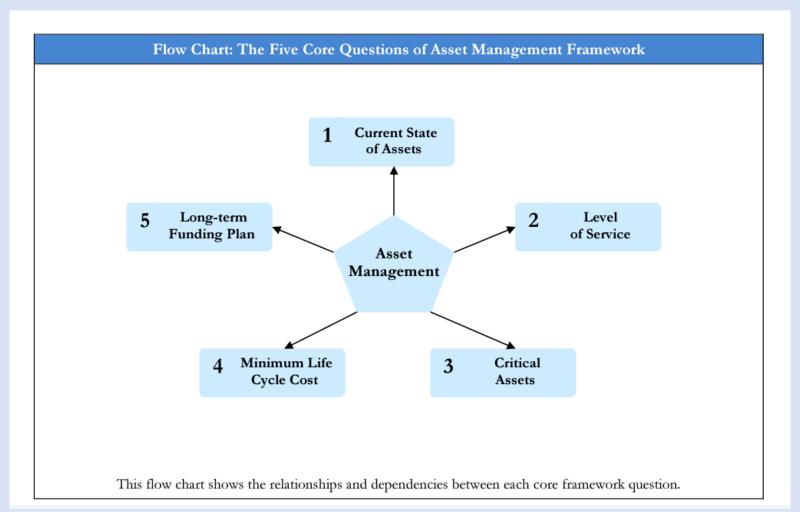
## Green Asset Management: Long-term Funding Plan

David Reazin EPA Region 6

#### Green Asset Management Framework

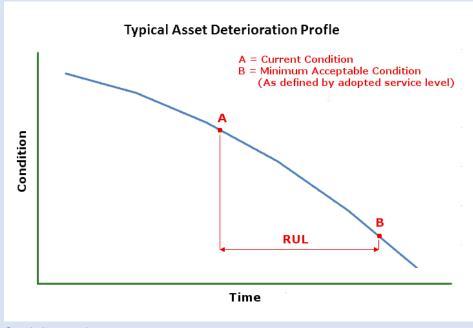


#### Useful Life

An estimate of how long you can reasonably expect to use an asset for the benefit of your organization.

#### Useful Life

An estimate of how long you can reasonably expect to use an asset for the benefit of your organization.



Google Images site.

## Gray Infrastructure Useful Life

Components	Years
Wells and Springs	25
Intake Structures	35
Pumping Equipment	10
Disinfection Equipment	5
Hydropneumatic Tanks	10
Concrete and metal storage tanks	30
Transmission structures (pipes)	35
Valves	35

www.watertrust.org

#### Green Infrastructure Useful Life

(Disclaimer: Estimates for discussion purposes only to show variables for this presentation)

Best Management Practice	<u>Years</u>	Best Management Practice	<u>Years</u>
Rain Gardens	25 – 50	Green Streets	25 – 30
Vegetated Swales	25 – 30	Green Corridors / Greenbelts	50 – 100
Detention / Retention Basins	40 – 50	Stormwater Parks	100 +
Green Roofs	30 – 50	Wetland Restoration and Protect	ction 40 - 50
Rainwater Harvesting	20 – 30	Floodplain Restoration	40 – 50
Permeable Pavement	20 – 40	Riparian Buffer Strips	25 – 40
Tree Canopy	50 +		

• Environmental:



Google Images site.

- Environmental:
  - hydrology
  - erosion and sedimentation
  - intensity of storm events
  - vegetation coverage
  - gray infrastructure upstream/downstream
  - urban development and stormwater runoff
  - irrigation
  - invasive species
  - drought

#### Administrative:



Google Images site.

- Administrative:
  - Education / training
  - frequency and thoroughness of inspections
  - funding for corrective actions

## Capital Improvement Plan



Google Images site.

## Capital Improvement Plan

A community planning and fiscal management tool:

- to coordinate the location, timing and financing of capital improvements over a multi-year period usually 4-6 years.
- anticipate expenses of large capital costs for replacement projects

## Capital Improvement Plan for GI Projects

(Disclaimer: Estimates for discussion purposes only to show variables for this presentation)

Year	Projecct 1	Project 2	Project 3	Project 4	Project 5	Project 6	Annual Cost
2023		\$1,000			\$1,000		\$2,000
2024	\$4,000		\$5,000			\$2,000	\$11,000
2025				\$2,000			\$2,000
2026	\$1,200	\$6,000			\$500		\$7,700
2027						\$7,000	\$7,000
2028	\$6,000		\$6,000				\$12,000
2029		\$8,000		\$120,000			\$128,000
2030					\$4,500		\$4,500
2031	\$1,500					\$1,000	\$2,500
2032		\$2,000		\$1,000			\$3,000
2033			\$9,000				\$9,000
2034	\$75,000				\$80,000		\$155,000
2035		\$7,000		\$2,000		\$3,000	\$12,000
2036					\$4,000		\$4,000
2037	\$2,500			\$1,000		\$60,000	\$63,500
2038		3000			\$2,000		\$5,000
2039			\$6,000				\$6,000
2040	\$4,000	\$3,000		\$3,000		\$1,000	\$11,000

Red – Replacement Cost

## **Funding Considerations**

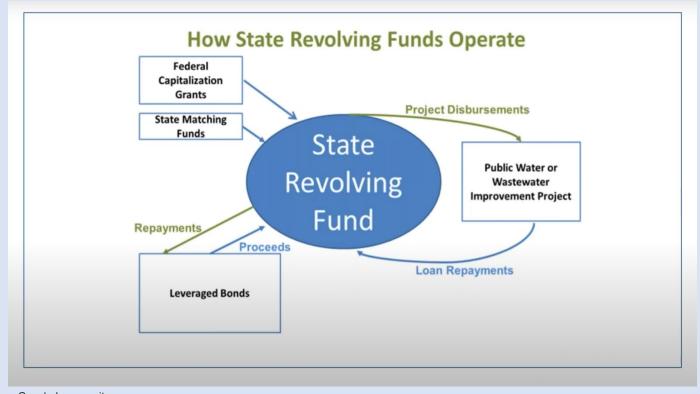


Google Images site.

### **Primary Sources of Funding**

- Stormwater utility fees
- Departmental Budgets
- Capital Improvement Bonds
- Clean Water State Revolving Fund (SRF)
- Other

## State Revolving Fund (SRF)



Google Images site.

#### SRF - Green Project Reserve

10% Clean Water State Revolving Fund Requirement:

- Green Infrastructure
- Water Efficiency
- Energy Efficiency
- Environmentally Innovative

## Eligible Projects for Funding

- green streets
- permeable pavement
- Bioretention
- trees
- green roofs
- constructed wetlands
- capital equipment to maintain green infrastructure projects
- street tree or urban forestry programs

## Eligible Projects for Funding

- stormwater harvesting and reuse projects
- downspout disconnection
- Wet weather discharges
- permanent riparian buffers or soft bioengineered stream banks.
- management of wetlands, flood attenuation).
- preserve or restore site hydrologic processes through sustainable landscaping and site design.
- purchase of land or easements on land that has a direct benefit to water quality, such as riparian and wetland protection or restoration.

## Infrastructure Investment and Jobs Act (IIJA) (Public Law 117-58 - Bipartisan Infrastructure Law

- \$8.3 billion nationwide for reclamation water infrastructure projects over five years to advance drought resilience and expand access to clean water for families, farmers and wildlife.
- 49% loan forgiveness to projects assisting underserved / disadvantaged communities.

## Texas Water Development Board

## 3. What types of projects can I use the loan funding for?

Financial assistance from the CWSRF can be utilized for:

- wastewater treatment facilities
- collection systems
- wastewater recycling and reuse improvements
- A stormwater mitigation
- A nonpoint source pollution control
- estuary management project
- eligible green project reserve components
- A disaster recovery

#### Texas Water Development Board

- Low interest loans and principal forgiveness from the Texas Water Development Board
- Grant Award funding:
  - SFY 23 Capitalization Base Program \$52,885,000
  - SFY 23 Bipartisan Infrastructure Law Program \$81,347,000
  - Use these grants and other funds to provide project funding goal of \$408 Million, including \$53 Million in principal forgiveness and \$355 Million in low interest rate loans.

# Texas Water Development Board – Asset Management Tools

- Strongly supports Asset Management.
- TWDB will provide \$100,000 in 0% loan funds to prepare asset management tools
- A small system may receive up to \$500,000 at 0% for a portion of the total TWDB funding for a project if it has already implemented substantially all of the tools listed in TWDB's Asset Management Program for Small Systems (AMPSS) initiative
- TWDB provides additional ranking points to projects if the entity has an asset management plan
- TWDB continues with its Asset Management Program for Small Systems (AMPSS) initiative. Recently awarded 20 contracts of \$100,000 each to provide 20 systems with asset management plans & associated tools

#### Texas Water Development Board

Mark Wyatt

Director, Program Administration and Reporting

**Texas Water Development Board** 

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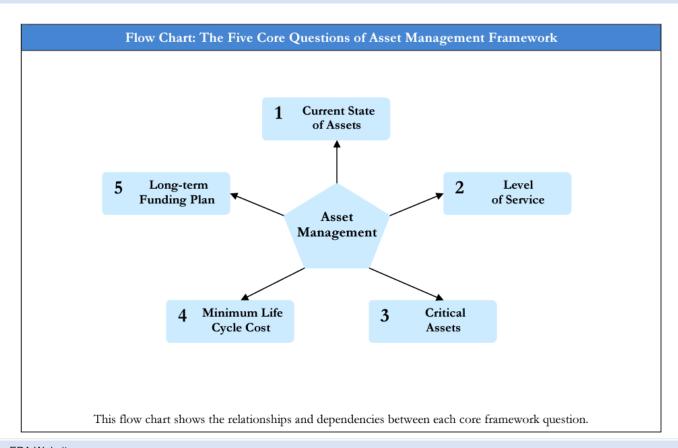
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## Summary

**Useful Life Considerations** 

Capital Improvement Planning

Sources of Funding



**EPA Website** 



Google Images site.

**David Reazin** 

**Project Officer** 

Texas Clean Water State Revolving Fund

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