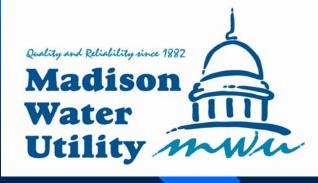
Arbor Hills Supplemental Fire Flow Supply



2nd Public Meeting September 10, 2009

Introductions

- ► Project Manager: Al Larson P.E.
- Citizen's Advisory Panel (CAP)

Sheri Carter
Chuck Friedrichs

Tracy Fuller

Roger Hanson

Bryan Manning

Harry Sulzer

Ray Walker

Ken White

Patty Zahler

Public Participation Process

- 1. Establish the Project (Complete 6-23-09)
- Evaluate Alternatives

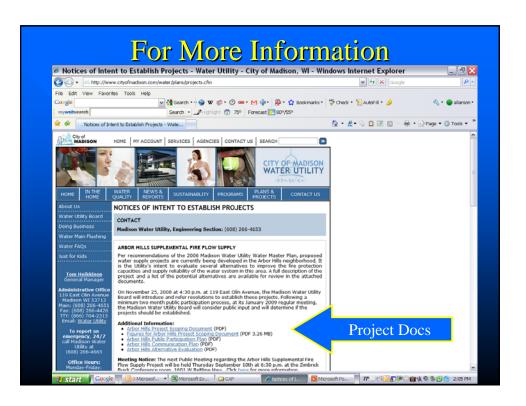
We're here

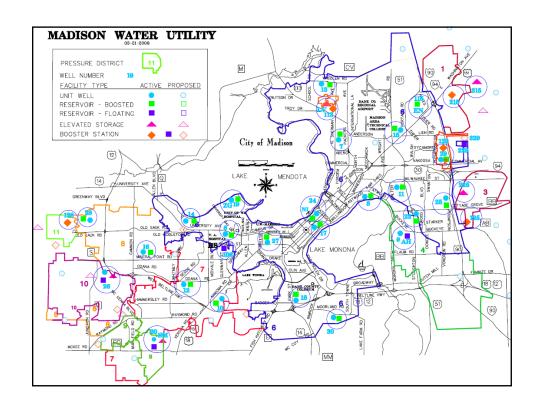
- 3. Site Selection
- 4. Architectural Features

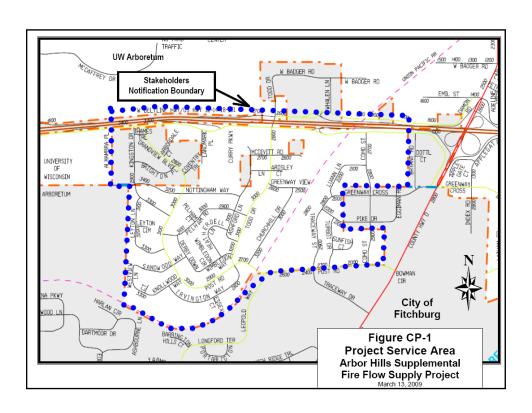
Public Participation Process Citizen's Advisory Panel (CAP)

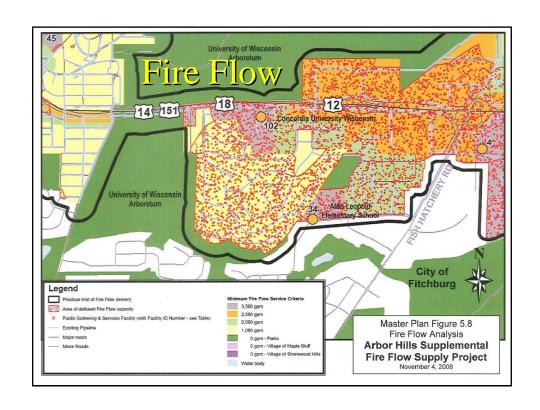
- A CAP is formed @ the start of the project
- The CAP provides feedback throughout
- The makeup of the CAP may change as the project details develop and evolve
- Each Step has at least one public meeting
- Each Step has at least one public hearing

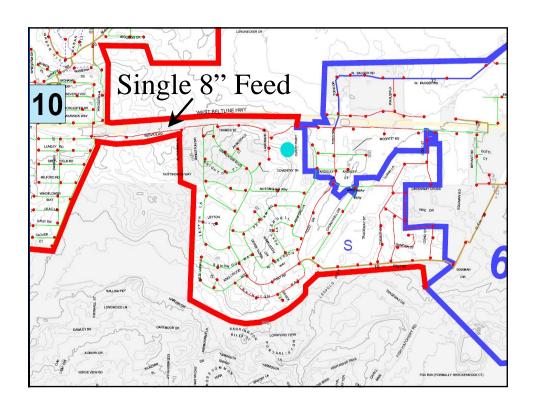












Alternative Evaluation Report Alternative Evaluation Project Manager: 600,206,4659; 6

Alternatives

- 1. Maintain the status quo (Do nothing)
- 2. Construct pumping station and pipeline along the proposed bike path
- 3. Drill a new well
- 4. Buy water from Fitchburg
- 5. Construct a 750,000 gallon elevated tank

Alternative #1 Maintain Status Quo (Do Nothing)

<u>Description:</u> Recognize the limitations of the system and live with them

<u>Cost:</u> \$0

Service: Increasing risk of lost service

Schedule: Not Applicable

Recommendation: Does not meet minimum standards, will not be considered further

Alternative #2 Construct a Pump Station

<u>Description:</u> Construct a 2,000 gpm booster pumping station to pump water from Zone 6 to Zone 7

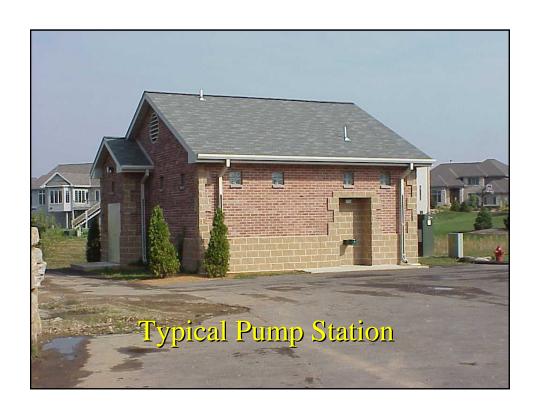
<u>Cost:</u> Pump Station = \$1,000,000 (Includes Engineering)

Operating Costs = \$53,000 per year

Service: Improves fire flow and system reliability

Schedule: Construction 2010/2011

Recommendation: Construct a pump station in conjunction with Cannonball Trail Water Main



Alternative #3 Drill a New Well

<u>Description:</u> Drill a new well in the Arbor Hills neighborhood with a pump station and reservoir

<u>Cost:</u> Construction = \$3.4 million (includes engineering)

Operating Costs = \$100,000 per year

Service: Improves fire flow and system reliability

Schedule: Construction 2012/2013

Recommendation: Another well is not needed in this area. This alternative is not recommended.



Alternative #4 Buy Water from Fitchburg

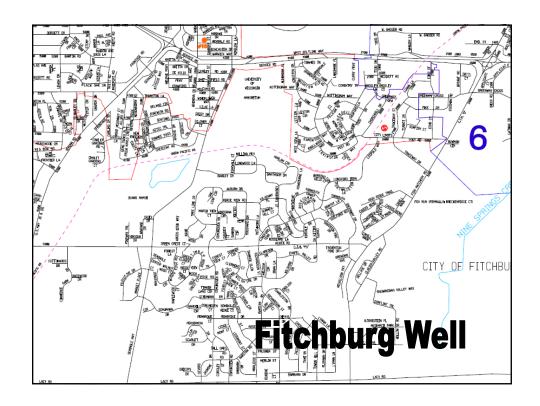
<u>Description:</u> Fitchburg drills a new well and a metered inter-tie constructed for Madison.

<u>Cost:</u> Construction = All City of Fitchburg (\$3 million)
Annual Water Cost = \$160,000 per year

Service: Reliability controlled by of Fitchburg

Schedule: Unknown? .. Earliest 2012/2013

Recommendation: Due to costs, schedule, and other unknowns this alternative is not recommended.



Alternative #5 Construct a Water Tower

<u>Description:</u> Construct a 200 foot tall 750,000 gallon reservoir and pump station.

<u>Cost:</u> Construction = \$3.1 million (includes engineering)

Operating Costs = \$40,000 per year

Service: Improves fire flow and system reliability

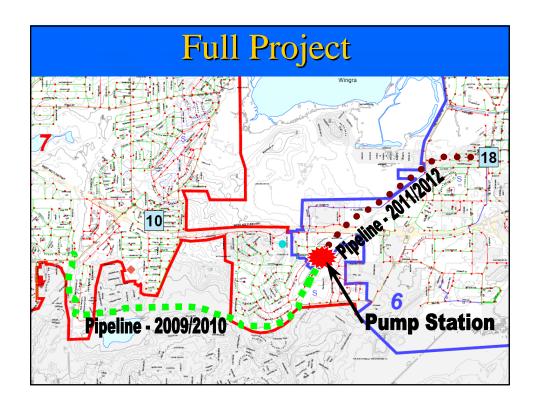
Schedule: Construction 2011/2012

<u>Recommendation:</u> Significant neighborhood opposition make this alternative unfeasible. Not recommended.

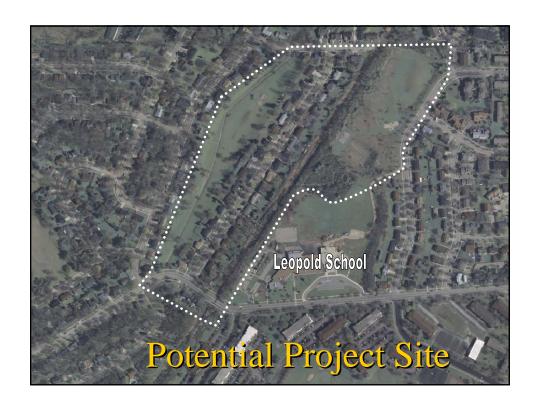


Recommendation

- Based on this alternative evaluation, it is recommended that Madison Water Utility construct a water pumping station to improve fire flow capacity and reliability in the Arbor Hills area.
- This pump will work in conjunction with the Cannonball Trail water transmission main.











Contact Information 24-Hour Phone Line

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