

FOOD CROP IRRIGATION
CSAP



Castroville Seawater Intrusion Project

- Sends recycled water to 12,000 acres of farmland in northern Monterey County
- Recycled water is used to irrigate directly edible food crops like lettuce and strawberries
- On some properties, excess irrigation water drains into nearby ditches where it becomes source water and starts the process again

• Capacity:
29.6 million gallons per day



Tertiary Treatment

- After extraction, Cal Am delivers the water to the residents and businesses in its Monterey Bay service district
- Indoor water usage then becomes wastewater and starts the process again



Cal Am Extraction Wells

SOURCE WATERS

- 1 Wastewater**
- 2 Industrial Processing Water**

Primary and Secondary Wastewater Treatment

• Capacity:
29.6 million gallons per day

- 3 Crop Drainage Water**
- 4 Urban Stormwater Runoff**

START HERE

Secondary Effluent

Advanced Water Purification

• Capacity:
5 million gallons per day

Concentrate from Reverse Osmosis Treatment Step
• ~20% rejection rate



OCEAN DISCHARGE

- Outfall pipe runs from the Regional Treatment Plant to the coast then extends two miles into the Monterey Bay at 100 ft below the water's surface
- Water quality meets or exceeds State standards and the California Ocean Plan

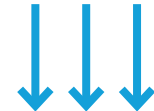
- ~10 mile pipeline from the Regional Treatment Plant to the Seaside Groundwater Basin
- Lead Partner: Marina Coast Water District (MCWD)
- Turnouts included for future MCWD landscape irrigation customers

Conveyance Pipeline



Injection Wells

~9-12 Months



GROUNDWATER REPLENISHMENT

Seaside Groundwater Basin

- Injection wells are located near General Jim Moore Blvd and Coe Ave on former Fort Ord land
- Travel time between injection and extraction wells is ~9-12 months



ONE WATER PROCESS