Pure Water San Diego Program

Pure Water Facility Tour
85% of our water is imported... San Diego is downstream
We Face Numerous Water Challenges

- Limited local & imported supplies
- Population growth
- Bay Delta constraints
- Natural disaster risk
- Rising imported water costs
- Recurring drought
Multi-faceted Approach

- Conservation
- Desalination
- Groundwater Development
- Recycled Water
- Pure Water Program
What is Pure Water San Diego?

- Safe
- Reliable
- Cost-effective
San Diego’s **Water Supply System**

**Existing System...**
Primarily a Single-Use System

- Point Loma WWTP / Ocean Discharge
- Water Reclamation Plant
- Non-Potable Water Use
  - Irrigation
  - Industrial
- Reservoir
- Water Sources
  - Local Runoff
  - Imported Water
San Diego’s **Water Supply System**

Pure Water... Completes Our Water Cycle
Pure Water Runs a Successful Demonstration Facility

- 50,000+ lab tests: Met all standards
- Water quality: Exceptional
Pure Water will produce $\frac{1}{3}$ of your water locally.

Phase 1
- 30 mgd
- North City PWF to Miramar
Pure Water will produce \( \frac{1}{3} \) of your water locally.

Phase 2
- 2035 Completion
- 53 mgd
- Central Area PWF to San Vicente or Lake Murray
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
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
North City Water Reclamation Plant 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
- Early site work is being completed
- Expansion begins in fall 2021
North City Pure Water Facility & Pump Station

- Treats recycled water to produce 30 mgd of purified water
- Includes a proven 5-step advanced water purification treatment process
- Early site work is being completed
- Construction begins in early 2021
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

~8-miles of Pipeline

Dechlorination Facility

Pure Water Facility

Pump Station

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
Who Supports Pure Water?
What Can I Do?

Join our mailing list and sign a support card

www.purewatersd.org

Pure Water San Diego
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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.

Pure Water San Diego Website Video Link: virtualtour.purewatersd.org
Pure Water San Diego YouTube Video Link: YouTube.com/PureWaterSD