

U.S. Department of Agriculture Natural Resources Conservation Service	<b>1. WORK PROJECT/ACTIVITY</b> <b>BACKHOE OPERATIONS</b>	<b>2. LOCATION</b> <b>OREGON DCO</b>	<b>3. UNIT</b> <b>Snow Survey</b>
<b>JOB HAZARD ANALYSIS (JHA)</b>	<b>4. NAME OF ANALYST</b> <b>Sheila Strachan</b>	<b>5. JOB TITLE</b> <b>Hydrologist</b>	<b>6. DATE PREPARED</b> <b>02/15/2007</b>
<b>7. TASKS/PROCEDURES</b>	<b>8. HAZARDS</b>	<b>9. ABATEMENT ACTIONS</b> Engineering Controls * Substitution * Administrative Controls * PPE	
<b>Operating Machine</b>	Injury to rider or those in area	<ol style="list-style-type: none"> <li>1. Only qualified operators shall operate backhoe</li> <li>2. Post signs at each end of project</li> <li>3. Stabilize machine with outriggers and bucket</li> <li>4. Keep R.P.M.'s set to match work</li> <li>5. Maintain visual contact with laborer(s)</li> <li>6. No riders</li> <li>7. Use seat belt</li> <li>8. Be familiar with operators manual</li> <li>9. Be sure lights are operational</li> <li>10. Locate underground wires and pipes before digging</li> <li>11. Use beacon to warn other vehicles</li> <li>12. Keep floor clean and items secured</li> </ol>	
<b>Travelling With Machine (Roading)</b>		<ol style="list-style-type: none"> <li>1. Place outriggers in stored position</li> <li>2. Carry bucket close to ground</li> <li>3. Place backhoe in stored position</li> <li>4. Do not use suicide knob while roading</li> <li>5. No riders</li> <li>6. Use beacon to warn other vehicles</li> <li>7. Do not use brakes to steer while roading</li> <li>8. Be sure all lights are operational</li> <li>9. Wear seat belt</li> <li>10. Adjust and use rear view mirrors</li> </ol>	
<b>Loading Trucks</b>	Roll Over	<ol style="list-style-type: none"> <li>1. Operate machine on level ground</li> <li>2. Carry bucket close to ground</li> <li>3. Be sure driver stays in cab or at front of truck</li> <li>4. Do not over fill trucks</li> </ol>	
<b>Lifting Objects with Machine</b>	Tipping	<ol style="list-style-type: none"> <li>1. Lift objects in line with backhoe</li> <li>2. Lift only as high as necessary</li> <li>3. If machine tips, release load or steer downhill</li> <li>4. Secure all accessories in operator compartment</li> <li>5. Use seat belt</li> <li>6. Stay away from road edge</li> <li>7. Carry bucket as low as possible</li> </ol>	

7. TASKS/PROCEDURES	8. HAZARDS	9. ABATEMENT ACTIONS Engineering Controls * Substitution * Administrative Controls * PPE
<b>Off Road Use</b>	Losing Control, roll over, etc...	<ol style="list-style-type: none"> <li>1. Use seat belt</li> <li>2. Secure all accessories in operator compartment</li> <li>3. Travel straight up or down hill</li> <li>4. Keep side hill use at a minimum</li> <li>5. Use guide to locate route</li> <li>6. Use lowest gear</li> <li>7. Carry heavy loads close to ground</li> </ol>
<b>Operating in a roadway</b>	Interfering with traffic	<ol style="list-style-type: none"> <li>1. Post signs at each end of project</li> <li>2. Dig one lane only or use bypass</li> <li>3. Use beacon or flashers to warn other vehicles</li> <li>4. Use barricades to mark burms and holes</li> <li>5. Utilize flaggers</li> <li>6. Use seat belt</li> <li>7. Only qualified operators shall operate backhoe</li> <li>8. Shut machine down when traffic passes</li> </ol>
<b>Loading and Unloading from a Trailer</b>	Roll over	<ol style="list-style-type: none"> <li>1. Load and unload on level ground</li> <li>2. Use seat belt</li> <li>3. Use lowest gear</li> <li>4. No riders</li> <li>5. Carry bucket as low as possible</li> <li>6. Center machine on trailer</li> <li>7. Lower bucket when loaded</li> <li>8. Chain both forward and backward</li> <li>9. Use high tensile chain</li> </ol>
<b>Response to emergencies</b>	Not being able to get help	<ol style="list-style-type: none"> <li>1. Contact nearest medical or call 9-1-1 on cell phone</li> <li>2. At least one person on crew trained in medical emergencies and CPR</li> <li>3. In case of fire contact landowner with legal</li> <li>4. Assist medical with directions to the scene</li> <li>5. Render first aid to the best of your ability</li> <li>6. Inform supervisor of any and all injuries</li> <li>7. Air Life emergency # 1-800-621-5433</li> </ol>
10. LINE OFFICER SIGNATURE  Previous edition is obsolete	11. TITLE22  (over)	12. DATE

