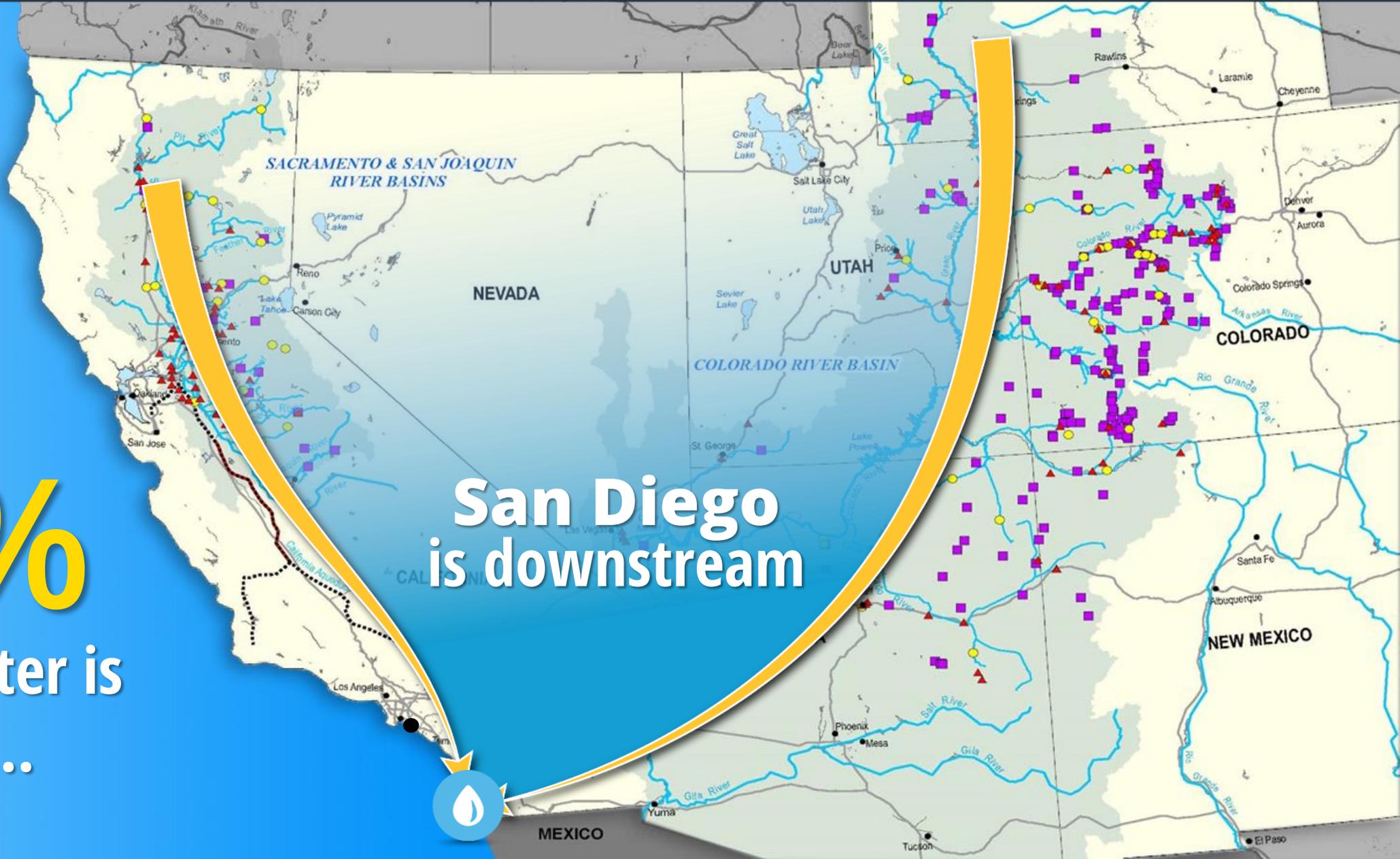


Pure Water San Diego Program

Pure Water Facility Tour

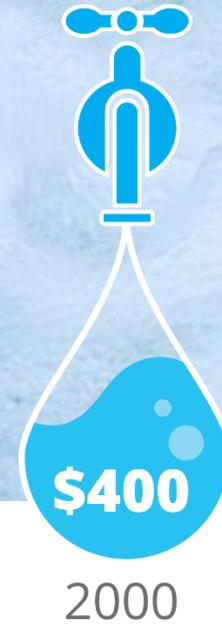
85%
of our water is
imported...

**San Diego
is downstream**



We Face Numerous Water Challenges

Imported water cost per acre-foot



- Limited local & imported supplies
- Population growth
- Bay Delta constraints

- Natural disaster risk
- Rising imported water costs
- Recurring drought

SD Multi-faceted Approach



- Conservation
- Desalination
- Groundwater Development
- Recycled Water
- Pure Water Program

SD What is **Pure Water** San Diego?



Safe



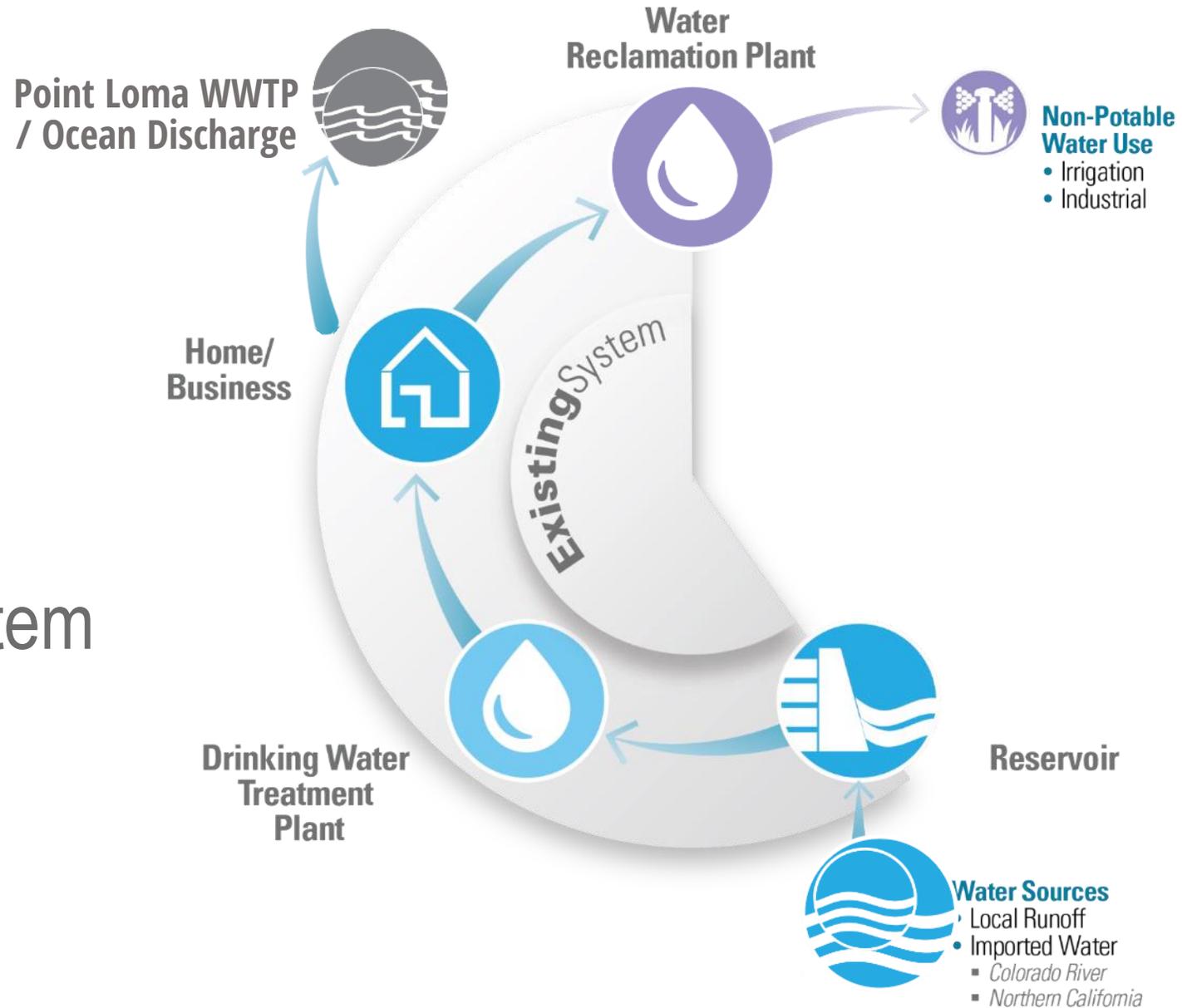
Reliable



Cost-effective

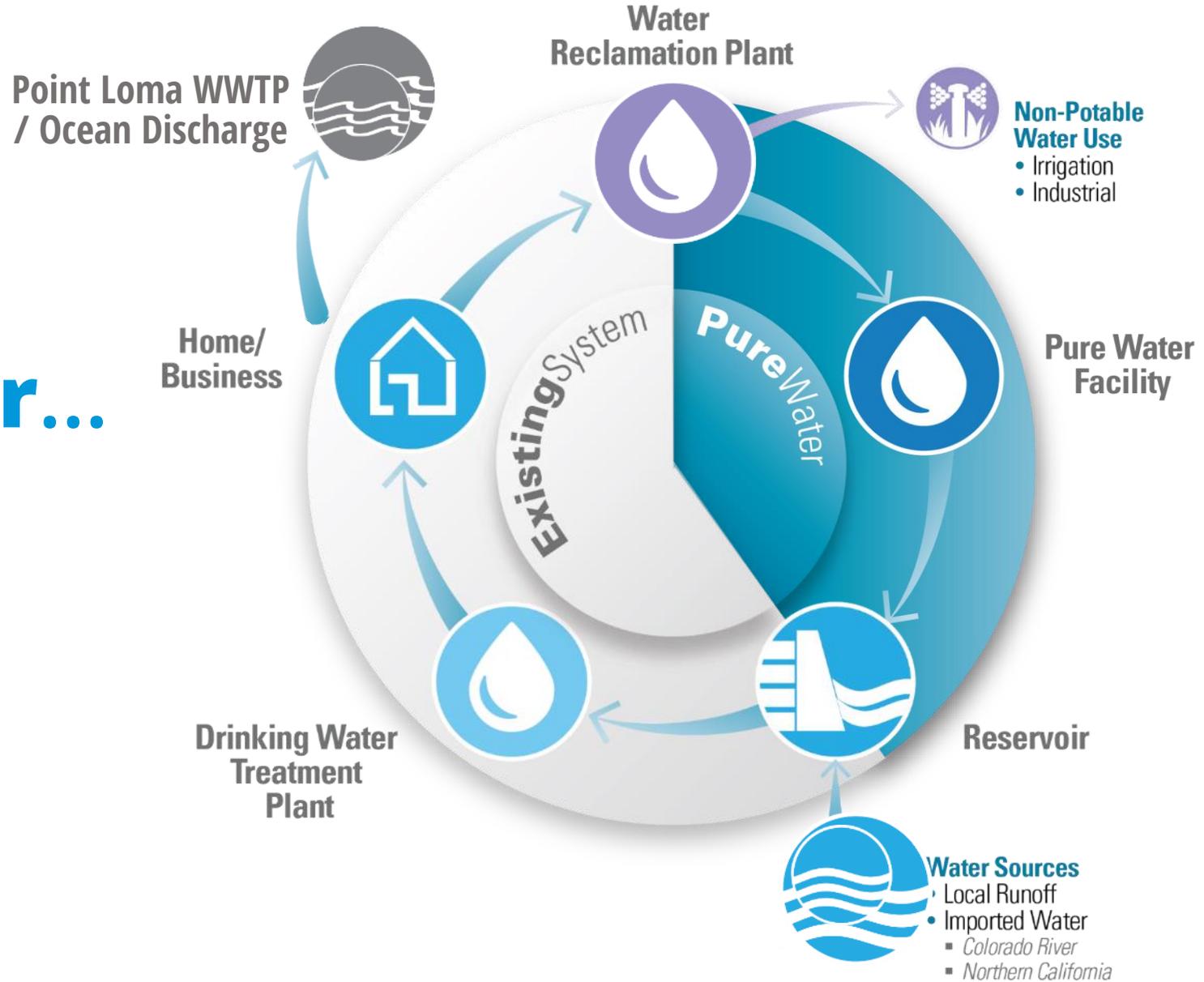
Existing System...

Primarily a Single-Use System



Pure Water...

Completes Our Water Cycle



SD Pure Water Runs a Successful Demonstration Facility



- 50,000 lab tests: **Met all standards**
- Water quality: **Exceptional**
- Energy use: **Renewable**

This video will explain the water purification process that you will see on today's tour.



Pure Water
will produce
1/3
of your water
locally

Phase 1

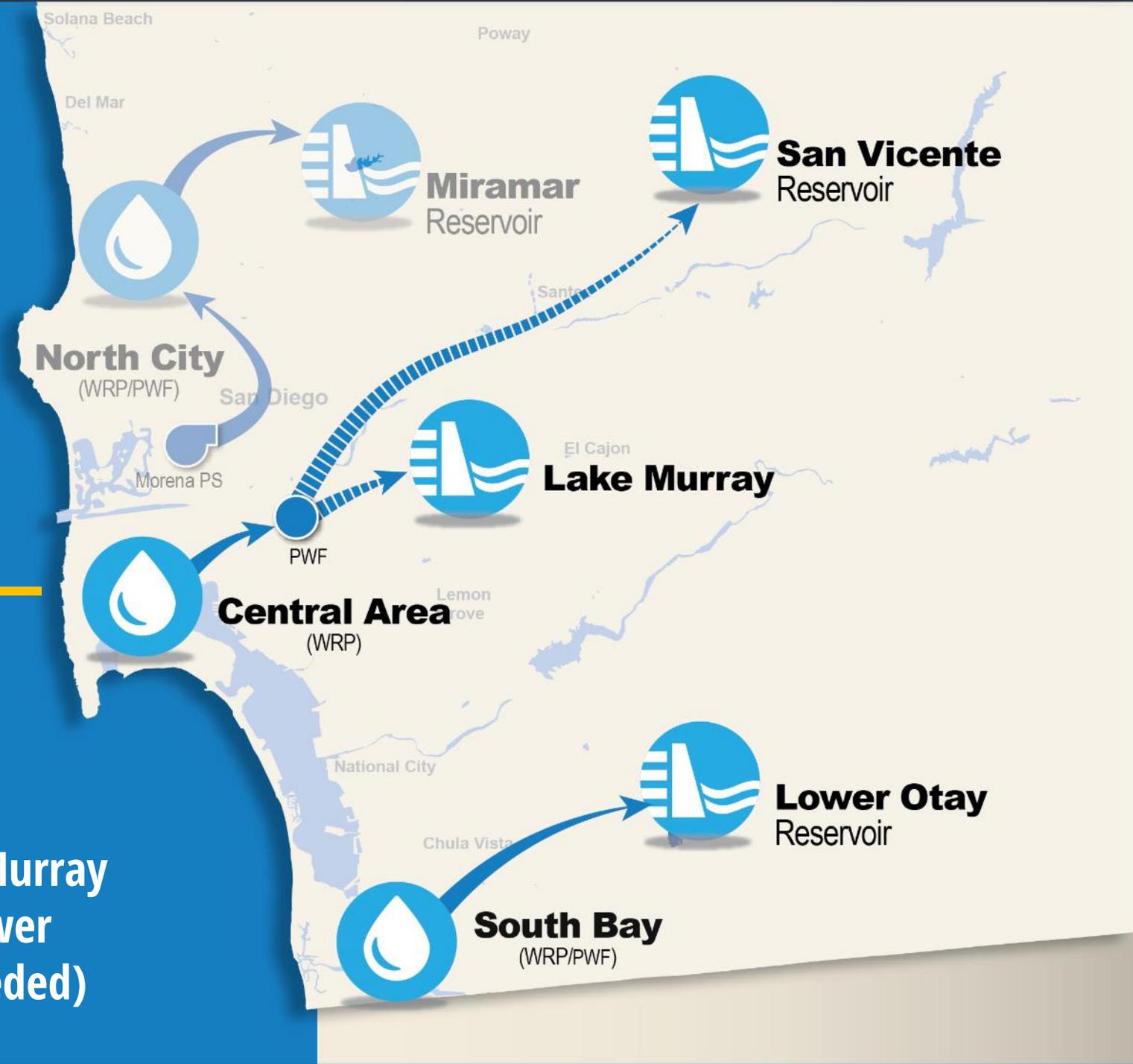
- 2023 Completion
- 30 mgd
- North City PWF to Miramar



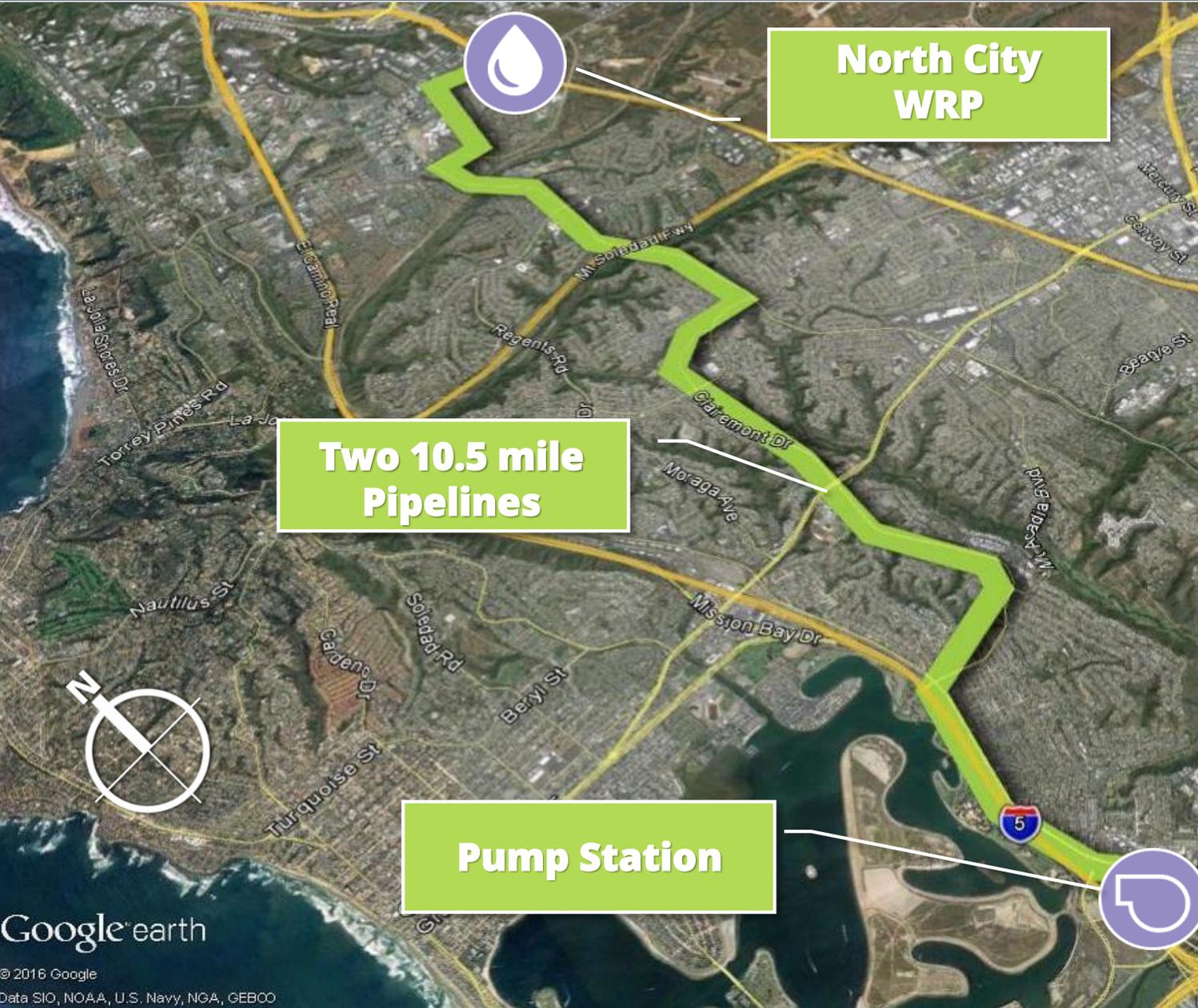
Pure Water
will produce
1/3
of your water
locally

Phases 2 & 3

- 2035 Completion
- 53 mgd
- Central Area PWF to San Vicente or Lake Murray
- South Bay PWF to Lower Otay Reservoir (if needed)



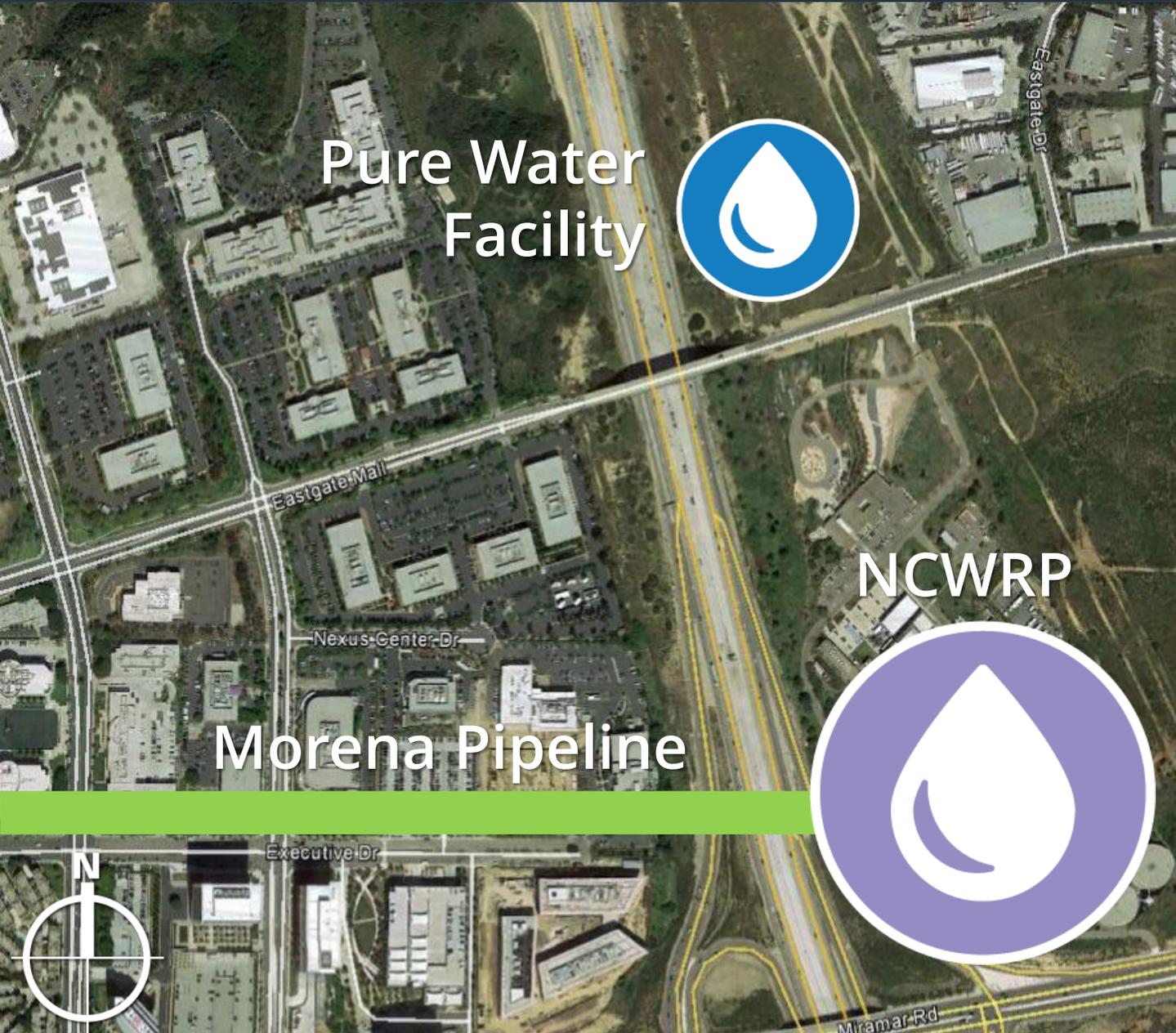
SD Morena Pump Station and Pipelines



- Conveys wastewater to North City Water Reclamation Plant (WRP)
- Supports Phase 1 purified water and recycled water production
- Trenchless construction will be used to avoid:
 - *environmentally sensitive areas*
 - *freeway crossings*
- Construction Start: 2019/2020



North City WRP Expansion



- Treats wastewater to recycled water standards
- Expansion nearly doubles the amount of recycled water produced to meet needs of:
 - *Pure Water Facility*
 - *Recycled Water System*
- Construction Start: 2019



North City Pure Water Facility & Pump Station



Pure Water
Facility

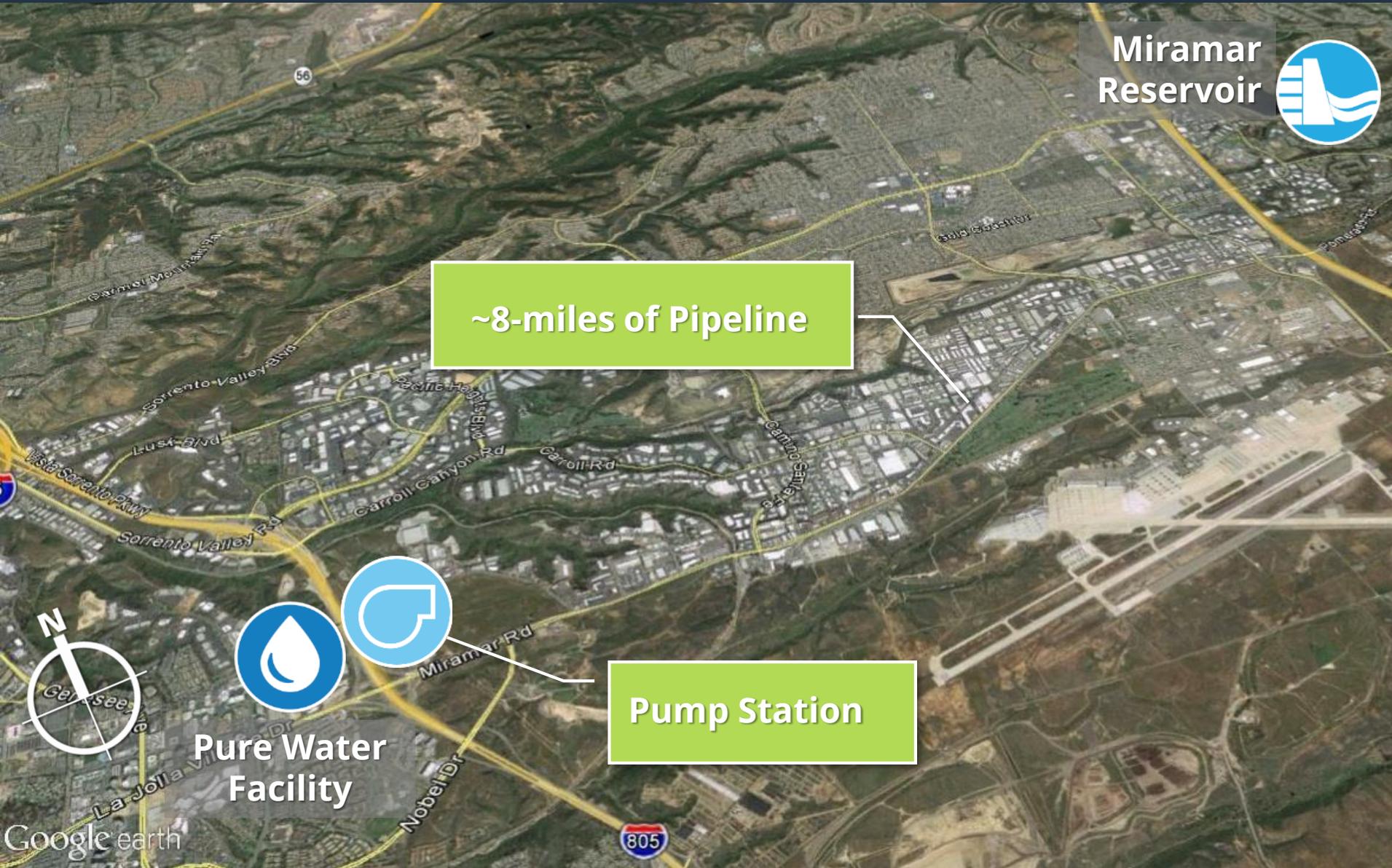
Pump
Station

NCWRP

- Treats recycled water to produce 30 mgd of purified water
- Includes a proven 5-step advanced water purification treatment process
- Construction Start: 2019



North City Pure Water Pipeline



Miramar Reservoir



~8-miles of Pipeline

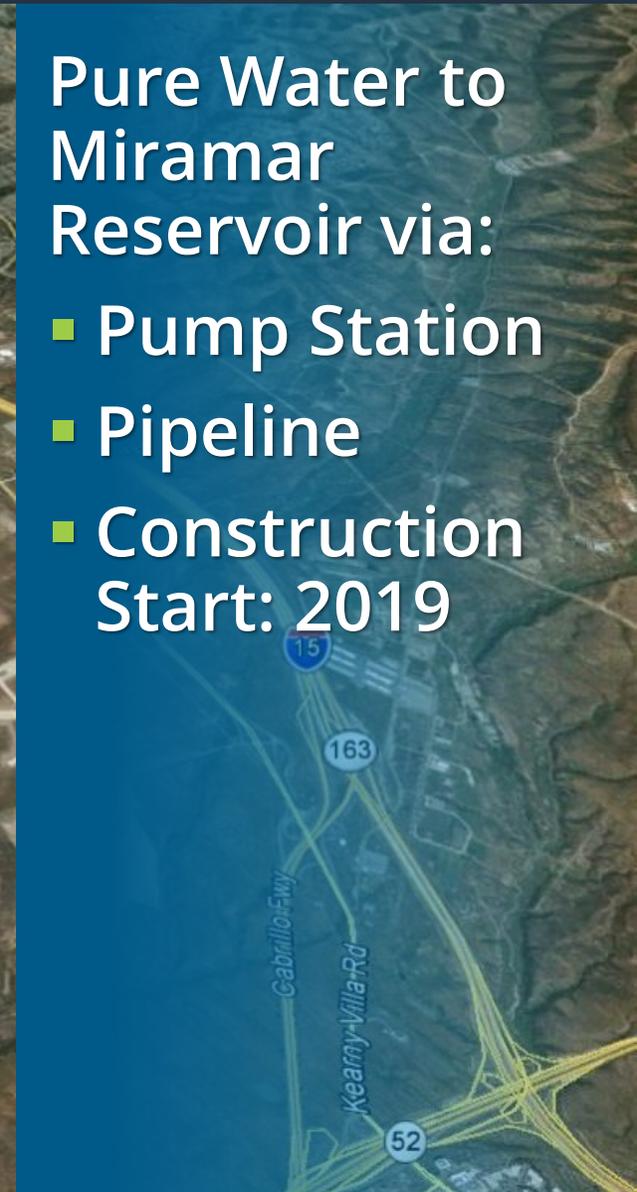
Pump Station



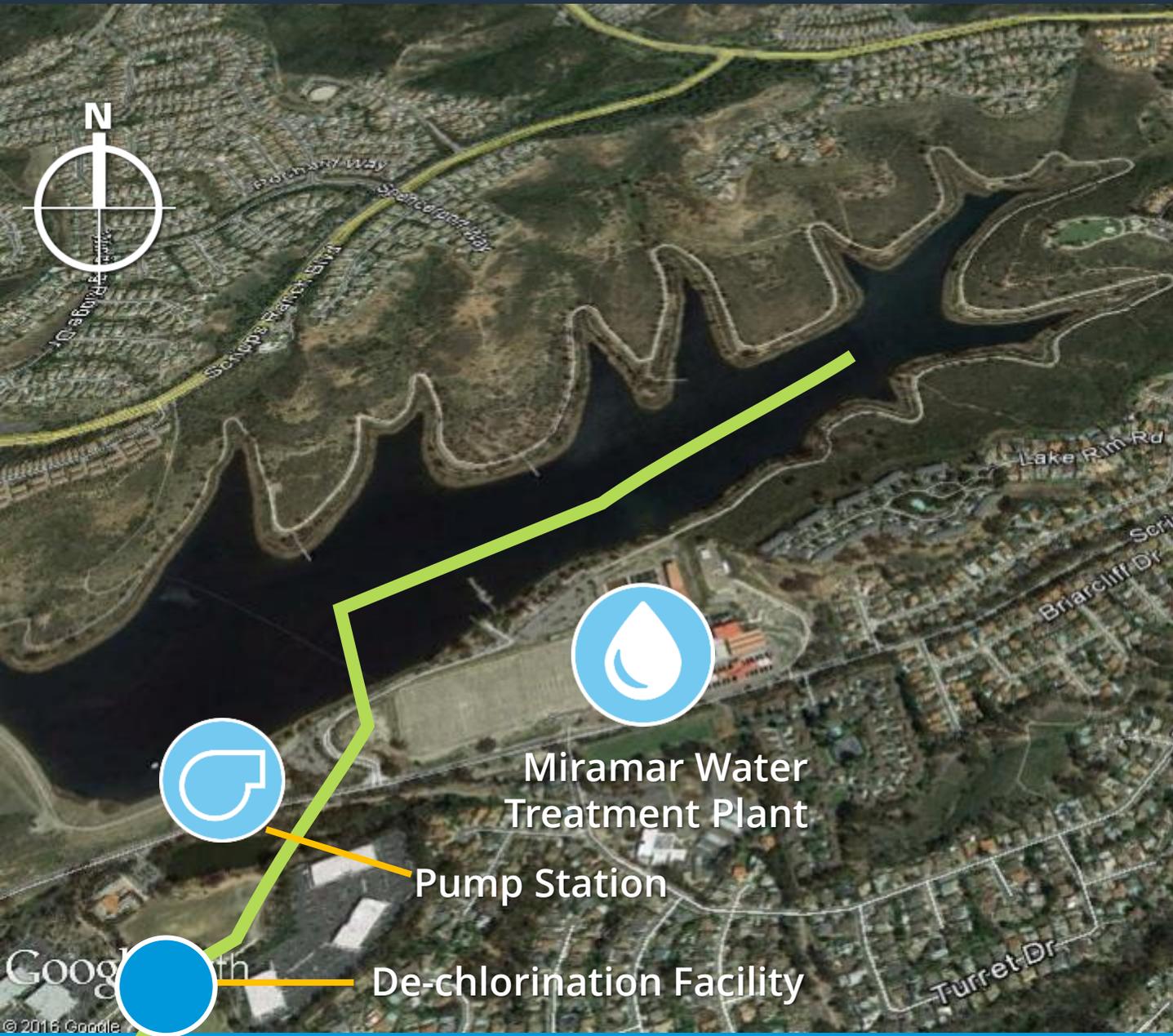
Pure Water Facility

Pure Water to Miramar Reservoir via:

- Pump Station
- Pipeline
- Construction Start: 2019

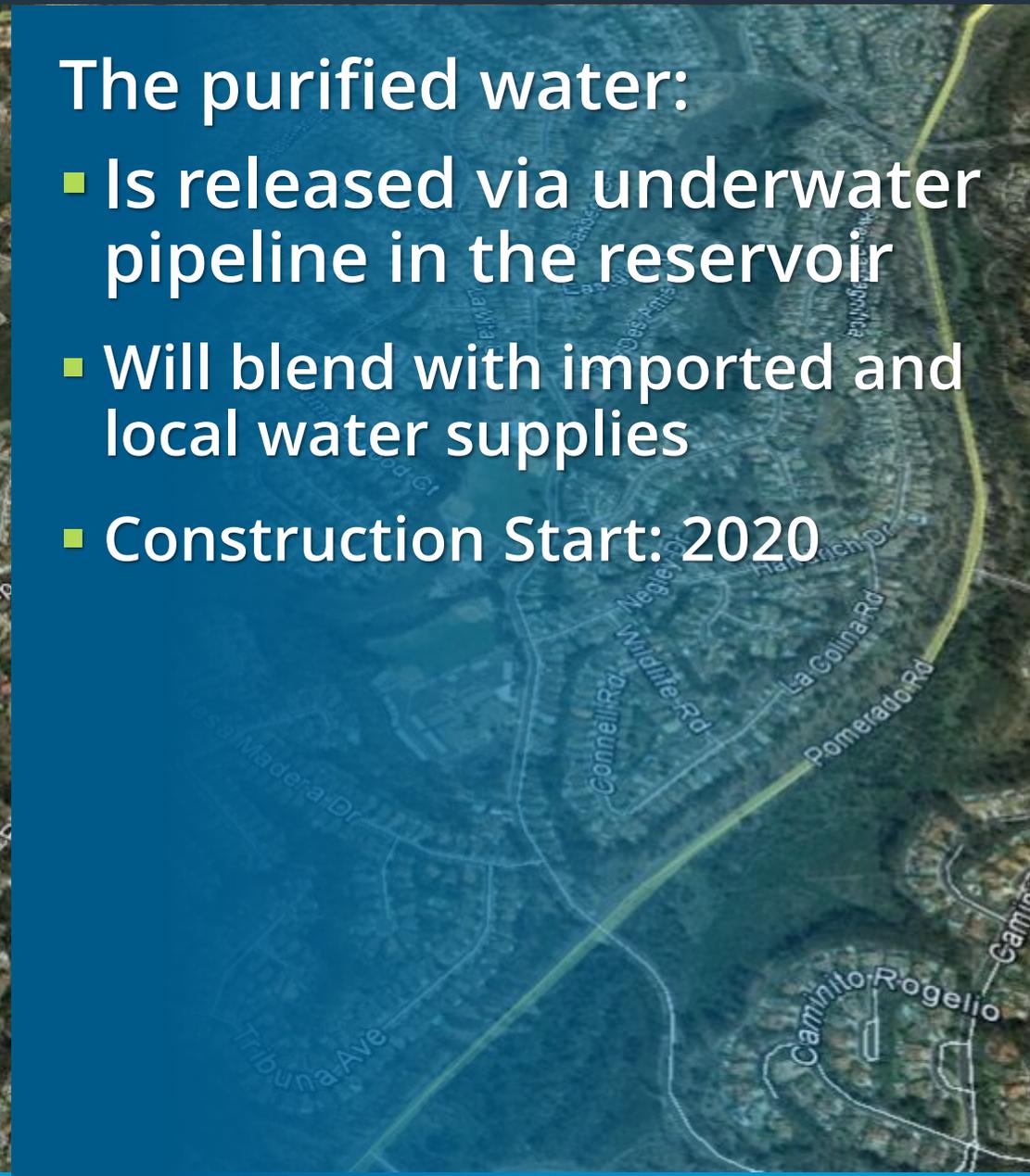


SD Miramar Reservoir



The purified water:

- Is released via underwater pipeline in the reservoir
- Will blend with imported and local water supplies
- Construction Start: 2020



SD North City Renewable Energy



Produces Renewable Energy

- Supports GHG reduction
- ~16 MW

Pure Water

Renewable Energy

Miramar Landfill

Metro Biosolids Center

N



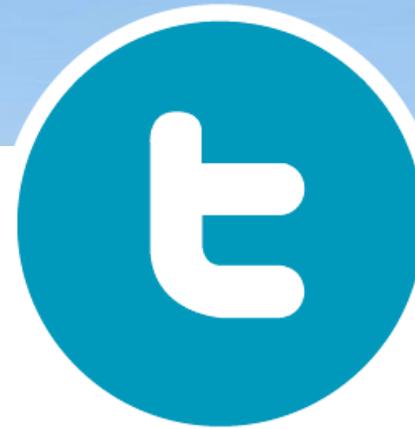
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