Western City Water Supply: Status & Plans

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USCM Mayors’ Water Council
October 13, 2022
Regulated Operations
- 52,500 miles of pipe
- 560 water treatment plants
- 160 wastewater treatment plants
- 1,100 wells and 76 dams

Military Services Group
- Regulated-like
- Serves 18 military installations
  - 12 Army
  - 5 Air Force
  - 1 Navy

3.4M Total Customer Connections
- Pennsylvania: 22%
- New Jersey: 11%
- Missouri: 6%
- Illinois: 10%
- Indiana: 11%
- California: 14%
- West Virginia: 5%
- Other: 5%
FACTS AT GLANCE*:

COMMUNITIES AND CUSTOMERS SERVED:
Approximately 725,000 people in more than 50 communities in service areas throughout northern, southern and central parts of California (2021)

EMPLOYEES: 325 (2022)

AMOUNT INVESTED ANNUALLY: Estimated $71 million

WATER STORAGE FACILITIES: 106
DISTRIBUTION STORAGE CAPACITY: 94 MGD
FIRE HYDRANTS: 15,787
ACTIVE SERVICE CONNECTIONS: 186,165
FEET OF PIPELINE: 11,890,471
AVERAGE ANNUAL WATER SALES: $269 million (2021)
WATER QUALITY: Across California, we conducted approximately 650 different tests on more than 25,000 water samples for nearly 3,000 constituents last year. (2021)
Colorado River Basin - Before and After Drought Impacts
Lake Shasta, California – Before and After Drought Impacts
Proactively Addressing These Challenges - Capital Investment

2022-2031 Average Regulated Capital Expenditures by Purpose

- Infrastructure Renewal
- Resiliency
- Water Quality
- Operational Efficiency, Technology & Innovation
- System Expansion
- Other

68-70%

Capital Plan ($ in billions)

- 2022
  - Infrastructure Renewal: $0.5
  - Resiliency: $2.0
  - Water Quality: $25 - $28
  - Operational Efficiency, Technology & Innovation: $1.5 - $2.0
  - System Expansion: $2.5
  - Other: $3 - $4

- 2022 – 2026
  - Infrastructure Renewal: $11.5 - $12.0
  - Resiliency: $1.5 - $2.0
  - Water Quality: $28 - $32
  - Operational Efficiency, Technology & Innovation: $1.5 - $2.0
  - System Expansion: $13 - $14
  - Other: $3 - $4

- 2022 – 2031
  - Infrastructure Renewal: $28 - $32
  - Resiliency: $3 - $4
  - Water Quality: $28 - $32
  - Operational Efficiency, Technology & Innovation: $1.5 - $2.0
  - System Expansion: $13 - $14
  - Other: $3 - $4
US Infrastructure Investment Gap - Water and Wastewater

American Society of Civil Engineers
Grades U.S. Infrastructure

Wastewater Report Card
2021 Grade D

Drinking Water Report Card
2021 Grade C-

Not American Water pipes

Source: ASCE’s 2021 Infrastructure Report Card

Critical need for multi-decade investment

$3,400 each year
Cost for each family from lack of infrastructure investment from 2016 to 2025

System Investment Needs
Customer Affordability
Balancing

$136 billion
2019 annual investment gap:
$1 billion
2019-2039 cumulative investment gap: $2.2 trillion


Water infrastructure capital need Water infrastructure capital spending

Customer Affordability
System Investment Needs
Balancing

Critical need for multi-decade investment
Water Supply Constraints

• **Carmel River** — State ordered withdrawals reduced by more than 50%

• **Seaside Basin** — Court-ordered withdrawal reduction by more than 50%

• **Drought** — Currently in multi-year emergency drought with minimal rain

*The required cutbacks to existing supplies cannot be met without replacement water sources*
Monterey Peninsula Water Supply Project – Path Forward

Climate Resilience
• Droughtproof ability to preserve Carmel River habitat

Environmental Considerations
• Carbon free energy
• Slant wells
• Existing outfall

Affordability
• Affordable housing
• Customer Assistance, Crisis Assistance and LIHWAP

Regional Approach
• Return water to Castroville/CSIP

Status and Timeline
• CCC hearing schedule for November
• Can be in service within next 5 years

FUTURE SOURCES
- ePWM
- ASR
- Desal
- ePDM
Thank you