

Missouri Department of

# Natural Resources

## Funding for Water and Wastewater Infrastructure



**They just didn't grow there.....**

**Infrastructure is boring – until you need it and  
it does not work**



## KC set water main break record in 2012

### New upgrade strategy aims to replace brittle pipes

KANSAS CITY, Mo. —Kansas City set a record for the number of water main breaks in 2012, but the city said it is already working to make sure the situation improves for the future.

Crews on the Country Club Plaza worked to repair a break on Wednesday, one of 10 reported in the city that day alone. The city said there were about 1,800 water main breaks in 2012.

Cold and drought-shifted soil is the main culprit for breaking brittle pipes, but Kansas City's aging pipes are particularly fragile. Some of the pipes in the city's water system date back to the 19th century.

"We do have an old, aging infrastructure," said Kip Peterson of Kansas City Water Services. "Mother Nature presents challenges on the system."

Water Services is implementing a plan to replace up to 2 percent of the city's water infrastructure every year. The plan goes hand-in-hand with a current five-year plan to replace small and inefficient mains.



This isn't  
Grandpa's  
problem  
anymore !



Missouri Valley Special Collections, Kansas City Public Library, Kansas City, Missouri

# Missouri's Infrastructure Needs

---

U.S. Environmental Protection Agency  
2008 Clean Water Needs Survey Report to Congress

**Wastewater Need = \$9.50 Billion**

**Drinking water need = 7.1 Billion**

Does not include:

- needs of small communities that didn't participate
- undocumented needs in metro areas (\$billions more)

# Missouri's State Revolving Fund

## CLEAN WATER

279 Leveraged Loans as of 6/30/2012.....	\$ 1,730,092,661
169 Direct Loans as of 6/30/2012.....	\$ 76,114,750
Total CW Loans as of June 30, 2012.....	\$2,248,529,652

## DRINKING WATER

73 Leveraged Loans as of 6/30/2012.....	\$250,735,000
15 Direct Loans as of 6/30/2012.....	\$ 27,829,700
Total DW Loans as of June 30, 2012.....	\$318,974,436

**Combined total \$2,567,504,088**

**AS OF JUNE 30, 2012:  
298 COMMUNITIES HAVE SAVED AN ESTIMATED:**

**\$910,494,436**

# **The Financial Assistance Center can provide funding for drinking water infrastructure:**



**Treatment plant improvements and upgrades,  
New, replacement & rehabilitation of water lines,  
Water storage facilities,  
Source water, and  
Any project that is necessary to meet the federal Safe Drinking Water Act requirements and/or address health risks or protect public health**

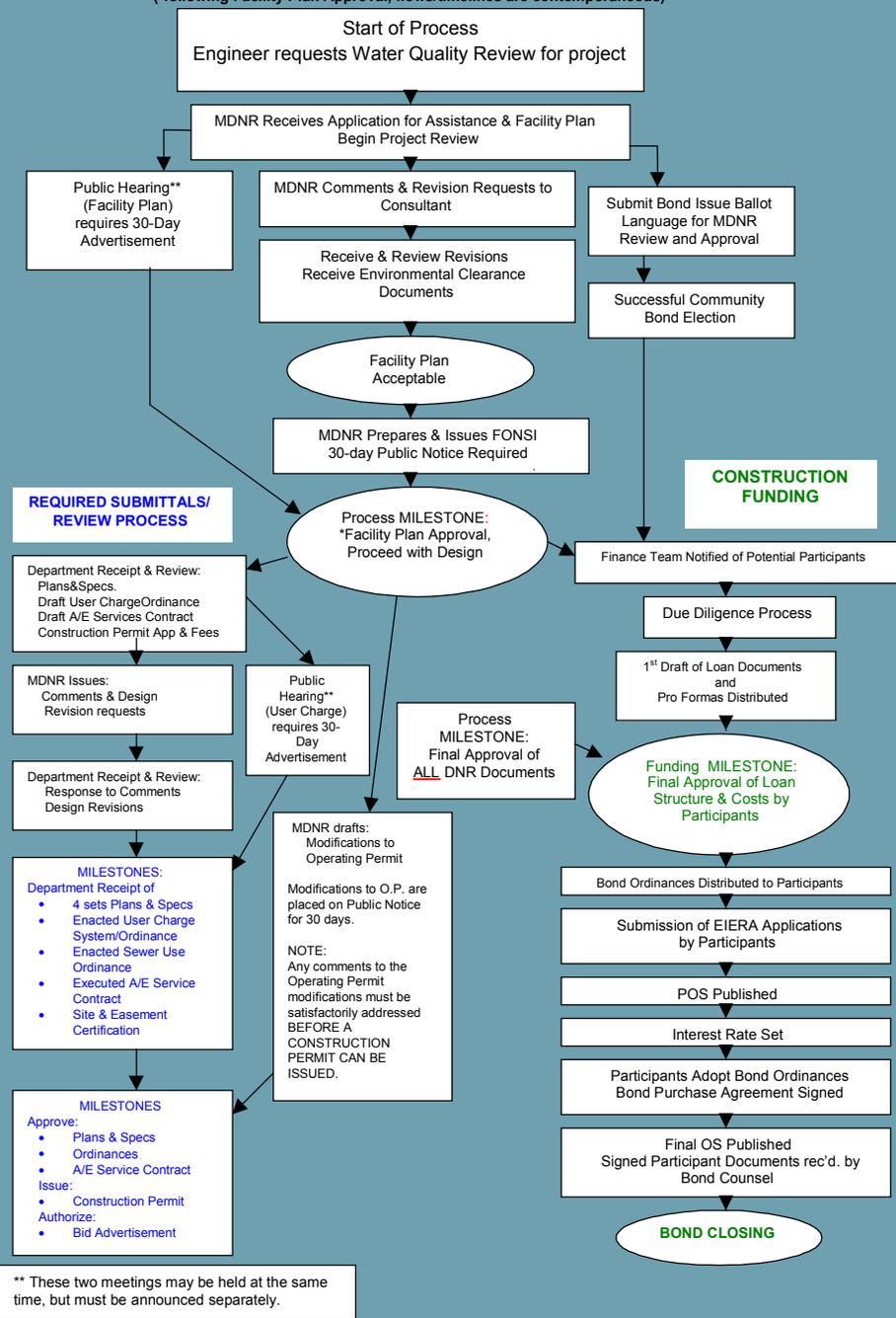
# Funding is available for Wastewater infrastructure:

- Treatment plant improvements and upgrades,
- Sewer line extensions to existing unsewered properties,
- Combined sewer overflow & sanitary sewer overflow correction
- Stormwater (Phase I & Phase II)
- UV Disinfection



# Flow Chart\* for the State Revolving Fund

(\*following Facility Plan Approval, flows/timelines are contemporaneous)



The application process is quite simple...

\*\* These two meetings may be held at the same time, but must be announced separately.

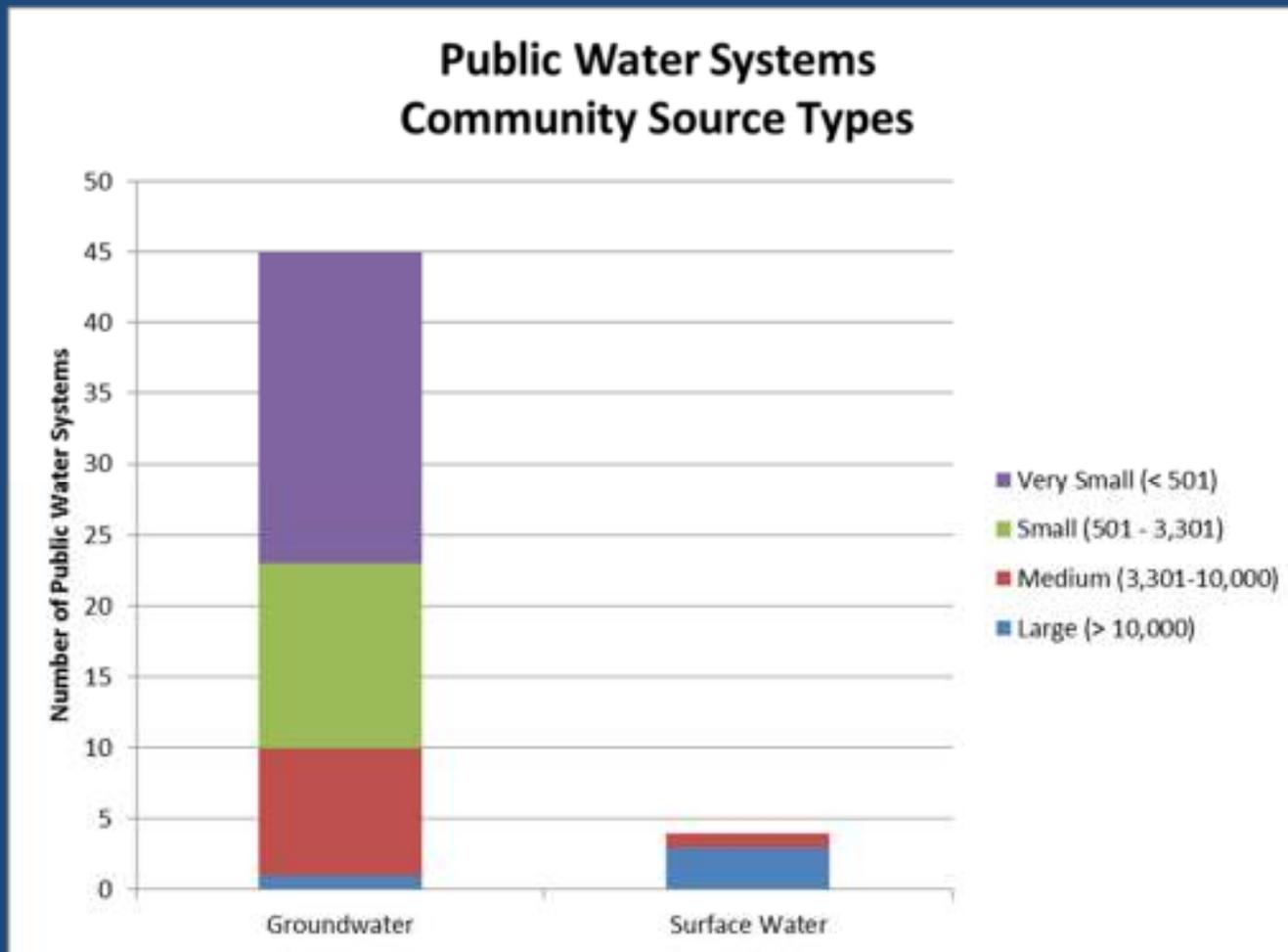
# It may be buried for now but...

- Household water bills will go up. The size of the increase varies with community and is influenced by existing local rate structures, methods of finance, etc.
- There are important regional differences because of the different patterns of population growth and infrastructure investment over the history of the United States.
- Important differences exist based on system size. Small communities in particular may find steeper challenges ahead.
- Postponing water infrastructure investment only makes the problem worse when the bill inevitably comes due.

# Public Water Systems in The Spring River Watershed



# Spring River Watershed



# DNR Funding Programs

---

Our Flagship Programs:

**Clean Water State Revolving Loan Fund**

**Drinking Water State Revolving Loan Fund**

(Federally funded)

Small Borrower Loans

Our Missouri Water initiative (grants/loan)

MASBDA – agriculture loan program

MACOG – on site grants

(State Funded)

## State Revolving Fund (SRF):

---

- Capitalized through U.S. EPA grants
- Over \$2.0 billion in outstanding loans
- Leveraged
- Interest rates = 30% of conventional rates
- Priority based on environmental need 10 CSR 20-4.010
- Intended Use Plan - financial architecture

# Drinking Water State Revolving Fund Loan Program and Set-Aside Programs

Intended Use Plan for State Fiscal Year 2013

*Approved by the Missouri Safe Drinking Water Commission June 28, 2012*



## State Revolving Fund Intended Use Plan

- Formal Planning Document
- Approved by Clean Water Commission/  
Safe Drinking Water Commission
- November 15 deadline

# Small Borrower Loan:

---

- Funding comes from the sale of state bonds
- Population must be 1000 or less
- Maximum of \$100,000
- No bond authorization necessary

# **Set –Aside Assistance**

---

**Operator Certification Training Vouchers**

**Disinfection By-Product (DBP) Removal Study**

**Increase Contractual Technical Assistance**

**Publish & Distribute Water Supply Lake Study  
Report**

**Source Water Protection & Well Plugging  
Grants**

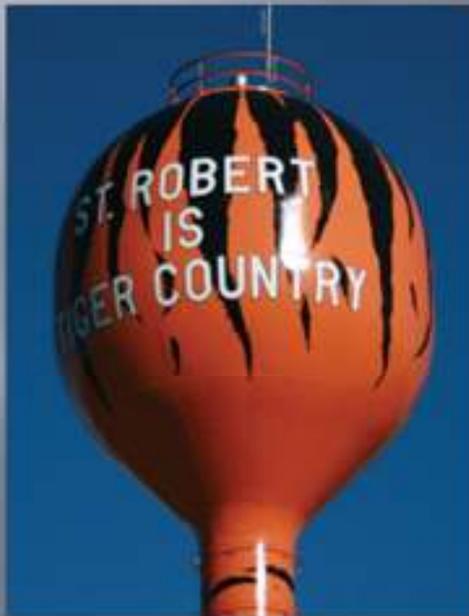
**Engineering Report Services Contracts**

**Facility Plan Contracts**

## How to apply?

An eligible entity can submit an application at any time to the SRF Program. However, applicants wanting their projects listed in the upcoming IUP must submit their application prior to November 15<sup>th</sup> each year.

The application form is included as part of the IUP and is available on our web site at [www.dnr.state.mo.us/wppccd/wppcpr/inf/infindex.html](http://www.dnr.state.mo.us/wppccd/wppcpr/inf/infindex.html). Mail to: Missouri Department of Natural Resources, Financial Assistance Center, P.O.Box 176, Jefferson City 65102.



# Other Funding for Nonpoint Source Pollution

319 funding from EPA

604b and 104b planning assistance  
grants from EPA

Parks and Soils Sales Tax –  
Soil and Water Conservation  
Program



**MISSOURI**  
**DEPARTMENT OF**  
**NATURAL RESOURCES**

Jim Macy, Director  
Financial Assistance Center  
Water Protection Program  
Post Office Box 176  
Jefferson City, MO 65102

(573) 751-1035

