

# Old Glebe Water Main Break, November 23, 2009





# Water Supply

- Minor Hill Reservoir
- Collection of 4 underground vaults
- 24 million gallon total or 20 feet deep
- Half of tanks offline due to inspection and maintenance (2 week process)
- Water level began at 13 feet and was reduced to 12 feet once the main was shut down
- Low point was 6.5 feet (4-7 million gallons) by Wednesday (11/25) afternoon
- Normal operation keeps tanks at 10 to 18 feet per day
- 6-8 million gallons per day (GPD) are typically used from this reservoir
- Countywide water usage averages 20 million GPD, often reaching 40 million GPD in the summer





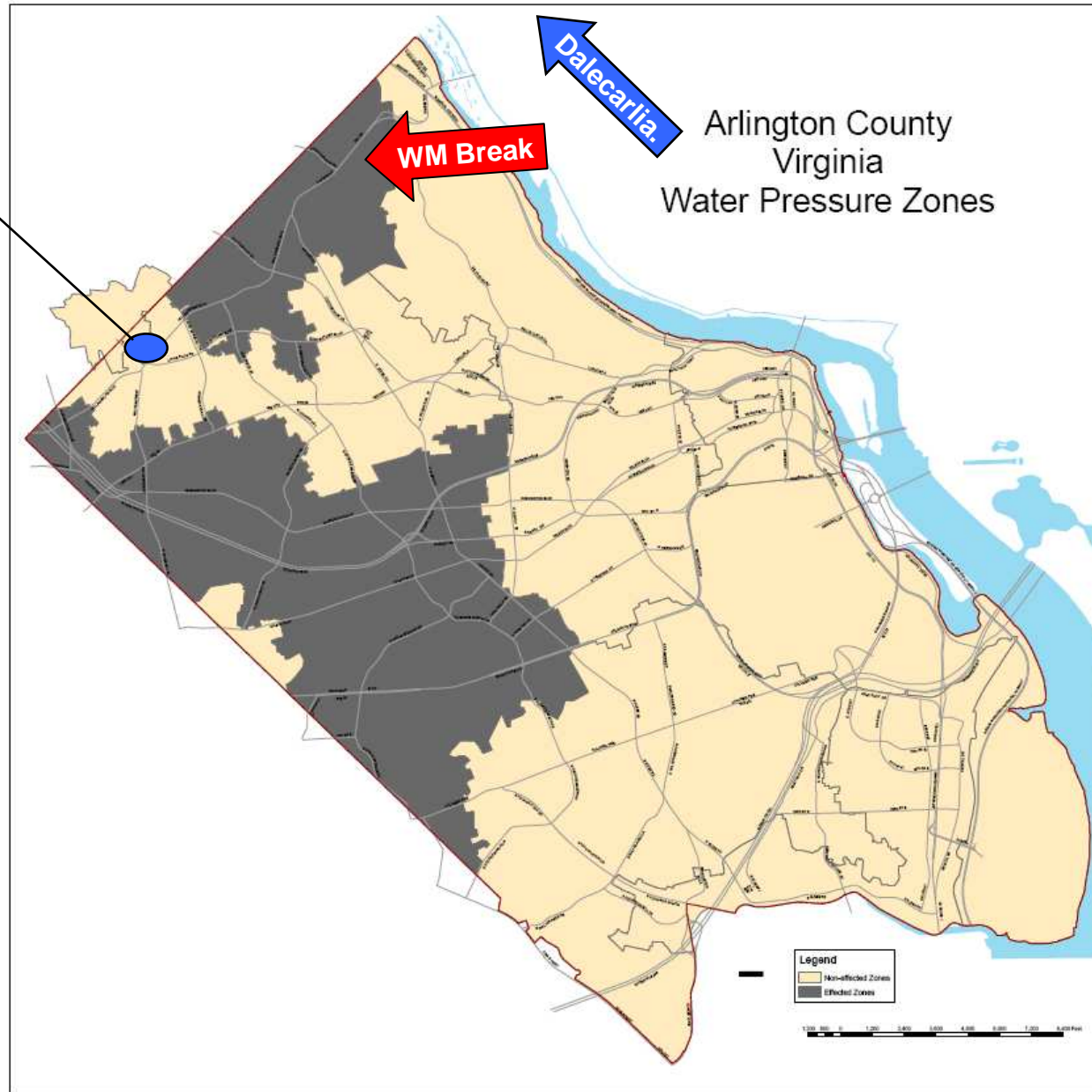
# Affected Zones



Minor Hill Reservoir

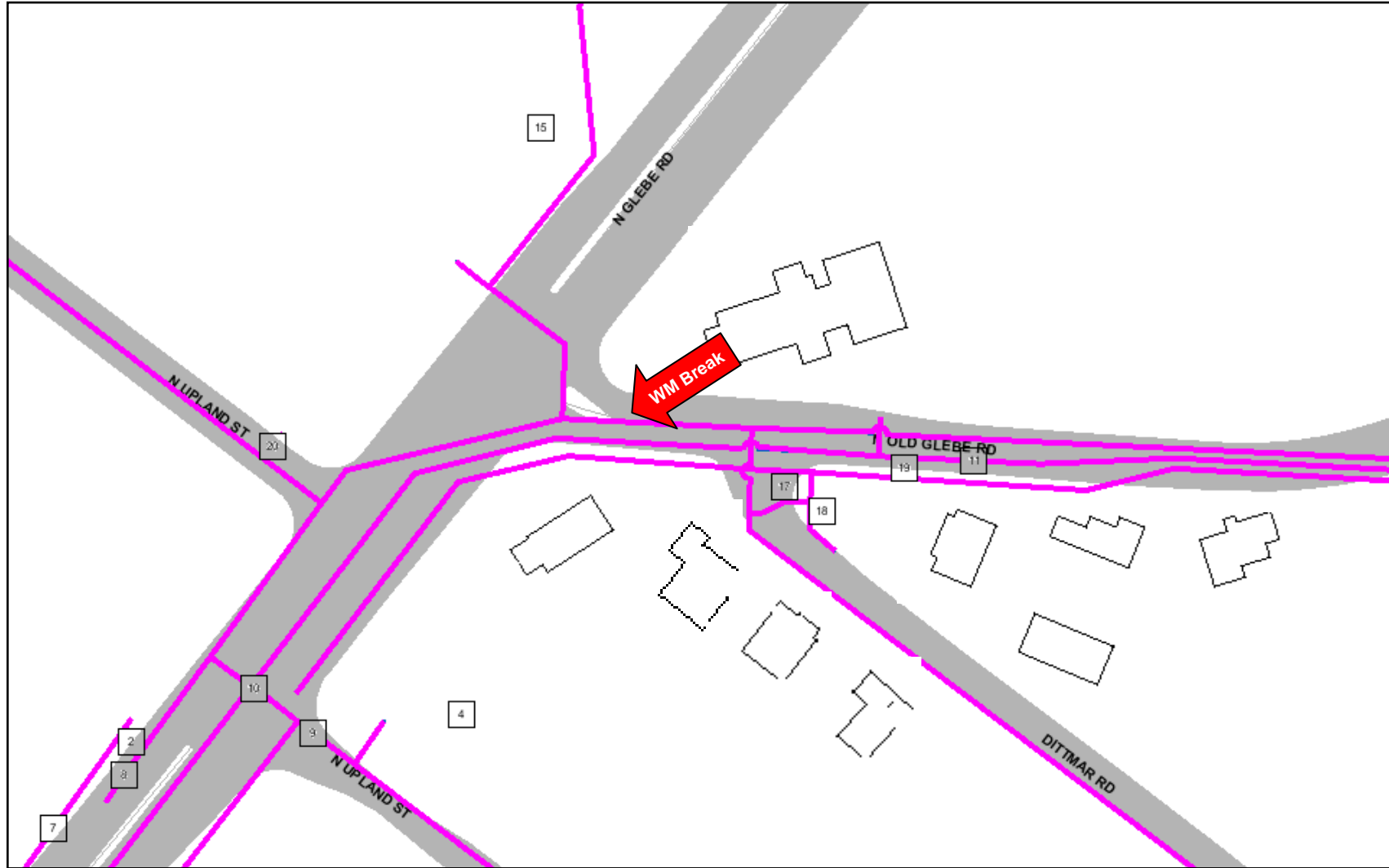
## Legend

-  Non-affected Zones
  -  Affected Zones
- 64,220 residents in Affected Zones





# Incident Location - Neighborhood





## Response

- WSS notified between 12:00 and 12:15 p.m. on Monday (11/23)
- Main identified and shut down by 1:15 p.m.





## Prestressed Concrete Cylinder Pipe (PCCP) –

Concrete pipe w/ steel liner, and reinforcing wires in the concrete outer shell. Installed in 1973 (36 years)



## Accident at Site

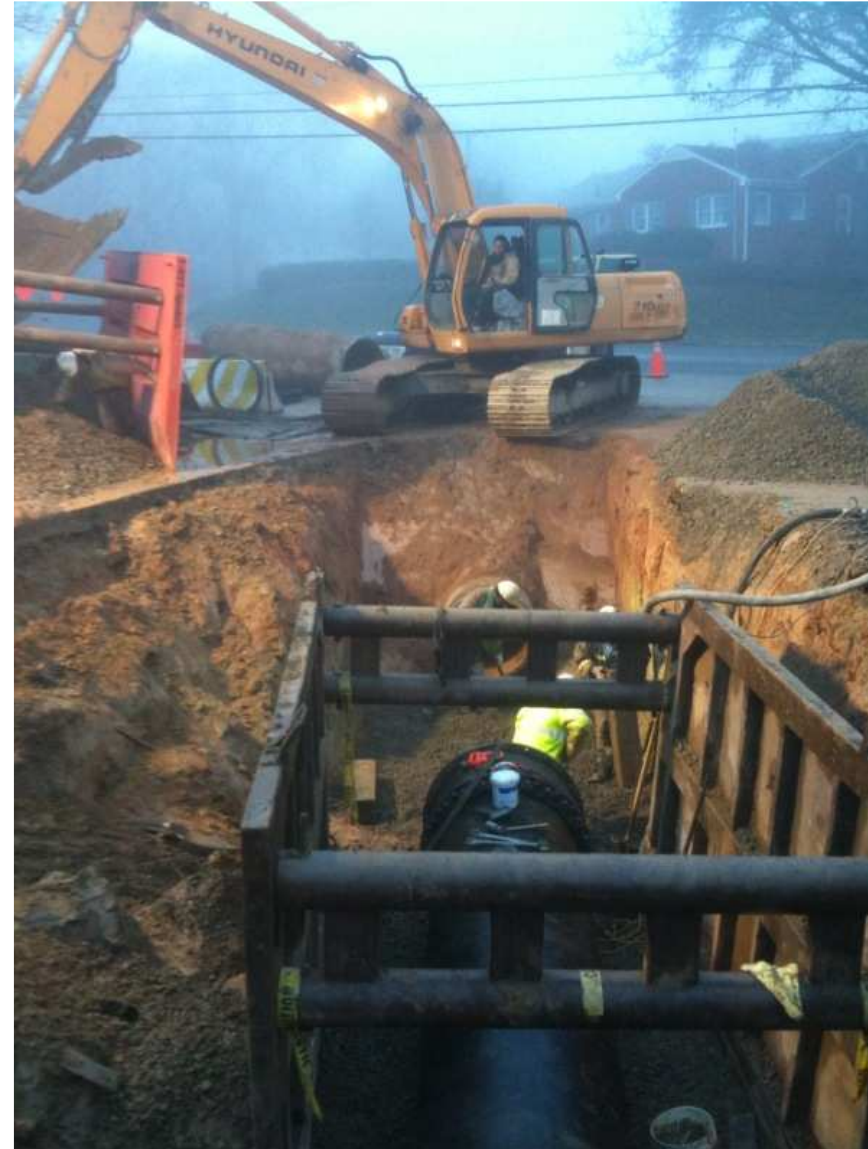
- 8:46 AM, two DES employees involved in accident at the water main work site

## Work Continues

- 16 foot section replaced and repaired
- More cracks discovered that need immediate repair
- Additional cracks a critical finding
- 6.5 feet of water in reservoir (PM)



# Thanksgiving (11/26) 9 ft. of water in reservoir



# Friday (11/27) 10 ft. of water in reservoir



## Incident Closeout

- Friday (11/27) - backfill
- Monday (11/30) - open to traffic
- Thursday (12/3) - replaced damaged curb and sidewalk
- Spring 2010 - milling and paving of the entire block



## Services to Residents

- 2 leaf collections
- 4 trash and large non-metal pickups
- Appliance (metal items) pickup at no cost to affected residents
- Sidewalk and street washings
- 5 County owned catch basins cleaned, including general vicinity of owner's yards