



Pure Water Monterey

A Groundwater Replenishment Project

**Welcome to the
Future of Water**




What is Pure Water Monterey?

Pure Water Monterey is a

- **Multi-Benefit,**
- **Multi-Region,**
- **Multi-Agency**

project that will provide pure drinking water for the Monterey Peninsula and additional irrigation water for the Salinas Valley.

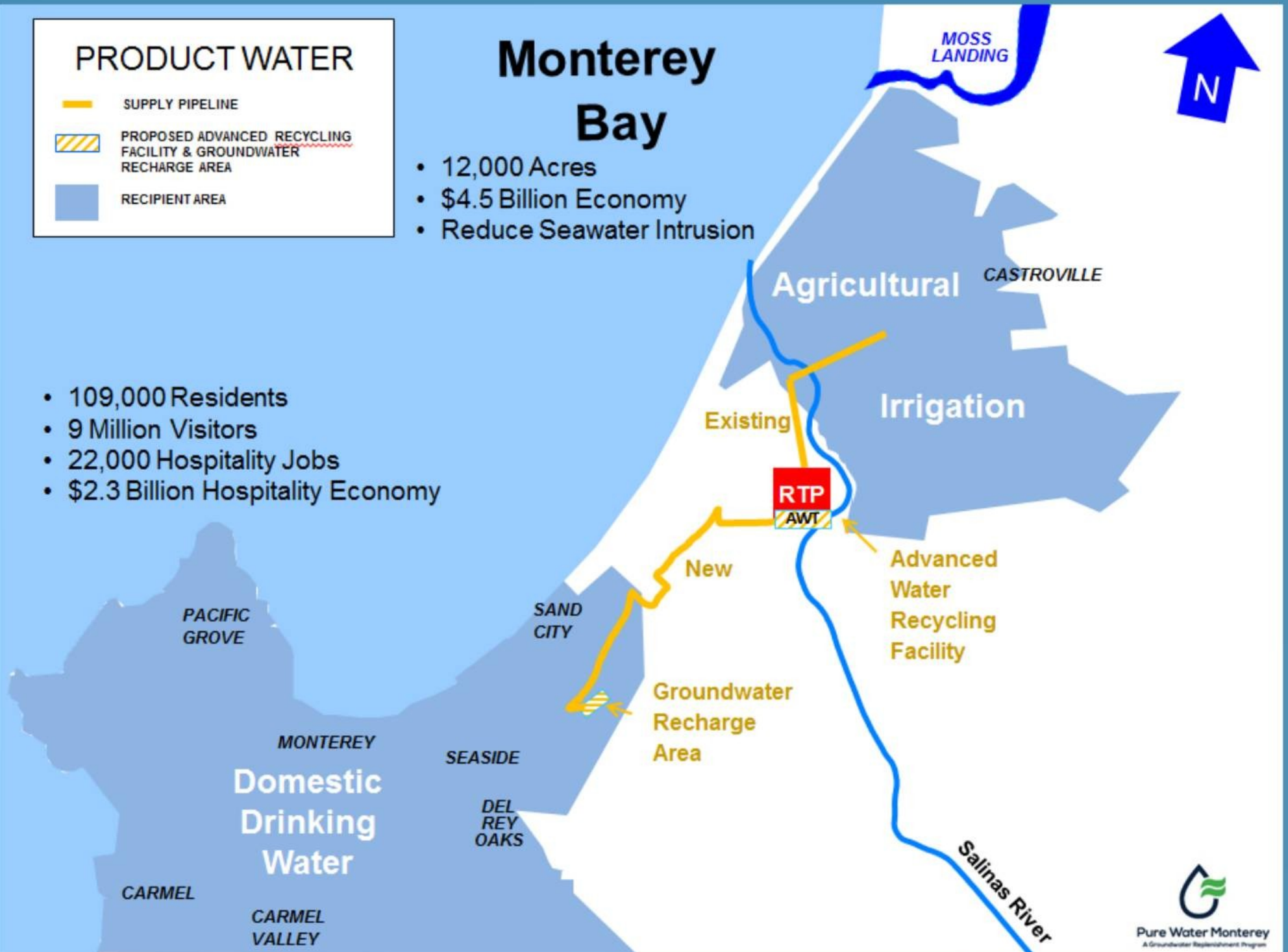
PRODUCT WATER

-  SUPPLY PIPELINE
-  PROPOSED ADVANCED RECYCLING FACILITY & GROUNDWATER RECHARGE AREA
-  RECIPIENT AREA

Monterey Bay

- 12,000 Acres
- \$4.5 Billion Economy
- Reduce Seawater Intrusion

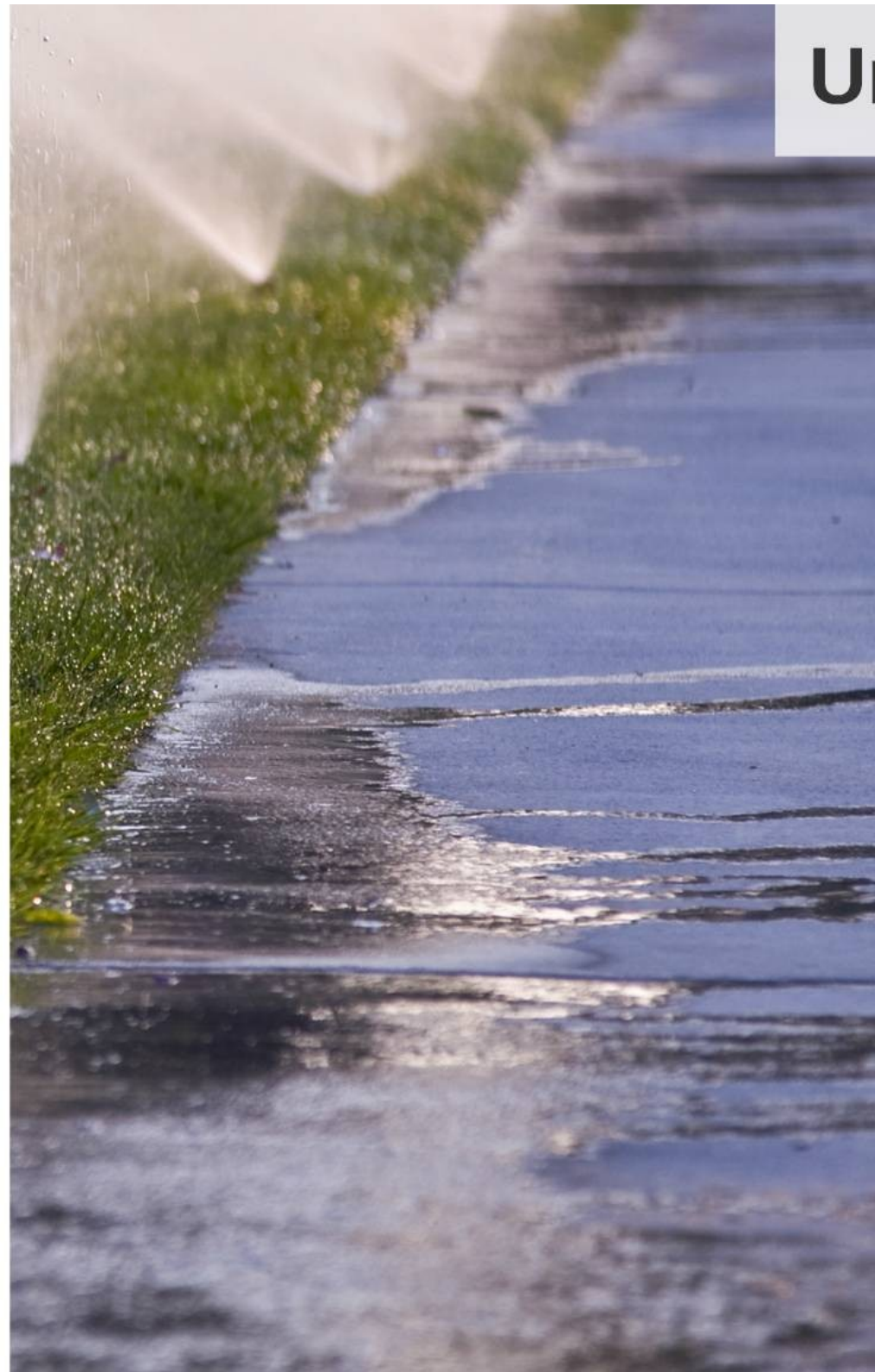
- 109,000 Residents
- 9 Million Visitors
- 22,000 Hospitality Jobs
- \$2.3 Billion Hospitality Economy



Source Waters




Urban Stormwater Runoff





Salinas Agricultural Wash Water



Salinas Ponds

Secondary Treated Wastewater



Agricultural Drainage Water



One Regional Treatment Plant

Creating Three Kinds of Water



Non-Potable Reuse
Agriculture Irrigation



Regulated Ocean Discharge
Predominantly Wintertime



Indirect Potable Reuse
Groundwater Replenishment



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Regulated Ocean Discharge

Predominantly Wintertime



Non-Potable Reuse

Agriculture Irrigation



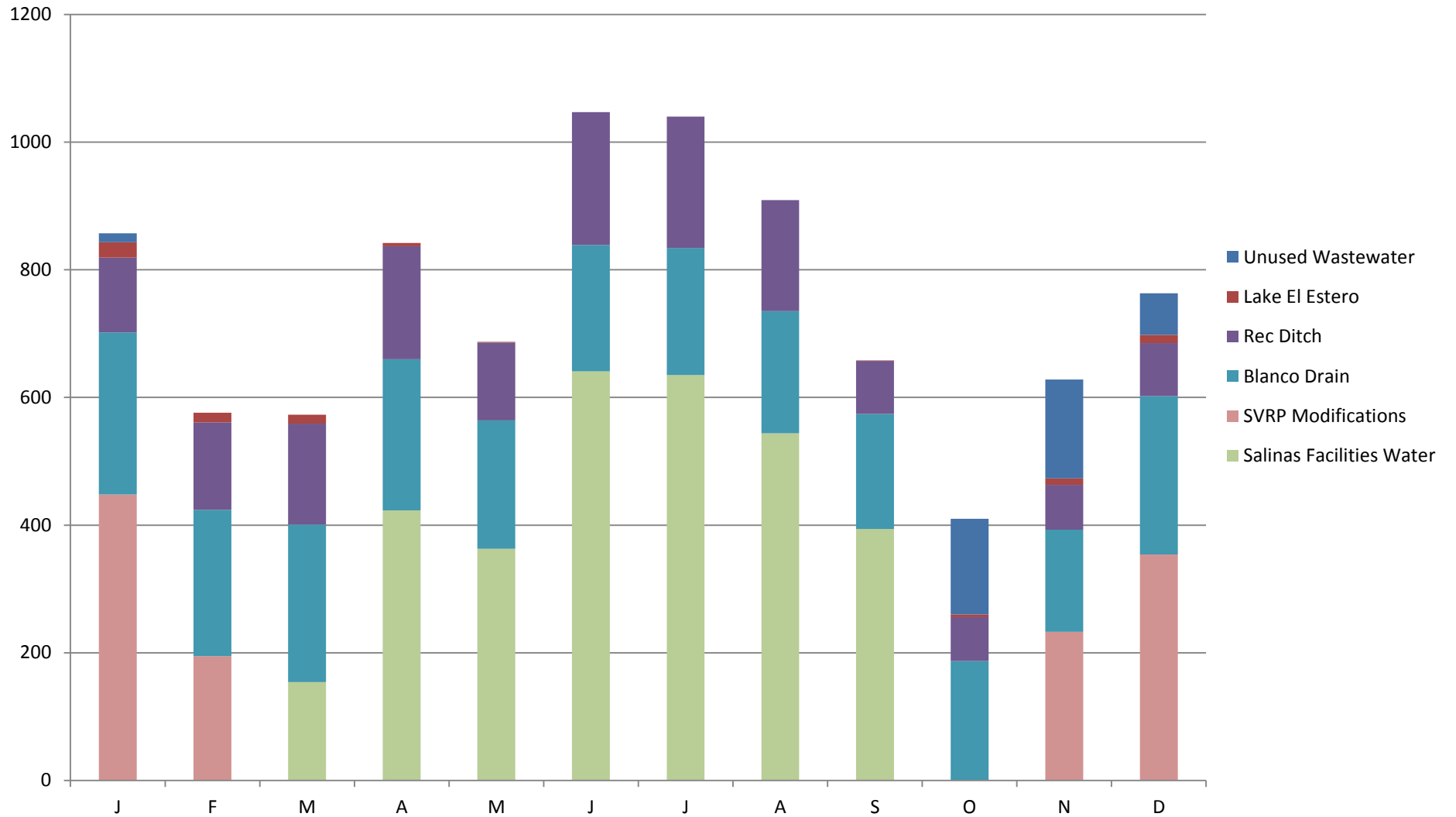
Indirect Potable Reuse

Groundwater Replenishment

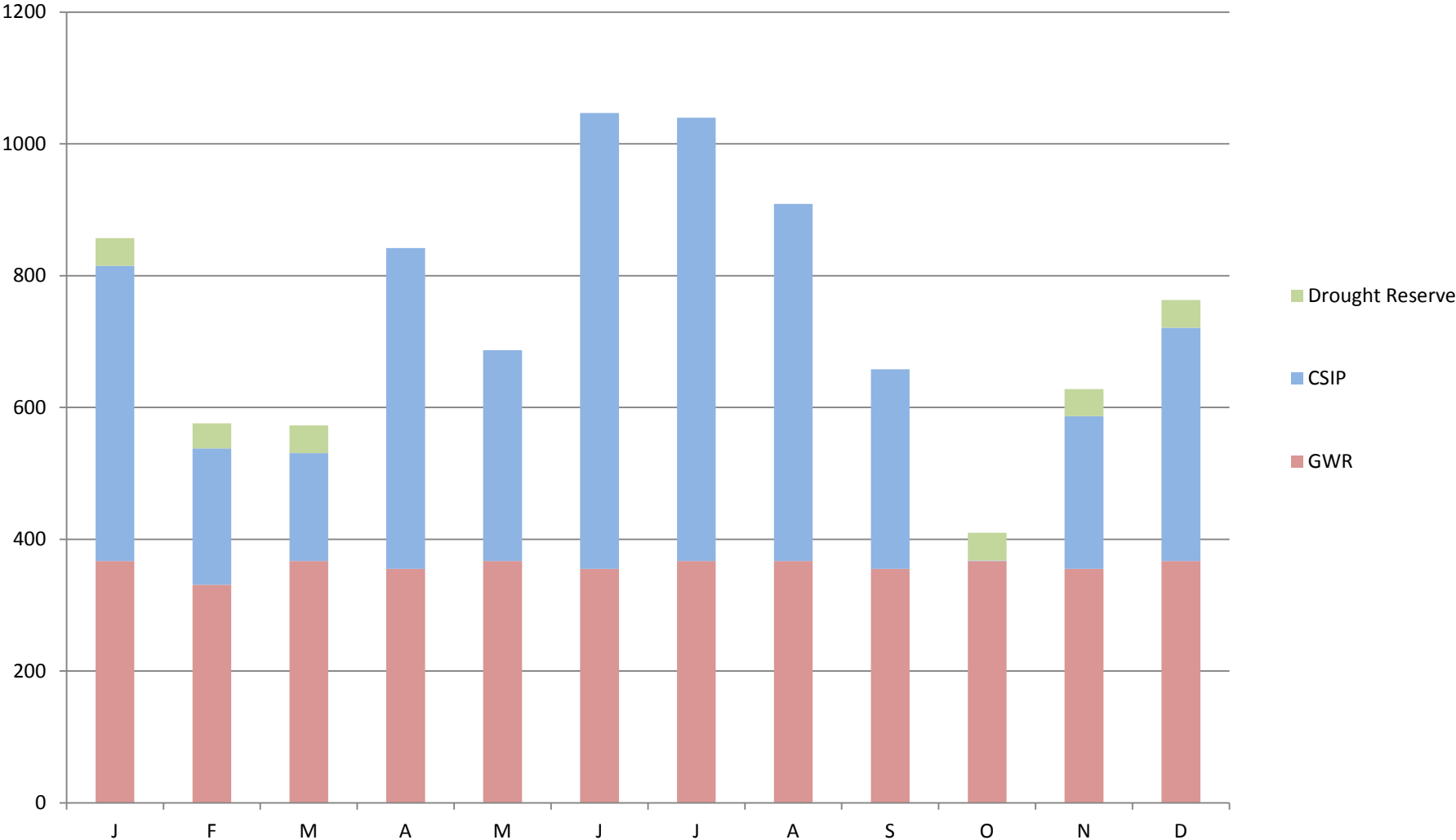


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Sources of Water



Uses of Water



How Does It Work?

Proposed Water Purification Process

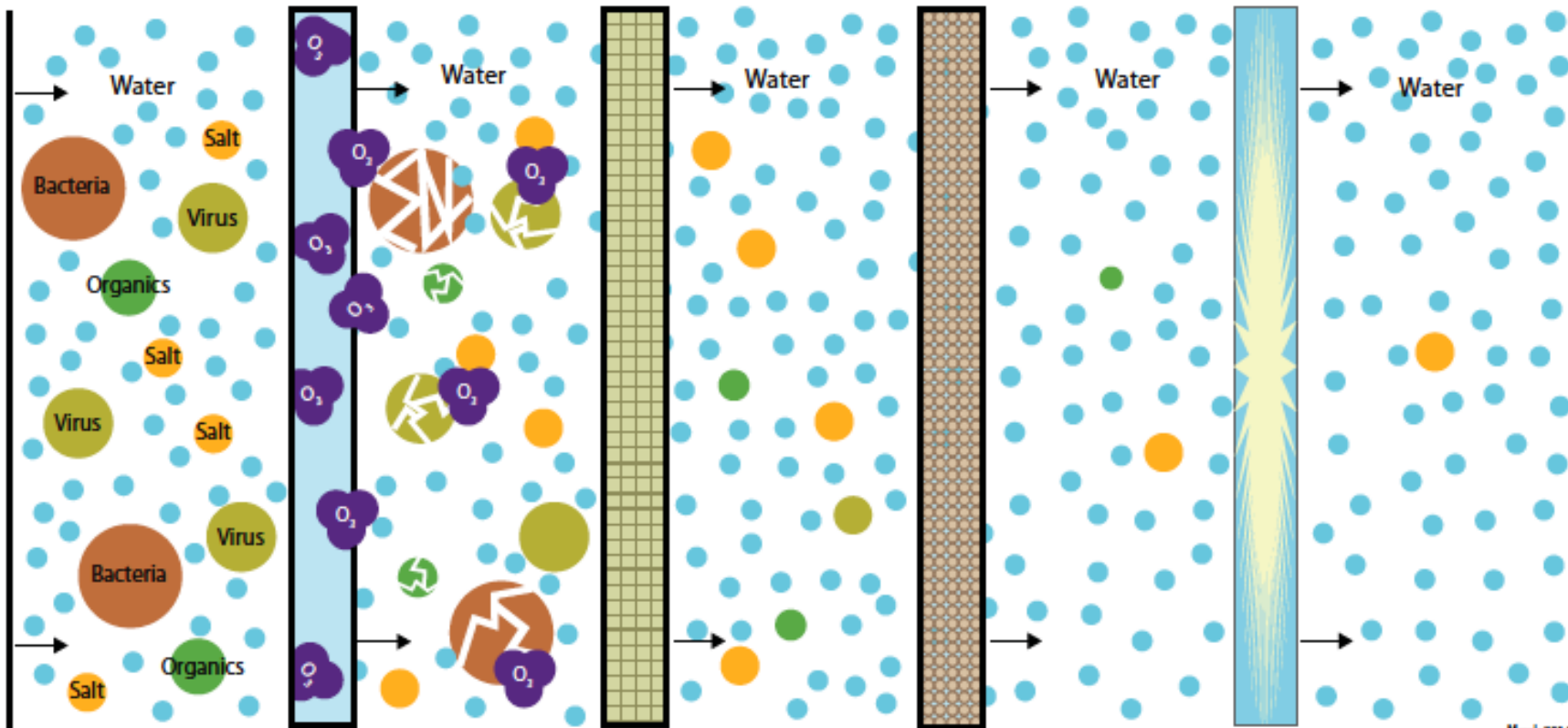
Water Source(s)
Includes secondary-treated wastewater and other water sources (to be determined).

Ozone (O_3) Pretreatment
When ozone, a powerful disinfectant, is added to the water, it destroys bacteria and other pathogens.

Membrane Filtration
Water is pumped through tiny straw like tubes that filter out contaminants from the water.

Reverse Osmosis
Water is forced through membranes under high pressure to remove nearly all remaining impurities.

UV Disinfection & Hydrogen Peroxide
Hydrogen peroxide is added and reacts with exposure to ultraviolet light, breaking down trace compounds and leaving pure water.





Secondary Effluent

Membrane Filtrate

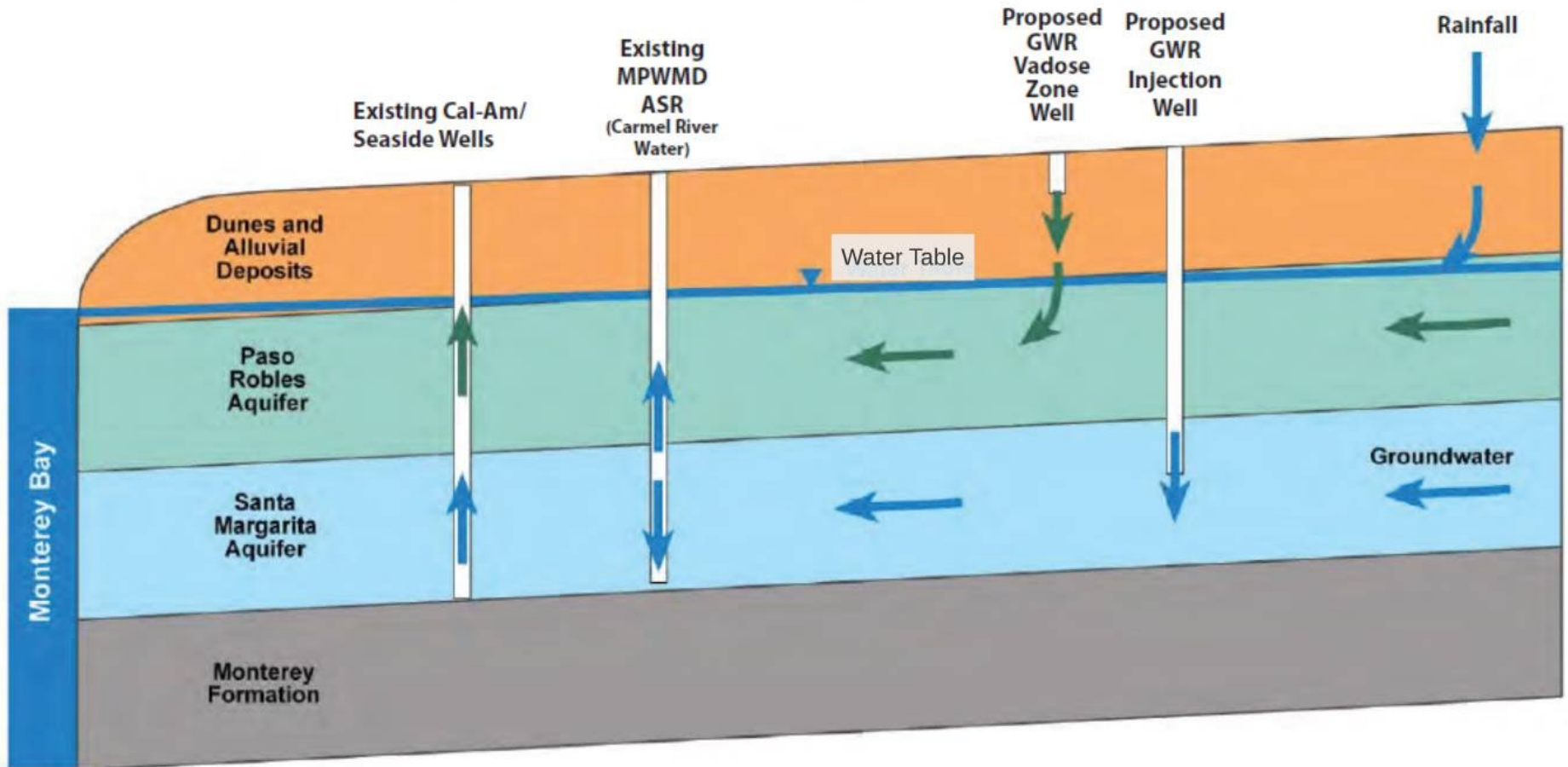
AOP Effluent

Ozonated Effluent

RO Permeate

Stabilized Product

Seaside Groundwater Basin



Replacement Water Supply



Reduced Footprint

Multi-Benefit



Model of Cooperation

