DC Water Presents:
Containment vs Isolation
Protecting DC Water’s Infrastructure

OVERVIEW
- Introduction
- Water in a unique city with a unique history
- DC Water Today
- The Compliance Program
- Containment
- Isolation
- How we handle Backflow Prevention
- Conclusion

DC WATER: HISTORY

Began in 1859 as the District of Columbia Water Board
The Water and sewer system were through various title changes part of the City of DC until April 1996. Congress authorized “The Water and Sewer Authority Establishment and Reorganization Act of 1996” making DC Water an independent authority within the District of Columbia. This freed DC Water from being charged by federal law to pay the federal Government for purchased water.

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DC Water as a non-profit organization, is investing in new technologies and its workforce.

Unmetered water is unaccounted money. Remember DC Water purchases its water from the US Corps of Engineers. If we don’t charge for water, the Corps still charges us.

DC WATER WHO WE ARE TODAY

99 MILLION GALLONS OF WATER PUMPED EVERYDAY
681 THOUSAND RESIDENTIAL CUSTOMERS
725 SQ. MILES OF TOTAL SERVICE AREA
80 YEARS AVERAGE AGE OF WATER MAINS

COMPLIANCE PROGRAM - UNIQUE CHALLENGES

US Army Corps of Engineers
681 THOUSAND RESIDENTIAL CUSTOMERS
725 SUPPLIED UP TO TOTAL SERVICE AREA
99 MILLION GALLONS OF WATER MAINS

CROSS CONNECTION CONTROL IN DC

- Compliance Program
- Today
- More than Cross Connection Control
- Innovation
- Water Quality
- Compliance Ratio
CONTAINMENT PROGRAM

Backflow Preventer on water service connection

- The Pros (compared to other programs)
  - Less expensive
  - Less resources
  - Less labor
  - Less time
  - Less backflow preventers tracked
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- The Cons
  - More risk of contamination and pollution
  - No protection for internal water
  - Less opportunity to educate the customer

CONTAINMENT ISOLATION PROGRAM

Backflow Preventer on water supply lines

- Pros
  - Less risk of contamination
  - Protection for internal water
  - Better opportunity to educate the customer
  - More backflow preventers tracked

- Cons
  - More expensive
  - More resources
  - More labor
  - More time

ISOLATION PROGRAM

ISOLATION
DC WATER'S SOLUTION

- Hybrid Program
- EPA Oversight
- Unique Culture
- Very active Outreach
- Codes and Regs
- Leveraging Tech

COMPLIANCE PROGRAM - UNIQUE CHALLENGES

PUBLIC OUTREACH EFFECTS PUBLIC PERCEPTION

Questions

Thank You from the Compliance Program Team

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