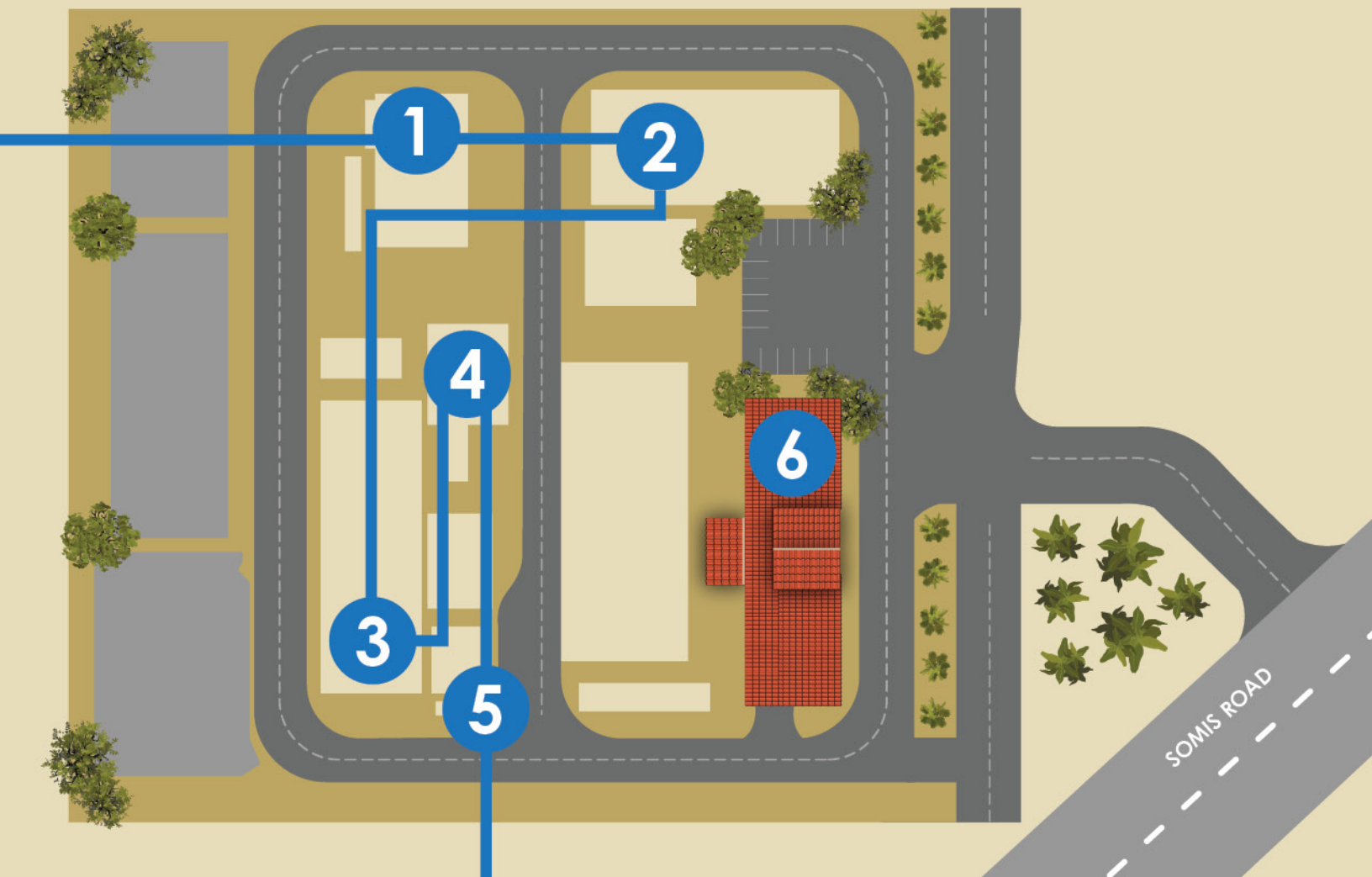


# Camarillo Desalter Facility

The Camarillo Desalter Facility transforms unusable, brackish groundwater into a high-quality drinking water source for City water customers.



Flip to learn more





# Background

Camarillo's residents, businesses, and farmers rely on local groundwater supplies and imported water from Northern California to meet their diverse needs. In recent years, extended drought and climate uncertainty have impacted the cost and availability of imported water supplies, making groundwater a critical resource for the region.

Beginning in the 1990s, water quality in the Pleasant Valley Groundwater dramatically declined due to a high salt concentration. As conditions worsened and crop yields began to suffer, regional leaders recognized the need to protect the region's groundwater.

After decades of planning, collaboration, and creative-problem solving, the Camarillo Desalter Facility now transforms unusable groundwater into high-quality drinking water!





# Benefits

Using advanced water treatment technologies, the Camarillo Desalter Facility produces approximately 3,800 acre feet of water per year, accounting for the majority of the City's water supply.

This innovative solution offers vast benefits to our local watershed and economy.

## **Groundwater Protection**

Improves water quality in the local groundwater basin

## **Drought-Resilient**

Creates a new, drought-resilient water supply

## **Local Water Supply**

Reduces the City's reliance on costly imported water



# Step 1: Contact Basin

Salty or brackish water is pumped from the groundwater basin and held for pretreatment in the contact basin.

STEP 1

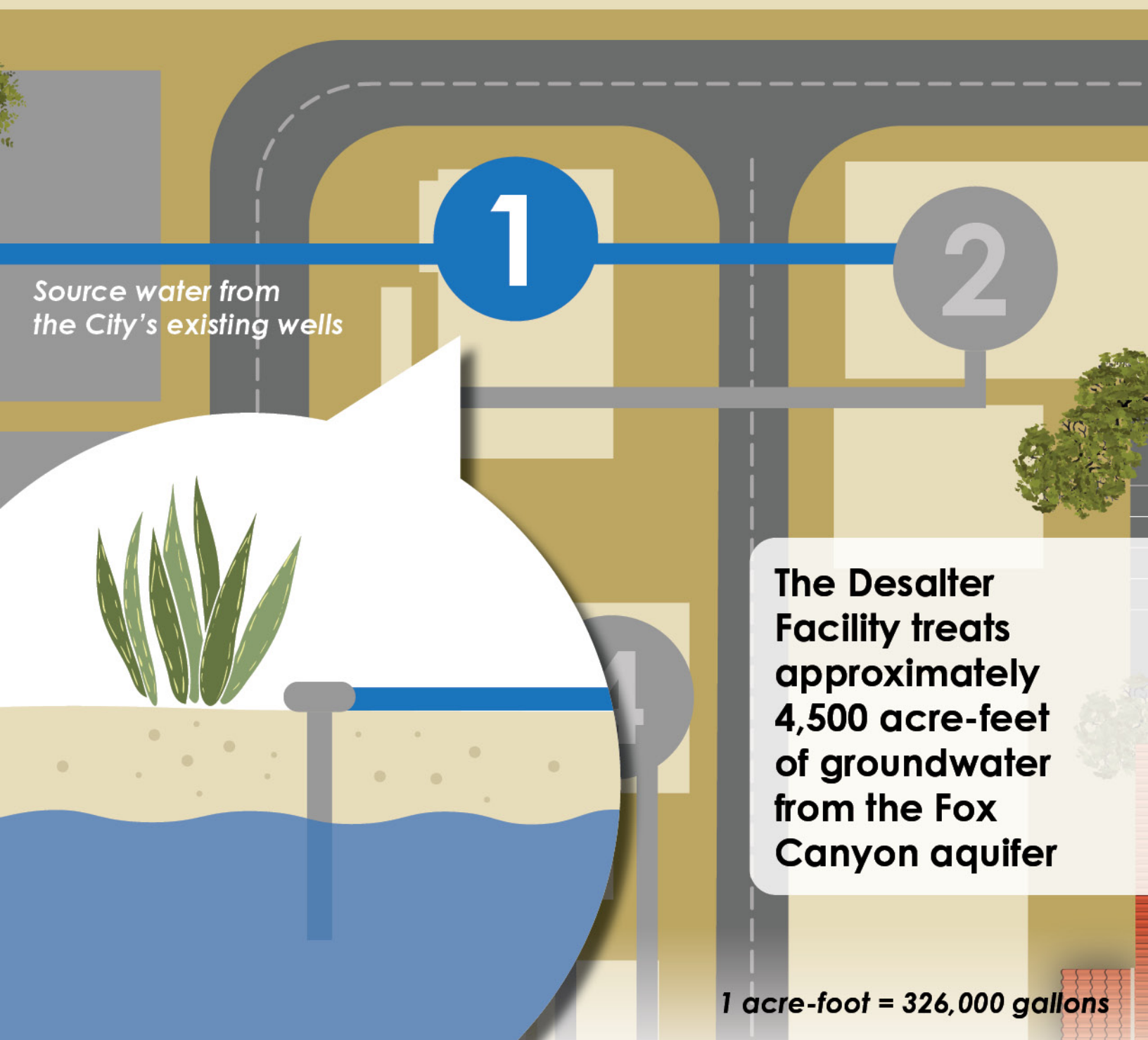
STEP 2

STEP 3

STEP 4

STEP 5

STEP 6



Source water from the City's existing wells

1

2

The Desalter Facility treats approximately 4,500 acre-feet of groundwater from the Fox Canyon aquifer

1 acre-foot = 326,000 gallons



# Step 2: Pressure Filters

Salty or brackish water undergoes pretreatment and filtration.

STEP 1

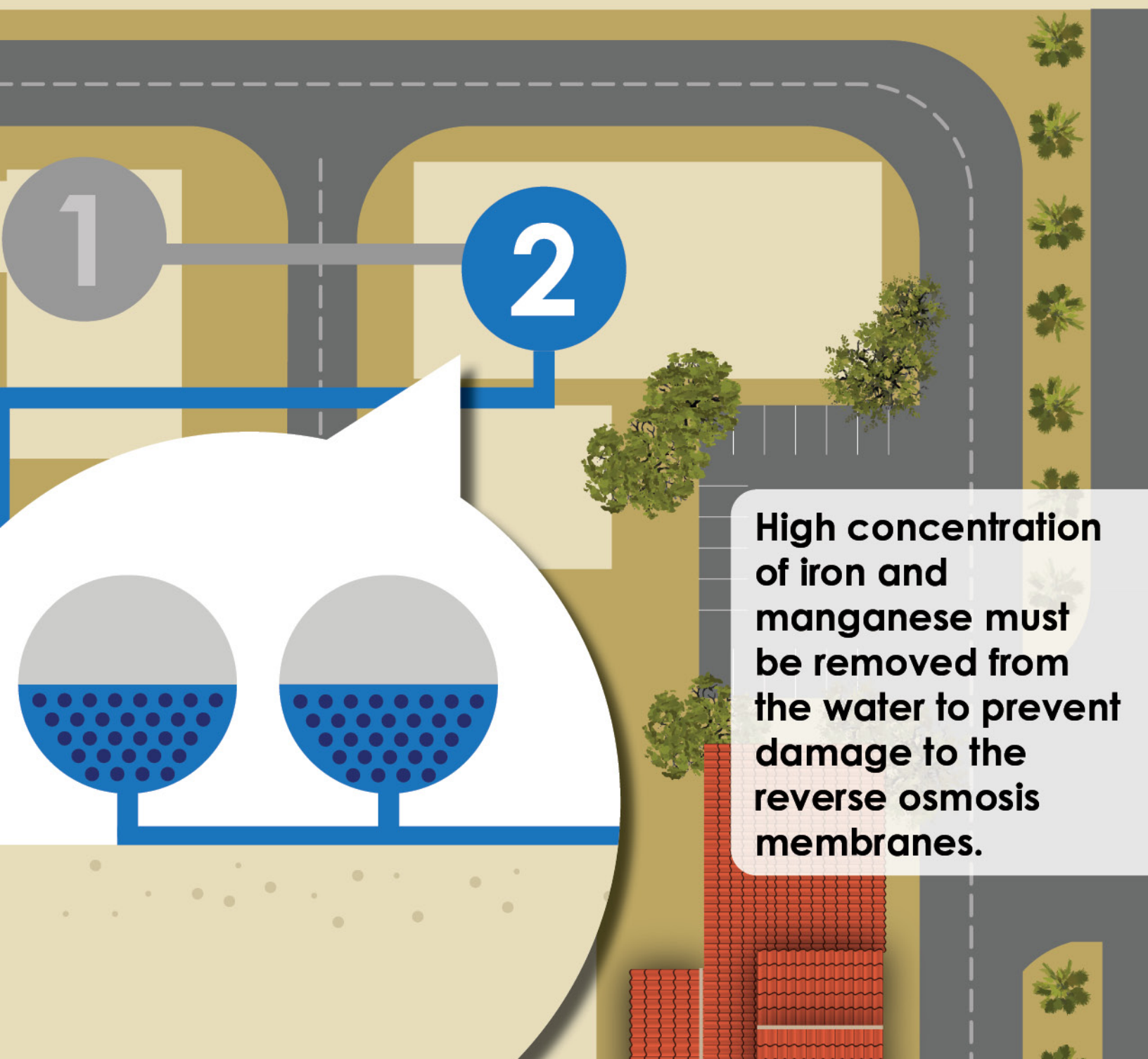
STEP 2

STEP 3

STEP 4

STEP 5

STEP 6



# Step 3: Reverse Osmosis (RO) Facility

RO membranes remove salt from the water and dispose of the waste brine through Calleguas Municipal Water District's Salinity Management Pipeline out to the Ocean.

STEP 1

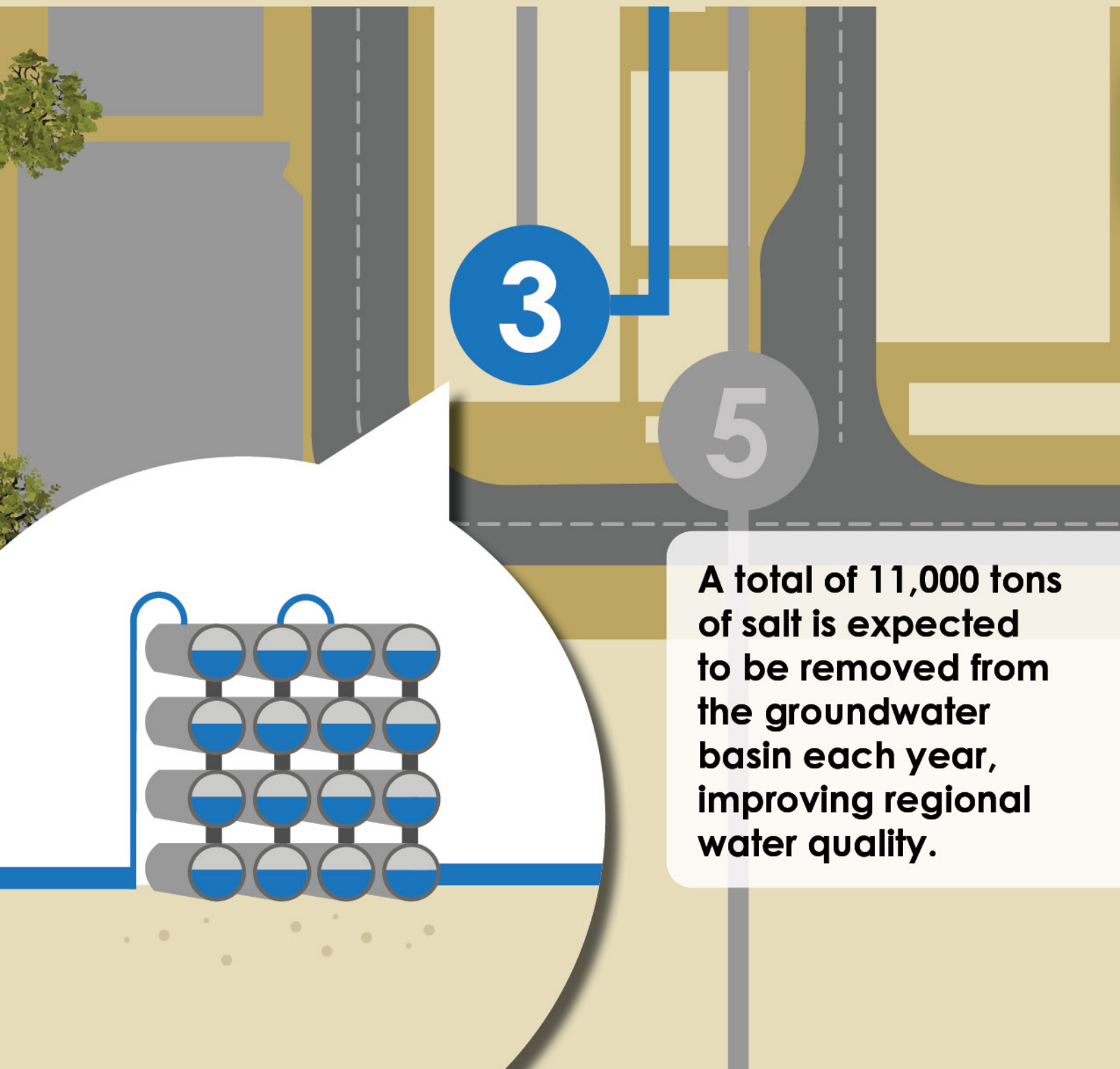
STEP 2

STEP 3

STEP 4

STEP 5

STEP 6



# Step 4: Post-treatment Stabilization

Treated water is disinfected before being pumped into the City's water system.

STEP 1

STEP 2

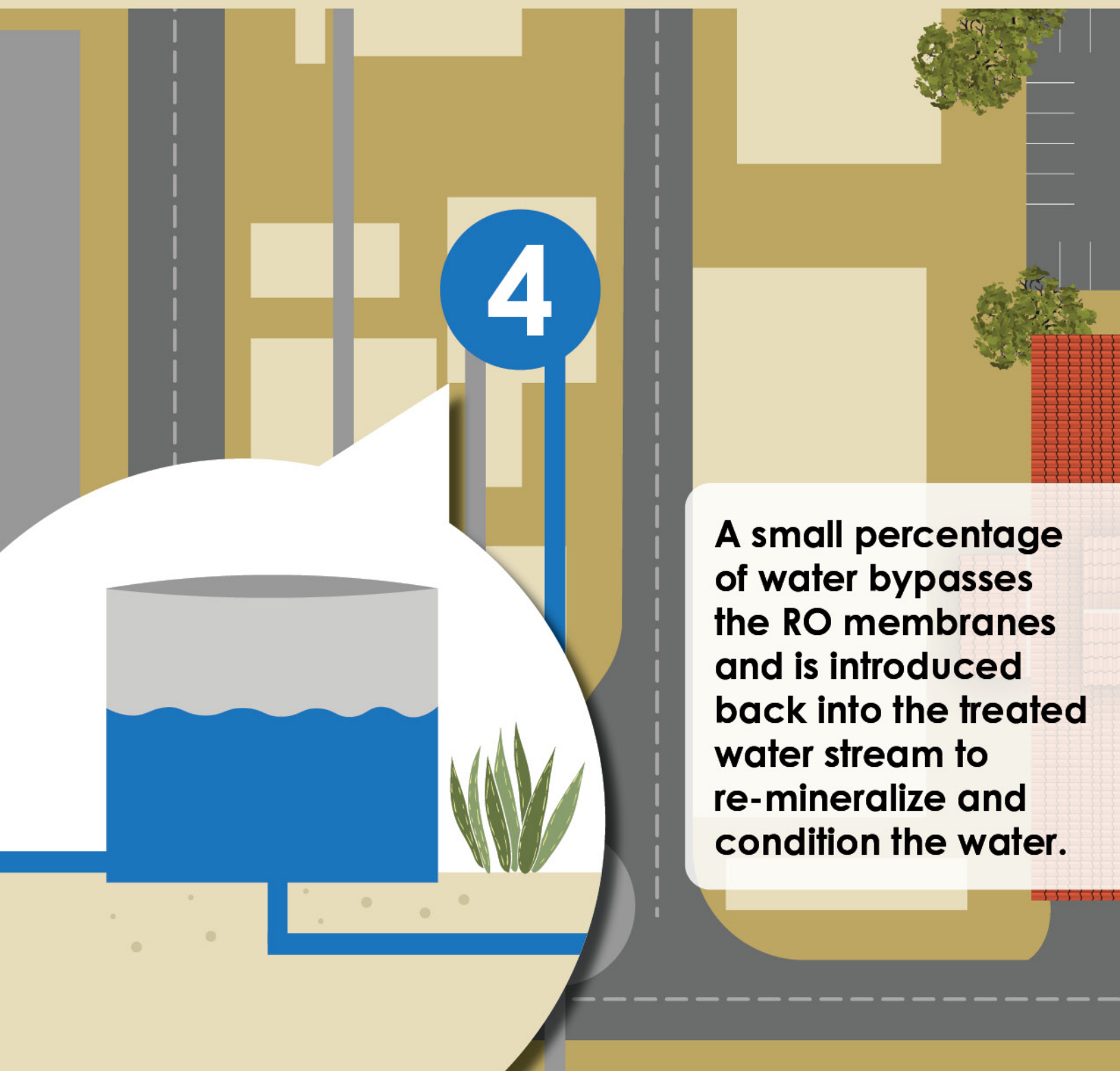
STEP 3

STEP 4

STEP 5

STEP 6

4



**A small percentage of water bypasses the RO membranes and is introduced back into the treated water stream to re-mineralize and condition the water.**



# Step 5: Treated Water Pump Station

High-quality drinking water is delivered to customers.

STEP 1

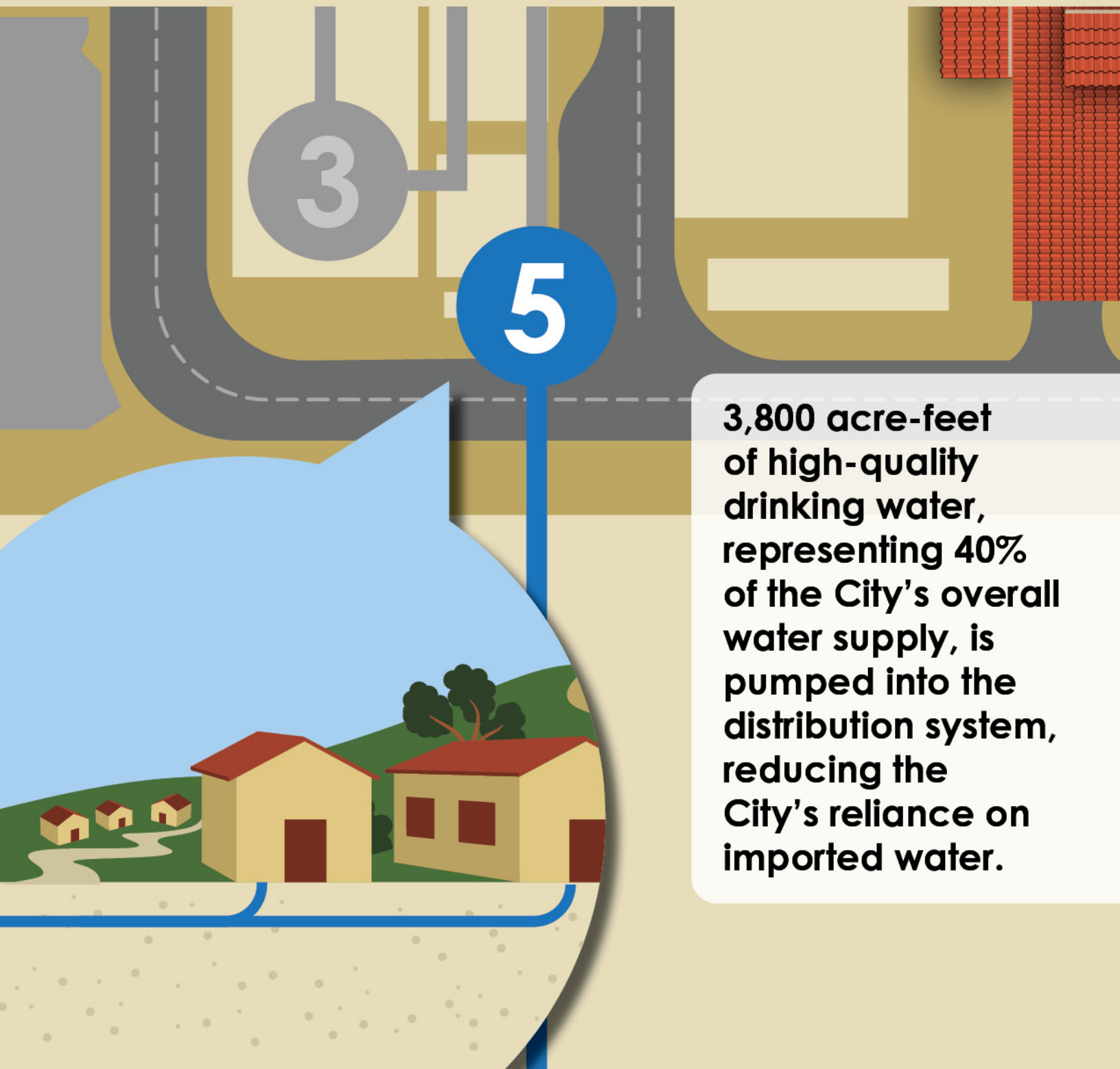
STEP 2

STEP 3

STEP 4

STEP 5

STEP 6



**3,800 acre-feet of high-quality drinking water, representing 40% of the City's overall water supply, is pumped into the distribution system, reducing the City's reliance on imported water.**



# Step 6: Admin, Operations, and Learning Center

The Camarillo Desalter Facility operates 24 hours a day, 7 days a week to provide safe and reliable drinking water to the community.

STEP 1

STEP 2

STEP 3

STEP 4

STEP 5

STEP 6

6

**The Desalter Facility includes a Learning Center to share the region's water story**





# CAMARILLO

## Learning Center at the Desalter

The Camarillo Desalter Facility includes a creative and inspiring space for the community to learn about environmental stewardship, water conservation, watershed protection, and more!



### Available for:

Students • Youth • Community Tours

## CONTACT

To schedule a tour of the Desalter Facility and Learning Center contact:

**Debra Gallegos**

[dgallegos@cityofcamarillo.org](mailto:dgallegos@cityofcamarillo.org)

805.383.5601

For information on the Camarillo Desalter Facility:



Scan the QR Code or visit our website at [cityofcamarillo.org/desalter](http://cityofcamarillo.org/desalter)

