

Job Hazard Analysis

(Always Wear Proper PPE)

Project:	Superintendent:
Task: Water Line Hydrostatic Testing	Date:

Step	Potential Hazards	Safe Procedures/ Crew Responsibilities
Preparation		<ul style="list-style-type: none"> • Designate a Competent Person or persons • Review P3 (Preparation planning Procedures) and Hazard Analysis with crew • Assess location and conditions* • Complete and review STA's daily • Review system and testing specifications • Coordinate all activities with water company
Set up test pump and equipment	Trips and falls	<ul style="list-style-type: none"> • Good housekeeping in work areas
	Strains and sprains	<ul style="list-style-type: none"> • Get help to lift pumps, etc. > 50 lbs. or having awkward shapes
	Hand and finger injuries	<ul style="list-style-type: none"> • Wear gloves to handle sharp or abrasive objects • Watch out for pinch points
Activate main valve to water supply; fill pipeline and expel air from system	Air in system causes water hammering in pipeline and possible ruptures to system	<ul style="list-style-type: none"> • Have air release/discharge valves at problem high spots in pipe • Be sure air and water discharge valves are fully open and discharge hoses/piping are secured in place • Open main valve slowly
	Rupture of line or end caps due to high pressure	<ul style="list-style-type: none"> • Block end caps with thrust blocks or threaded rod • Do not pressurize system until all pipes have been properly backfilled and end caps are secure

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Flush system of dirt, rocks, and other debris	Runoff water causes erosion and sedimentation problems, unstable ground conditions, or flooding problems	<ul style="list-style-type: none"> • Direct water towards ditches or catch basin; use fire hoses or other means as necessary to direct water to suitable location
Connect test pump to test port and water supply	Failure of test pump system results in violent pressure release or allows too much pressure in pipe	<ul style="list-style-type: none"> • Proper training and experience for test crew • Inspect test pump, valves, and pressure gauges prior to test • Fittings and other components are rated for test pressures • Test pump is properly connected to system and water supply
Pressurize system, allow system to stabilize and observe pressures	Injury to person who opens a valve under high pressure	<ul style="list-style-type: none"> • Lockout / Tagout valves and test lines during test
Depressurize system and disconnect test pump	Potential stored energy in pipeline	<ul style="list-style-type: none"> • Depressurize system to at least normal operating pressure and close ball valve on test port prior to disconnecting test pump
Other Steps (if any):	Other Hazards:	Other Safe Procedures: <p align="center">*If work is to be performed in a travel way, complete and follow ‘Work in Travel Way’ Job Hazard Analysis</p>