoe**  
**Director of Water Resources**  
**San Francisco Public Utilities Commission**  
**September 30, 2019**



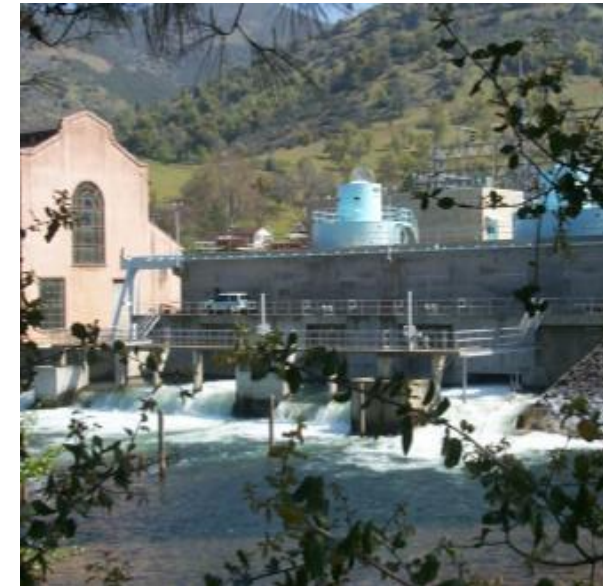
# San Francisco Public Utilities Commission



Water: delivering high quality water every day to 2.7 million people



Wastewater: protecting public health and the environment



Power: generating clean energy for vital City services

# Moving Away from a Linear Approach to Integrated Planning and Implementation





**HETCH HETCHY**  
**+ LOCAL WATER**  
**Better together.**

Conservation  
Groundwater  
Recycled Water  
Onsite Water Reuse  
Innovations Program

---

---

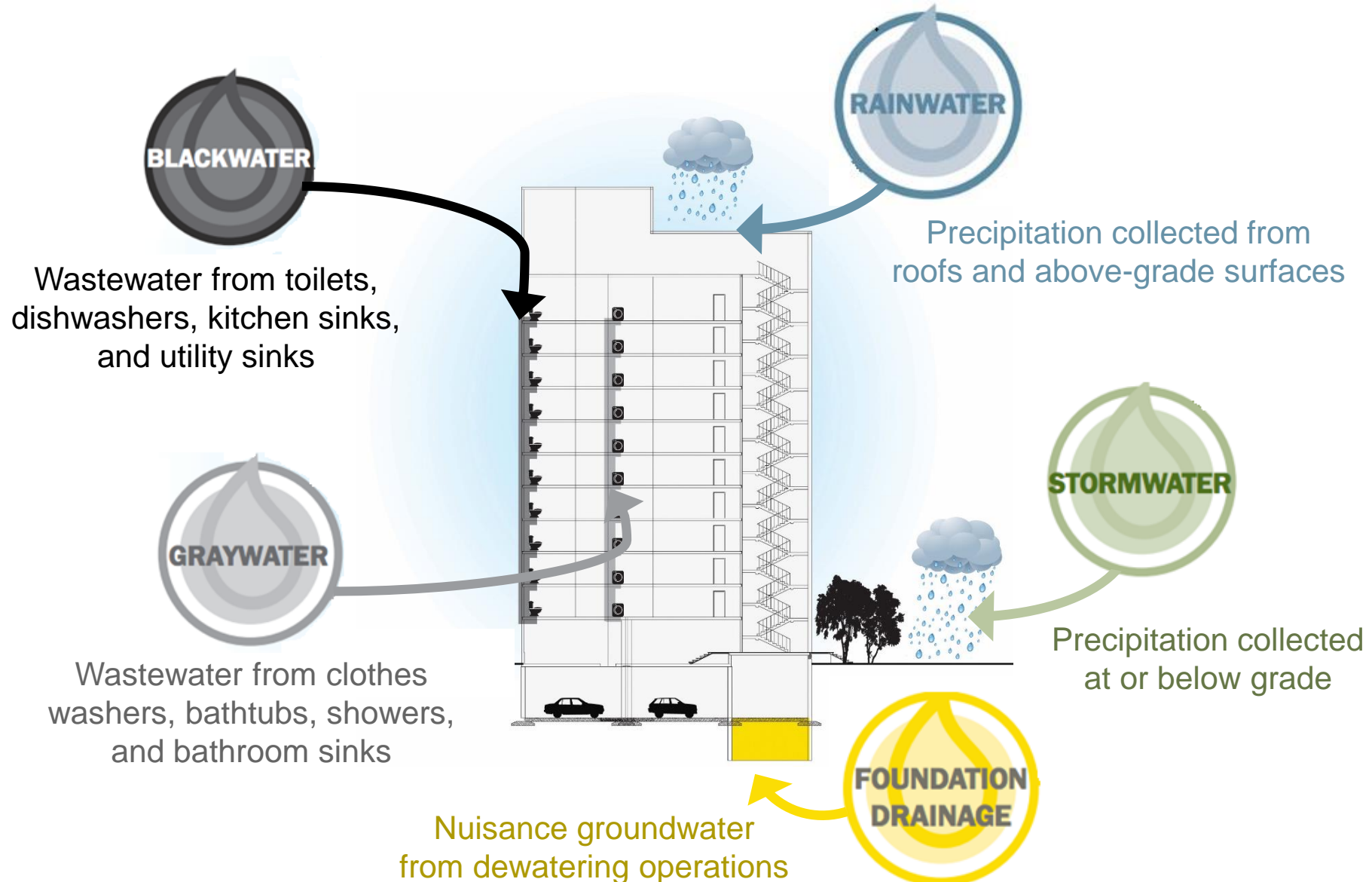
San Francisco knows the importance of diversifying our water portfolio...  
To ensure reliability—particularly in the age of climate change—we need  
to use every water resource available.

---

---

*Harlan L. Kelly, Jr., SFPUC General Manager*

# Opportunity to Match Right Resource to the Right Use on a Building/Neighborhood Scale

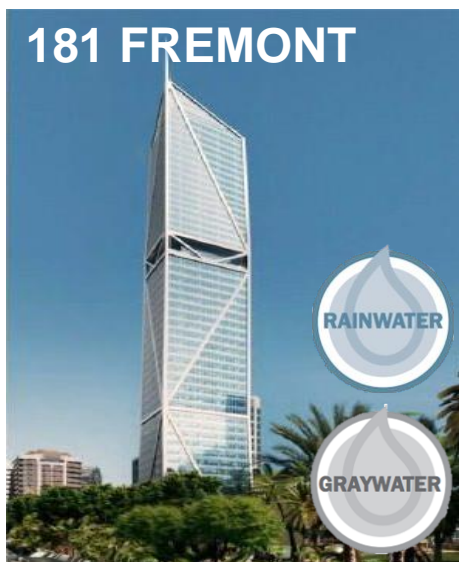


# Pioneer New Ways to Treat and Reuse Water in San Francisco



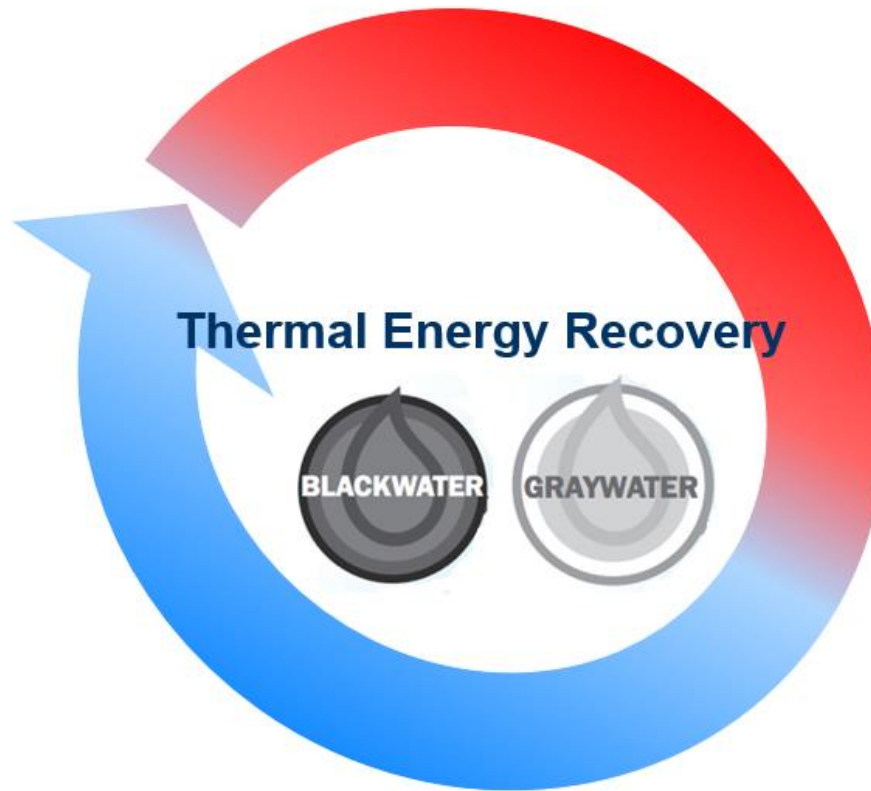


# Onsite, Decentralized Systems Integrated with Centralized Infrastructure



**...AND  
MORE!**

# Incorporating Heat Recovery Systems with Onsite Water Treatment Systems

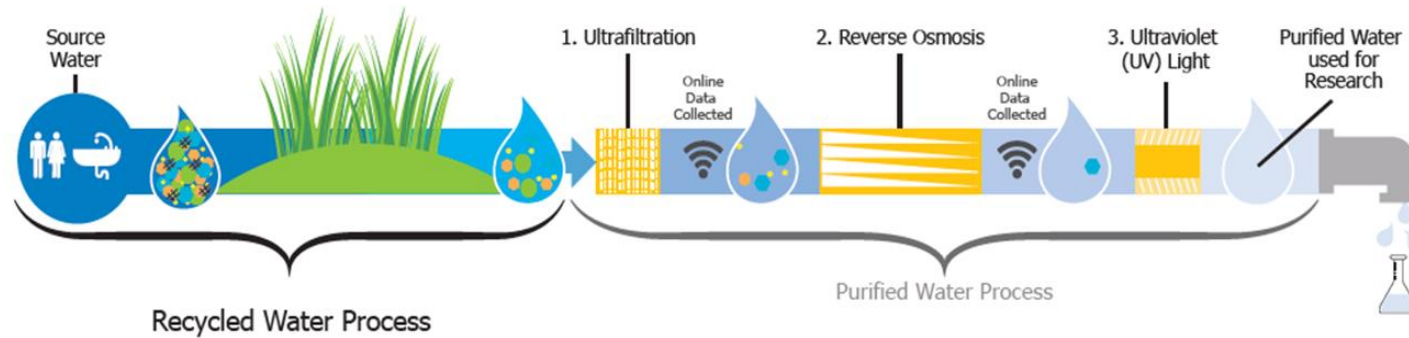




# Expanding Onsite Water Reuse through Treating Process Water in Breweries



# Piloting Decentralized Purified Water



# Atmospheric Water Generation Technologies





- Addresses climate change, water shortages, water quality protection, and aging infrastructure challenges
- Opportunities to optimize water and wastewater infrastructure with small and large scale projects
- Encourages programs and projects that provide multiple benefits
- Change in how we approach our work and recognition of need for collaboration



Paula Kehoe  
[pkehoe@sfwater.org](mailto:pkehoe@sfwater.org)

[www.sfwater.org](http://www.sfwater.org)

