**Sprinkler System Pipe Sample Corrosion Analysis Information Form**

**Sample Submitted By:**
- Name ___________________________
- Company ________________________
- Address _________________________
- City __________________ State _____ ZIP ______
- Phone No. _______________________
- E-mail __________________________

**Sample Location:**
- Facility __________________________
- Address _________________________
- City __________________ State _____ ZIP ______

**Pipe Sample Information:**
- Date Collected _____________
- Location (check one)
  - Riser ☐
  - Cross Main ☐
  - Branch Line ☐
  - Other ☐
- Pipe Diameter (inches): ___________
- Pipe Schedule (check one)
  - Schedule 40 ☐
  - Schedule 10 ☐
  - Schedule 5 ☐
  - _________ ☐
- Pipe Orientation
  - Horizontal ☐
  - Vertical ☐

**System Information (check one)**
- Dry Pipe ☐
- Preaction Dry Pipe ☐
- Wet Pipe ☐
- Supply ☐

**Dry or Preaction Air Supply (check one)**
- Plant Air ☐
- Stand Alone Air Compressor ☐
- Nitrogen Bottles ☐

**Wet Pipe Water Source (check one)**
- Municipal (City) Water ☐
- Water Well ☐
- Pond or Lake ☐
- Water Storage Tank ☐

**Approximate Age of System:** _____ years

**System Operation Pressure**

**Wet System**
- Water Pressure: ________ psi

**Dry/Preaction System**
- Water Pressure: ________ psi
- Maintenance Gas Pressure: ________ psi

**System Leak History:** (e.g. recent leaks when, and where, number of leaks)

**Ship Sample To:**
- Engineered Corrosion Solutions
- Attn: Analytical Services
- 11336 Lackland Road
- St. Louis, MO 63146

☐ Check Box to have sample returned. Ship To: ________________________________
SPRINKLER SYSTEM PIPE SAMPLE CORROSION ANALYSIS

ECS Fire Sprinkler System Pipe Sample Corrosion Analysis involves sectioning and media blasting the FPS pipe sample to allow for visual inspection of the FPS piping component. The Engineered Corrosion Solutions Interpretation and Analysis Report presents a description of the characteristics of the metal loss, evaluation, and measurements of any pitting that has occurred and the most likely cause for the metal loss and failure (if present).

PROCEDURE FOR PIPE SAMPLE COLLECTION AND SAMPLE PREPARATION

**Step 1:** If pinhole leak is present on fire sprinkler piping, locate and mark pinhole leak/failure with a grease pencil or indelible ink marker.

**Step 2:** Before removal of piping section, indicate the pipe sample’s orientation by marking “TOP” at the 12 o’clock position of the pipe.

**Step 3:** Remove an approximately 8 to 12-inch section of fire sprinkler pipe with pinhole leak/failure located in the middle of the pipe section.

**OR**

If no pinhole leak/failure is present, remove approximately 8 to 12-inch section of fire sprinkler pipe which exhibits the most corrosion damage.

**Step 4:** Allow liquid to drain from pipe sample.

**Step 5:** Wrap both ends of the pipe sample with plastic and seal with tape to preserve sediment for analysis.

**Step 6:** Place Pipe Sample in Shipping Container.

**Step 7:** Complete one Pipe Sample Information Form for each pipe sample, clearly identifying the sample, and place the form with the sample in the shipping container. Provide as much of the information as available. Check box and provide return shipping address if you would like to have the sample returned at no additional cost.

**Step 8:** Ship Pipe Sample and Pipe Sample Information Form to:

Engineered Corrosion Solutions  
Attn: Analytical Services  
11336 Lackland Road  
St. Louis, MO 63146  
Phone: (314) 432-1377