Santa Monica Basin Groundwater Sustainability Agency

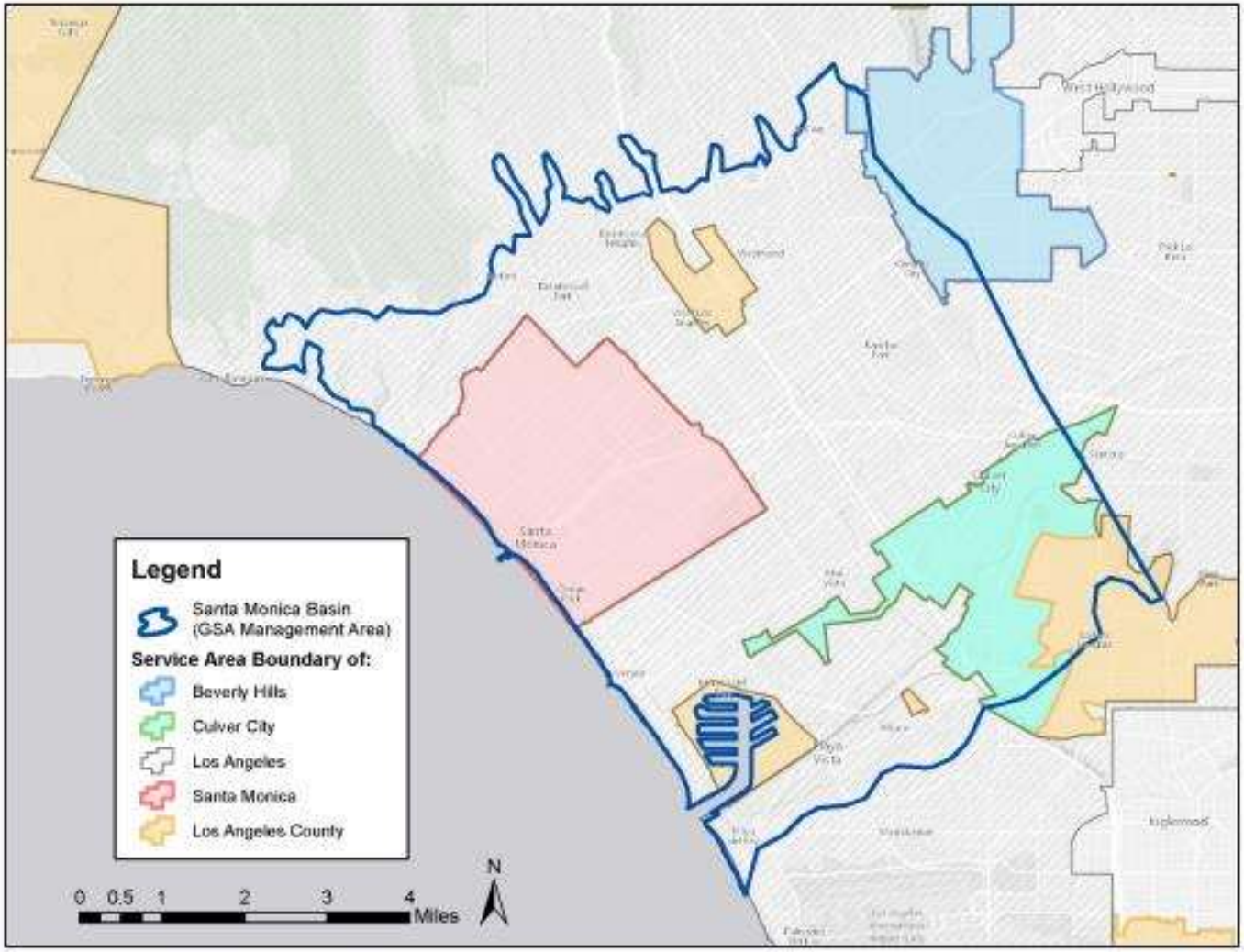
Groundwater Sustainability Plan Stakeholder Meeting

December 19, 2019

Welcome and Introductions

- Sustainable Groundwater Management Act (2014)
- Santa Monica Basin Groundwater Sustainability Agency (2017)
- Groundwater Sustainability Plan (Jan 2022)
- SMBGSA website for more info https://www.santamonica.gov/gsp

Santa Monica Groundwater Basin



History of Santa Monica's Water Supply

- 1875 – Santa Monica Land & Water Company (Colonel Robert S. Baker and John Percival Jones)
- Santa Monica Water Company (1897) and City Water Company (1896)
- In 1916, City acquired four private water companies to form a municipal water system
- City of Santa Monica became a charter member of Metropolitan Water District of Southern California in 1928 and water as first delivered to the City in 1941 via the Colorado River Aqueduct.

History of Santa Monica's Water Supply

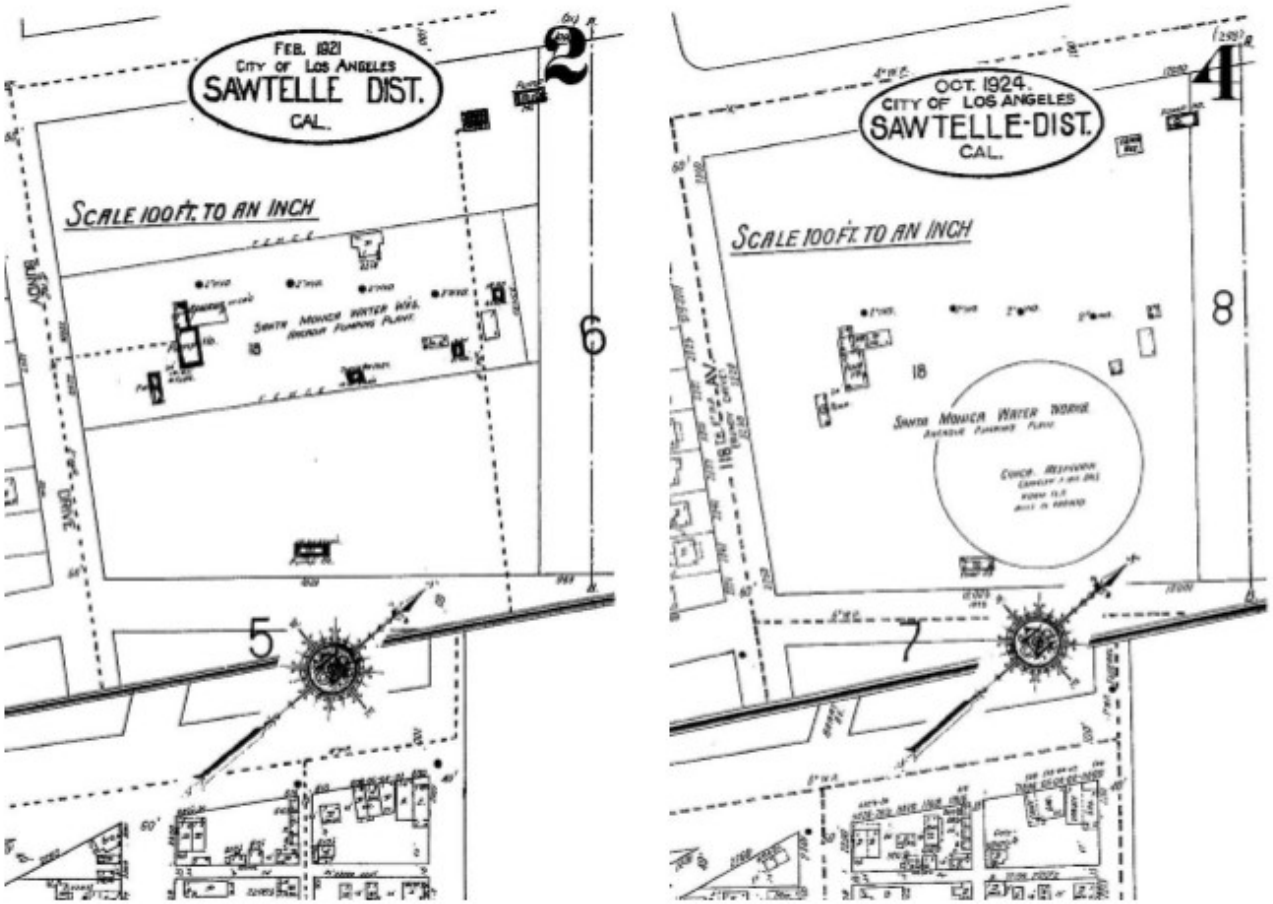


Figure 5. Sanborn Fire Insurance maps depicting Arcadia Pumping plant in 1921 (left) and 1924(right). Note addition of 5 million gallon reservoir in 1924 image (Sanborn 1921, 1924)

History of Santa Monica's Water Supply

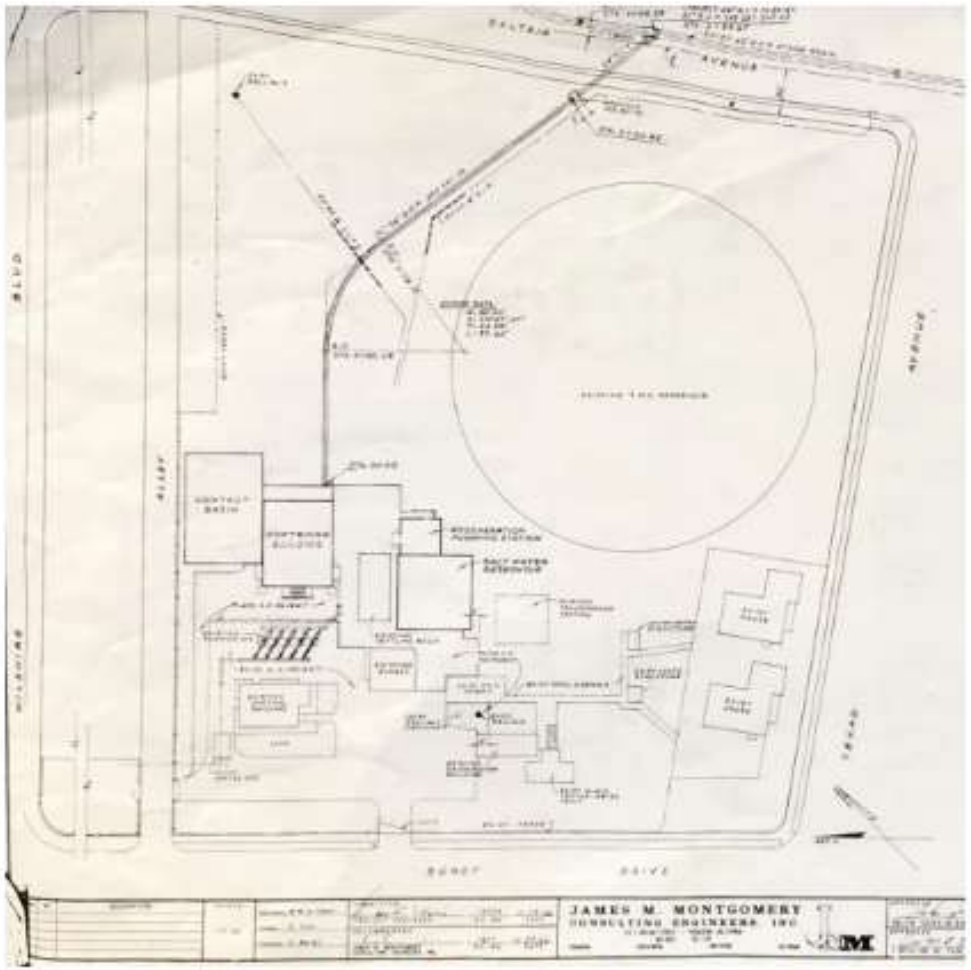


Figure 7. Plan map of the Arcadia Water Treatment Plant South elevation, James M. Montgomery, Consulting Engineers, Inc., 1966. Map oriented so Wilshire Boulevard is at left (Montgomery 1966)

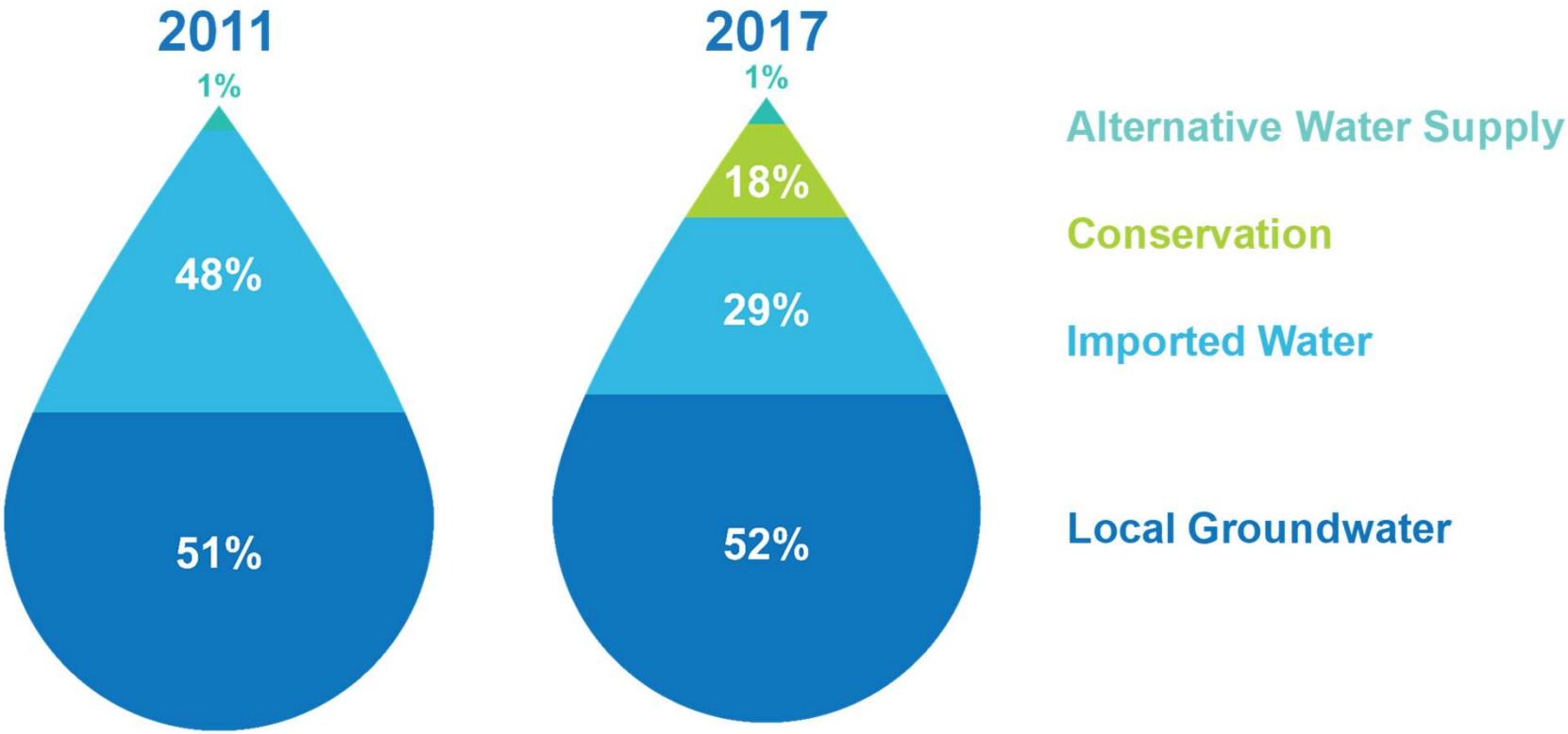
City of Santa Monica

March Towards Water Self-Sufficiency

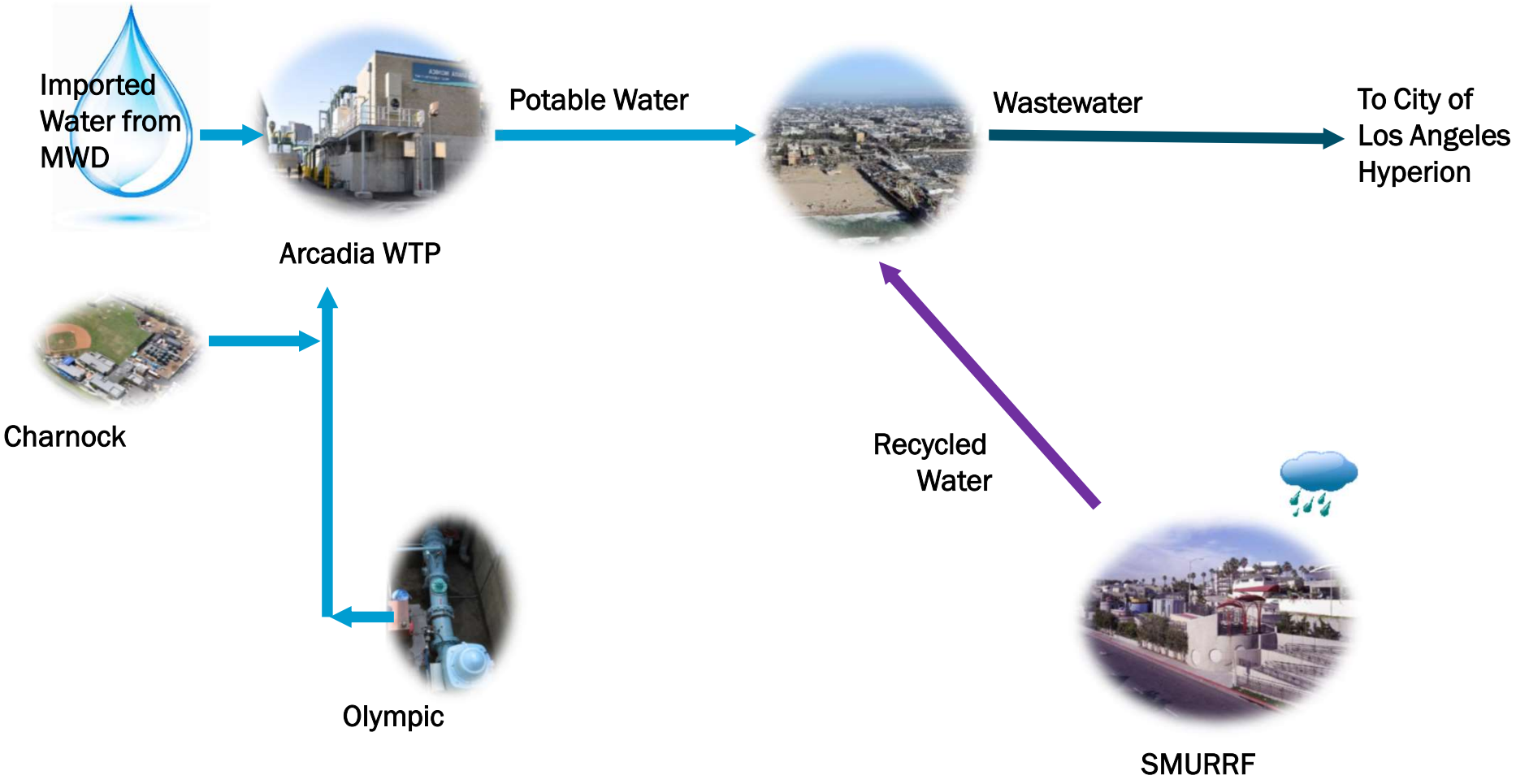
Why Water Self-Sufficiency?

- Long term cost benefits for rate payers
- Diverse, sustainable, & drought resilient water supply
- Reduction of energy footprint

City of Santa Monica's Current Water Supply Portfolio



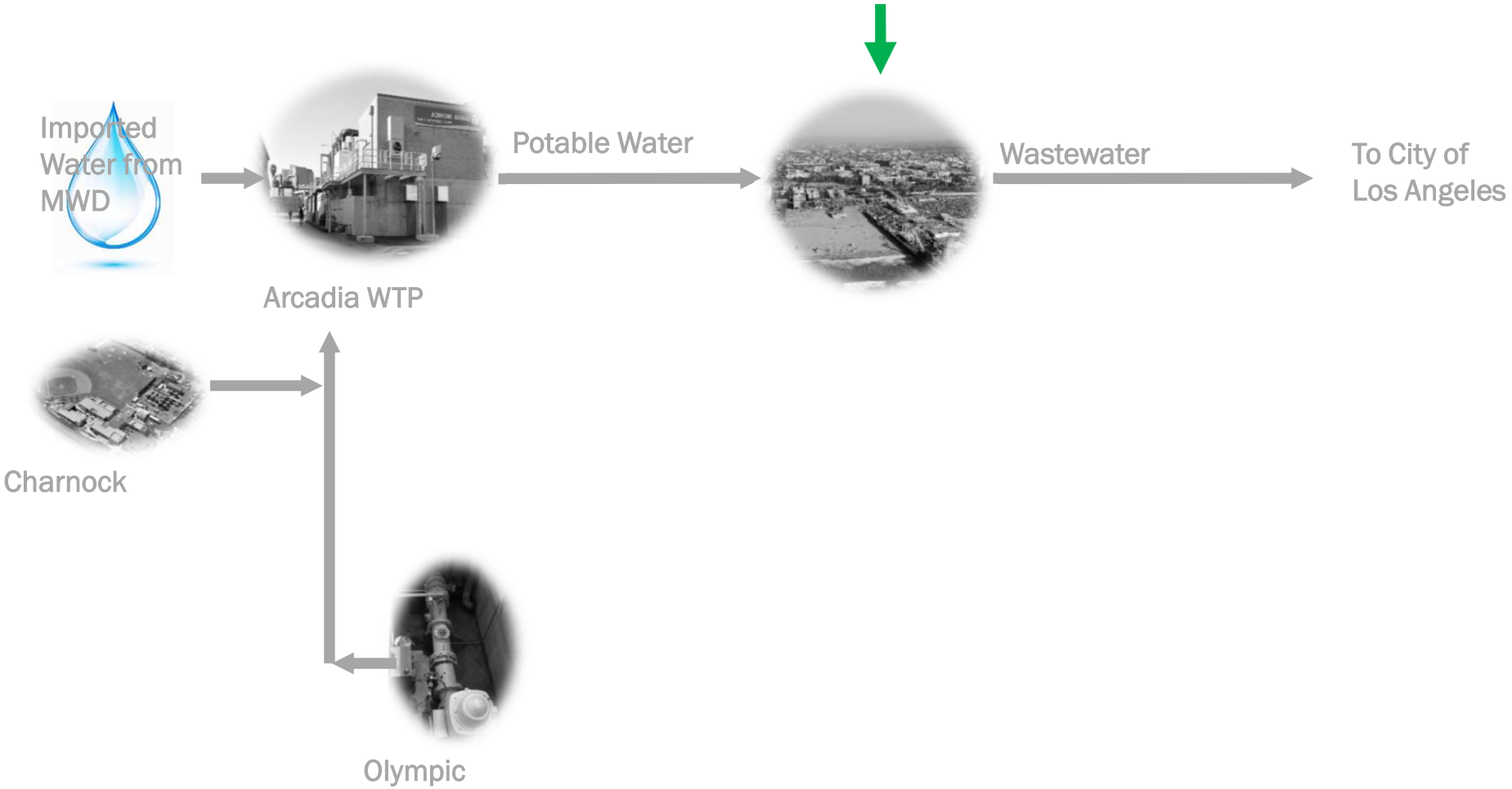
Integrated Approach to Achieve Water Self-Sufficiency



Sustainable Water Master Plan Update (2018) – Pathway to Water Self-Sufficiency

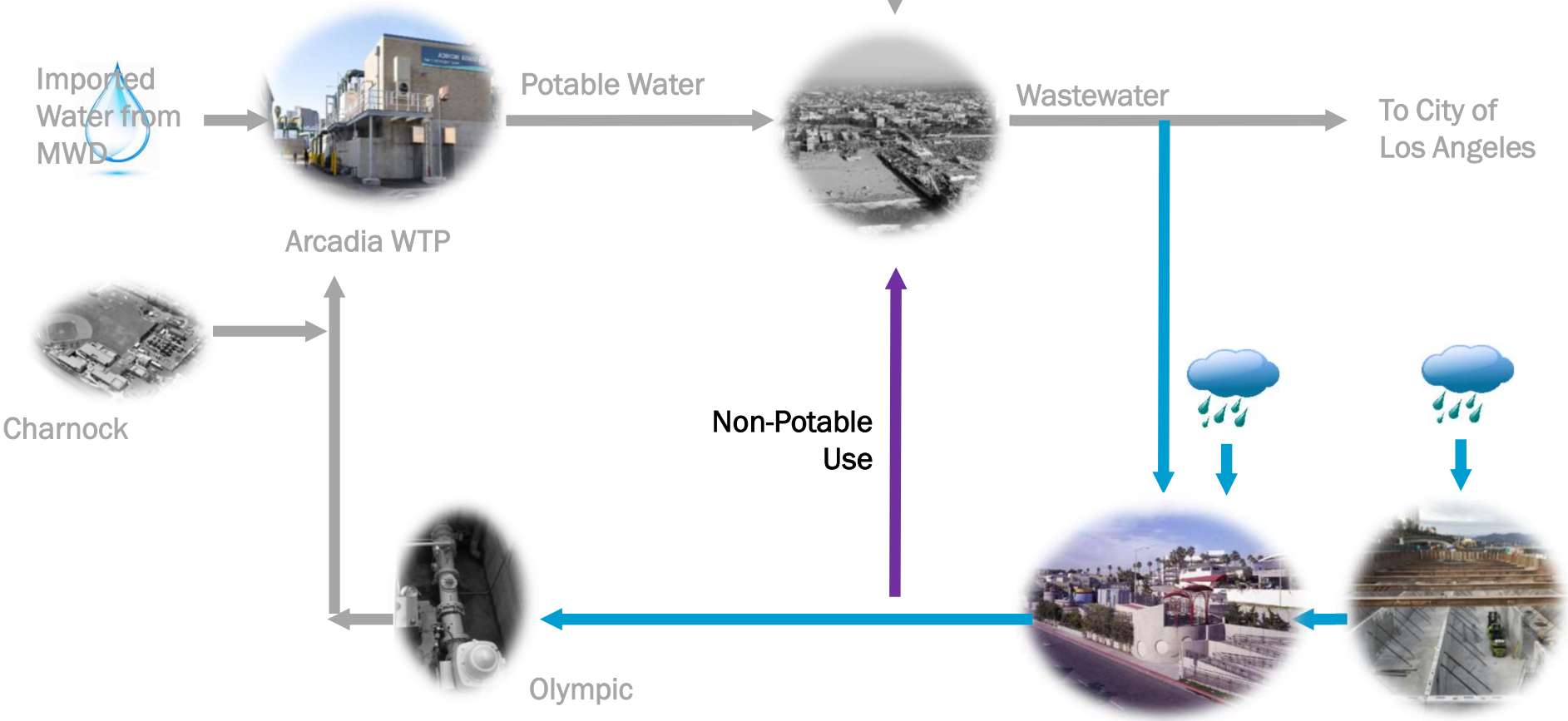
- Component 1 – Conservation
- Component 2 – Alternative Water Supplies
- Component 3 – Expanding Local Groundwater Supplies

Component 1 – *Optimal* Conservation Plan



Component 2 – Alternative Water Supply
Production Efficiency Upgrade at Arcadia

Component 1 – *Optimal* Conservation Plan
38% Reduction in Imported Water



Component 2 – Alternative Water Supply
-Recycled Water @ SMURRF
-Stormwater Capture + Purified Water w/SWIP to Recharge

Clean Beaches Initiative Tank

Component 2 – Alternative Water Supply
Production Efficiency Upgrade at Arcadia

Component 1 – *Optimal* Conservation Plan

Component 3 – New Local Groundwater
Expansion of Arcadia WTP

Imported Water from MWD

Potable Water

Wastewater

To City of Los Angeles

Arcadia WTP

Charnock

Component 3 – New Groundwater
Separate Pipeline + Treatment for Olympic

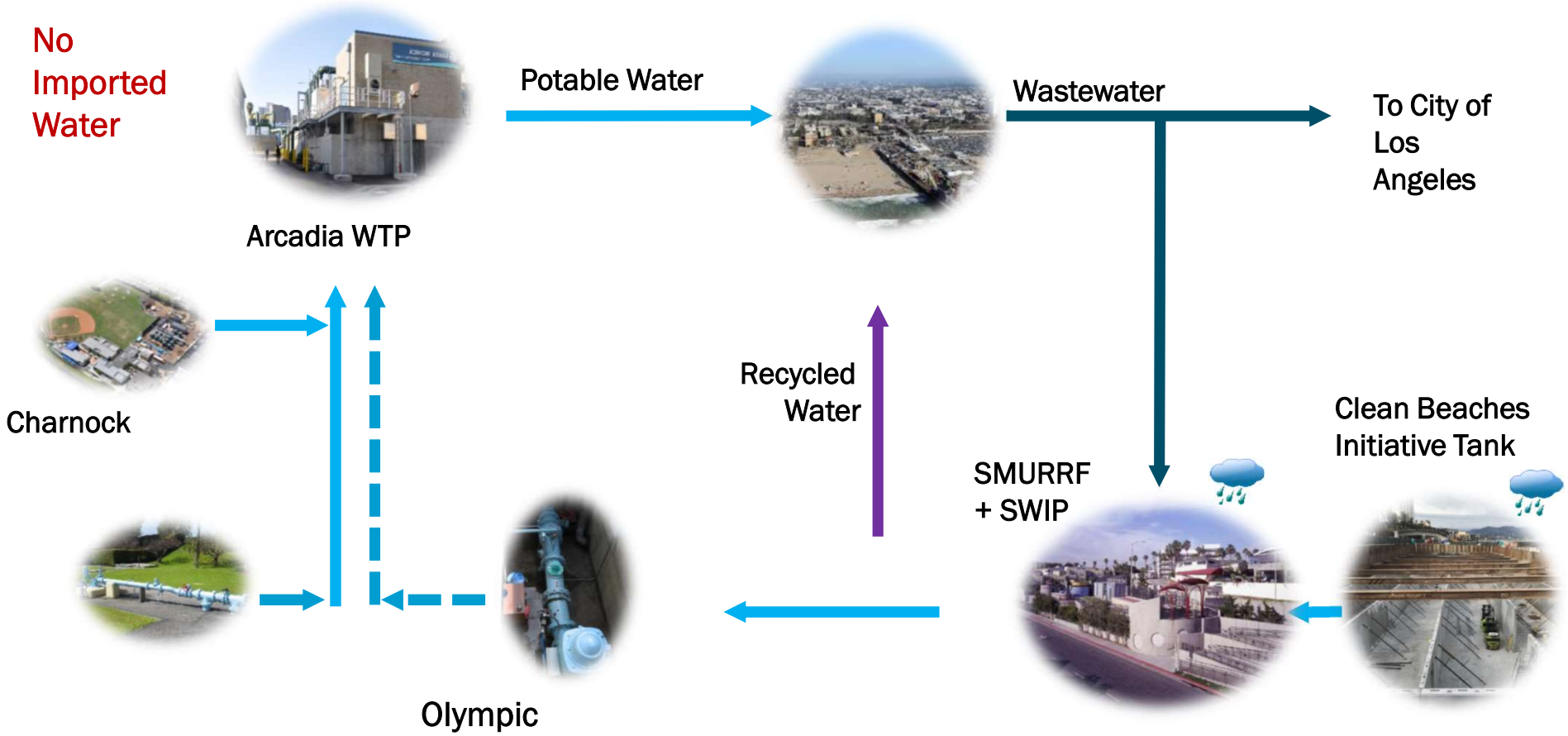
Component 3 –
New Well (Resiliency)

Olympic

Component 2 – Alternative Water Supply
Increase Recycled Water
Recharge Local Groundwater

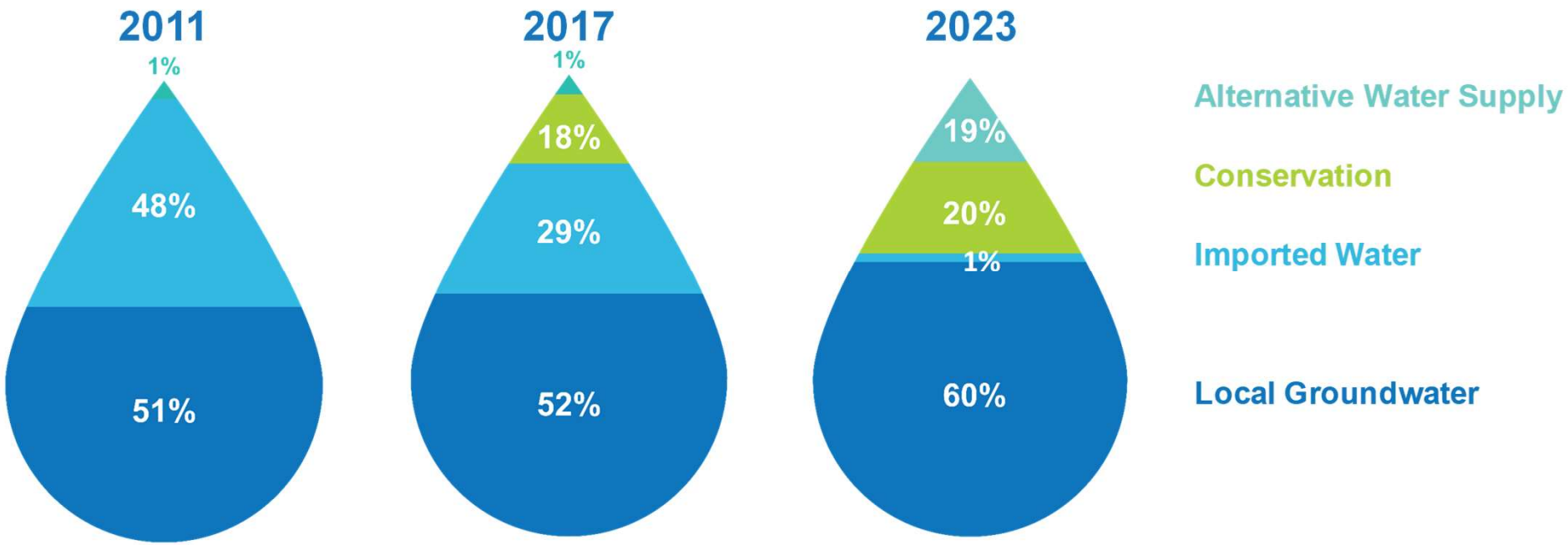
Clean Beaches Initiative Tank

Component 1 – Conservation
Component 2 – Alternative Water Supply
Component 3 – New Local Groundwater



Water Self-Sufficient by 2023

Achieving Water Self-Sufficiency to Support a Sustainable Community



Thank you.

Questions?