

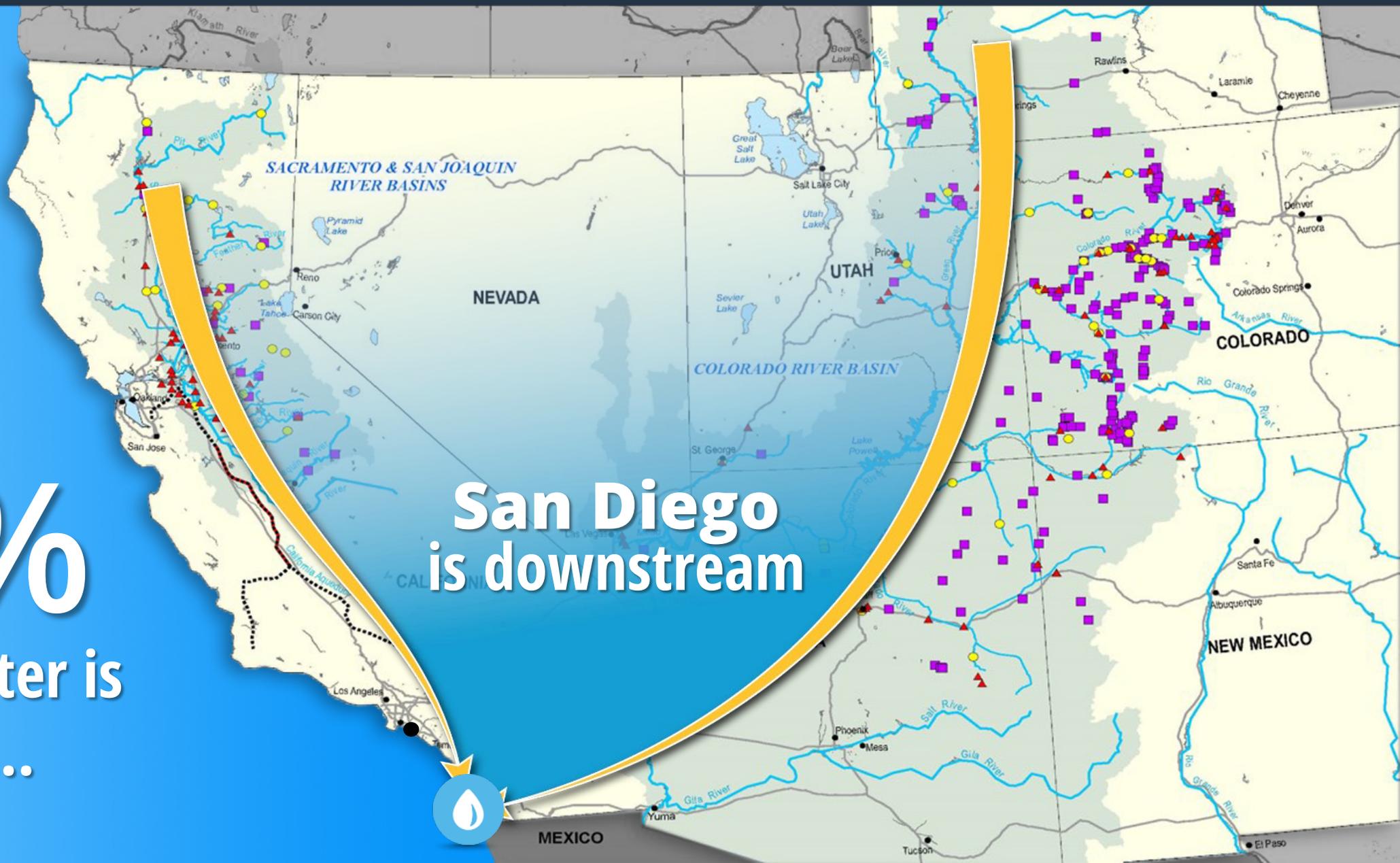
Pure Water San Diego Program

Public Utilities Department

SD San Diego's Water Supply

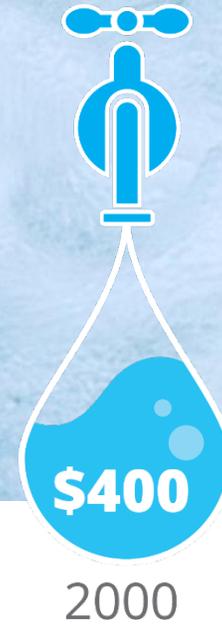
85%
of our water is
imported...

San Diego
is downstream



SD 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

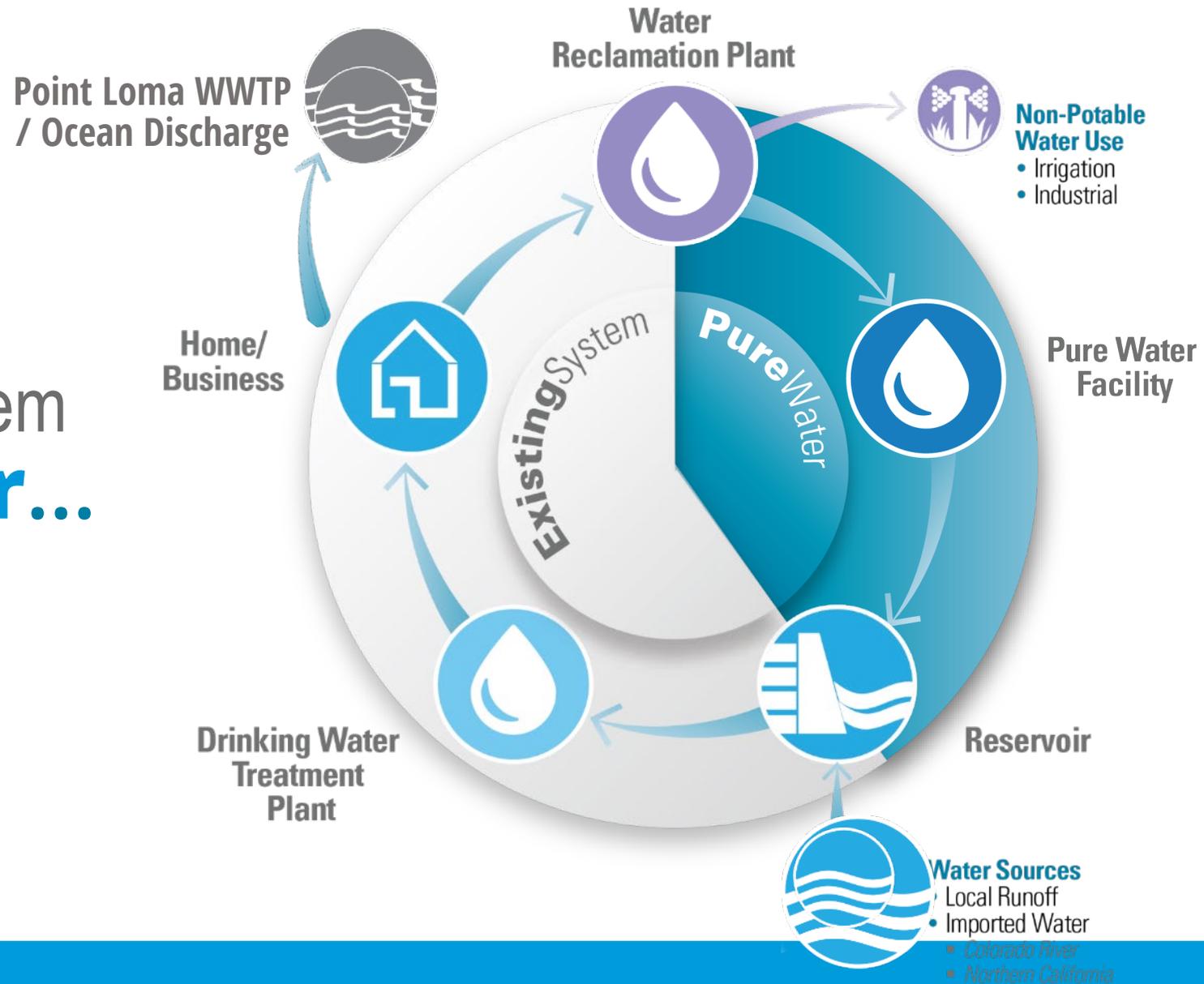
SD San Diego's Water Supply System

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**

Pure Water
will produce
1/3
of your water
locally

Phase 1

- 30 mgd
- North City PWF to Miramar



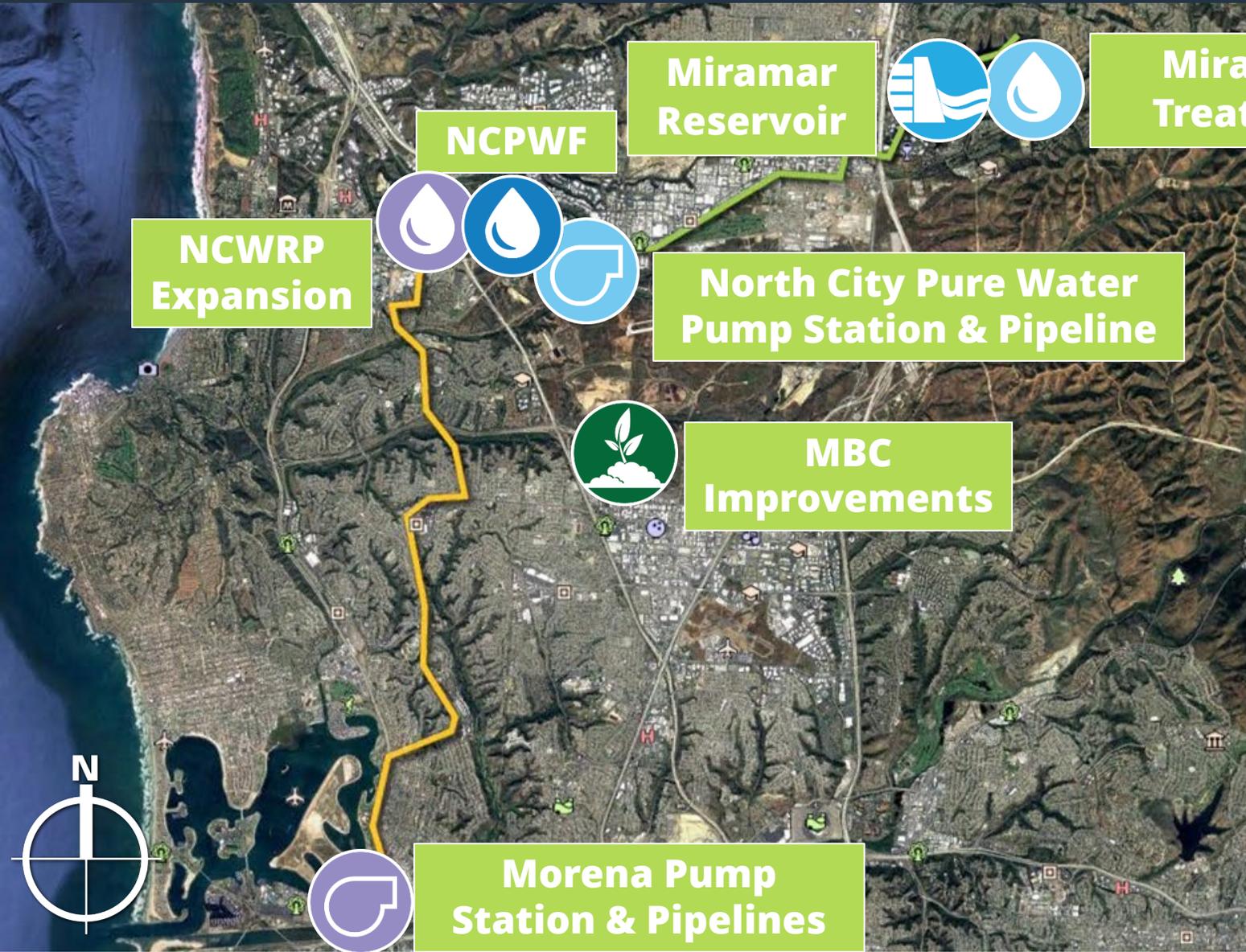
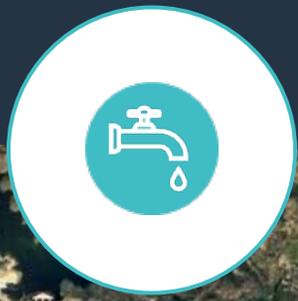
Pure Water
will produce
1/3
of your water
locally

Phase 2

- 2035 Completion
- 53 mgd
- Central Area PWF to San Vicente or Lake Murray



SD Phase 1 Projects

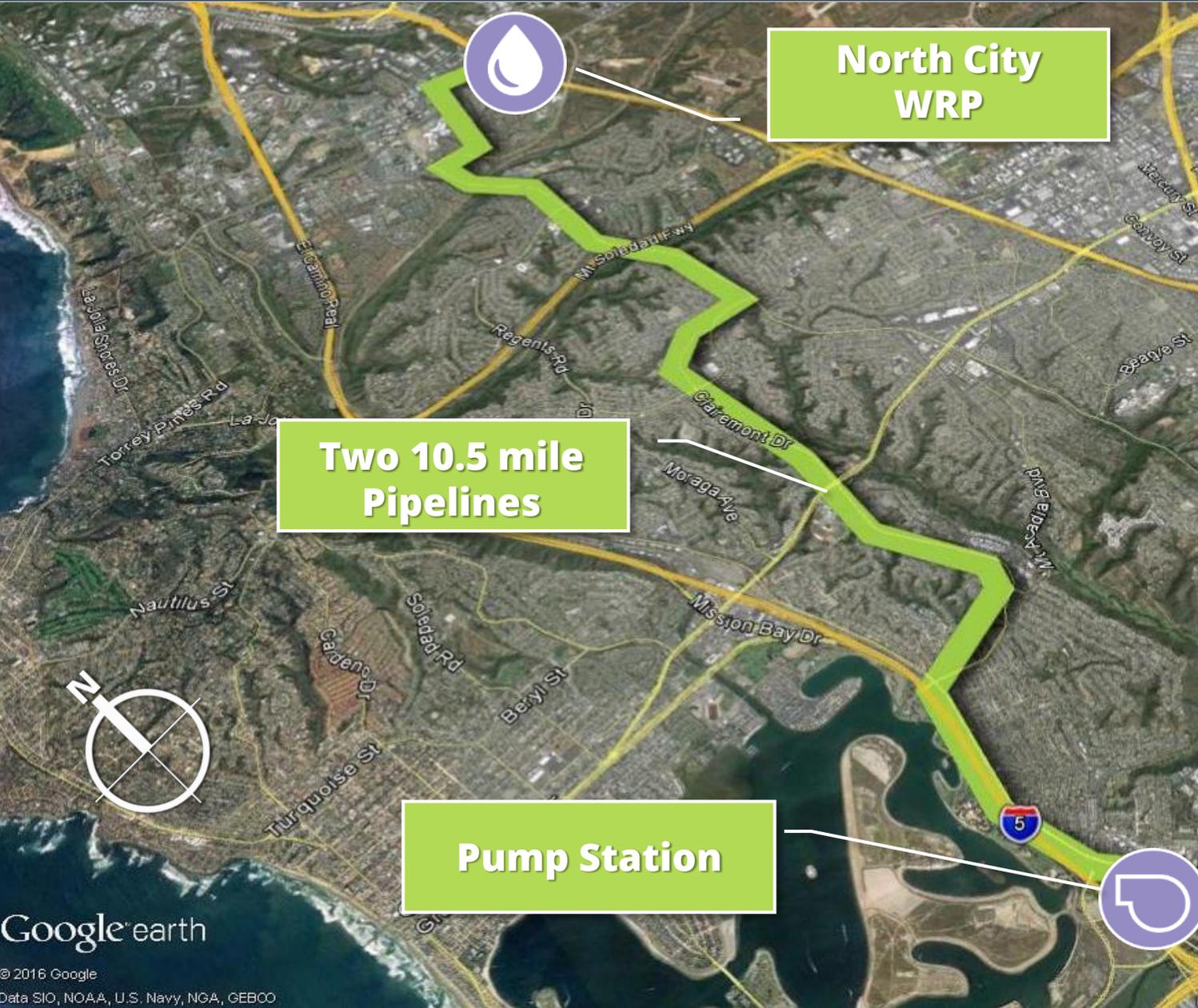


Phase 1 – North City will produce 30 mgd of purified water

100% Design Completed on all Phase 1 projects

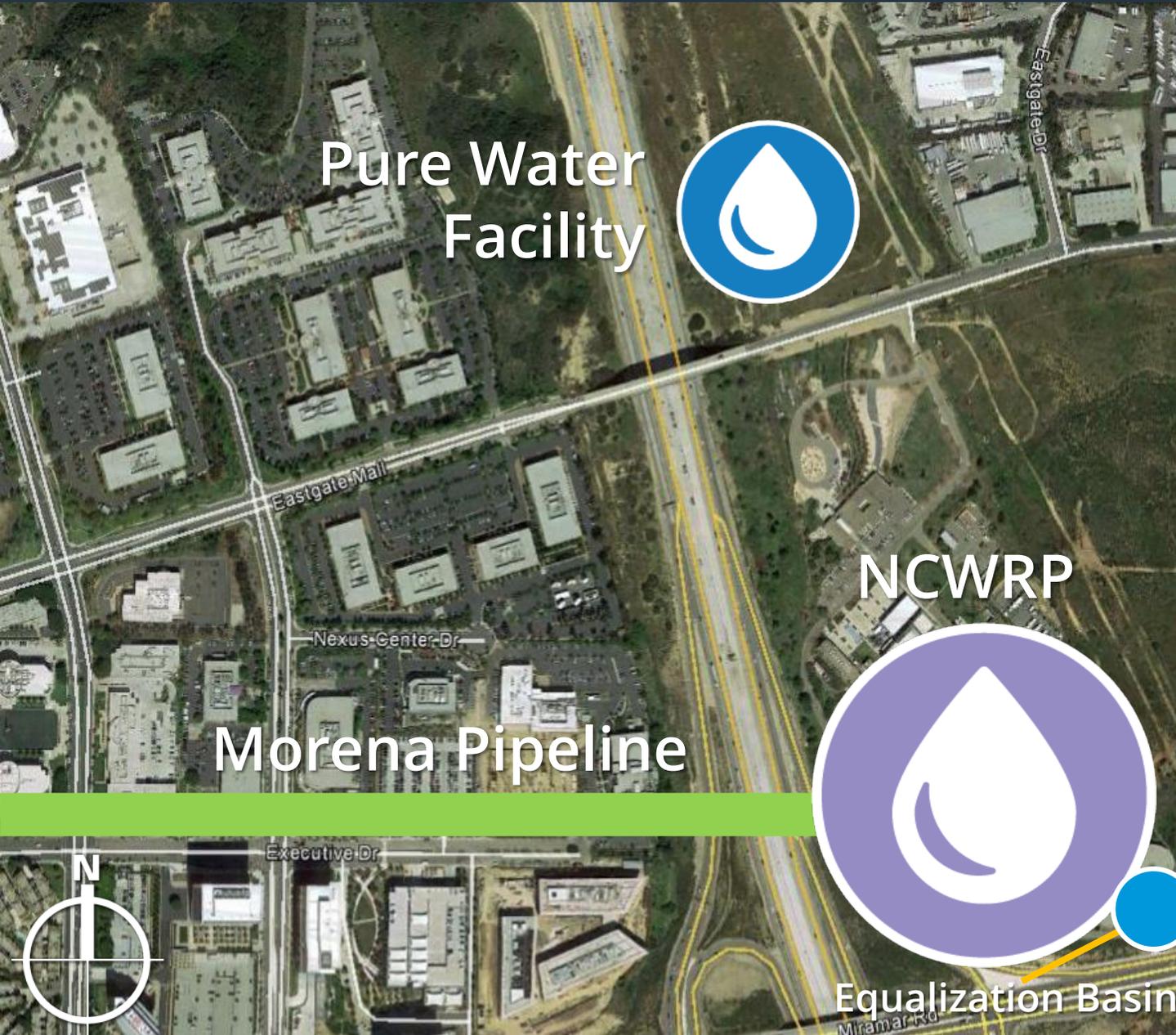
MBC = Metro Biosolids Center
NCWRP = North City Water Reclamation Plant
NCPWF = North City Pure Water Facility

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 begins in early 2021

SD North City Water Reclamation Plant Expansion



Pure Water Facility



NCWRP



Equalization Basin

- 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*
- Early site work is being completed
- Expansion begins in fall 2021



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 begins in early 2021



North City Pure Water Facility



Ozonation



Biological
Activated
Carbon
Filters



Membrane
Filtration



Reverse
Osmosis

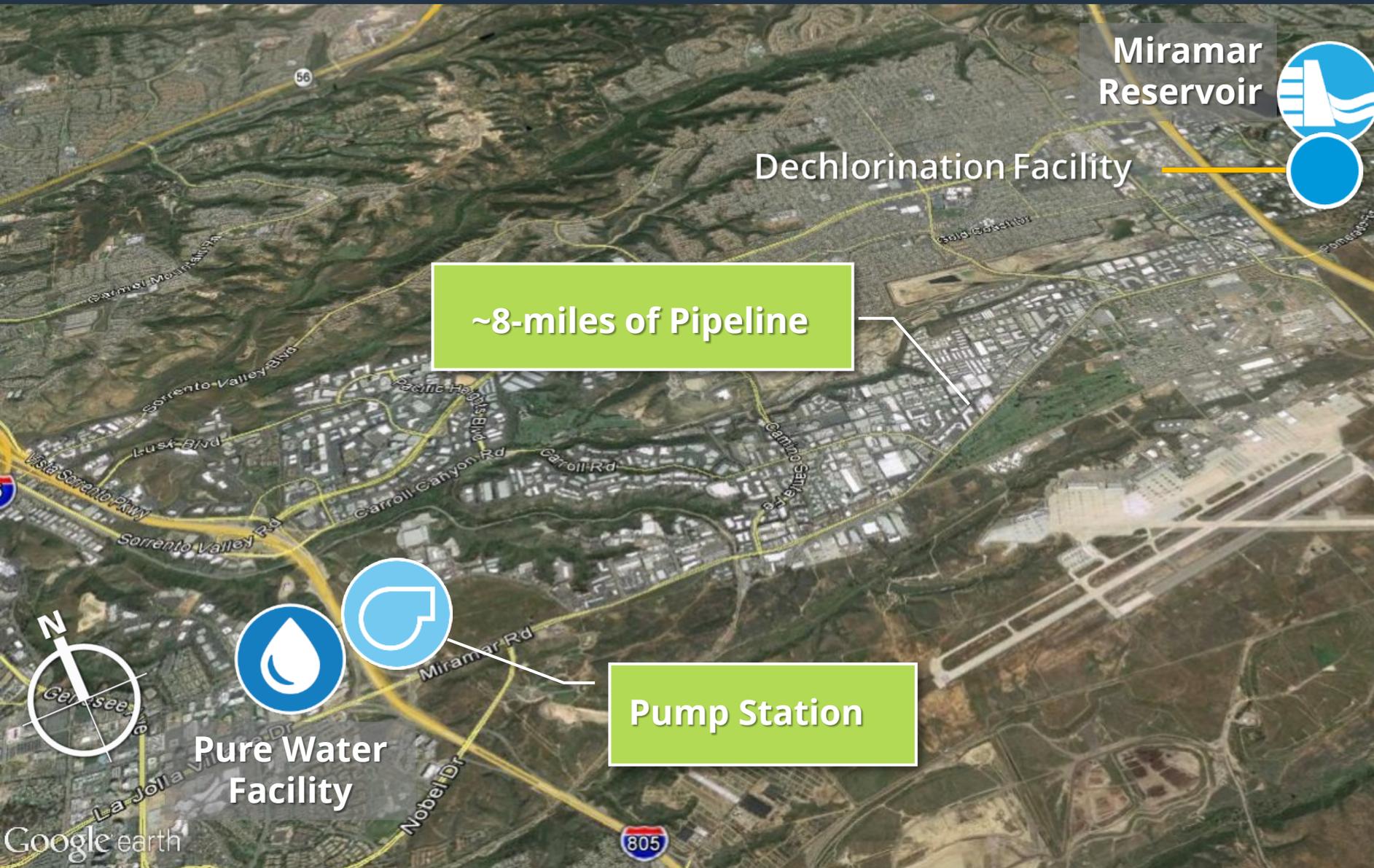


Ultraviolet
Disinfection
/Advanced
Oxidation



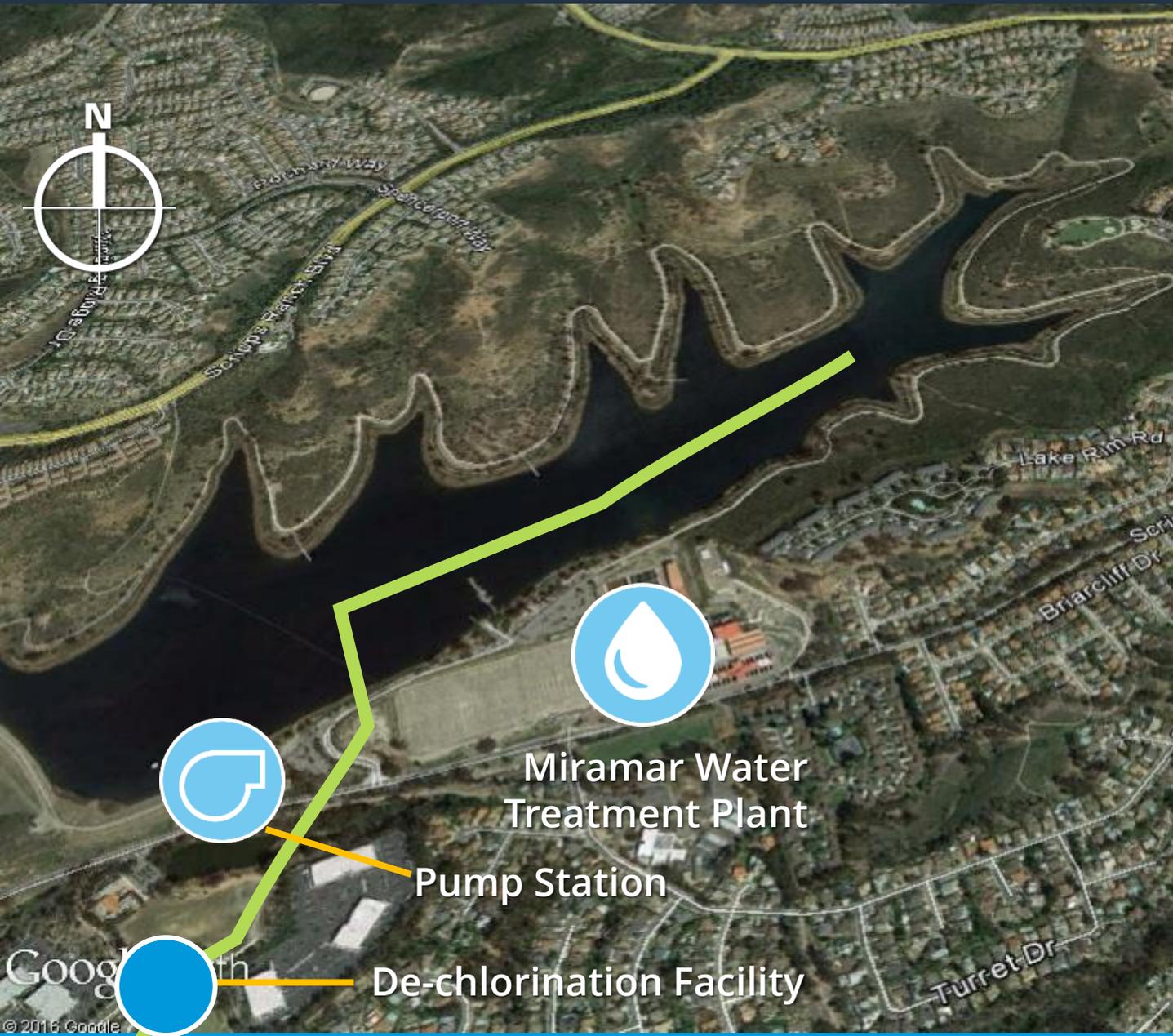


North City Pure Water Pipeline



- Pure Water to Miramar Reservoir via:
 - Pump Station
 - Pipeline
- Water will be dechlorinated before release to reservoir
- Construction begins in summer 2021

SD Miramar Reservoir



- The purified water:
 - Is released via underwater pipeline in the reservoir
 - Will blend with imported and local water supplies
- The Miramar Reservoir Pump Station is being upgraded



Pure Water provides the City with a safe, reliable and sustainable water supply.

SD Who Supports Pure Water?





www.purewatersd.org

Sign up for a tour of the
Pure Water Demonstration Facility!



PureWaterSD



PureWaterSD



@PureWaterSD



PureWaterSD

Join our **mailing list** and **sign a support card**

Want to take a guided tour of the Pure Water Demonstration Facility? Learn all about the five-step process from members of the Pure Water team by viewing the Pure Water Virtual Tour at one of the links below.

virtualtour.purewatersd.org
YouTube.com/PureWaterSD

