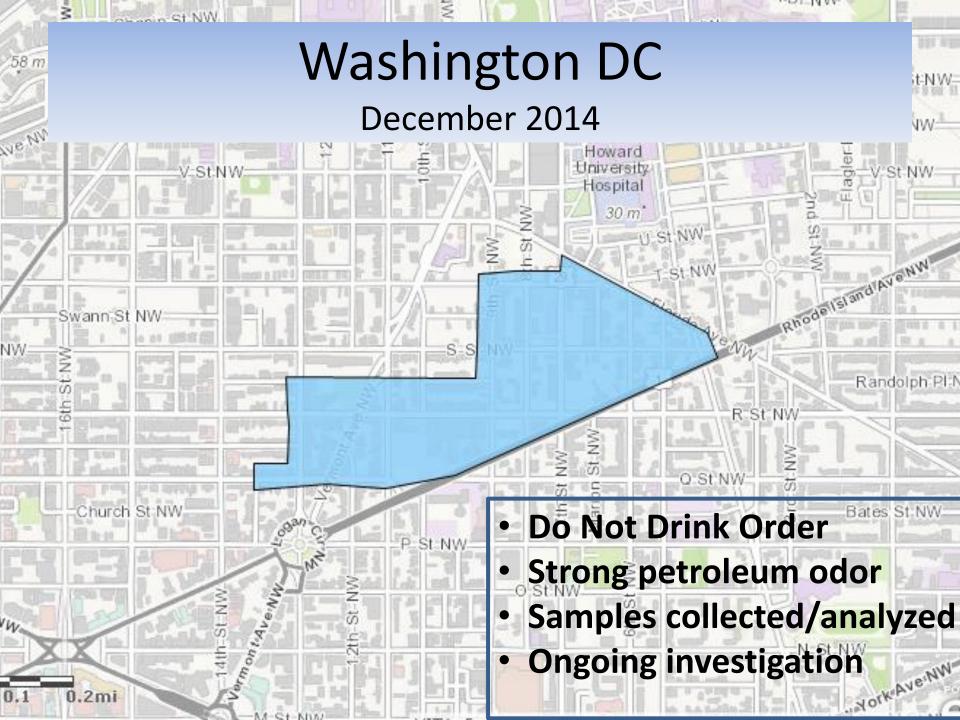
# Utility Participation Experience FPA Full Scale Exercise

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## Should We Participate?

Likelihood and Consequence...

- Could it happen? Sure
- Impact? Customers

Distribution System – Last line of defense in a multiple barrier system.



## Preparedness Continuum



Where are we now?

Less

Where do we think we should be?

**Portland Water District** 

More

## "OK we're in, now what..."

EPA/CSC planning/coordination was excellent, they...

- Held planning meeting in May
- Gave a point of contact
- Prepared exercise materials
- Gave suggestions to make exercise more valuable
- Conducted the exercise

## June 17 - Exercise Day

Location: Sebago Lake WTF

- PWD Lab Staff
- Observer: Brunswick-Topsham
- Evaluator: MeCDC

Conference call kick-off

### What Did We Learn?

EPA Tools are available and effective

Tools require account set up

Why wait, identify a PRL now

Participation is always a good thing



## EPA Water Laboratory Alliance (WLA) Resources for Enhanced Analytical Preparedness

Michael Goldberg, ORISE fellow
Office of Ground Water and Drinking Water
Water Security Division
7/15/2015



#### **Agenda**

- 1. Water Laboratory Alliance (WLA) Background
- 2. Key WLA resources for analytical preparedness
  - » Water Laboratory Alliance Response Plan (WLA-RP)
  - » Water Contaminant Information Tool (WCIT)
  - » Compendium of Environmental Testing Laboratories (Lab Compendium)
  - » New training demo: Accessing the WLA



#### What is Analytical Preparedness?

 The readiness of a utility to efficiently and effectively manage the component of emergency response involving laboratory services during a water contamination incident.

#### Why is it important?

- Labs provide critical data that aids emergency response
- Utility labs may have instrumentation or personnel limitations
- "Samples in, data out" misconception
- Quicker data turnaround and more effective response



## How does EPA's Water Laboratory Alliance (WLA) Enhance Analytical Preparedness?

- ✓ Connects utilities to a network of water laboratories.
- ✓ Provides free tools, resources, and training opportunities to bolster analytical preparedness
- ✓ Promotes the importance of analytical preparedness to the Water Sector

http://water.epa.gov/infrastructure/watersecurity/wla/





#### **Key EPA Analytical Preparedness Resources**

- Water Laboratory Alliance Response Plan (WLA-RP)
- Water Contaminant Information Tool (WCIT)
- Compendium of Environmental Testing Laboratories (Lab Compendium)
- "Accessing the WLA" training (coming soon!)





#### WLA Response Plan (WLA-RP)

Establishes guidelines to coordinate laboratory response to water utility contamination incidents



- Useful: provides guidance on communication, sample analyses, data reporting, and more
- Scalable: can be used for multiregional and smaller scale incidents
- Versatile: can be used in emergency or routine situations

http://water.epa.gov/infrastructure/watersecurity/wla/upload/WLAResponsPlan\_November2010.pdf







## Compendium of Environmental Testing Laboratories (Laboratory Compendium)

An online database of environmental laboratories nationwide- allows users to quickly find a support laboratory

Contains searchable information about laboratory...

- --Capability
- --Capacity
- --Location
- --Contact information

www.epa.gov/compendium





#### **Basic Search**

#### BASIC SEARCH PARAMETERS

Specifying parameters define the search based on selected capabilities. [Example: To search for laboratories in Alabama with the capability to analyze Aroclors, you would select Alabama (Location) AND Aroclors (Analytical Capabilities), then click "Submit"].

To expand search capabilities, select or include any of the selected values in the search. [Example: To search for laboratories in Alabama or a laboratory with the capability to analyze water samples, Aroclors, or accept samples 24 hours a day/7 days a week, you would select Alabama (Location), and select the OR option for each of the following: water (Matrix), Aroclors (Analytical Capabilities), or accepts samples 24 hours a day/7 days a week (Special Sample Handling), then click "Submit"].

Lab Name:					
Lab Type:	Industrial Laboratories International Laboratories Local/Municipal Laboratories Other Federal Laboratories Public Utility Laboratories  **Text				
Region:	-All- A Region 1 E Region 2 Region 3 Region 4 T				
Location (State): (select one or more)	-All- Alabama Alaska American Samoa Arizona				
ERLN Member: Or	✓ Yes				
WLA Member: Or	☐ Yes				
Mobile: Or	☐ Yes				
(select one or more)	Clinical (Human)  Drinking Water  Food Oil and/or Liquid Waste Other  The state of				
Analytical Capabilities: (select one or more) Or	Organochlorine Pesticides				
	All Exchange data using a broadband internet connection (e.g., DSL, cable, T1, etc.) Perform data review and assessment Pickup samples Provide electronic data deliverables				
Special Sampling Handling: (select one or more) Or	-All- Ability to "screen out" unknown samples Accept samples 24 hours a day, 7 days a week Analyze radioactive samples (Add'l info req'd see comments) Handle samples containing an unknown contaminant				



#### What is WCIT?

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The Water Contaminant Information Tool (WCIT): a secure, web-based database of information on priority contaminants of concern in drinking water and wastewater systems

- Allows for rapid identification of information about a water contaminant
- Peer-reviewed and regularly updated data
- Data specific to the needs of drinking water and wastewater systems
- Has been used in tabletop exercises and national exercises

WCIT access available through WaterISAC website (Pro members)





#### Select Categories

- General Information
- Contaminant Summary
- Other Names/Forms
- Physical Properties
- Availability
- Fate and Transport
- Medical Information
- Toxicity Information
- Field and Laboratory
- Methods
- Drinking Water
  - Treatment
- Water Quality
- Indicators
- Environmental
  - Indicators
- Wastewater Treatment
- \_\_ Infrastructure
- Decontamination

**WCIT Data Categories** 

#### **WCIT Contents**

- √809 contaminants
- ✓ Specific to drinking water and wastewater contamination
- ✓ All-hazards database
  - Intentional, accidental, or natural contaminations
  - · Biological, chemical, radiological
- √ Use throughout contamination lifecycle
  - Planning, response, and return to service





#### **WCIT Trainings**

Trainings since August 2014

Water Sector professionals trained

New trainings posted!
Sign up today!

http://water.epa.gov/infrastructure/waters ecurity/wla/training.cfm#live



**Powered by** 





#### Accessing the WLA (coming soon!)

Trains the Water Sector on the resources available to identify analytical support

- Response can get complex with many different types of labs to be called upon for support
- What if your partner lab is unavailable?

#### Training includes

- Training Resource (interactive pdf)
- 1-page Summary Resource

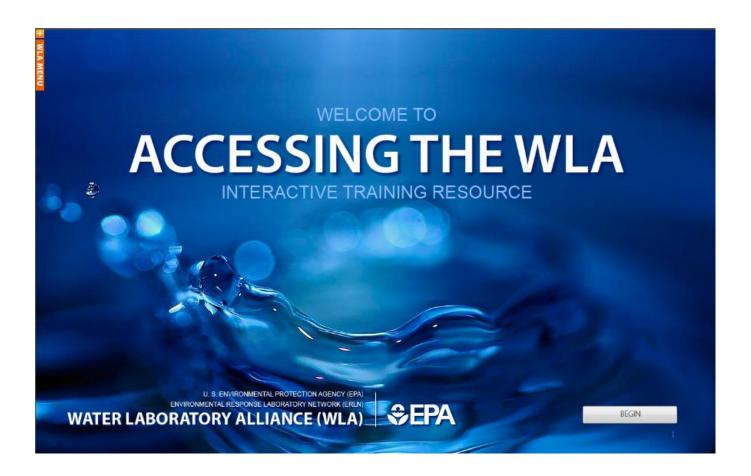
Laboratory services can be accessed through five routes:

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LOCAL	STATE	LABORATORY	EPA REGIONAL	EPA
LABORATORIES	RESOURCES	COMPENDIUM	LABORATORY	HEADQUARTERS





#### **DEMO**





#### **Additional Analytical Preparedness Resources**

#### WLA resources

- Continuity of Operations Plan (COOP) Template
- Sampling Guidance for Unknown Contaminants in Drinking Water
- Containment and Disposal of Large Amounts of Contaminated Water: A Support Guide for Water Utilities.
- Analytical Preparedness Full-Scale Exercise (AP-FSE Toolkit) (coming soon!)

Analytical Preparedness Self-Assessment (APS) (coming soon!)

Full List → <a href="http://water.epa.gov/infrastructure/watersecurity/wla/index.cfm#tools">http://water.epa.gov/infrastructure/watersecurity/wla/index.cfm#tools</a>

#### Non-WLA resources

- Selected Analytical Methods for environmental Remediation and Recovery (SAM)
- Web-based Electronic Data Review (WebEDR)
- Association of Public Health Laboratories (APHL)
- WaterISAC





#### **Questions?**



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WLA Homepage

http://water.epa.gov/infrastructure/watersecurity/wla/