Part 1

Water Service Interruptions...is YOUR Community Prepared?

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First…a Little About Me…

- Currently live in Castle Rock, CO
- Grew up in Chicago but family owns a dairy farm in northwestern IL
- Studied Environmental Policy and Philosophy in college
- Completed graduate work in Biopolicy Analysis and Counterterrorism
- 24 years with EPA
- 14 years in Homeland Security positions

- Background serves me well professionally…as well as personally….because….I also happen to be….

- Mom to 4 college freshmen…and not just any college students….
  - Adopted from Kazakhstan
  - School-aged at time of adoption
  - Currently attend 4 different school

- Why am I sharing this???
Because Water is Important to Me!
Why is This Important to YOU?

Have you ever known someone was heading into a train wreck they just didn’t see coming?
Quick Poll

- How many of you work in drinking water?
- How many in wastewater?
- How many in both?
- How many of you work in neither?
  - Why are you here?
KWSD interrupts regularly scheduled programming to bring you this breaking news story. We have learned that cattle at the Cody Cattle Auction Yard in West Town, WY are becoming sick and even dying.

Lower weight animals seem to be the most affected. It’s unclear what’s causing these illnesses, but apparently symptoms begin quite quickly and the animals can die a very short time later. Stay tuned to KWSD for more details as they become available.
Surprise!!!!!

- We’re going to have a mini-Table-Top Exercise (TTX)
Volunteers Please?!?!

- Newscaster
- Caller(s)
- Note-Taker
TTX Objectives

- Gain a better understanding of:
  - Roles & responsibilities
  - Notification procedures
  - Coordination of a multi-agency, multi-sector incident
  - Cascading effects of water service interruptions
Ground Rules

- Don’t fight the scenario! *I made it up!!!*
- Pretend this is believable!
- Be nice to everyone…especially me!
- This is not a test...You’re NOT being graded
- We’re here to learn
- Feel free to role play
- Anything else???
Background
South Town, WY

- Typical small western town
  - Population of ~10,000
- Agriculture drives economy
- Mix of residential, commercial, and light industrial
Buffalo Bill Business Park (BBBP)

- Small multi-use business park
- Mix of tenants
  - Green Phoenix Environmental Services
  - Planet Brand Bagged Salads
  - Annie’s Attic Storage Units
  - Manny’s Farm Equipment Repair
  - Some vacant units
- Adjacent to Casper Cattle Auction Yard
South Town Water Department

- Surface water drinking water treatment plant
- Water source = Wy River
County Sewer Authority

- Wastewater Treatment Plant (WWTP) services West Town
- Located downstream of BBBP
- Provides primary and secondary treatment of wastewater
  - Primary sedimentation basins / clarifiers
  - Secondary aerobic biological digesters
    - aka, the “bugs”
How it all started.....
Tuesday @ 10:30 am

Phone call from Casper Cattle Auction Yard vet to State Vet:

“I want to let you know that cattle and cats are getting sick at Casper Cattle Auction Yard. The illness comes on fast and I think I may lose some of the lower weight animals.”
Phone call from Casper Cattle Auction Yard to police:

“A lot of cattle and barn cats are getting sick or even dying I think. We let an employee go last week and it was ugly. I’m worried he did something for revenge”
Tuesday @ 11:30 am

- Phone call from Casper Cattle Auction Yard vet to State Vet:

  “The cattle seem to be responding favorably to atropine injections.”
Tuesday @ 12:00 pm

Phone call from State Vet to WY Department of Agriculture:

“Cattle and barn cats are getting sick and dying at the Casper Cattle Auction Yard. I’m thinking it’s probably an environmental contaminant or poison of some sort.”
Phone call from South Town Police to auction yard:

“We checked out your former employee but he’s been in Montana since he was let go and has receipts to prove he’s been there. We’ll continue to investigate, but please let us know if you have any new information”
Phone call from the State Vet to Casper Cattle Auction Yard:

“I’m thinking there may be a problem with your water. I want you to drain your troughs and use bulk water for now.”
Wednesday @ 8:30 am

Phone call from the State Vet to South Town Water Department:

“Are you having any kind of problems with your water system? We have a lot of sick cattle and cats at Casper Cattle Auction Yard and I think it could be the water.”
Wednesday @ 12:00 pm

KWSD interrupts regularly scheduled programming to bring you this breaking news story.

We have learned that cattle and barn cats at the Casper Cattle Auction Yard in South Town are sick and some have died.

Lower weight animals seem to be the most affected. It’s unclear what’s causing these illnesses, but symptoms begin quickly and animals can die a short time later. Stay tuned to KWSD for more details as this disaster unfolds.
Thursday @ 9:30 am

Phone call from Annie’s Attic Storage Units to the police:

“I just went to cut the lock off an abandoned storage unit and there were old bags of chemicals inside. The place is a mess. There are ripped open bags labeled ‘Danger Poison’ and whatever they contain leaked under the door and into the creek that runs through the cattle yard. Can you please send someone out here?”
Thursday @ 9:50 am

Phone call from South Town Police to HazMat Team:

“We’re at Annie’s Attic Storage Units and need your assistance at a possible HazMat scene.”
Thursday @ 12:00 pm

- Evidence in storage unit:
Thursday @ 12:15 pm

- Phone call from police to South Town Water Department:

  “We have a situation at Annie’s Attic Storage Units. It looks like someone’s been storing old chemicals in one of the units and they leaked into a nearby stream.”
Radio call from operator to South Town Water Department superintendent:

“We’ve completed the initial water quality field testing in the distribution system in and around Buffalo Bill Business Park. Everything checks out O.K.”
Thursday @ 4:30 pm

- Phone call from Planet Brand Bagged Salads to FDA:

  “We’ve shut down operations because South Town Water Department issued a “Due Not Use” warning. Apparently someone poisoned the water. No one knows when it actually happened, so what should I do?”

![Salad washed & ready to eat](image)
Friday @ 8:00 am

- Phone call from laboratory to FBI:

“We have confirmed that the chemical found in South Town was the pesticide aldicarb.”
Friday @ 8:30 am

- Email from South Town Environmental Laboratory to water department superintendent:

  “Our results for semi-volatile organic chemicals and pesticides are negative for those distribution system samples from yesterday.”
KWSD interrupts regularly scheduled programming to bring you an important update in our continuing coverage of the Great Casper Cattle and Kitty Kill-off at the Cody Cattle Auction Yard.

Authorities *claim* a pesticide leaked out of a storage unit at Annie’s Attic and may…or may not…have impacted our town’s water supply.

This explains the town’s “Do Not Use” notice to all residences and businesses near the Buffalo Bill Business Park. Stay tuned for more details.
Phone call from South Town Hospital to Southern Wyoming Regional Hospital:

“Our emergency room is overwhelmed right now by people who think they’ve been poisoned by something in the water. Can we send some your way?”
Friday 1:00 pm

Call from South Town Animal Hospital to East Town Vet Emergency Center

“We’re swamped right now by residents thinking their pets have been exposed to a pesticide in the water. Can we send some your way?”
Thank you for joining us this evening as we continue coverage of the Great Casper Cattle and Kitty Kill-off in South Town.

The good news…there are no more reports of illness and residences and businesses near Buffalo Bill Business Park can use their water for basic sanitation.

Authorities ask you not to use the water for drinking, bathing, or food preparation until their investigation is complete.

We have just as many unanswered questions as you do, but for now it looks like the immediate crisis is over.
What Did We Learn???

- Who were the major players in this event? Who was involved that you didn’t expect?

- What were some of the keys to success in solving this crisis?

- What surprised you most about what happened or who was involved?

- What lessons can we take away from this and how can you apply them in your community?
Who You Gonna Call?

- Utility Managers
- Law Enforcement – *Local, State, Federal?*
- Hazmat/Spill Response Teams
- Local/State Public Health Officials
- Environmental Protection/Natural Resources Officials
- Local Officials
- TV/Radio Stations
- Repairmen
- Water Testing Labs
- Priority Customers, such as:
  - Hospitals, Nursing Homes, Dialysis Centers
  - Power Plants
  - Schools, Daycare Centers
Local Notification List

- Local Law Enforcement
- Fire Department
- Ambulance services
- Local Health Jurisdiction day and after hours
- Water Testing Laboratory day and after hours
- Local emergency management
- Water System Operators
- Neighboring Water Systems
- News Media Contacts and Local Radio Stations
- Other you would contact locally?
State Notification List

- State Police
- State Drinking Water Regional Office day and after hours
- State testing lab
- Others at the State you should contact?
Service/Repair Notification List

- Electrician
- Area Utilities
- Plumber
- Pump Specialist
- Soil Excavator
- Equipment Rental
- Any others you might contact?
Decide in Advance Who Will…

- Handle incoming phone calls and administrative support
- Provide information to the public and media
- Contact the customers
- Assess the system’s facilities and operations in the field
- Organize and carry out repairs
This Concludes Part 1
If You NEED a Break… …Take 5…
BUT PLEASE COME BACK!