

# Emergency Response- Field Support for Sample Integrity NEMC- Bellevue, WA

Charles Newton Laboratory Director Mobile, AL

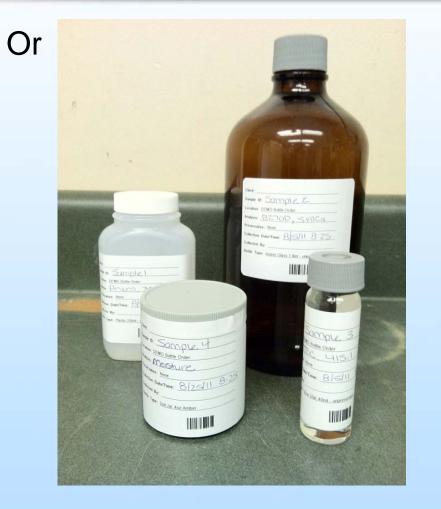
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THE LEADER IN ENVIRONMENTAL TESTING

#### **Reality vs. Expectation**



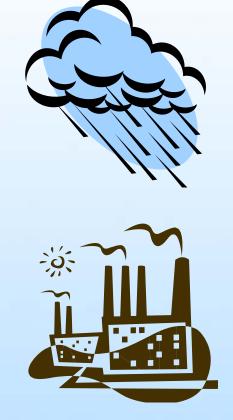




### **Types of Events**

- Natural disasters
  - ~ Hurricanes, Tornadoes
- Industrial releases
  - ~ Explosions, spills, releases
- Transportation releases
  - ~ Derailments, crashes
- Large scale field activities
  - Remediation activities, dredged material evaluations

Potentially chaotic events with multiple parties collecting samples for submittal to a variety of different laboratories.





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### **Goals and Objectives**



Sample Receiving Office

- Improve defensibility and usability of data: quality control of supplies & consistency of handling.
- Shipping of samples in compliance with DOT requirements
- Adherence to the data quality objectives of the project, if they have been established
- Provide independent peer review of sample integrity and COC documents in the field prior to lab submittal
- Minimize data rejection due to field issues
- Reduce the need to re-sample: lost, broken, or compromised samples



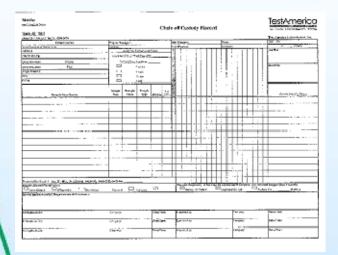
#### **Parties of Interest**

- Responsible Party
- Local, State and Federal Authorities
- U.S. EPA
- Legal Counsels
- Consultants/ Field teams
- Third Party QA Providers
- Laboratories
- Media/ Public

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#### **Common Sample Receipt Issues**



- Incomplete Chain of Custody (COC) records
- Misidentified Samples
- Inappropriate sample containers
- Noncompliant sample submitted for analyses
- Broken sample containers
- Samples arriving to lab outside of temperature requirements



# **Special Considerations**

- Conflict of interest and confidentiality
- Documented procedures
- Training of staff
- Hours of operation
- Health and Safety concerns
- Site Conditions
- Volume of samples anticipated
- Cost





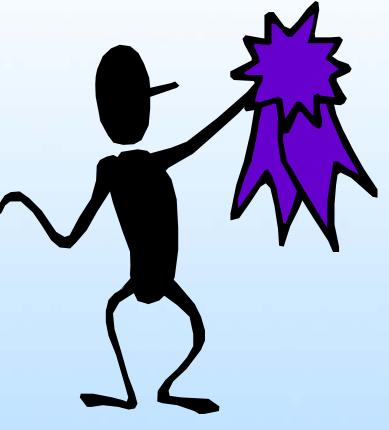
# **Roles and Responsibilities**

- Coordinate outgoing sample kits and supplies
- Track the quality of the sample containers being used
- Inform field teams of special method or regulatory requirements
- Inspect and document sample labeling against the chain of custody
- Document any anomalies
- Appropriately pack and ship samples to receiving laboratories



#### **Value of Service**

- Traceability of field supplies
- Known quality of sample containers
- Peer review of COC prior to lab receipt
- Extended field time by assigning responsibility to sample custodian
- Real-time resolution of discrepancies
- Faster processing time in the laboratory
- Higher quality of data being collected





## **Contingency Planning**

- Know the hazards and contaminants of concern
- Identify emergency responders
- Response decision tree
- Identify subcontractors and duties
- Develop a written response plan
- Teaming agreements with responders and vendors
- Document lessons learned



#### Contributors

- Charles Newton
  <u>charles.newton@testamericainc.com</u>
- Bosco Ramirez
  <u>bosco.ramirez@testamericainc.com</u>
- Betsy Beauchamp
  <u>betsy.beauchamp@testamericainc.com</u>
- Tim Knollmeyer
  <u>tim.knollmeyer@testamericainc.com</u>
- Nathan Pietras

nathan.pietras@testamericainc.com