

REPORT TO Utilities Rate Advisory Commission City of Sacramento

1395 35th Ave. Sacramento, CA 95822 www.cityofsacramento.org/utilities

Discussion Calendar
October 26, 2011

Honorable Chair and Members of Utilities Rate Advisory Commission

Title: Wastewater Workshop

Location/Council District: (Citywide)

Recommendation: Review and File

Contact: Dave Brent, Interim Director, 808-1420 Department of Utilities

Presenters: Dave Brent

Department: Department of Utilities

Division: Adminstration

Organization No: 14001011

Description/Analysis

Issue: This presentation will provide Commission members with an overview of the City's two wastewater systems and discuss key challenges and drivers that affect the operation, maintenance and rehabilitation of the City's wastewater infrastructure.

Rational for Recommendation: Staff believes this presentation will help provide Commission members with understanding of the City's wastewater services and the potential challenges presented by aging infrastructure and increasing regulations and mandates.



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OF UTILITIES
Financial Considerations: None

Respectfully Submitted by:	/s/.Dave Brent
	Dave Brent
	Interim Director

Attachments

- 1. Background
- 2. Power Point

Background

This presentation was originally given to the City Council on October 11, 2011 and discusses:

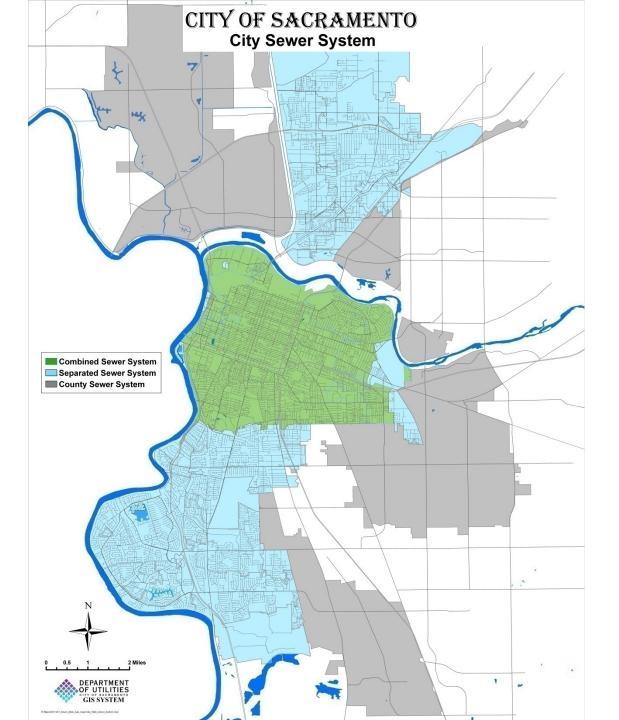
- City's wastewater systems
- Challenges presented by age, roots, failure of pipes, litigation and regulations
- Regulations
- Infrastructure needs
- Value of the system
- Consequences of inaction

The presentation is designed to provide Commission members with a better understanding of the Department's wastewater infrastructure, its challenges, and the benefits of wholesaling water. Wastewater Workshop
Utilities Rate Advisory
Commission
October 26, 2011
Presentation by:

Department of Utilities

Workshop Overview

- City's Wastewater Systems at a Glance
- System Function and Operation
- System Challenges
 - Age
 - Backyard Mains
 - Roots, Fats, Oils and Grease
 - Regulatory Mandates
 - Litigation
- What's at Stake?



System at a Glance

Combined

- 255 miles of Pipe
- 2 Primary treatment/storage facilities
- Sumps 1/1A and 2/2A
- Underground storage facilities
- Replacement Value \$1.4 Billion

Separated

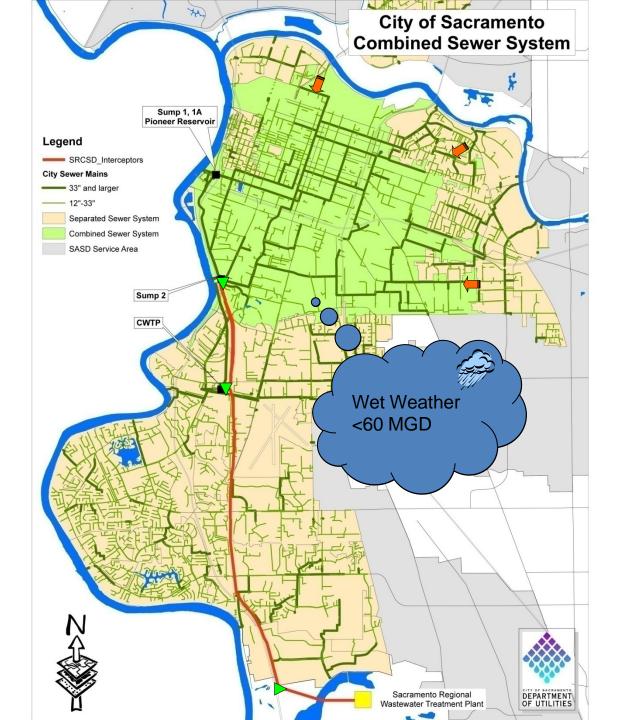
- 572 miles of pipe
- 40 sumps
- Replacement Value \$1 Billion

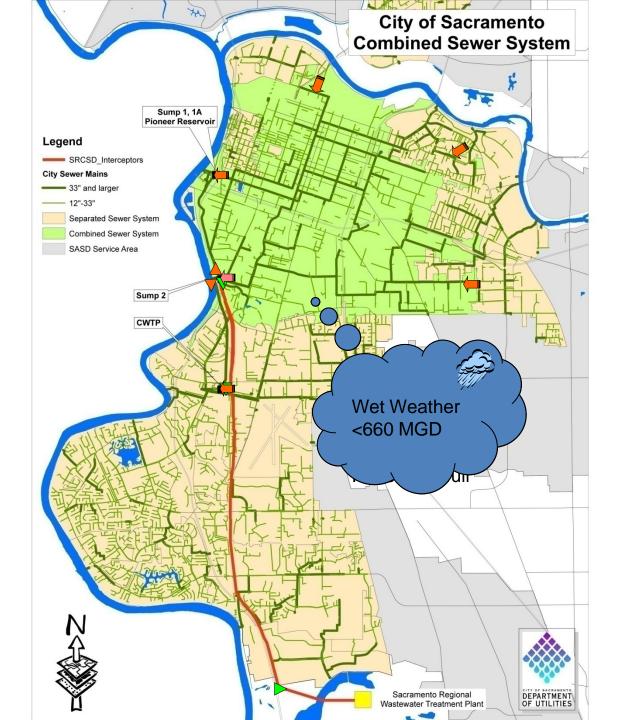


Core Functions

 Frontline of our Environmental Stewardship Efforts

Frontline of City's Public Health and Sanitation





Challenges

- Age
- Backyard Mains
- Roots, Fats, Oils and Grease
- Regulations
- Litigation

Sump 2 Under Construction Circa 1927



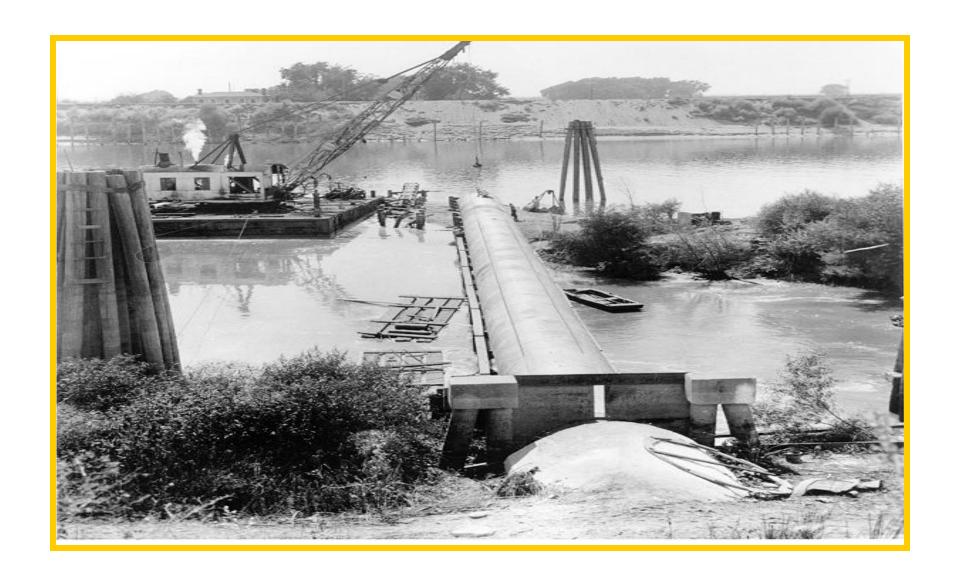
Pipe Construction Equipment for 108 inch Sewer - Circa 1927

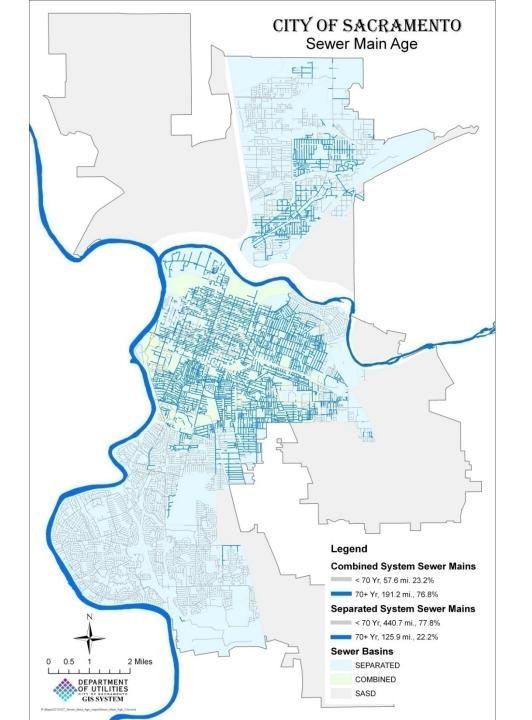


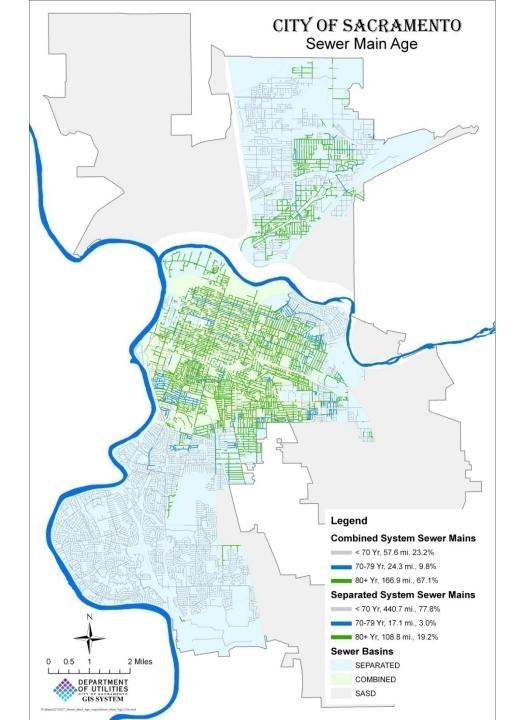
Casting Concrete Pipe Onsite

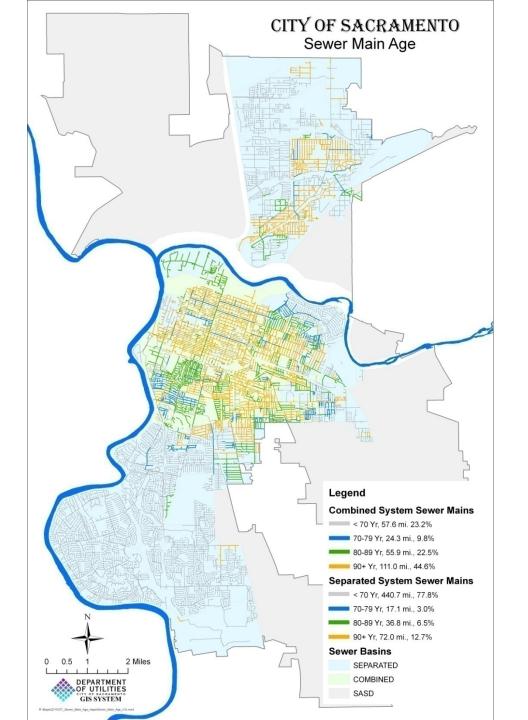


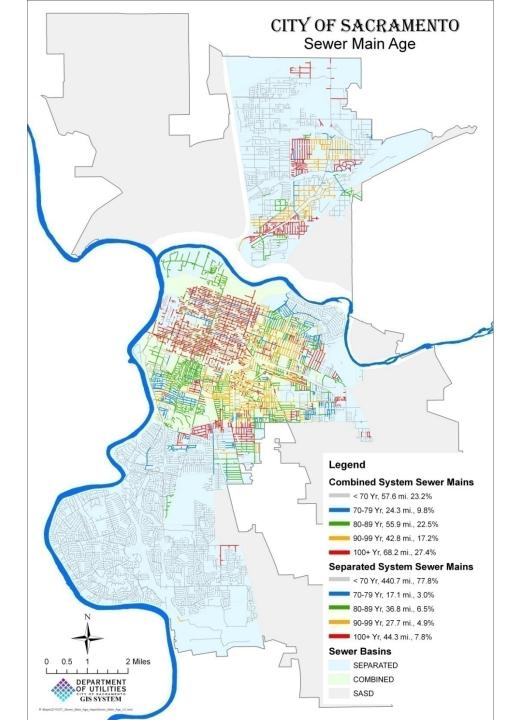
Sump 2 Discharge To River













Backyard Mains

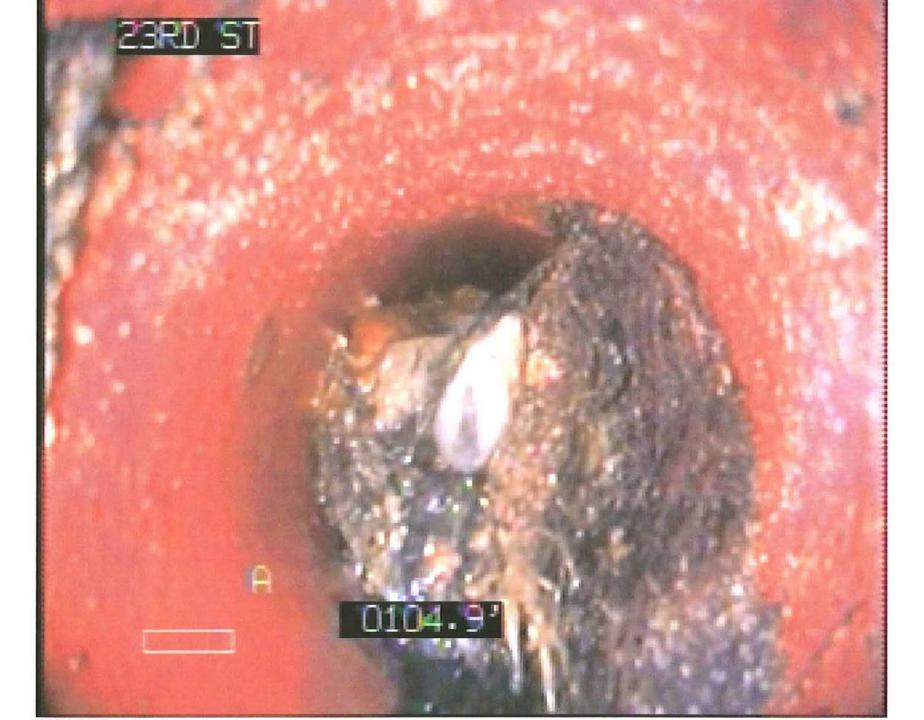


City of Sacramento Wastewater System

USEPA and ASCE Report Card

Components	Years of design life
Collections	80-100
Treatment Plants – Concrete Structures	50
Treatment Plants – Mechanical and Electrical	15-25
Force Mains	25
Pumping Stations – Concrete Structures	50
Pumping Stations – Mechanical and Electrical	15
Interceptors	90-100

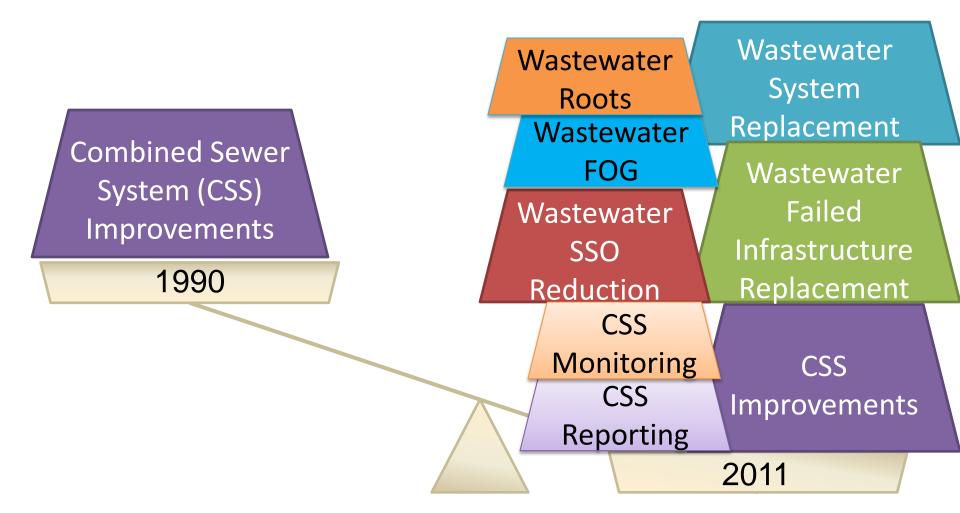




Permits/Agencies Regulating The City's Wastewater System

- National Pollutant Discharge Elimination
 System (NPDES) Permit US Environmental
 Protection Agency (EPA) and California
 Regional Water Quality Control Board
- Sanitary Sewer System General Waste
 Discharge Requirements State Water
 Resources Control Board

The Regulatory Environment Increasing Number and Scope





Why Do We Need To Fix The System?

- Environmental Stewardship
- Public Health and Safety
- Economic Vitality
- Job Creation
- Maintaining Local Control of system

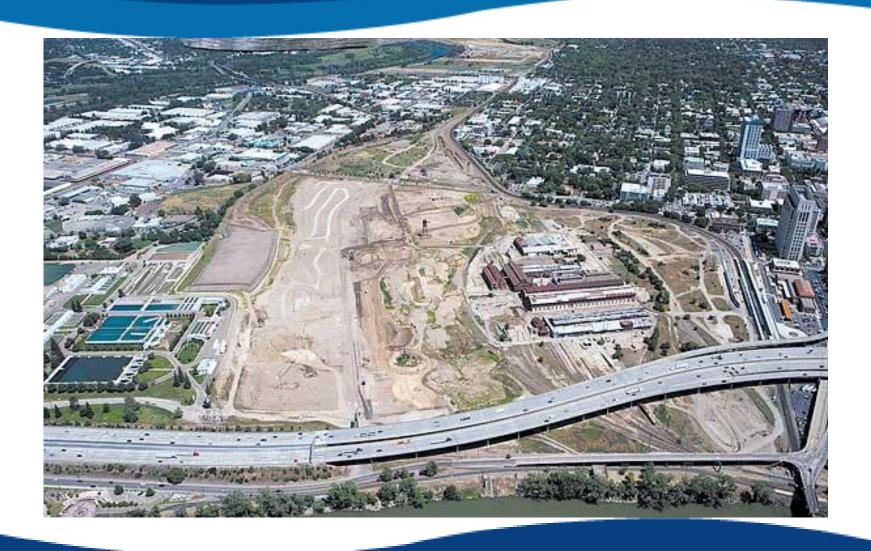
Environmental Stewardship



Public Health and Safety



Economic Development



Local Control

- "EPA: Fix Sewage System or Else" The State, April 27th, 2011
 - Columbia, South Carolina faced with \$500 million bill to improve system
- "Sewer District Settles Suit, Agrees to Upgrades" <u>St.</u>
 <u>Louis Post-Dispatch</u>, August 5th, 2011
 - Rebuild system over 2 decades at a cost of \$4.7 billion
- "Atlanta water, sewer rates among nation's highest" The Atlanta Journal-Constitution, October 5th, 2009
 - Atlanta court order requires \$4.1 billion in improvements

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