

# JOB SAFETY ANALYSIS

Safety Information for the University of California, Berkeley

## Facilities Services

### Galvanized Pipe Inspection & Repair

TASK	HAZARDS	CONTROLS
1. Inspect area of leak to determine if leak is irrigation related.	Heat  Slips, trips, and falls  Snakes, insects, vermin, poisonous plants, other biological hazards  Construction/vehicular traffic	Shade/water/breaks as necessary  Inspect area before working Clear and block off work space with cones, caution tape, or other methods as needed  Inspect area before working Wear pants and long sleeve shirts (uniform) Use insect repellent if available  Wear a high visibility vest Set cones as needed
2. Isolate irrigation supply at the point of connect and allow area to dry. If the leak cannot be isolated from the point of connect, inform your Lead. Submit an assist if necessary.	Muscle sprains/strains injuries	Use proper body positions & lifting technique Use proper tools
3. Excavate area to expose lateral lines after area has sufficiently dried. Submit an assist to the Masons for main lines.	Muscle sprains/strains injuries  Cuts/bruises/pinch points/crushing injuries from tool use  Slips, trips, and falls	Use proper body positions & lifting technique Use proper tools Use machinery and equipment when possible  PPE: gloves, safety toed boots, pants and long sleeves (uniform)  Inspect area before working Clear and block off work space with cones, caution tape, or other methods as needed
4. Survey excavated area for presence of additional pipes. If there is a presence of natural or other gas, stop and inform the Lead. Submit an assist if necessary.	Explosive gases and gas inhalation  Slips, trips, and falls	Isolate utility lines  Inspect area before working Be aware of open trenches & exposed pipes Cover excavation with plywood and caution tape to make area safe when not actively working
5. Re-engage irrigation line and observe pipes for leaks.	Muscle sprains/strains injuries	Use proper body positions & lifting technique Use proper tools
6. If the pipe in question is determined to be an irrigation line, proceed with the repair. If there is any uncertainty, inform the Lead. Submit an assist if necessary.	Misidentification of line (possible electrical or gas line)	Isolate electrical lines Isolate utility lines
7. Isolate irrigation supply at the point of connect and allow area to	Muscle sprains/strains injuries	Use proper body positions & lifting technique Use proper tools

<p><b>Other Information:</b></p> <p><b>Contributors:</b> Juan Casanova – Grounds/Landscaping Supervisor Nick Cole – Lead Irrigation Plumber Hoanhni Nguyen – Facilities Safety Specialist Gary Bayne – EH&amp;S Specialist</p> <p><b>Created:</b> March 2020</p> <p><b>JSA Library Number:</b> FS – JSA – 005</p> <p>For more information about this JSA, contact the Department Safety Coordinator.</p>	dry.		
	8. Cut sections of pipe and prep joints by deburring sharp edges.	Cuts from sharp edges Flying debris Noise	Use appropriate PPE: gloves, glasses, face shields, safety shoes, knee pads, ear plugs, ear muffs, long sleeves and pants, etc. Two hand operation on tools Tool inspection (guards and frayed cords)
		Electric shock	Isolate electrical lines Use insulated tools
		Explosive gases and gas inhalation	Isolate electrical lines
	9. Connect new pipe with existing pipes. (Compression couplings)	Muscle sprains/strains and pinch points	Use proper body positions & lifting technique Use proper tools
	10. Re-engage supply irrigation line, bleed pressure, and observe for leaks.	Muscle sprains/strains injuries	Use proper body positions & lifting technique Use proper tools
	11. Cover trench opening. Refill opening with dirt if it's a lateral line. Cover opening with plywood and submit an assist to the Masons for main lines.	Muscle sprains/strains injuries	Use proper body positions & lifting technique Use proper tools
<b>Required Training:</b>	<b>Personal Protective Equipment (PPE)</b>		
Personal Protective Equipment	Ergonomics	Safety toed boots	Safety glasses/face shield
Heat Illness Prevention	Hearing Conservation	Knee pads	Leather/cut resistant gloves
		Ear plugs/muffs	