# Pure Water San Diego Program

#### **Public Utilities Department**



# **Solution** San Diego's Water Supply



# **SD** We Face Numerous Water Challenges



# **s** Multi-faceted Approach



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

# s San Diego's Water Supply System



sandiego.gov

Pure Water will produce nearly 1/2 of your water locally

#### Phase 2

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



### **s** Pure Water Runs a Successful Demonstration Facility





More than 50,000 lab tests: Met all standards



sandiego.gov

# **Demonstration Facility Virtual Tour**

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



City of San Diego Pure Water Demonstration Facility Virtual Tour 295 views • May 7, 2020

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# **s** Phase 1 Projects



sandiego.gov

# **SD** Phase 2 Central Area Planning Update



# **Solution** Sustainability is Key



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

# **SD** Who Supports Pure Water?





# The City of San Diego continues to provide safe, high quality drinking water for its customers each and every day.



@PureWaterSD

Visit purewatersd.org to learn more about the Pure Water Program.



sandiego.gov

# **Solution** Morena Pump Station



### **sb** Morena Southern/Middle Alignment

**Clairemont Driv** 

nver Stree

Chicago Stree

ilton Stree

Aorena Boulevare

Sherman Street

/est Morena Boulevard



- Will connect the Morena Pump Station at Sherman and Custer Streets and the Morena Pipelines Middle Alignment at Clairemont Dr. and Iroquois Ave.
- Construction anticipated to start mid-2022

### sb Morena Southern/Middle Alignment



 Will connect the Morena Pipelines Southern Alignment in Bay Park to the Morena Pipelines Northern Alignment and Tunnels in University City

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Construction anticipated to start mid-2022

### **Solution** Morena Northern Alignment & Tunnels





- This project will connect to the Morena Pipelines Middle Alignment to the south and the North City Water Reclamation Plant to the north
- Begins on Genesee Ave. and Appleton St.
  and continues on Genesee Ave, Nobel Drive,
  Towne Centre Drive and Executive Drive
- Construction to start mid-2022

## **solution** North City Water Reclamation Plant Expansion

**Pump Station** 

NCWRP

#### **Eastgate Mall**

#### Morena Pipeline

NCPWF

Flow 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
- New Flow Equalization Basin
- Early site work is completed
- Construction is underway

## **sb** North City Pure Water Facility & Pump Station

Pump

Station



NCWRP

INTERSTATE

805

• Treats recycled water to produce 30 mgd of purified water

- Includes a proven 5-step advanced water purification treatment process
- A new pipeline will be built and will connect the NCWRP to the NCWRP
- New operations building and Discovery Center
- Construction is underway

# **North City Pure Water Facility**



# **SD** Metropolitan Biosolids Center

- Regional biosolids facility that receives and processes solids from both the North City Water Reclamation Plant (NCWRP) the Point Loma Wastewater Treatment Plant
- The NCWRP will undergo an expansion, upgrades and improvements, increasing biosolids flows and loadings to the Metropolitan Biosolids Center



Construction is underway

# **Solution** North City Pure Water Pipeline

Miramar Reservoir Dechlorination Facility

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#### ~8-miles of Pipeline

#### **Pump Station**

North City Pure Water Facility

Google ea

Miram

• The NCPWP will convey 30 mgd of purified water to the Miramar Reservoir for storage

- Pure Water to Miramar Reservoir via:
  - Pump Station
  - Pipeline
- •Water will be dechlorinated before release to reservoir
- Construction is underway

# **Solution** Miramar Reservoir Pump Station Improvements

Miramar Water Treatment Plant Pump Station

**Dechlorination Facility** 

•The Miramar Reservoir Pump Station is being upgraded through the improvements project

- Upgrades include operational improvements associated with the treatment of purified water
- The purified water will be treated again at the Miramar Water Treatment Plant before distributed to the public

# **Subaqueous Pipeline**

Subaqueous Pipeline

> Miramar Water Treatment Plant Pump Station

**Dechlorination Facility** 

• The Miramar Reservoir Pump Station is being upgraded through the improvements project

- Upgrades include operational improvements associated with the treatment of purified water
- •The purified water will be treated again at the Miramar Water Treatment Plant before distributed to the public