RECHARGE FRESNO

Securing Our Water Future

Recycled Water Planning and Projects Update

Department of Public Utilities

City Council Meeting – August 16, 2018

Policy Decisions Impacting Water Sustainability

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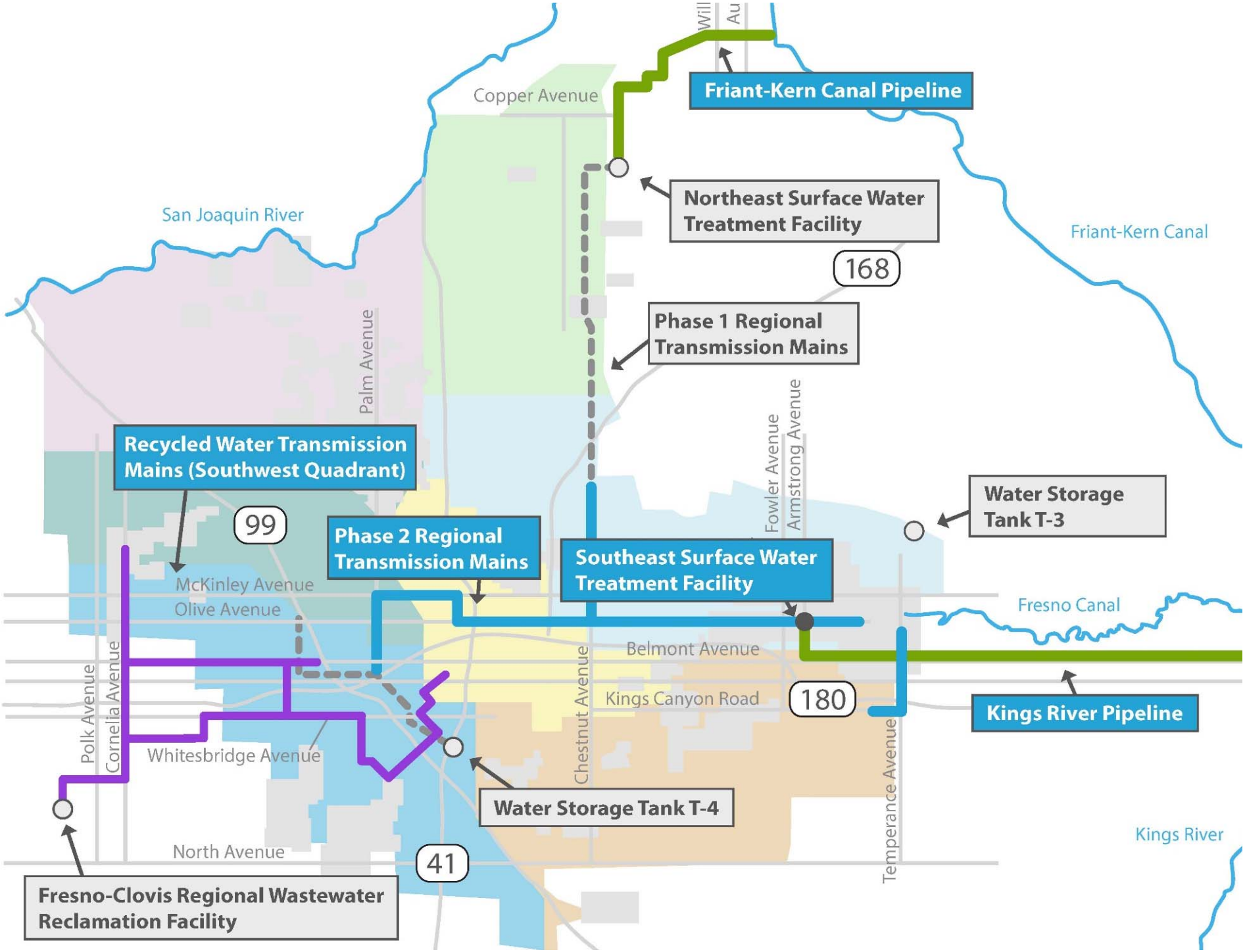
1970 NEPA	1970 CEQA	1973 Endangered Species Act	1980s Public Trust Doctrine	2014 & 2018 SGMA & Water Budgets

DPU Major Projects



Recycled Water Facilities and Projects

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PRODUCTION

- Fresno-Clovis RWRF TTDF (5 mgd)
- North Fresno WRF (0.7 mgd)

DISTRIBUTION

- 10-54 inch diameter pipelines
- Conveys recycled water from treatment plants to users

Recycled Water Users

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Landscape Irrigation:

- Parks
- Schools
- Freeways
- Agriculture
- Golf courses
- Cemeteries
- Residential

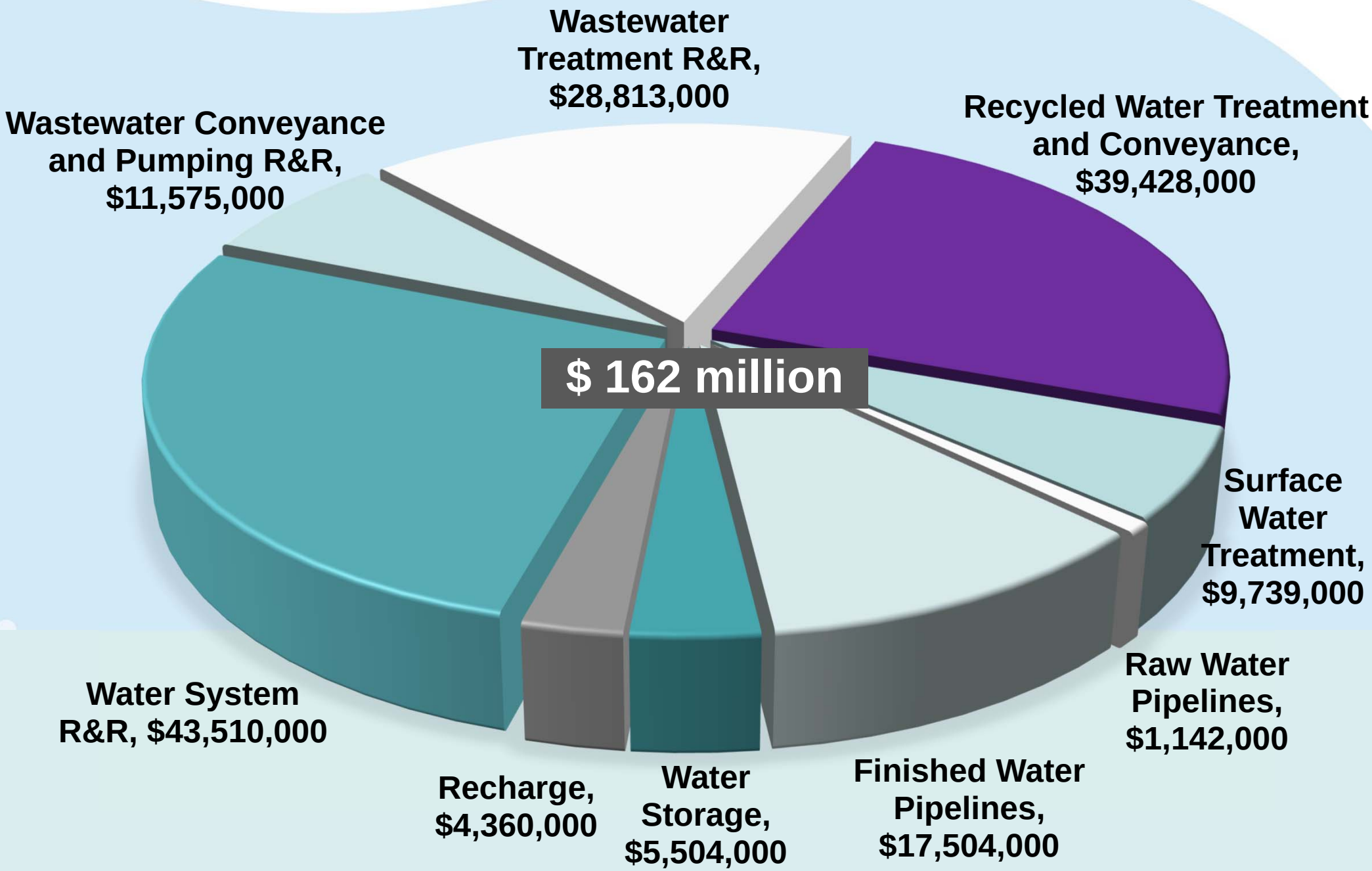
Commercial and Industrial use:

- Cooling
- Washdown
- Process water supply

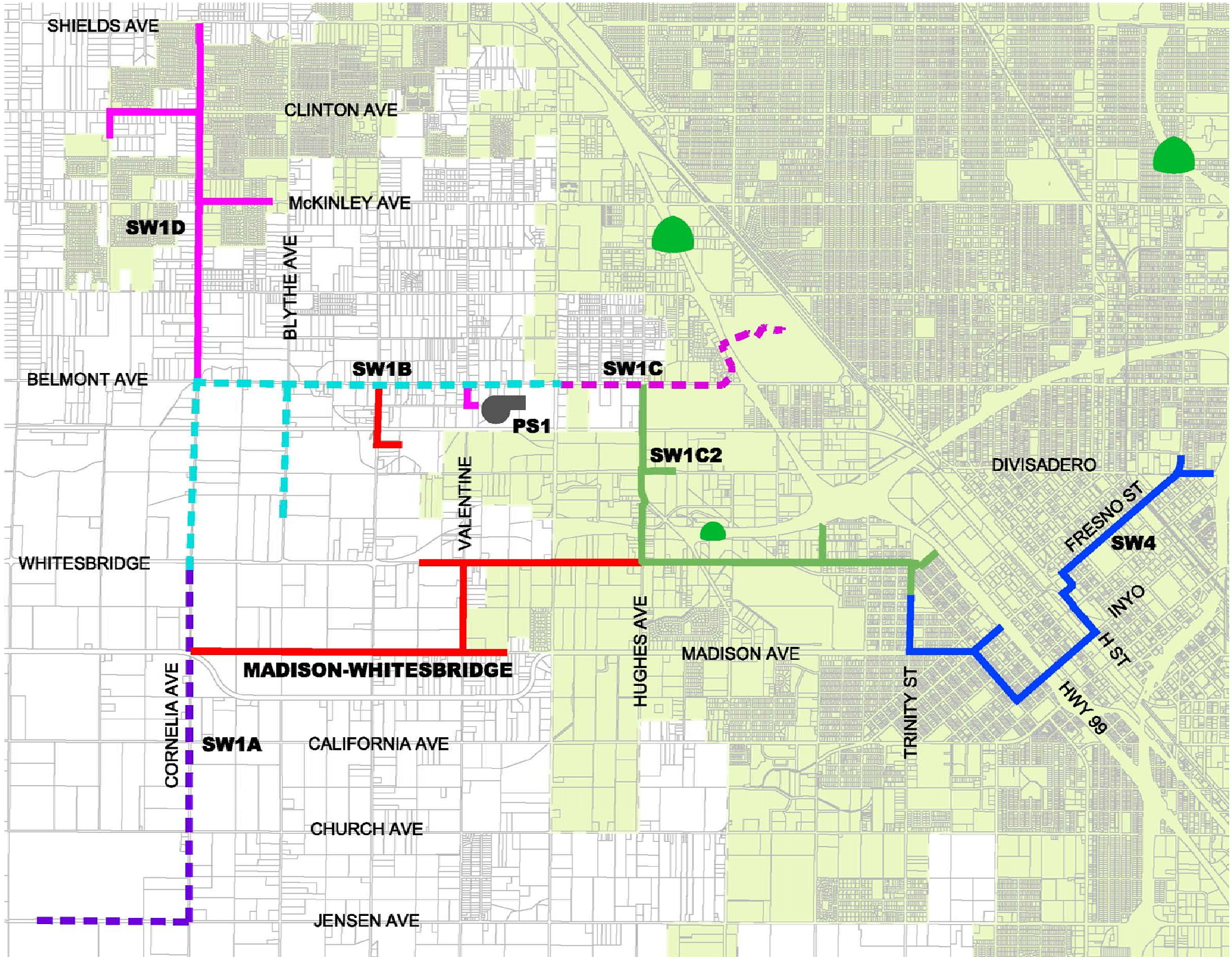
Groundwater Recharge

Offset of Other Potable Water Uses

FY 2019 DPU CIP Planned Expenditures



Completed and Ongoing Recycled Water Projects in Southwest Fresno



Planning and Implementation Timeline

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Completed construction of North Fresno WRF

Completed Metropolitan Water Resources Management Plan

TTDF and SW RWTM Construction

Delivered recycled water from TTDF to first customer

Implement future recycled water projects

'10 '11 '12 '13 '14 '15 '16 '17 '18 '19 '20 '21 '22 '23 '24

Completed initial Recycled Water Master Plan

TTDF and SW RWTM Design

Ongoing feasibility planning for expansion of recycled water treatment and distribution

Prepare comprehensive Recycled Water Master Plan

Confirm future recycled water projects

Planning for future Recycled Water Projects

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ONGOING

- Northeast / Northwest user analysis and distribution system planning
- North WRF recycled water utilization
- RWRF Tertiary Treatment Facility expansion
- Satellite tertiary treatment facilities
- Continued user identification and demand analysis

PLANNED

- Preparation of Recycled Water Master Plan
- Confirmation of strategy and projects

Planning for future Recycled Water Projects

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MASTER PLANNING

- Integrated water resource mgmt
- Demand and supply analysis
- Regulatory analysis
- Market trends and opportunities
- Benefits to community
- Project alternatives analysis
- Cost feasibility and optimization
- Hydraulic modelling to minimize cost
- Funding availability
- Decisions for a phased / prioritized CIP

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Increasing use of recycled water for landscape irrigation and other non-potable uses is an important component of the City's water supply plan, enabling environmental stewardship through sustainable use of all water resources.

www.RechargeFresno.com **(844) FRESNOH2O**