



**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: Water Workshop

Location/Council District: (Citywide)

Recommendation: Review and File

Contact: Dave Brent, Interim Director, 916-808-1420 Department of Utilities

Presenters: Dave Brent

Department: Department of Utilities

Division: Administration

Organization No: 14001011

Description/Analysis

Issue: This presentation, a version of which was presented to City Council on March 29, 2011 provides a City-centric overview of water supply issues and the role that the City can and does play in wholesaling water to the region. The presentation also shares information pertaining to water rights and the City's water infrastructure.

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



CITY OF SACRAMENTO
DEPARTMENT
OF UTILITIES

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and mandates.

Financial Considerations: None

Respectfully Submitted by: _____

Dave Brent
Interim Director

Attachments

1. Background
2. Power Point

Attachment 1

Background

This presentation was originally given to the City Council on March 29, 2011 and discusses:

- City Water Rights
- Wholesaling of Water
- City's water infrastructure
- Value of Water

The presentation is designed to provide Commission members with a better understanding of the Department's water infrastructure, its challenges, and the benefits of wholesaling water.

Water Workshop

Utilities Rate Advisory Commission

October 26, 2011



CITY OF SACRAMENTO
DEPARTMENT
OF UTILITIES

Presented By:
Department of Utilities

Workshop Overview

- City's Water System at a Glance
- Water Wholesaling
- City's Water Rights
- City's Water Infrastructure
- Value of City's Water
- Closing/Follow-up Actions

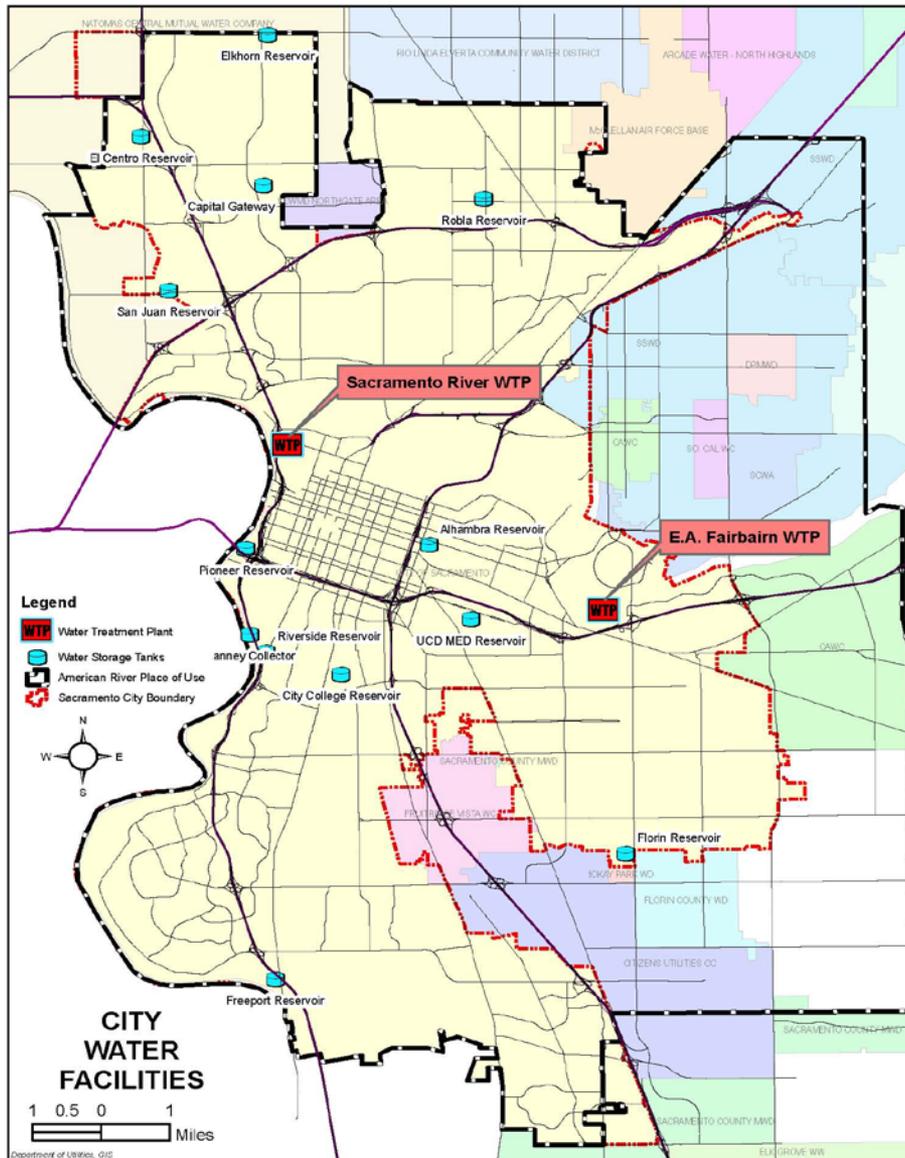
System at a Glance

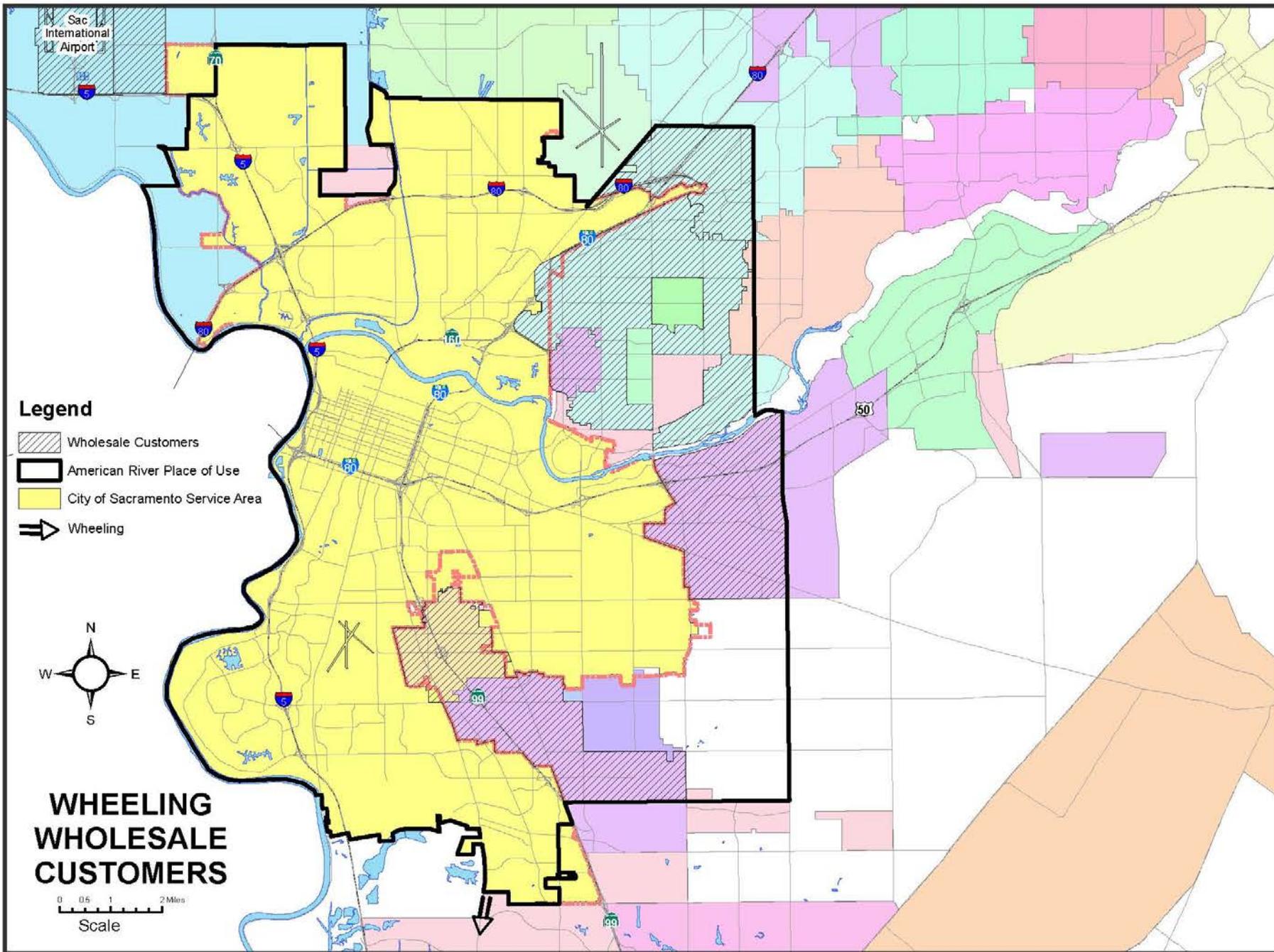
2 – Water Treatment Plants

11 – Storage Reservoirs

27- Groundwater Wells

1,750 Miles of Pipe



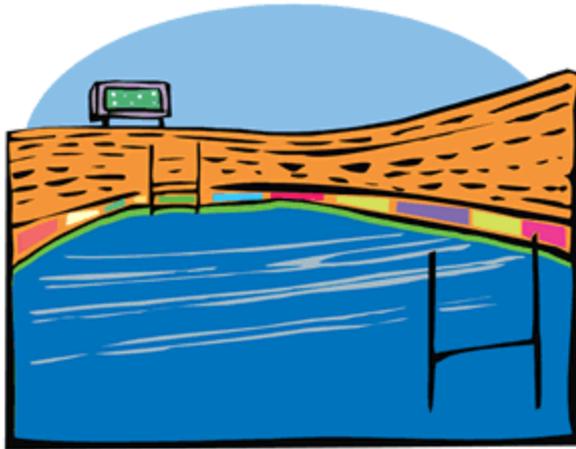


CITY'S WATER RIGHTS

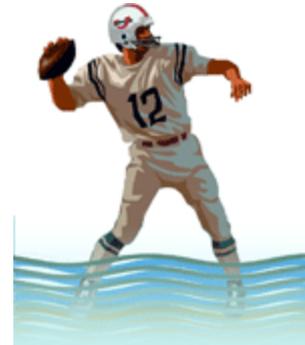
- Some of the Best in the State
- Provide for 2030 General Plan Buildout
- Provides for About 326,000 Acre-Feet
- Wholesale Water within the Region
 - Within Place of Use
- **ONE OF THE CITY'S MOST VALUABLE ASSETS**

What is an Acre Foot of Water?

- About 326,000 gallons
- About a Football Field 1-Foot Deep in Water



1 acre-foot = 1 football field covered in 1 foot of water



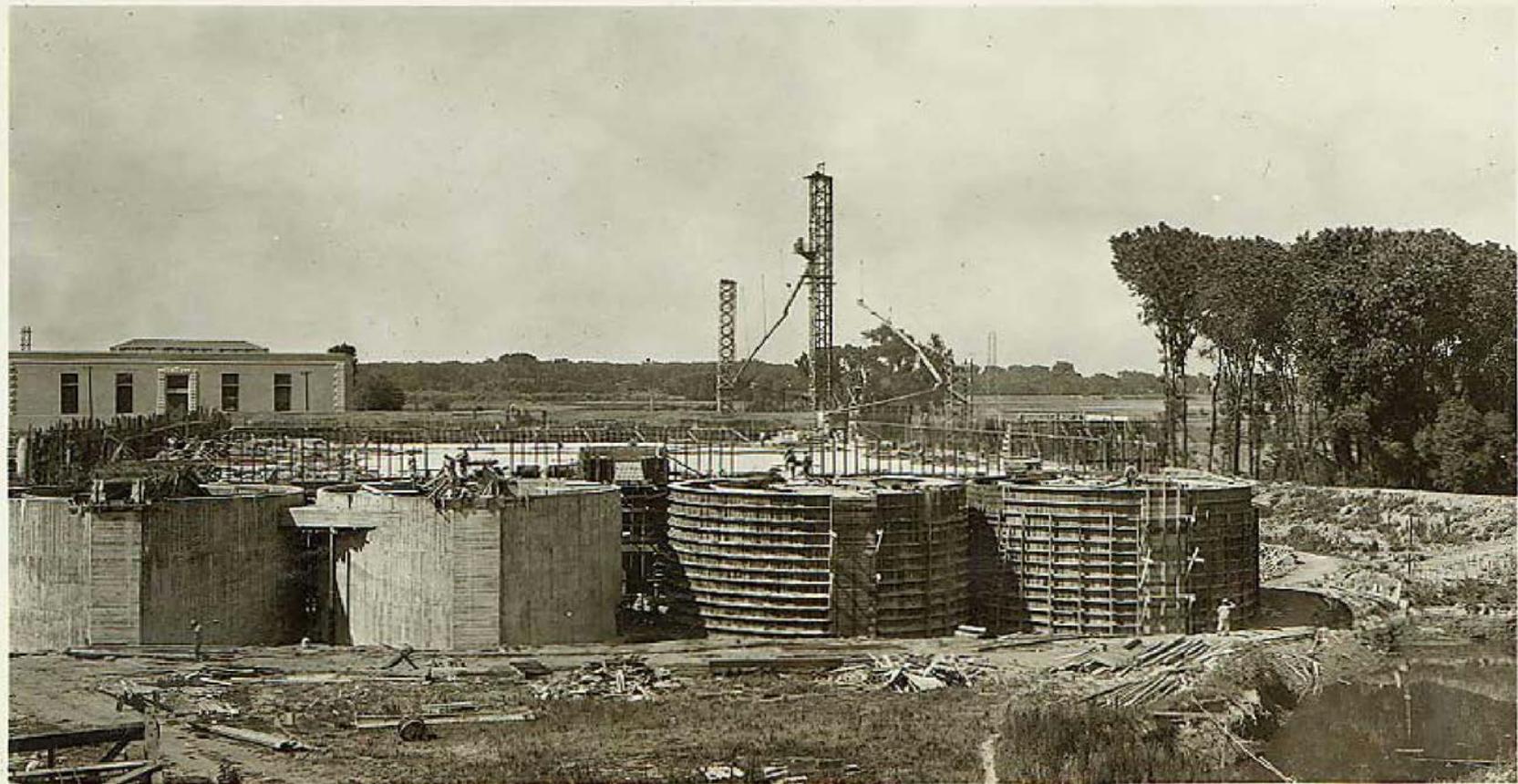
- 1 Ac-Ft is enough water to serve between 0.5 to 1.5 households



B16.

Blasting stumps

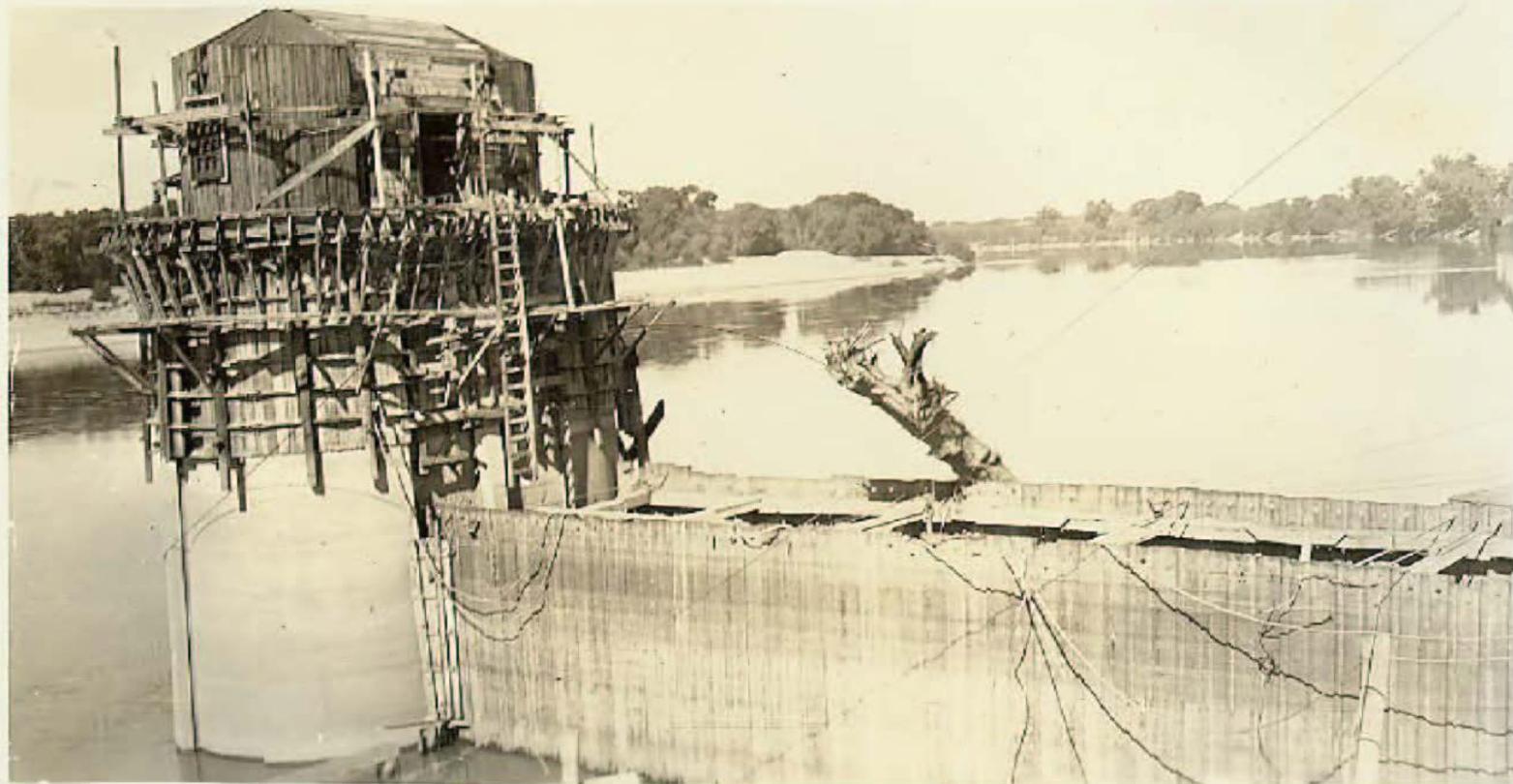
9-22-22.



377

Mixing Tank's.

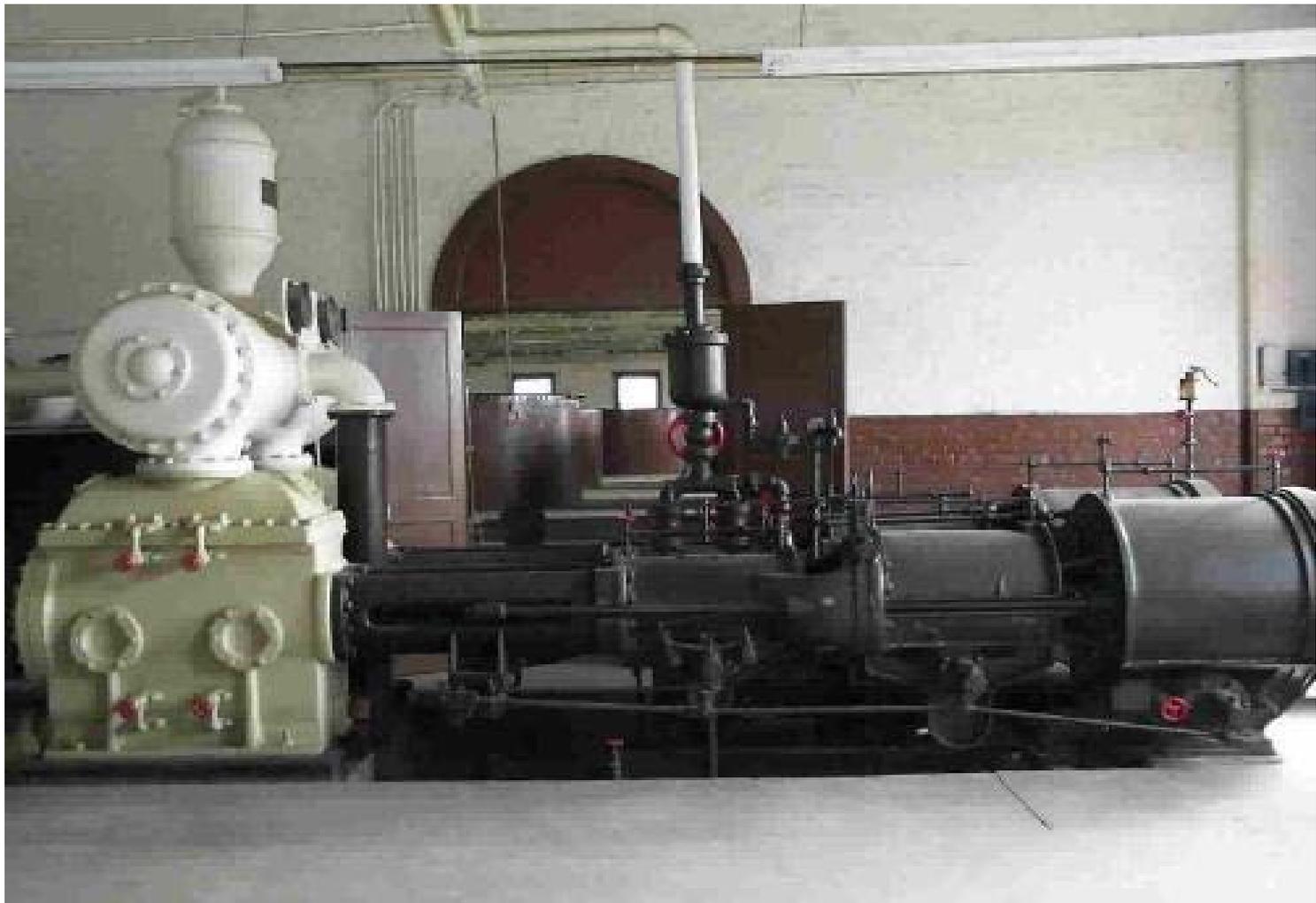
6-29-23



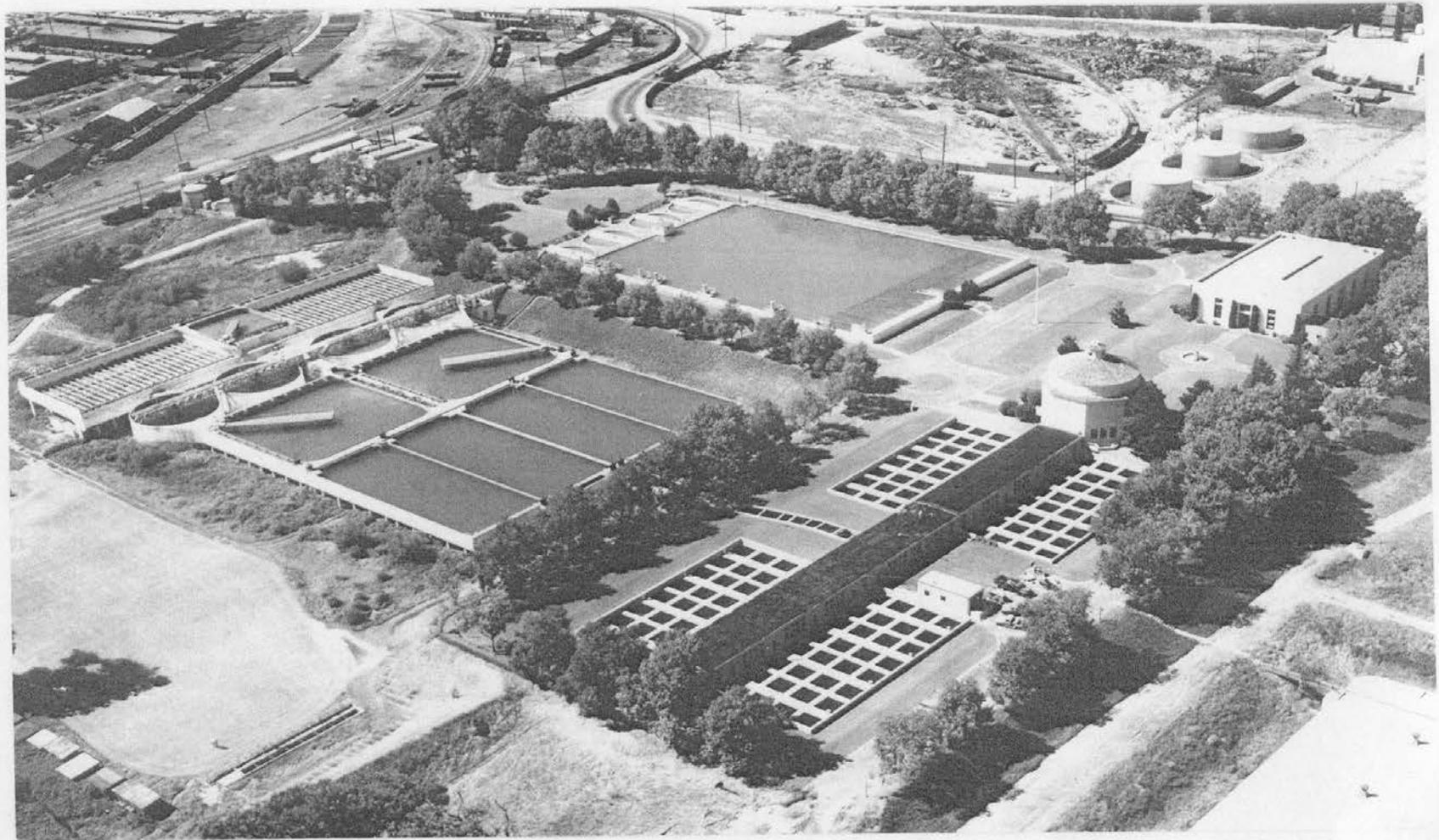
B45.

Intake pier

10-6-27.

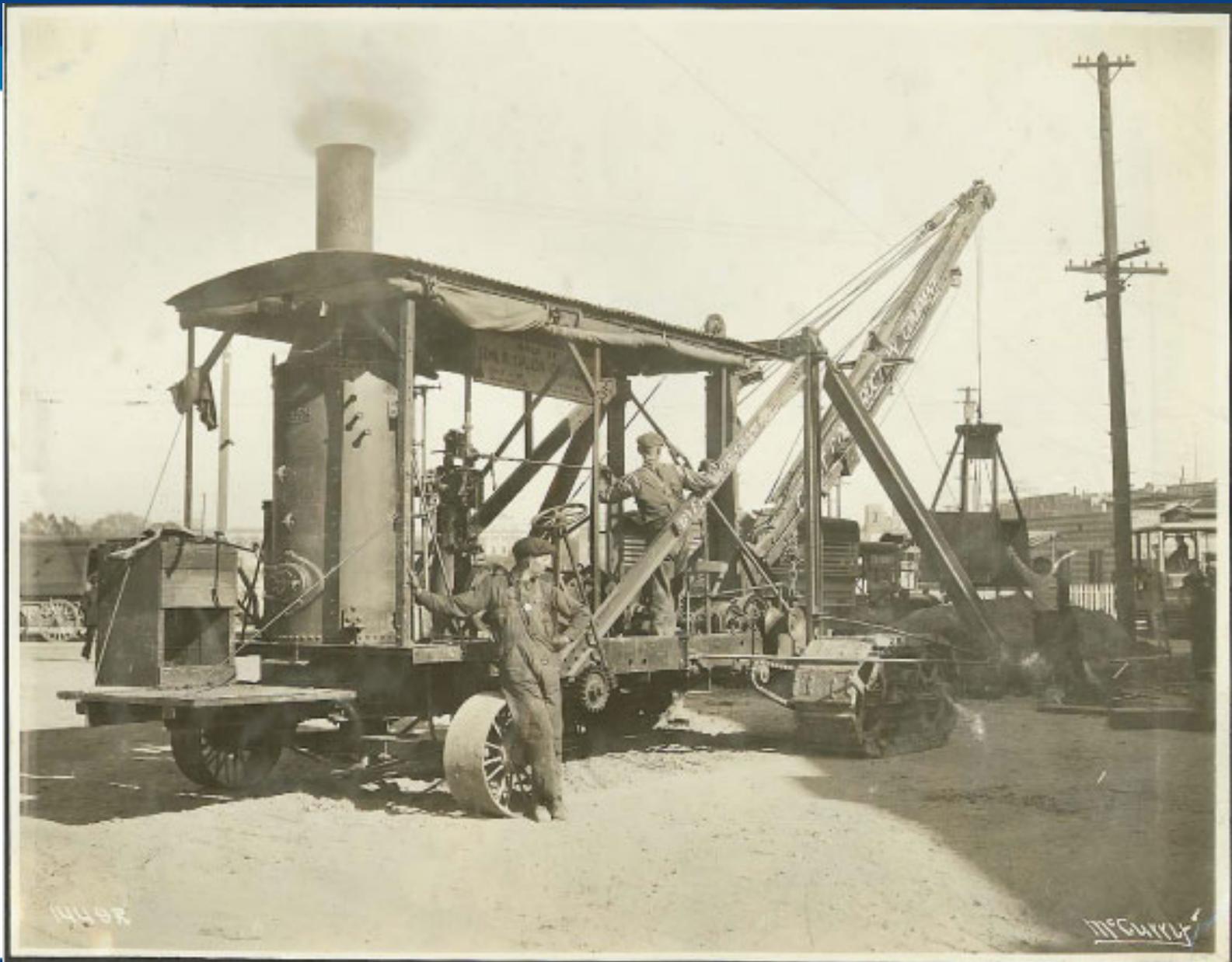


82/05/2506









1149R

McGraw-Hill



B13. Clearing Site with tractor

9-22-22.

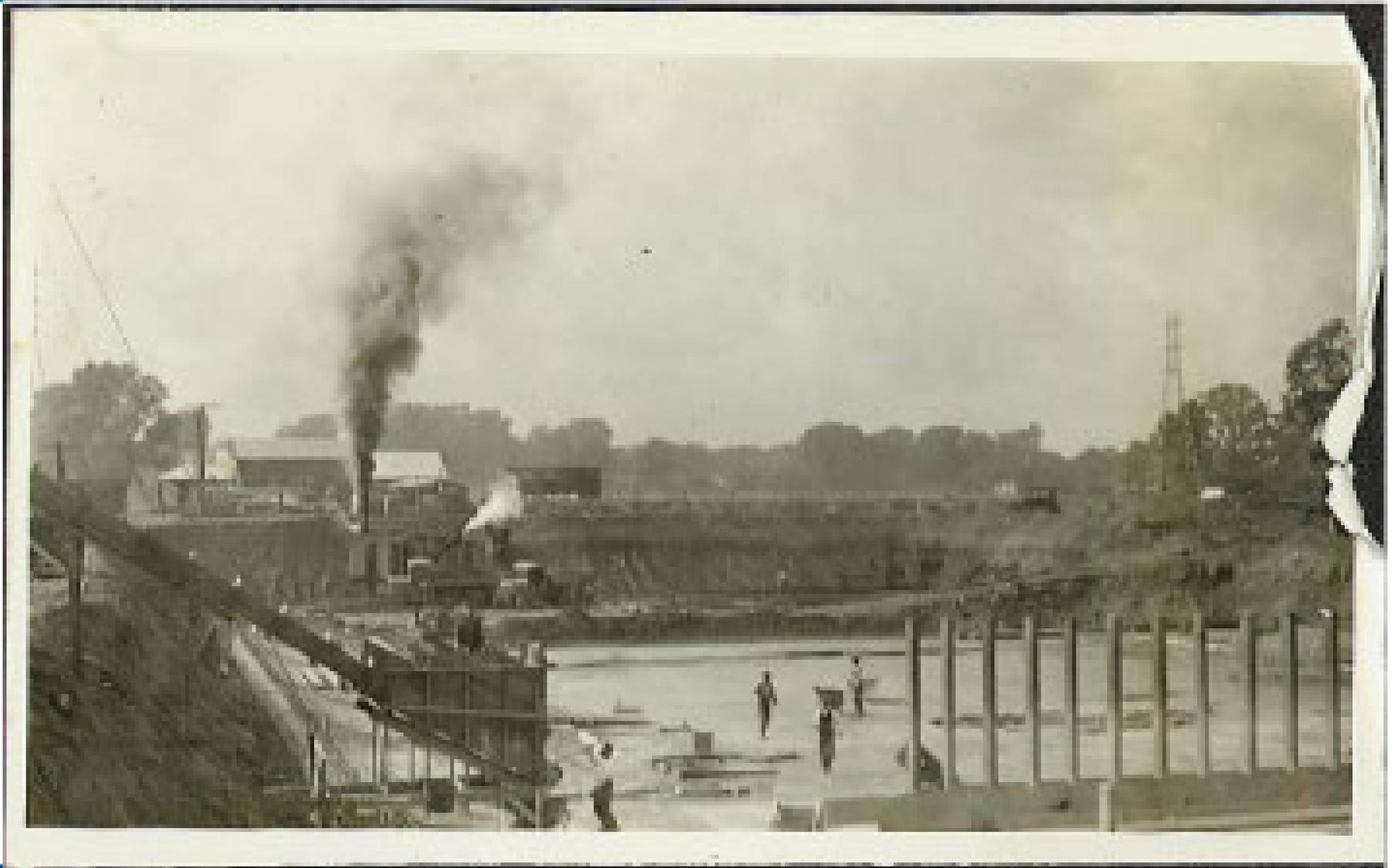


B18.

Cutting weeds.

9-22-22









(As Represented on Page 15)



Progress view Feb. 9 showing construction plant and erection, forming for bottom floor of pump chamber caisson.





B35. Mott + Hageman.

9-29-22

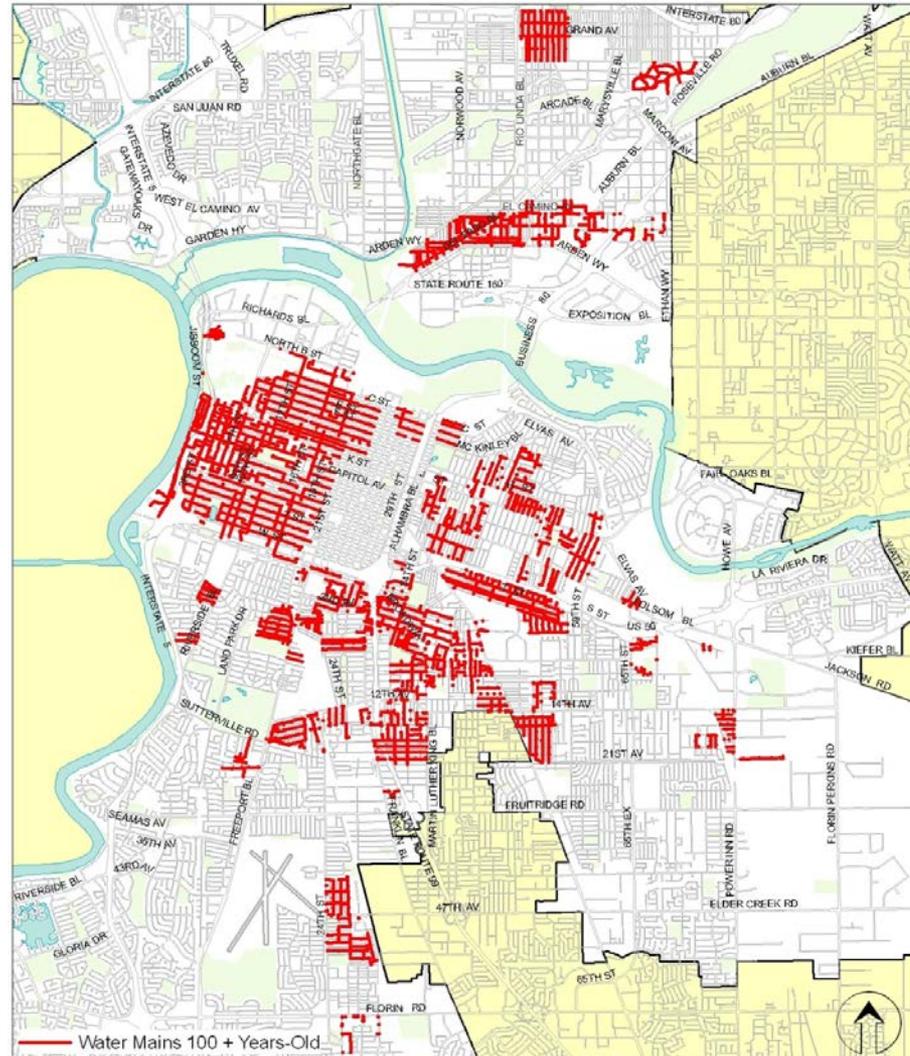








100+ Year Old Water Mains



City of Sacramento Water System

- USEPA and ASCE Report Card

Components	Years of Design Life
Reservoirs and Dams	50-80
Treatment Plants-Concrete Structures	60-70
Treatment Plants-Mechanical and Electrical	15-25
Trunk Mains	65-95
Pumping Stations-Concrete Structures	60-70
Pumping Stations-Mechanical and Electrical	25
Distribution	60-95

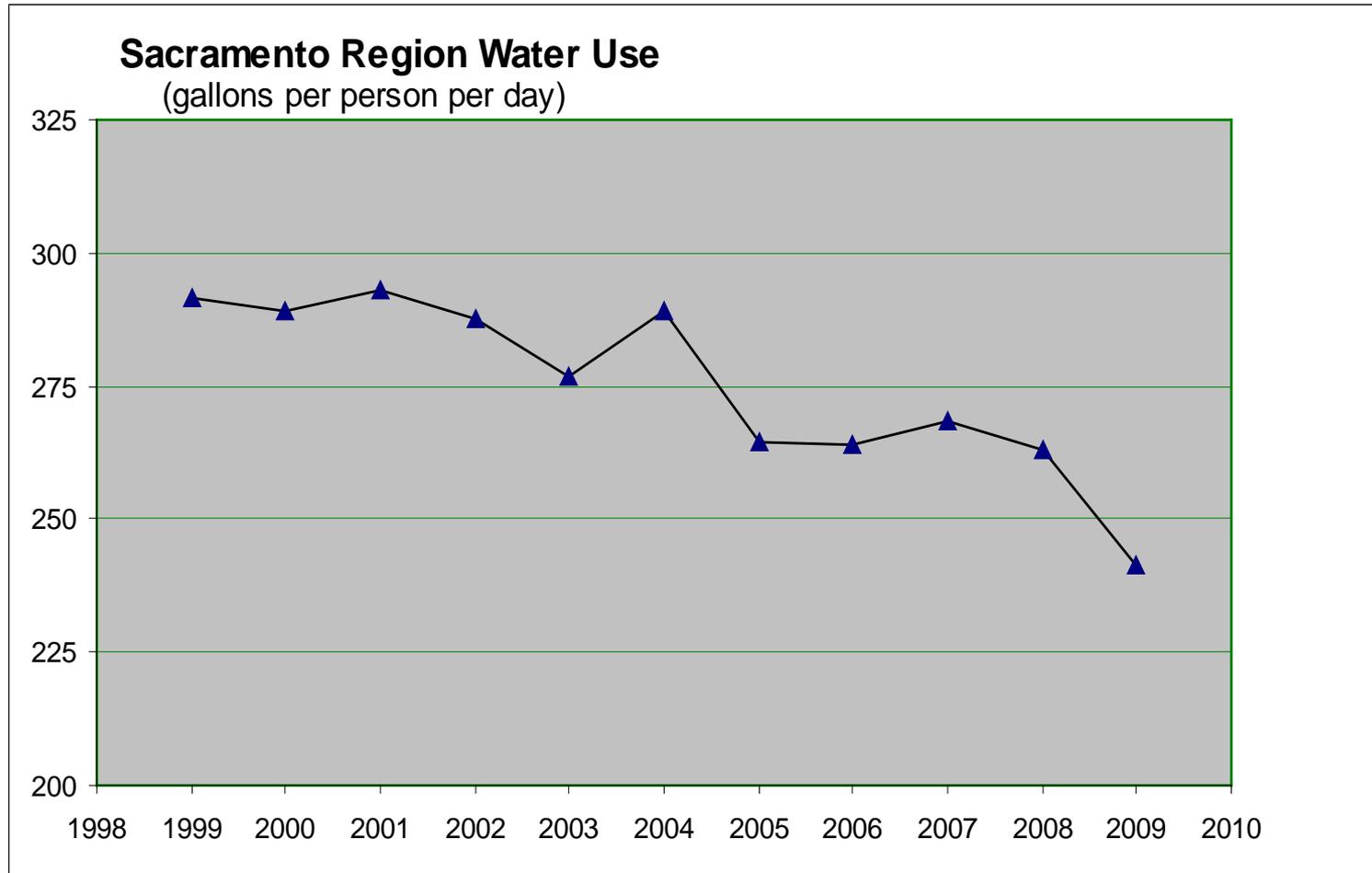
City of Sacramento Water System

Rehabilitation and Replacement Needs	Quantity (approx.)	Estimated Replacement Value
Pipe >70 yrs old T- Mains	17.5 miles 12% of system 15 miles 10% of system	\$72 million \$60 million
Pipe >70 yrs old Distribution	322 miles 22% of system	\$325 million
Treatment Plants >80 yrs old	1	\$120 million
Ground Water Wells >40 yrs old	25	\$20 million

VALUE OF CITY'S WATER

- Strong Water Rights
- Conserving and Protecting the Resource
- Competitively Priced
- A Strong Return on Investment
- Wholesale Benefits

Water Conservation





Association
of California
Water Agencies
Since 1953
Leadership
Advocacy
Information
ACWA

CALIFORNIA TAP WATER: The BEST DEAL AROUND



The Best Deal Around

On average, a gallon of California tap water costs two-tenths of a cent. When compared with the cost of other products we use every day, tap water is clearly one of the best deals around.

A Gallon of TAP WATER
\$0.002

A G A L L O N O F



\$45.00

A G A L L O N O F



\$16.00

A G A L L O N O F



\$11.35

A G A L L O N O F



\$3.06

A G A L L O N O F

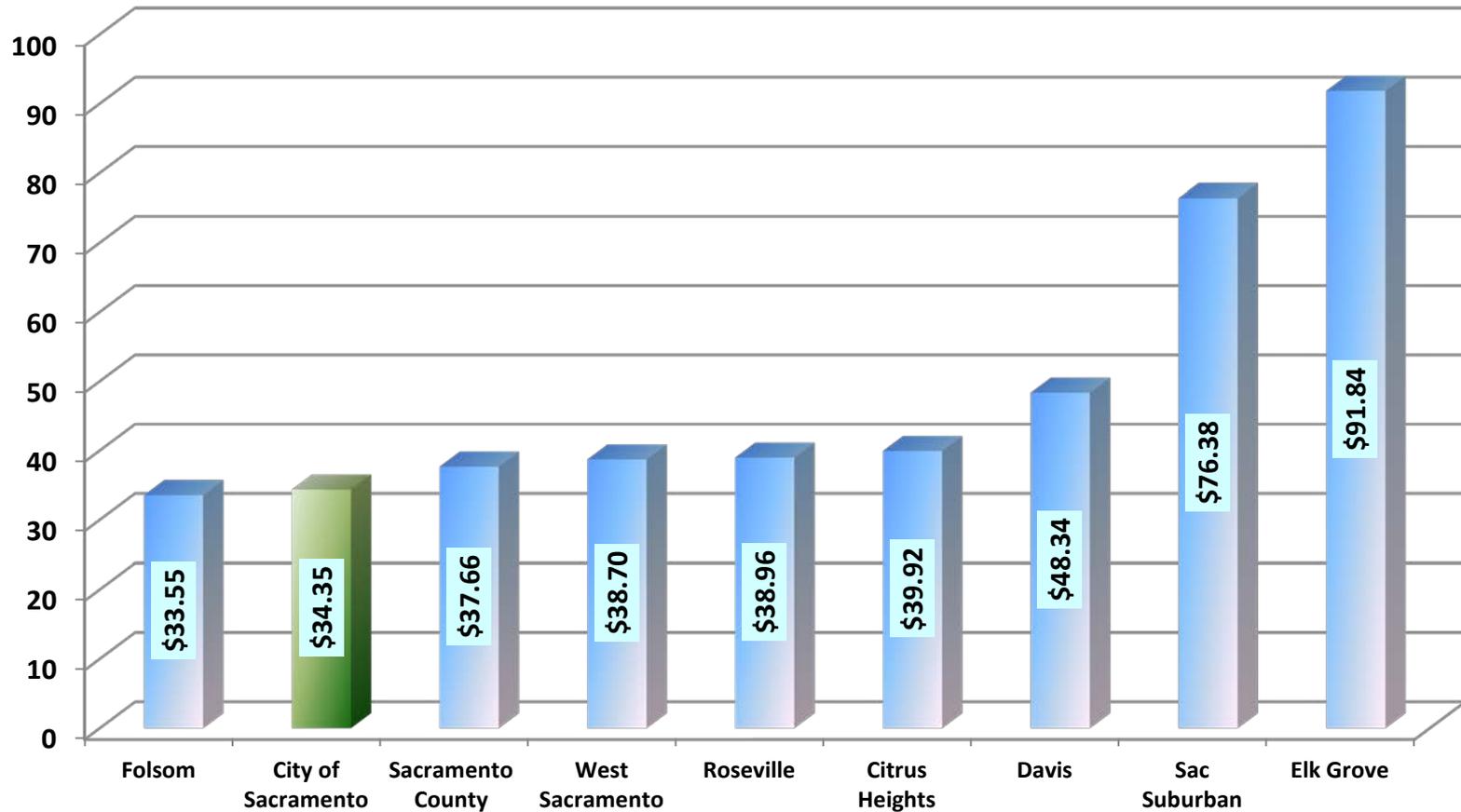


\$2.49

(*Prices based on California averages.)



FY2010/11 REGIONAL MONTHLY WATER RATE COMPARISON¹



Wholesale Water Agreements

Existing	Potential
6 Agreements	9 Agreements “Likely”/15 Max
Ave. Delivery: Up to 23,000 ac-ft	Ave. Delivery: 53,000/96,000 ac-ft
Revenue: \$1 M to \$5M/Year	Potential Revenue: Up to \$20M

The estimates provided on this slide are for discussion purposes only and should be considered as “order of magnitude” estimates for planning and discussion purposes.



QUESTIONS?